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COGNIRON

The Cognitive Robot Companion

Integrated Project

Information Society Technologies Priority

Periodic Management Report 2005

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Project coordinator: Raja Chatila

Project co-ordinator organisation : LAAS-CNRS, France

Remark:

Note: the present document is a slightly revised version of the initial consolidated version prepared on 21/02/2006 and received by the Commission on 23/02/2006. This new version complies with the initial requests for precisions and clarification made by our project officer, following the 2nd project review.

This report is strongly linked to the **Periodic Activity Report**¹ for the 2nd year (Year 2005) of the COGNIRON project; it should therefore not be read independently.

The content of this Periodic Management Report is also closely related to the **project deliverables** submitted to the 2nd project review.

These deliverables are available on a dedicated webpage (url : <http://www.cogniron.org/review2/index.html>), which has been specifically set up by LAAS (NB : access is restricted to the project reviewers the European Commission, and the project members).

NB: As mentioned on page 4 of this report (as well as within the Periodic Activity Report), two partners have left the project in 2005 (the **VUB** – partner n°9- and **GPS** – partner n°10). They have already submitted, in the summer of 2005, the costs related to their participation in the project during 2005 (4 months for VUB and 6 months for GPS). The outcome of their processing by the Commission has been received already in December 2005. However, we decided to include their financial information in this report, for the sake of being consistent when reporting about financial issues during the 2nd year of COGNIRON.








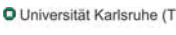


¹ The PAR 2005 is available here : <http://www.cogniron.org/review2/page10/page10.html> (restricted access)

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List of Participants

The project started on **January 1st 2004** with the following list of **10 contractors**:

Part. Role	Part. No ^o .	Participant name	Participant short name	Country	Date enter project	Date exit project
CO	1	Laboratoire d'Analyse et d'Architecture des Systèmes 	LAAS-CNRS	France	1	48
CR	2	Swiss Federal Institute of Technology 	EPFL	Switzerland	1	48
CR	3	Fraunhofer Institute for Manufacturing Engineering and Automation 	IPA	Germany	1	48
CR	4	Royal Institute of Technology, Centre for Autonomous Systems 	KTH	Sweden	1	48
CR	5	University of Amsterdam 	UvA	The Netherlands	1	48
CR	6	University of Bielefeld 	UniBi	Germany	1	48
CR	7	University of Hertfordshire 	UH	UK	1	48
CR	8	University of Karlsruhe 	UniKarl	Germany	1	48
CR	9	Vrije Universiteit Brussel 	VUB	Belgium	1	48
CR	10	Gesellschaft für Produktionssysteme Stuttgart GmbH 	GPS	Germany	1	48

2005 saw the **withdrawal of two project partners**, both on their own requests:

- the **Vrije Universiteit Brussel** (VUB, partner n^o 9) left the consortium on April 30th 2005, due to a change of position for the lead researcher (move from Brussels to Plymouth, UK);
- the **Gesellschaft für Produktionssysteme Stuttgart GmbH** (GPS, partner n^o10) left the project on June 30th. This decision was motivated by the fact that it proved impossible for GPS (an SME) to provide a bank guarantee to the European Commission, in counterpart to the allocated funding. GPS thus was not allowed to receive an initial pre-financing like the other partners and had to pre-finance its own participation by means of a loan, which isn't a viable option from an economic point of view for such a small business.

From July 2005 on, **the COGNIRON consortium had kept implementing the project with the remaining 8 partners**: LAAS-CNRS (coordinator) EPFL, Fraunhofer-IPA, KTH, UvA, UniBi, UH, UniKarl.

Section 1 - Justification of major cost items and resources

1.1. Brief description of the work performed by each contractor during the period.

The following pages are providing a brief description of the work performed by each COGNIRON contractor between January 2005 and December 2005.

• LAAS-CNRS

The role of LAAS-CNRS within the COGNIRON project is three-fold :

- Project co-ordination
- Project management
- Leadership and contribution to the project Research Activities and Key Experiments.

○ *Project coordination*

NB: A detailed description of the project coordination activities is also available within Section 3.3 of the 2005 Periodic Activity Report (pp. 70-71)²

The project coordination involved the following activities:

- **Project co-ordination (strategic/scientific/daily business):**

- . Day-to-day co-ordination activities including communication and co-ordination with the project Board and both work packages and research activities leaders (WP and RA leaders),
- . Initiating, moderating and finalizing decision making processes
- . Identifying critical scientific issues (with the project Board and both work packages and research activities leaders)
- . Communication with the European Commission's officers

- **Project monitoring and assessment of project progress (in co-operation with the Project Board) :**

- . LAAS took care of the scheduling of frequent **telephone conferences** with the Board, General Assembly and workpackage leaders. The aim of these phone conferences was to monitor the project progress, and actual implementation of the different components of the current work plan.

- **Quarterly Reports** (short written reports, activity summaries) referring to milestones and deliverables and their status. These reports were written by the WP and RA leaders (March-May-

September + this periodic activity report) and assessed on a quarterly basis by both the Project Coordinator and the project Board. The intermediate reports through the year were also be used as a starting basis for the preparation of the Periodic Activity Report..

- Organisation and supervision of the **reviewing and evaluation and of project deliverables**, reports and publications by both the project Coordinator and the project Board.

- **Contingency planning (in close co-operation with the Project Board**

- . Issuing warnings to partner(s) whose contributions are significantly delayed
- . Urging partner(s) with significant delays to take specific corrective measures – the workplan will be revised according to this new situation – while respecting the global objectives and milestones of the project.

- **updating work plans (in close co-operation with the Project Board and the work packages and research activities leader)**

- . Overall scheduling and organisation of the workplan revision process
- . Data collection follow-up (with support from the Wiki)

² <http://www.cogniron.org/review2/page10/page10.html>

- . Consolidation of document and final editing
- . Update of the project budget for the 3rd project phase

○ **Project management**

NB: A detailed description of the project management activities is also available within Section 3 of the 2005 Periodic Activity Report (pp.66-69).

2005 was a busy year again regarding project management and coordination tasks. Consortium management activities were essentially focused on 6 issues in 2005:

- Project reporting for 2004 and organisation of the 1st review meeting;
- Revision of the detailed implementation plan for Phase 2 of the project (T0+12 – T0+30);
- Negotiation of changes to the consortium: withdrawal of two partners (VUB and GPS);
- Preparation of a request for a first amendment to the COGNIRON EC Contract;
- Budget planning and financial perspectives at mid-project
- Preparation of the 2005 reporting and 3rd Workplan for Phase 3 (T0+24 – T0+42)

A more detailed description of each of these activities is available within the 2005 Periodic Activity Report.

○ **Participation in Research Activity 1 – Multi-modal dialogues**

LAAS was involved in RA1, to cover the needs for links between both dialogue and architectures issues. This allowed bridges between RA1 and RA6, and a cooperation between LAAS and UniBi.

NB: A detailed description of the RA1 activities is also available within the 2005 Periodic Activity Report (pp.14-16. See also deliverable D1.2005³.

○ **Involvement in Research Activity 2 – Detection and Understanding of Human Activity**

Within **WP2.1** (*Detection and perception of body parts based on sensor features*), LAAS worked on the following issues:

- **Person 2D tracking:** We ended the development and the optimization of three 2D tracking modalities. These concern proximal visual tracking (person in the vicinity of the robot, for active H/R interaction), short-range monitoring (human activity observation), long-range monitoring (human activity observation at long H/R distance, for passive H/R interaction). We performed extensive off-line tests of these modalities, on visual sequences acquired from the robot in various contexts: background clutter, illumination changes, etc. A thorough evaluation was conducted with respect to the following criteria: robustness, precision, computational aspects. After this fine characterization of these different trackers, we have been integrating them all on the robot Rackham.
- **Preliminary development of a 3D model-based approach to the tracking of an arm.** This preliminary study took place within a master student's 6 months training period. The approach, which relies on Unscented Kalman filtering, was tested on synthesized images in specific situations, but has not been experimented on real data so far. This work will be pursued, see below.
- We **integrated people 2D tracking modalities on the KE2 robot Rackham.** This will conclude all our work on 2D tracking.

Within **WP2.2** (*Human body model: integration and fusion*), LAAS worked on the following issues:

- **Gestures 2D tracking:** We are finalizing our developments and implementations concerning this topic. They essentially consist in the proposal of a theoretically better alternative to the mixed-statec CONDENSATION, and in its evaluation.
- Thanks to the definition of a new likelihood function, fusing shape and color cues, in the symbolic gestures tracking and recognition system, **the number of recognized static configurations has been raised to 9.** A

³ RA1 joint deliverable 2005 : <http://www.cogniron.org/review2/page1/page1.html>

thorough evaluation of this system showed that fusing multiple cues leads to a 90% recognition rate in cluttered environments.

- **Submission of publications to ICRA'06** (International Conference on Robotics and Automation) and **RFIA'06** (French Congress on Pattern Recognition and Artificial Intelligence).
LAAS has been integrating all the 2D modalities on the robot Rackham for KE2.

NB: A detailed description of the RA2 activities is also available within the 2005 Periodic Activity Report (pp.17-21.) See also deliverable D2.2005⁴.

○ **Involvement in Research Activity 3 – Social Behaviour and Embodied Interaction**

LAAS was essentially involved in **WP3.1**, **WP3.2**, and **WP3.3**.

In **WP3.1/WP3.2**, we worked in close cooperation with UH. This cooperation resulted in a joint paper, accepted to HRI06. Within **WP 3.3** (Models and Algorithms for Motion in the Presence of Humans) we worked on the development of a motion planner that explicitly takes into account the human by reasoning about his accessibility, his vision field and potential shared motions. The extensive literature research we had conducted in the first year of the project about the properties of human-robot interactions and existing approaches to model these interactions allowed us to infuse these properties into the core of the planner and thus allowing the robot plan trajectories by taking into account the physical/mental safety and the field of view of the humans in the environment. The processing time of our planner proved itself to be fast enough to be used in changing environments by providing fast replanning in case of an important change.

NB: A detailed description of the RA3 activities is also available within the 2005 Periodic Activity Report (pp.22-26). See also deliverable D3.2005.⁵

○ **Involvement in Research Activity 4 – Learning Skills and Tasks**

The overall goal of **WP4.2** (*Social context for the Correspondence Problem*) work is a deeper scientific understanding of how to exploit the social context of imitation in skill and task learning. Together with LAAS/CNRS and IPA, UH developed a methodological approach relating the classification of gesture to identification of human intent.

NB: A detailed description of the RA4 activities is also available within the 2005 Periodic Activity Report (pp.27-30). See also deliverable D4.2005.⁶

○ **Involvement in Research Activity 5 - Spatial cognition and multimodal situation awareness**

In RA5, LAAS is involved in both **WP5.1** (models of space) and **WP5.2** (models of objects).

In **WP5.1**, within the frame of the work task **WP5.1.1** (*Appearance-based methods for topological map building*) work was carried on classification of rooms using simple features derived from range sensors (KTH) and omnidirectional vision systems (in cooperation with UvA and EPFL). Results have been described in deliverable D5.2005-1.

Furthermore, still in **WP5.1**, within the work task **WP 5.1.3** (*Active space modelling from the detection of local structures*), LAAS developed a method to learn the environment from two different visual modalities: a color omnidirectional camera and an active camera with pan, tilt and zoom parameters that can be controlled by the system. Results have been described in deliverable D5.2005-1.

In **WP5.2**, within the work task **WP5.2.1** (*Learning under human supervision*), LAAS developed a view-based learning method for extracting object representations from stereo cameras. Fast-learning maps of neurons are developed to track object position and create "on the fly" new view-specific maps in order to

⁴ RA2 joint deliverable 2005 : <http://www.cogniron.org/review2/page2/page2.html>

⁵ RA3 joint deliverable 2005 : <http://www.cogniron.org/review2/page3/page3.html>

⁶ RA4 joint deliverable 2005 : <http://www.cogniron.org/review2/page4/page4.html>

capture and pool together different representations of the object from several points of view. Adaptivity to object size is established by using hierarchical representations. Space representations are egocentric by representing them as proprioceptive patterns. So an object is represented by its 'what' (identity), 'where' (pan,tilt,depth) and 'how' (actions such as wheel speeds). Specific associations between the representations can be learned.

Finally, still in WP5.2, and within the frame of the work task **WP5.2.2**. (*Learning with object manipulation*), Work at LAAS focussed on the 3D model. The model is built using two stereovision sensors, mounted on out JIDO testbed at LAAS. One sensor (20cm baseline) will be on a pan and tilt platform fixed on a mast above the arm of JIDO; the other (a VIDERE stereo head, with a 9cm baseline) will be fixed closed to the JIDO gripper. From 3D images acquired from these stereo sensors, the model is built using a classical registration-fusion loop. The final representation is a triangular mesh. Experimentally two methods will be compared: an incremental fusion method and a global method.

NB: A detailed description of the RA5 activities is also available within the 2005 Periodic Activity Report (pp.31-33). See also deliverable D5.2005-1 [models of spaces] and D5.2005-2 [models of objects].⁷

○ ***Leadership of Research Activity 6 – Intentionality and Initiative***

LAAS is the workpackage leader of Research Activity 6, which deals with architecture issues as well as intentionality and initiative.

Within the frame of **WP6.1** (*A generic architecture for a cognitive robot*), concerning software architecture and integration issues, joint discussions and meetings with RA7 have resulted in a common definition of Cogniron services. A wiki has been developed and installed in order to allow the partners to incrementally propose and discuss the various services that will be developed through the project and demonstrated in the framework of the KEs in close relation with RA7. The wiki is maintained by LAAS.

LAAS has also worked on an open version of GeNom, called OpenGeNOM, which has been released in October (see also : <http://softs.laas.fr/openrobots/>).

In **WP6.2** (*Models and Algorithms for cognitive robots supervision*), substantial progress in the implementation of architectural components was made: a robot supervisor derived from the HRI framework and a task representation that is suited for task adaptation and extension at run-time.

LAAS has dedicated efforts to devise a robot supervisor that allows explicit manipulation of goals, task refinement and communication. Indeed, the objective is to develop a management of human interaction that is an integral part of a general robot control architecture.

In **WP6.3** (*Human robot collaborative problem-solving*), the aim of the work is to develop a software framework that will allow to program human-robot decisional interaction.

LAAS has devised a generic framework that provides a basis for a principled way to deal with Human-Robot Interaction (HRI) for robot task achievement in presence of humans or in synergy with humans.

This has allowed to design a robot task refinement and supervision system.

In **WP6.4** (*Intentionality Attribution*) the work is under the responsibility of UH, and aims at investigating the design space of robots, as well as identifying parameters that are important in how people attribute intentionality to robots. UH has conducted some users studies regarding subjects' perceptions of robots and the relationships subject/robot personalities, to which LAAS contributed, since they did benefit to RA6 as a whole.

NB: A detailed description of the RA6 activities is also available within the 2005 Periodic Activity Report (pp.34-36). See also deliverable D6.2005.⁸

⁷ RA5 joint deliverable 2005 : <http://www.cogniron.org/review2/page5/page5.html>

⁸ RA6 joint deliverable 2005 : <http://www.cogniron.org/review2/page6/page6.html>

○ ***Involvement in RA7 - Systems level integration and Evaluation***

RA7 aims at producing both *scientific* system-level integration as well as providing *demonstrator platforms* with concrete implementations on real robots in realistic settings.

In RA7, LAAS was involved in both directions: setting up the tools and contributing to methods for project and software integration, as well as practical work integration through the implementation of Key Experiment 2 (The Curious Robot – see next paragraph).

LAAS contributed to the development of practical software exchange and integration since the end of the first 2005 semester, and the Amsterdam General Assembly meeting (6-7 June, 2005). This effort has picked up in the fall; following the arrival of Dr. Roland Philippsen as post-doc with LAAS (Roland was previously a PhD student at EPFL in Lausanne).

A list of ‘Cogniron functions’ (CFs) was defined during the first year of the project. The CF approach allows top-down specification of software components and is used to provide a vision for software implementation. In order to ease bottom-up integration of software, the complementary concept of atomic services (or supporting functions) has been introduced during the GA in Amsterdam. In a second phase, services have been grouped into modules and tools, which correspond to CFs in the majority of cases and constitute the granularity at which software is exchanged between partners. These technology transfers rely on a platform provided on the Cogniron Wiki. The Wiki is mainly structured and organized by LAAS, however it is an inherently collaborative tool with contributions from all partners.

The notion of services now provides a technical framework for enabling bottom-up software integration to meet the top-down process of conceptual integration and CF specification. Services are grouped by modules on the Wiki : see <http://www.cogniron.org/wiki/ModuleMarket>.

LAAS is working jointly with IPA, RA7 leader, to contribute to the organisation of the exchange and integration of software tools across the project partners.

Moreover, LAAS did carry out a first significant technology transfer in November, within the frame of a visit of Roland Philippsen to UniBi : the goal of that visit was to transfer the openrobots framework, path planning and obstacle avoidance from LAAS to UniBi. LAAS in exchange gained some knowledge about the XCF framework and its use for system integration at UniBi. This gave a concrete and motivating example which showed how software integration can be achieved in practice.

NB: More details about that technology transfer are available in deliverable D7.2005⁹ (pp. 38-42 - Account of Technology Transfer Between UniBi and LAAS).

○ ***Leadership of Key Experiment 2 – The Curious Robot***¹⁰

LAAS is also in charge of the implementation of Key Experiment 2, i.e. the ‘Curious Robot’. The work progress at LAAS has been internally fostered by the establishment of a weekly meeting of the KE2 team, and a local COGNIRON wiki has also been created to ease the exchange between the different persons involved within the lab. Such meetings were needed to promote an internal dynamic, since the number of persons involved in project within the lab has know a certain increase in 2005. The growth of the local Cogniron team was required by the variety of project areas in which LAAS is involved, and a great part of the effort of the team members was devoted to the implementation of the ‘Curious Robot’ Scenario.

In order to allow simultaneous work and proceed toward partial integration without waiting for the target mobile manipulator to be fully functional, it was chosen to build separate subexperiments on three different platforms:

- Experiment KE2-1: Object modeling and handling by a mobile manipulator
- Experiment KE2-2: Toward human-friendly navigation

⁹ RA7 joint deliverable 2005 : <http://www.cogniron.org/review2/page7/page7.html>

¹⁰ For a more detailed information see the RA7 joint deliverable for 2005, section 3 (p.17) and appendix B (p.43).

- Experiment KE2-3: Curiosity and learning

In 2005, efforts in Key Experiment 2 have been essentially devoted to the development and integration of the basic ingredients on which KE2 will be constructed. A methodology for integration has been defined and several tools have developed and/or deployed to allow the incremental development and integration of the different robot functions. Partial integration has also been performed.

The following CFs will be shown in this Key-Experiment:

- CF-MHP: Manipulation in Human Presence
- CF-OR: Object Recognition
- CF-NHP: Navigation in Human Presence
- CF-SOC: Socially Acceptable Interaction with regard to Space
- CF-TBP: Tracking of Human Body Parts for observation
- CF-GR: Gesture Recognition
- CF-RET: Reasoning about Tasks and its own abilities

The following services and supporting services have been defined and are now implemented on the three robots:

Services	Supporting services
Object modelling	Arm control
Grasp planning	Hand control
Arm control	Base Localization
Hand control	Motion and Navigation
Base Localization	Localization
Motion and Navigation	Obstacle Avoidance
Object Recognition	Human positioning

NB: A detailed description of the KE2 activities is also available within Section 3 of the 2005 Periodic Activity Report (pp.41-44). See also deliverable D7.2005.¹¹

LAAS is involved in all facets and parts of the COGNIRON project, which explains that a total of 125.10 man-months have been allocated for the second 18 months of the project. While 61 man-months had been spent during the first year of the project, LAAS' effort picked up during the 2nd year of the project: 103 man-months were spent between January and December 2005 out of the 125.20 man-months initially planned for the 2nd 18-month period. More details about the effort consumption are given in the next sections and pages.

- **EPFL**

The involvement of EPFL in the second year of COGNIRON was as follows:

ASL – RA4 & RA7 team (A. Billard, S. Calinon and F. Guenter)

Aude Billard supervised work conducted at EPFL as part of **WP4** and **WP7**, involving PhD students Sylvain Calinon and Florent Guenter. In WP4, EPFL developed algorithms for robot programming by demonstration, tackling the issues of “what to imitate” (WP4.1) and “how to imitate” (WP4.2). This work was implemented on EPFL humanoid robot platform as part of WP7, script1 of the KeyExperiment 3. Details on the results of EPFL work as part of each of these workpackages can be found in the related deliverables.

¹¹ RA7 joint deliverable 2005 : <http://www.cogniron.org/review2/page7/page7.html>

ASL - RA5 team (Roland Siegwart, Shrihari Vasudevan, Davide Scaramuzza, Viet Nguyen, Ahad Harati and Bjoern Jensen)

During the second year, work was carried out in the two sub packages of **RA5** namely (1) models of space (WP 5.1) and (2) models of objects (WP 5.2). All work was done with a view of future integration in the context of key experiment 1 (Home tour scenario). Specific details of the work are as follows -

- (WP 5.1) Models of Space

(1) Object based hierarchical probabilistic representation of Space-

A preliminary work was published. An improved formalism was developed subsequently. Some preliminary results were demonstrated in the meeting at Karlsruhe in November. A more concrete implementation of this concept is underway.

(2) Omnidirectional Camera Calibration

A full system was developed and multiple reports on the area were published. The package has already been provided as a service for COGNIRON. The work was done in the context of a larger goal of environment reconstruction using omnidirectional cameras.

(3) Relative mapping & SLAM

A very simple line-feature & Kalman filter based SLAM system was developed in view of practical service robot applications. Extensive work on comparing different line feature extraction methods was carried out. A lot of work was also performed in the context of handling the inconsistency of relative maps. Each of these works resulted in multiple publications (including submitted ones).

- (WP 5.2) Models of Objects

(1) SIFT based object recognition system

A full system based on David Lowe's IJCV 2004 paper was developed. The system is being tested and is likely to be provided as a service in the near future.

NB: For more details about EPFL's contribution to the project in 2005, see also the 2005 Periodic Activity Report as well as deliverables D4.2005¹², D5.2005-1 [models of spaces]¹³, D5.2005-2 [models of objects]¹⁴, and D7.2005¹⁵.

• **FhG-IPA**

At Fraunhofer IPA major work performed in the last period was related to **RA2**, **RA5** and **RA7**. Additionally a small amount of work was devoted to RA6. In the following paragraphs the work in these RAs will be described in more detail.

In **RA2** IPA continued the work that was started within RA2 in 2004. Also the work from RA3 (recognition of user intent) in the first year of Cogniron was continued here. This is due to the need of robust perception of the human in order to detect the intent. The goal of this work is to develop a fast human detection algorithm that can be used to initialise the human body part tracking developed at UKA. Major achievements have been built on the use of a range skeleton model that was considered worth being studied also in the next phases of Cogniron. Also other "auxiliary" functions for the human body part tracking were investigated and partially implemented at IPA: a plausibility checking function that checks a given human configuration for validity and a body part measurement algorithm that measures the lengths of important limbs and the size of the head. Expert interviews were carried to gather data for the plausibility checking function and a concept for the checking algorithm has been designed. First implementations of this algorithm were programmed. However, there is still work to carry out to implement the full algorithm on the robot. This part will be

¹² RA1 joint deliverable 2005 : <http://www.cogniron.org/review2/page4/page4.html>

¹³ RA5 joint deliverable 2005 : <http://www.cogniron.org/review2/page5/page5.html>

¹⁴ RA5 joint deliverable 2005 : <http://www.cogniron.org/review2/page5/page5.html>

¹⁵ RA5 joint deliverable 2005 : <http://www.cogniron.org/review2/page7/page7.html>

finished in the first half of 2006. The body part measurement algorithm also needs to be completed in the beginning of 2006. At IPA also a complete software interaction diagram for the functional parts of RA2 was developed to be used in further integration within the project. Other minor activities were related to literature research and testing of proposed methods related to fast human detection with a new range imaging sensor. A master thesis was carried out and finished successfully at IPA within the RA2 activities.

In **RA5** IPA concentrated on the development of a rotation and shift invariant object detection system. The goal is to find an object that is given through an object label. There are two sensors used, a range imaging sensor and a colour imaging sensor. The goal is to assign a complete frame (object translation and rotation) to an object of interest in the scene relative the sensor. Also the system has a strong focus on learning object appearances either through interaction with the human or by interaction with the object. SIFT key-feature points and SVM learning algorithms are used for key-point teaching. This concept of learning object appearances is realised by a method called *range segmentation* that uses a certain depth interval to segment the object's colour pixels from the background. In 2005 at IPA work in RA5 was centred the concepts just described. The range segmentation was developed and implemented; a remaining problem is the removal of the robot's finger or the human finger's from the segmented data. This will be tackled in the first phase of 2006. Also a sufficient pre-processing to use the SIFT key-points with colour information was developed and implemented. For the learning algorithm parameters were searched and a sufficient kernel function. The main part of the IPA effort in RA5 was related to this. Later the range segmentation was improved to segment directly in the feature representation of the scene rather than on pixel level.

A master thesis in RA5 has started in the second half of 2005 and will be finished in 2006. The thesis is related to 3D models that will support the feature/appearance-based approach. The whole RA5 work is part of a phd thesis that will be finished at the end of the Cogniron project.

In **RA7** work was related to two major parts WP7.1 and WP7.4. In WP7.1 IPA organized the refined specification of the key-experiments. Here, there were different workshops embedded within Cogniron general assembly meetings and questionnaires that were sent out to the partners. At IPA results were collected and structured. The functionalities of the key experiments were also analysed with respect the emerging Cogniron architecture. First test methods were established. The Cogniron functions that were identified in the first project phase were also further decomposed and the interfaces of the related *Cogniron services* were defined with strong support from the wiki initiative started by LAAS as input to RA7. In WP7.4 work was related to a set-up of a new robot platform that will be used in Cogniron to demonstrate the table setting scenario. Activities focused on the implementation of the related Cogniron functions of the key experiment three "Learning Skills and Tasks" and also to general design issues, the necessary sensory setting for the Cogniron functions, the processing requirements and other related issues to robot hardware. An intermediate update of the robot Care-O-bot II was built with the new sensors and control units that will be used in the next robot. The development of the robot itself is delayed with respect to first plans. This is due reconsiderations about the overall design. There was collaboration between IPA and UH about human-robot interaction and it's implications for the robot's design. These implications will be taken into account during the development of the new robot. There were also activities to adapt the software frame work 'GO' that IPA develops also as part of the project in RA6 to parts of the new platform. The latest version of the range imaging Sensor SwissRanger, the SR3000 was bought and interfaces were programmed.

In **RA6** IPA developed and extended the 'GO' frame work mentioned above with features needed to adapt it to the Cogniron architecture and to use it in the key experiment setting. A converter between the UKA scripting language and the IPA 'GO' framework was also developed as part of RA6 and RA7 as part of a master thesis that was successfully finished in 2005. Within this work also structures for handling data between Cogniron related functions "smart-pointers" were conceptualized and developed.

NB: For more details about IPA's contribution to the project in 2005, see also the 2005 Periodic Activity Report as well as deliverables D2.2005¹⁶, D5.2005¹⁷, D6.2005¹⁸, and D7.2005¹⁹.

¹⁶ RA1 joint deliverable 2005 : <http://www.cogniron.org/review2/page2/page2.html>

¹⁷ RA3 joint deliverable 2005 : <http://www.cogniron.org/review2/page5/page5.html>

¹⁸ RA3 joint deliverable 2005 : <http://www.cogniron.org/review2/page6/page6.html>

- **KTH**

The work at KTH has involved research on **RA1** (dialogue systems), **RA3** (social interaction patterns) and **RA5** (mapping). The research has involved further studies of the KTH WoZ data material to provide input on dialogue design, breakdown and recovery, and studies of social interaction patterns as part of the home tour scenario. Finally methods for environment acquisition with human augmented mapping has been developed. The work has involved 3 PhD students. As part of the work the available Pioneer system (Minnie) has been used which has included one new user study on mapping and annotation.

The involved researcher has attended the Cogniron meetings, 3 partner visits have also taken place, and the researcher have attended 4 conferences during 2005. In addition several Cogniron researchers attended the CoSy-lite summer school organised at KTH - July 2005.

NB: For more details about KTH's contribution to the project in 2005, see also the 2005 Periodic Activity Report as well as deliverables D1.2005²⁰, D3.2005²¹, and D5.2005-1 [models of spaces].²²

- **UVA**

For **WP 2.1** the University of Amsterdam (UvA) extended the robust methods for tracking humans from the first phase of the project. The histogram-based tracking framework is incorporated into a various approximate Bayesian tracking schemes. The schemes are compared and the results are presented in a paper that is submitted to an international journal. We also further improved our methods for detecting humans from segmented images. A report describing our further improvements is submitted to an international conference.

For **WP 3.4** the first steps are performed in preparing and designing the experiments to be performed at UH where the data is to be collected during the scenarios of person following the robot and other way around. The data should be analyzed in 2006 and the results will be relevant for the KE1. A meeting was held at UH where Zoran Zivkovic from UvA visited UH. The purpose of the meeting was to discuss the experiments that are planned for the beginning of 2006. UvA will help in setting up the cameras for video recording. The omni-directional video acquisition system developed at UvA will also be used during the experiments.

For **WP5.1**, further work has been carried out on hierarchical space representations, planning in the hierarchies and navigation using our appearance based space representation. Our work was presented in form of two reports at a conference (IROS2005). We further extended our framework for hierarchical space representations/planning and a report is submitted to a conference (ICRA2006).

An algorithm for efficient appearance based localization within our framework was developed and reported at a national conference (ASCI2005). Furthermore, a novel method for estimating relative position of the robot given two images was developed. A report on the work was submitted to a conference (ICRA06).

For **WP7**, UvA performed work in collaboration with UniBie on integration of the UvA localization (space representation) framework in KE 1. We realized a 'collision avoidance' (dynamic window approach) for our robot (currently to be used only at UvA). In January 2005 Martin Sauerbeck (Uni Bie) stayed four weeks at the UvA to replace the DML communication framework used in Amsterdam with the XCF used in Bielefeld. The Player software for robot independent control was installed and adapted for our Nomad Scout robot. Detailed plans for integration of UvA localization framework were made in collaboration with UniBie. Our localization framework is completely rewritten to use XCF-based communication and ready to be integrated into the XCF framework of UniBie. First experiments of using our localization framework on the Biron robot at UniBie are planned for January 2006. We replaced our old analog omnidirectional camera with a new easily portable digital camera. The new camera will be used during the experiments at UniBie. The new omnidirectional camera-mirror system is constructed, tested and calibrated. As part of the WP3.4 UvA

¹⁹ RA5 joint deliverable 2005 : <http://www.cogniron.org/review2/page7/page7.html>

²⁰ RA1 joint deliverable 2005 : <http://www.cogniron.org/review2/page1/page1.html>

²¹ RA3 joint deliverable 2005 : <http://www.cogniron.org/review2/page3/page3.html>

²² RA5 joint deliverable 2005 : <http://www.cogniron.org/review2/page5/page5.html>

collaborated with UH for preparing an experiment to be run in January 2006 at UH on a robot following a human, using the new omnicaam system developed at UvA.

For the management of knowledge in the consortium (**WP8.1**) a database containing sensory data from a moving robot is set up and further developed at UvA. Dissemination of knowledge to academia was carried out by publishing in major robotics conferences and by presenting the results at symposia. At the UvA results were also disseminated by giving lectures to the students and organizing a course at the ASCI school (**WP8.3**). The students also participated in the project. Industrial dissemination (**WP8.4**) was carried out by frequent contacts with TNO (Dutch applied research institute) and two divisions of Philips: Philips Research and Philips CFT.

In the mobility program of the project (**WP9.2**) we have mainly an exchange with UniBie. In January 2005 a student from UniBie visited UvA for one month.

Ben Kröse from UvA is a member of the Cogniron board. He was involved in planning the General Assembly - Plenary Meeting held in Amsterdam - 6-7 June 2005. He is also the leader of **WP5**, and coordinated and reported on the work done in that research area. Finally he locally managed the project at the UvA (**WP10.2**).

NB: For more details about UvA's contribution to the project in 2005, see also the 2005 Periodic Activity Report as well as deliverables D2.2005²³, D3.2005²⁴, and D5.2005-1 [models of spaces]²⁵, D7.2005²⁶, and D8.2005²⁷.

• UniBi

Within the second phase of the project the following research activities were performed at Bielefeld University:

In **WP1.1** the state-based dialogue module was replaced by a more powerful grounding-based dialogue manager which allows the integration of a measure for communicative success that can be used for adaptation strategies. In **WP1.2** we integrated the interface with the object attention system (**WP2.3**) which enables to communicate about objects referred to by gesture and speech. First system tests were performed in **WP1.3**.

In **WP2.3** the object attention system for resolving multimodal object references was developed. This was done in close cooperation with the work on the dialog system carried out in RA1 to enable a natural interaction with the robot. The resulting partial system is able to learn objects and stores the learned information in a scene model. In cooperation with **WP5.1** and **WP5.2** the design of a generic memory for objects and locations will be realized, but this activity has just been started.

The ongoing development of functionalities in the individual research activities was complemented by the design of an appropriate architectural support in **WP 6.1** and **WP6.2**, respectively. This included not only the design of an exemplary architecture but also feedback to the module developers to enable the integration of their modules in a robot companion.

The overall integration task was carried out with relation to software infrastructure in **WP7.1** and through the actual implementation of the Key Experiment 1 "Robot Home Tour" in **WP7.2**. The KE1 setup has become robust enough to do experiments with real users which has already provided valuable feedback for improving the individual modules provided by the different RAs.

The research results achieved within the second project phase were presented with research papers and invited Talks at major European and international conferences and workshops:

- AISB 2005 (April 12-15 2005, Hatfield, UK) - Gerhard Sagerer
- ICRA 2005 (April 18-22, 2005, Barcelona, Spain) - Jannik Fritsch

²³ RA2 joint deliverable 2005 : <http://www.cogniron.org/review2/page2/page2.html>

²⁴ RA3 joint deliverable 2005 : <http://www.cogniron.org/review2/page3/page3.html>

²⁵ RA5 joint deliverable 2005 : <http://www.cogniron.org/review2/page5/page5.html>

²⁶ RA7 joint deliverable 2005 : <http://www.cogniron.org/review2/page7/page7.html>

²⁷ WP8 joint deliverable 2005 : <http://www.cogniron.org/review2/page8/page8.html>

- IROS 2005 (August 2-6, 2005, Edmonton, Canada) - Jannik Fritsch
- ICMI 2005 October 04-06, 2005; Trento, Italy) Britta Wrede
- ICSLP 2005 (September 4-8, 2005; Lisbon, Portugal) - Gernot Fink

NB: For more details about UniBi's contribution to the project in 2005, see also the 2005 Periodic Activity Report as well as deliverables D1.2005²⁸, D2.2005²⁹, D5.2005³⁰, D6.2005³¹, D7.2005³², and D8.2005³³.

• UH

In 2005 the COGNIRON research activities at University of Hertfordshire focussed on **RA3**, **RA4** and **RA6**, with smaller contributions to **RA1** and **RA2** (as part of collaborations jointly with RA3), as well as **RA7**. The research focussed on scenarios and research questions specifically relevant to the KE's, with an emphasis on providing input to and jointly working with other COGNIRON partners: LAAS (within RA3 and RA6), EPFL (within RA4), UniKarl/UvA/IPA (within RA2-RA3) and UniBi (within RA1-RA3).

In line with the implementation plan for 2005, the UH team invested great effort during the first half of 2005 in the in-depth analysis of the 2004 user trials, as well as the publication and dissemination of the results within the project and the wider scientific community. Results are summarised in D3.6.1. In addition, several new user studies were conducted:

In April 2005 two studies were conducted investigating subject's responses to a robot approaching a seated subject using three different approach directions (frontal, left and right approach), relevant to WP3.1 and WP3.3. A demonstration HRI trial involved 39 subjects; subjects' preferences were assessed using questionnaires. This study informed a laboratory study with 15 subjects later in April where trials results from the demonstration were confirmed. The laboratory study also piloted a new experimental methodology involving video studies complementing live interactions. Questionnaires and interviews were used in these HRI studies. The data was analysed and published in several conference proceedings, including two joint publications (Humanoids 2005 and HRI 2006) with LAAS. Results of the user studies provided input for the work in WP3.3 on robot motion planning.

Over summer 2005 a new HRI study within **RA3** was prepared and carried out in November/December in the "Robot House", a flat rented by the School of Computer Science at University of Hertfordshire for Cogniron trials in a domestic living room scenario. This more naturalistic and ecologically valid environment was necessary based on the experiences during the 2004 HRI studies where subjects commented on the 'artificial' nature of having a living room in a building otherwise dedicated to laboratory spaces and offices. The Robot House was available from August 2005 when new HRI studies could begin. The scenarios of the approach direction trials done in April were extended and investigated in more depth, including the following 4 scenarios: subject seating at a table, subject standing against a wall, subject seated without a table, and subject standing in the middle of the room. Up to five different approach directions were investigated for each scenario (front left, front right, frontal, rear left and rear right, where appropriate). The study with 42 subjects in October/November 2005 also included a comparison of live versus video trials, in order to validate results from the April 2005 study. Subjects' preferences were assessed via questionnaires, the comfort level device developed at UH was used to identify uncomfortable robot behaviours (data yet to be analysed). Results confirmed the suitability of video HRI in this particular experimental context (no claims are being made for universal applicability, cf. deliverable D3.6.1).

New research was initiated within **WP3.4** which started in June 2005. Work on requirements for understanding human activity and intentions in the context of robot programming by demonstration, led to the development of a general classification of gesture for purposes of Human-Robot Interaction (HRI)

²⁸ RA1 joint deliverable 2005 : <http://www.cogniron.org/review2/page1/page1.html>

²⁹ RA2 joint deliverable 2005 : <http://www.cogniron.org/review2/page2/page2.html>

³⁰ RA5 joint deliverable 2005 : <http://www.cogniron.org/review2/page5/page5.html>

³¹ RA6 joint deliverable 2005 : <http://www.cogniron.org/review2/page6/page6.html>

³² RA7 joint deliverable 2005 : <http://www.cogniron.org/review2/page7/page7.html>

³³ WP8 joint deliverable 2005 : <http://www.cogniron.org/review2/page8/page8.html>

developed together with IPA and LAAS. A two-day workshop in October 2005 with representatives from Karlsruhe focused on reconciling requirements for detecting human activity with technical and algorithmic issues. Initial experiments on encoding human gesture in HRI human-demonstrated task interactions were carried out, leading to a revised gesture coding scheme towards a corpus annotated to inform the design on-board algorithms for detecting human activity in collaboration with Karlsruhe, and applicable across KEs. Joint work with UvA within WP3.4 led to the design of a user study to be carried out early in 2006 towards developing a video corpus annotated with comfort level data in a robot-human guidance scenario relevant for UvA's work within RA2 and KE1.

Based on the results regarding the video-based methodology, in December 2005, a user study was carried out with 77 subjects specifically investigating which robot cues and appearances are most suitable in a scenario where a robot needs to attract a subject's attention (as part of our contribution to WP6.4 and relevant for KE2). A 3x3 experimental design was used. Three different robot appearances were studied: Basic/Mechanistic/Humanoid appearance, as well as three different gestures/cues (light, sound) that the robot used to attract a person's attention. Preliminary results are presented in the deliverables for RA3 and RA6.

In **RA4**, "Task and Skill Learning", UH investigated autonomous social learning, behaviour matching and imitation of humans by robot. Building upon the results of the previous project phase, we carried out further experiments on robotic imitation with more sophisticated target imitator platforms. Deeper understanding of the space of action, state and effect metrics was achieved to guide imitative behaviour in solving the *correspondence problem* of mapping demonstrated behaviour to the robot's own body and capabilities ("Social Context of the Correspondence Problem" WP4.2, contributing mainly to KE 3). These metrics are also useful in specifying the search space for "what to imitate" problem (pursued in collaboration with EPFL in WP4.1). Multi-platform targetable methods and software for solving this problem, and the closely related body-mapping problem, were further developed during this phase with special attention to generalization of learning over different initial configurations. Furthermore, we addressed the role of social context of imitation in robotic experiments systematically characterizing the spectrum from *static to dynamic observational learning*. Initial studies into social *scaffolding* and *moulding* of robot learning by a teacher were also carried out, demonstrating proof-of-concept for a novel hierarchical extensible architecture useful in the teaching of robots by human demonstration. Moving towards more complex cultural transmission in populations, proof-of-concept studies have demonstrated the capacity of social learning to serve as a primary mechanism for the beginnings of culture in interactive robots with dissimilar embodiments. A series of experimental runs and a small pilot user study were conducted in order to evaluate the performance of the Jabberwocky system designed for solving the correspondence problem in robot imitation, with results suggesting that there is good alignment between a quantitative *system-centered* evaluation and a more qualitative *human-centered* evaluation of imitative performance.

University of Hertfordshire had several exchanges of staff members and students with other Cogniron organisations: UvA, LAAS and UniKarl. Training (**WP9**) was provided for new research staff hired in 2005 and existing staff attending workshops and tutorials at Humanoids 2005 and CIRA 2005.

University of Hertfordshire organised 2 special sessions at international conferences relevant to COGNIRON: a Robot Companion session at IEEE RO-MAN 2005 and a Human-Robot Interaction session at IEEE CIRA 2005. We also organised the AISB'05 convention hosted at University of Hertfordshire in April 2005 with the theme "Social Intelligence and Interaction in Animals, Robots and Agents" which attracted 300 participants, including an international symposium on "Robot Companions" organised by the UH team. As part of a demonstration event at AISB'05 live COGNIRON user studies were carried out, see above.

The University of Hertfordshire team published within COGNIRON:

- 3 papers at Humanoids 2005 (including a joint paper with LAAS),
- 4 papers at IEEE RO-MAN 2005 (including a joint paper with IPA and LAAS),
- 3 papers at IEEE CIRA 2005,
- 1 paper at IEEE IROS 2005,

- 4 papers at AISB'05,
Also, 4 papers are in press for HRI 2006 (including a joint paper with LAAS).

NB: For more details about UH's contribution to the project in 2005, see also the 2005 Periodic Activity Report as well as deliverables D1.2005³⁴, D2.2005³⁵, D3.2005³⁶, D4.2005³⁷, D6.2005³⁸, D7.2005³⁹, and D8.2005⁴⁰.

- **UniKarl**

The UniKarl team has been working during phase 2 especially on:

- Tracking of humans (human motion capture) for interpretation and activity/gesture recognition
- Fusion of tracking methods
- Classification and recognition of human activities from human motion data
- Definition of task metrics to explicitly measure the similarity of tasks
- Task metrics based on information-theoretic relevance measures
- Inclusion of vocal comments in PbD user demonstrations for first experiments
- Object shape estimation from 3d point clouds using superquadrics
- Sensor evaluation for object modeling
- Mechanisms for selection and prioritization of robot tasks
- First results for automatic robot program compilation from PbD learned Macro Operators

NB: For more details about UniKarl's contribution to the project in 2005, see also the 2005 Periodic Activity Report as well as deliverables D2.2005⁴¹, D3.2005⁴², D4.2005⁴³, D5.2005⁴⁴, D6.2005⁴⁵, D7.2005⁴⁶, and D8.2005⁴⁷.

- **VUB**

VUB stepped out of the Cogniron project on 30 April 2005. The reason for this was the departure of Tony Belpaeme, who left for the University of Plymouth in early 2005. Dr. Belpaeme was heavily involved with Cogniron, and the management and research at the VUB relied too much upon him to continue VUB's participation in Cogniron. The period up until April 2005 was used to consolidate and publish results obtained during 2004. This resulted in 3 conference publications, 1 book chapter in a Cambridge University Press volume and one article in Robotics and Autonomous Systems.

- **GPS**

The major contributions of GPS Gesellschaft für Produktionssysteme to workpackages **WP8** and **WP10** in the first half year of 2005 can be roughly divided in three areas:

- participation to the organization and realization of the EU project reporting process (in strong cooperation with LAAS)

³⁴ RA1 joint deliverable 2005 : <http://www.cogniron.org/review2/page1/page1.html>

³⁵ RA2 joint deliverable 2005 : <http://www.cogniron.org/review2/page2/page2.html>

³⁶ RA3 joint deliverable 2005 : <http://www.cogniron.org/review2/page3/page3.html>

³⁷ RA4 joint deliverable 2005 : <http://www.cogniron.org/review2/page4/page4.html>

³⁸ RA6 joint deliverable 2005 : <http://www.cogniron.org/review2/page6/page6.html>

³⁹ RA7 joint deliverable 2005 : <http://www.cogniron.org/review2/page7/page7.html>

⁴⁰ WP8 joint deliverable 2005 : <http://www.cogniron.org/review2/page8/page8.html>

⁴¹ RA2 joint deliverable 2005 : <http://www.cogniron.org/review2/page2/page2.html>

⁴² RA3 joint deliverable 2005 : <http://www.cogniron.org/review2/page3/page3.html>

⁴³ RA4 joint deliverable 2005 : <http://www.cogniron.org/review2/page4/page4.html>

⁴⁴ RA7 joint deliverable 2005 : <http://www.cogniron.org/review2/page7/page7.html>

⁴⁵ WP8 joint deliverable 2005 : <http://www.cogniron.org/review2/page8/page8.html>

⁴⁶ RA7 joint deliverable 2005 : <http://www.cogniron.org/review2/page7/page7.html>

⁴⁷ WP8 joint deliverable 2005 : <http://www.cogniron.org/review2/page8/page8.html>

- the maintenance of a communication infrastructure
- And the coordination of the transfer of the GPS activities in COGNIRON to LAAS.

As far as the reporting process is concerned, GPS contributed to the collection of reporting material and organised a review rehearsal meeting in Munich, on Feb. 8, 2005.

The GPS continued to maintain and update the project web and e- mail and FTP server structures to ensure the internal and external project communication until August 12, 2005.

GPS has initiated and terminated the transfer of all server and communication processes from the GPS to LAAS and organized the owner changes with the provider and the local server administration. The changes of domain and name server entries have been prepared to prevent any downtimes at the moment the new server at LAAS started to work. GPS prepared a documentation file regarding the web update procedure and send it to LAAS. All related web and archive data have been send to LAAS to assure a smoothly transfer of all GPS activities to LAAS.

GPS also transferred successfully all original data, files and materials of the COGNIRON handout, leaflet, drafts of the press kit and the project logo via FTP and mail to LAAS.

For further dissemination activities in COGNIRON GPS provided a work and budget plan for potential participation of COGNIRON in the international robotic fairs Automatica 2006 in Munich or Cebit 2006 in Hannover.

A final coordination meeting of the initially established Project Management Team – GPS + LAAS - took place in Amsterdam on June 6, 2005.

NB: For more details about GPS's contribution to the project in 2005, see also the 2005 Periodic Activity Report as well as deliverable D8.2005⁴⁸.

⁴⁸ WP8 joint deliverable 2005 : <http://www.cogniron.org/review2/page8/page8.html>

1.2. Tabular overview of budgeted costs and actual costs

FP6 COST BUDGET FOLLOW-UP TABLE

Contract N°	FP6-IST-002020	Acronym :	COGNIRON	Date :	11/04/2006
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NB: indirect costs are included for each type of expenses for each contractor in this table

Participants	TYPE OF EXPENDITURE (as defined by participants)	BUDGET (data for whole project duration) *	ACTUAL COSTS (EUR)					%spent Total a1+b1+c1+d1/e	Remaining Budget (EUR) e-e1
			Period 1	Period 2	Period 3	Period 4	Total		
			e	a1	b1	c1	d1		
Participant 1 : LAAS-CNRS	Total Person-months	200.00	61.04	103.00			164.04	82.02	35.96
	Personnel Costs (a)		294,876.31	562,572.01			857,448.32		
	Traveling Costs (b)		47,774.02	35,967.30			83,741.32		
	Consummables Costs (c)		0.00	0.00			0.00		
	Equipment Costs (d)		36,995.72	48,016.62			85,012.34		
	b+c+d=(e)		84,769.74	83,983.92			168,753.66		
	Personnel + e = (f)		379,646.05	646,555.93			1,026,201.98		
	Other Costs = (g)		15,075.92	1,995.97			17,071.89		
	TOTAL COSTS (= f + g)	1,395,047.40	394,721.97	648,551.90			1,043,273.87	74.78	351,773.53
Participant 2 : EPFL	Total Person-months **	103.00	17.25	30.00			47.25	45.87	55.75
	Personnel Costs (a)		66,367.00	119,834.00			186,201.00		
	Traveling Costs (b)		4,639.00	2,679.00			7,318.00		
	Consummables Costs (c)		0.00	4,033.00			4,033.00		
	Equipment Costs (d)		14,063.00	14,063.00			28,126.00		
	b+c+d=(e)		18,702.00	20,775.00			39,477.00		
	Personnel + e = (f)		85,069.00	140,609.00			225,678.00		
	Other Costs = (g)		8,507.00	14,061.00			22,568.00		
	TOTAL COSTS (= f + g)	556,972.00	93,576.00	154,671.00			248,247.00	44.57	308,725.00
Participant 3 : FhG IPA	Total Person-months	73.90	20.30	23.10			43.40	58.73	30.50
	Personnel Costs (a)		123,167.99	154,678.82			277,846.81		
	Traveling Costs (b)		8,417.38	6,405.50			14,822.88		
	Consummables Costs (c)		4,412.84	79.22			4,492.06		
	Equipment Costs (d)		0.00	0.00			0.00		
	b+c+d=(e)		12,830.22	6,484.72			19,314.94		
	Personnel + e = (f)		135,998.21	161,163.54			297,161.75		
	Other Costs = (g)		0.00	154,282.59			154,282.59		
	TOTAL COSTS (= f + g)	1,174,024.00	300,865.42	315,446.13			616,311.55	52.50	557,712.45

Participant 4 : KTH	Total Person-months	112.00	23.10	28.80		51.90	46.34	60.10
	Personnel Costs (a)		105,193.20	134,382.95		239,576.15		
	Traveling Costs (b)		31,634.40	16,819.94		48,454.34		
	Consummables Costs (c)		0.00	0.00		0.00		
	Equipment Costs (d)		6,756.00	10,311.05		17,067.05		
	b+c+d=(e)		38,390.40	27,130.99		65,521.39		
	Personnel + e = (f)		143,583.60	161,513.94		305,097.54		
	Other Costs = (g)		7,003.20	2,408.94		9,412.14		
	TOTAL COSTS (= f + g)		598,000.00	150,586.80	163,922.88		314,509.68	52.59
Participant 5 : UvA	Total Person-months	121.00	19.00	25.00		44.00	36.36	77.00
	Personnel Costs (a)		78,003.03	94,730.01		172,733.04		
	Traveling Costs (b)		19,819.42	10,365.14		30,184.56		
	Consummables Costs (c)		0.00	0.00		0.00		
	Equipment Costs (d)		7,099.25	2,887.94		9,987.19		
	b+c+d=(e)		26,918.66	13,253.09		40,171.75		
	Personnel + e = (f)		104,921.69	107,983.10		212,904.79		
	Other Costs = (g)		0.00	5,334.08		5,334.08		
	TOTAL COSTS (= f + g)		602,115.00	104,921.69	113,317.18		218,238.87	36.25
Participant 6 : UniBi	Total Person-months	94.00	24.00	43.00		67.00	71.28	27.00
	Personnel Costs (a)		125,567.38	224,467.75		350,035.13		
	Traveling Costs (b)		37,142.66	24,232.54		61,375.20		
	Consummables Costs (c)		0.00	0.00		0.00		
	Equipment Costs (d)		0.00	74.00		74.00		
	b+c+d=(e)		37,142.66	24,306.54		61,449.20		
	Personnel + e = (f)		162,710.04	248,774.29		411,484.33		
	Other Costs = (g)		485.95	2,636.39		3,122.34		
	TOTAL COSTS (= f + g)		601,075.00	163,195.99	251,410.68		414,606.67	68.98
Participant 7 : UH	Total Person-months	130.00	30.00	41.75		71.75	55.19	58.25
	Personnel Costs (a)		85,998.00	146,388.00		232,386.00		
	Traveling Costs (b)		6,628.87	25,941.08		32,569.95		
	Consummables Costs (c)		1,077.12	8,011.86		9,088.98		
	Equipment Costs (d)		8,895.81	22,669.31		31,565.12		
	b+c+d=(e)		16,601.80	56,622.25		73,224.05		
	Personnel + e = (f)		102,599.80	203,010.25		305,610.05		
	Other Costs = (g)		1,697.20	4,452.95		6,150.15		
	TOTAL COSTS (= f + g)		572,324.00	104,297.00	207,463.20		311,760.20	54.47
Participant 8 : UniKarl	Total Person-months	109.00	24.00	36.00		60.00	55.05	49.00
	Personnel Costs (a)		128,324.74	184,995.20		313,319.94		
	Traveling Costs (b)		10,422.24	9,461.22		19,883.46		
	Consummables Costs (c)		0.00	0.00		0.00		
	Equipment Costs (d)		0.00	0.00		0.00		
	b+c+d=(e)		10,422.24	9,461.22		19,883.46		
	Personnel + e = (f)		138,746.98	194,456.42		333,203.40		
	Other Costs = (g)		330.04	0.00		330.04		
	TOTAL COSTS (= f + g)		601,835.00	139,077.02	194,456.42		333,533.44	55.42

Participant 9 : VUB	Total Person-months	76.75	12.00	0.30			12.30	16.03	64.45
	Personnel Costs (a)		29,542.14	2,221.25			31,763.39		
	Traveling Costs (b)		0.00	0.00			0.00		
	Consummables Costs (c)		0.00	0.00			0.00		
	Equipment Costs (d)		0.00	0.00			0.00		
	b+c+d=(e)		0.00	0.00			0.00		
	Personnel + e = (f)		29,542.14	2,221.25			31,763.39		
	Other Costs = (g)		12,224.16	4,942.26			17,166.42		
	TOTAL COSTS (= f + g)	423,614.00	41,766.30	7,163.51			48,929.81	11.55	374,684.19
Participant 10 : GPS	Total Person-months	39.00	12.00	2.00			14.00	35.90	25.00
	Personnel Costs (a)		94,982.46	18,494.49			113,476.95		
	Traveling Costs (b)		0.00	0.00			0.00		
	Consummables Costs (c)		0.00	0.00			0.00		
	Equipment Costs (d)		0.00	0.00			0.00		
	b+c+d=(e)		0.00	0.00			0.00		
	Personnel + e = (f)		94,982.46	18,494.49			113,476.95		
	Other Costs = (g)		35,523.00	8,892.97			44,415.97		
	TOTAL COSTS (= f + g)	419,124.00	130,505.46	27,387.46	0.00	0.00	157,892.92	37.67	261,231.08
TOTAL	Total Person-months	1,058.65	242.69	332.95			575.64	54.37	483.01
	Personnel Costs (a)		1,132,022.25	1,642,764.48			2,774,786.73		
	Traveling Costs (b)		166,477.99	131,871.73			298,349.71		
	Consummables Costs (c)		5,489.96	12,124.08			17,614.04		
	Equipment Costs (d)		73,809.78	98,021.92			171,831.70		
	b+c+d=(e)		245,777.72	242,017.73			487,795.45		
	Personnel + e = (f)		1,377,799.97	1,884,782.21			3,262,582.18		
	Other Costs = (g)		80,846.47	199,007.15			279,853.62		
	TOTAL COSTS (= f + g)	6,944,130.40	1,623,513.65	2,083,790.36	0.00	0.00	3,707,304.01	53.39	3,236,826.39

* Data based on the initial Annex I dated October 2003

** EPFL reference figures based not on the initial Annex I but on the effort actually funded by the Swiss government

As shown by the tables on the previous pages, the COGNIRON consortium has used a total of 575.14 man-months over the first two years of the project. This represents 54.37% of the effort initially allocated for the whole project duration⁴⁹, which means that the project, having reached its mid-term period, has roughly used more effort than initially expected at this stage.

Without taking into account the effort consumption of the two partners who left the project, the project has consumed around 56.35% of the initial effort. This effort consumption rate slightly varies between the partners: some have used already a great part of the initially planned effort (e.g. LAAS, UniBi), some are around 50% (e.g. IPA, UH, UniKarl), and some a little below that threshold (e.g. KTH, EPFL, UvA – and the two withdrawing partners).

During the preparation of the implementation plan for Phase 2 of the project (i.e. T0+24->T0+42), the consortium decided to increase the current partners' effort, instead of adding new partners. The initial total effort for the whole project duration was then revised, to reach a new total of 1330.76 man-months. With reference to that updated basis, the project has now spent 43.2% of the (new) planned effort for the whole project duration. This new figure was taking into account the partners' willingness to increase their effort in Phase 2, 3 and 4 of the project. This has been reflected in Phase 2, and the effort increase will go on in Phase 3 (576.10 man-months planned for the next 18 months, vs 499.40 man-months for Phase 2).

⁴⁹ The reference figures given in the 'BUDGET' column of the table on the previous page relate to the initial Annex I (Description of Work) as approved by the EC on 20/10/2003: the initial total effort for the whole project duration was then 1085.15 man-months. Since the Swiss government is in fact funding a total of 103 man-months for EPFL (instead of the initial 129.5 man-months) the overall effort for the whole duration – as of 2003 – is reduced to a new figure of 1 058.65 man-months.

1.3. Explanations on any major cost items incurred

• LAAS-CNRS

- Brief explanation on costs incurred during the 2nd year of the project

Personnel (direct costs plus 20% overhead)

As shown later in Section 1.5, LAAS used a total of 103 person-months during the 2nd year of the project. Our COGNIRON project team has grown this year with 16 persons now involved. The related personnel costs (indirect costs included) amounted 562 572.01 euros.

Travel (direct costs plus 20% overhead)

A total of 44 trips were charged to the project this year reaching an amount of 35 967.30 euros. Most trips were related to project meetings (project review, plenary meetings), training (attendance to training courses and summer schools – e.g. Cosy Summer School) and conferences in Europe (e.g. ICRA2005) and the USA (e.g. RO-MAN 2005 in Nashville and ICAR 2005 in Seattle). More details about the trips outside Europe are given below under ‘major costs’.

Equipment (direct costs plus 20% overhead)

Our equipment-related costs (depreciation only) are related to the use of the following materials and machines:

- one Neobotix platform (Jido’s base)
- a Robosoft platform (Rackham)
- a Mitsubishi arm (use on Jido)

as well as 2 PCs, 2 Macintosh laptops, and a working station (a additional part of the equipement used in Cogniron is not charged to the project)

Other costs (direct costs plus 20% overhead)

The costs listed under ‘other costs’ are related to the organization of the review meeting. Are also included there some minor expenses related to the hosting of smaller working meetings at LAAS as well as the 2004 audit certificate.

- Brief explanation on major costs incurred during the 2nd year of the project

As far as LAAS is concerned, major costs items are related to two types of costs:

- organisation of the 1st review meeting (Warsaw, 17-18 Feb. 05) [*listed under ‘other costs’*]
- Travelling costs to conferences which took place in the USA (ICAR05 and RO-MAN05). [*listed under ‘travelling costs’*]

The organisation of the review meeting represented for LAAS a total of 2784.79€(1000.05€were paid to the WUT, host of the meeting, and we took in charge the travelling costs of the three invited speakers – Aaron Sloman, Gert-Jan Kruijff, and David Hogg- : 1784.74€).

Moreover, LAAS sent some students to two international conferences, which took place in the USA:

- Aurélie Clodic presented a paper at ICAR05 in Seattle (July 18 - 20, 2005) : 1099.93€
- Vincent Montreuil presented a paper at RO-MAN 2005, in Nashville (August 13 - 15, 2005) : 1057.50€

- **EPFL**

- **Brief explanation on costs incurred during the 2nd year of the project**

Personnel

We spent 30 pm in 2005, with 6 persons working part time (one full time for 6 months)

Equipement

We used 1 light weight robot arm.

Travels

We traveled essentially for project meeting in Paris, Warsaw, Munich, London, Amsterdam, Karlsruhe, Stuttgart, Bruxelles and Toulouse.

Sylvain Calinon participated to ICRA'05 in Barcelona, Davide Scaramuzza participated to a Summer School in Cognitive Vision in Bonn, Davide Scaramuzza participated at a Summer School ECMR'05 in Ancona, Davide Scaramuzza participated to ICV'06 in NewYork in January 2006. The plane ticket has been bought in 2005, and this is the only travel outside Europe.

Other costs

The 'other costs' encompasses the following expenses:

Loyer et bourses pour stagiaires et étudiants d'échanges	14000 CHF = ~ 8900 euros
Déplacements avec voitures privées et parking à l'aéroport	1500 CHF = ~ 900 euros
Frais d'administration	3000 CHF = ~ 1900 euros
Petit équipement	3500 CHF = ~ 2300 euros

- **Brief explanation on major costs incurred during the 2nd year of the project**

No major cost items were incurred by EPFL over the second year of the project.

- **FhG-IPA**

- **Brief explanation on costs incurred during the 2nd year of the project**

Personnel

We spend 23.1 person months in the year 2005. Six researches were involved and three student employees. We spent 299,821.86 €total personnel cost.

Travel

We had 23 travels related to Cogniron. Travels included Cogniron project meetings, a presentation of Jens Kubacki on the Conference AMS 2005 in Stuttgart and expert interviews for our RA2 work. The cost was 6495.50 €

Equipment

We spend 79.22 €on hardware parts.

Other costs

none

- Brief explanation on major costs incurred during the 2nd year of the project

No major cost items were incurred by FhG-IPA over the second year of the project.

• **KTH**

- Brief explanation on costs incurred during the 2nd year of the project

Personnel (direct costs plus 20% overhead)

KTH spent 28,80 man months during the second year of the project. Persons paid by the project were: 2 PhD students working full time, one PhD student working part time and an administrative assistant working part time.

Travel (direct costs plus 20% overhead)

This category covers travel costs for the three PhD students plus two senior researchers:

- COGNIRON review meeting in Warsaw (1 PhD student)
- 4 project meetings – GA meetings or research visits as part of cooperation work with other partners
- 1 PhD student participated in the International Robotic WS organized in Gothenburg, SE

One trip was made outside Europe by a PhD student going to Canada for participation in IROS'05 conference.

This cost item also includes hotel costs for:

- two research visitors from another partners
- four students from LAAS participating in COSY Lite Summer School organized in Stockholm during July 2005.

Equipment (direct costs plus 20% overhead)

This cost item includes depreciation costs for the equipment bought Y1 (ActiveRobot Pioneer and one Lap Top) plus one new Lap Top bought in Y2.

Other costs

This item consists of minor costs for consumables such as books; research experiment costs including indirect costs plus the cost of the Audit certificate for Y1.

- Brief explanation on major costs incurred during the 2nd year of the project

No major cost items were incurred by KTH over the second year of the project.

• **UvA**

- Brief explanation on costs incurred during the 2nd year of the project

Personnel

Personnel costs amounted 94730.01EUR.

We spent 33 MMs, from which 8MMs of our permanent staff and 25MM of 3 persons (Zoran Zivkovic, Olaf Booij and Franciska Hegethorn) working full time on Cogniron.

Travel

Travel costs amounted 10365.14EUR

We traveled for the project to Munich, Warsaw, Edmonton, Oxford, Karlsruhe, Barcelona, Bonn and Helsinki. Two trips were outside Europe, amounting 3219.36 EUR related to:

- presentation of our work from WP5.1 on hierarchical space representations and hierarchical planning at IEEE/RSJ International Conference on Intelligent Robots and Systems, Edmonton, Canada, in August 2005.
- presentation of our work from WP5.1 on landmark matching by at British Machine Vision Conference, September 2005, Oxford, United Kingdom.

Equipment

Equipement costs amounted 2887.94EUR. We acquired 1 desktop computer and a new digital camera with lens and adaptor.

Other costs

The amount listed under 'other costs' are the costs of the audit certificate for the year 2004 and the costs of organizing the COGNIRON General assembly meeting in Amsterdam in June 2005.

- Brief explanation on major costs incurred during the 2nd year of the project

The major cost items incurred by UvA are:

The major traveling costs, amounting 3219.36 EUR related to:

- presentation of our work from WP5.1 on hierarchical space representations and hierarchical planning at IEEE/RSJ International Conference on Intelligent Robots and Systems, Edmonton, Canada, in August 2005.
- presentation of our work from WP5.1 on landmark matching by at British Machine Vision Conference, September 2005, Oxford, United Kingdom.

• UniBi

- Brief explanation on costs incurred during the 2nd year of the project

Personnel

In 2005 UNIBI used 43 pm, with 3 persons working full time and 1 person working full time for 7 months

Travel

In total 40 travels were charged to the project for the project meetings, bilateral meetings with partners and workshops/conferences where Cogniron project has been presented). 2 of 40 were outside Europe.

Equipment

In 2005 we bought 2 Laptops for BIRON in December (only one month rate has been considered for year 2).

Other costs

The 'other costs' for the University of Bielefeld are essentially consisting of the cost of the 2004 audit certificate.

- Brief explanation on major costs incurred during the 2nd year of the project

No major cost items were incurred by UniBi over the second year of the project.

- **UH**

- Brief explanation on costs incurred during the 2nd year of the project

Personnel

40.25 PMs were used by University of Hertfordshire for work in RA1-RA7. Additional 1.5 PMs covered WP8, WP9, WP10. In total 41.75 PMs were charged to Cogniron. This included the following staff members: Aris Alissandrakis and Mick Walters working full-time on Cogniron for 12 months in 2005, Sarah Woods working full-time for 11 months, Nuno Ortero working full-time for 4 months, and Khenglee Koay working full-time for 2 months.

Equipment

The user studies were carried out with 2 Peoplebots, additional equipment used were video recording, analysis and general computer equipment. While the two peoplebots and basic laboratory equipment was brought into the project, specific updates/upgrades of the existing equipment for carrying out the user studies were required.

Travel

The Cogniron results of University of Hertfordshire were disseminated at several international conferences: AISB'05 (UK), IROS (Canada), Humanoids (Japan), RO-MAN (USA), ICRA (Spain), CIRA (Finland).

Other travel expenses were incurred for project meetings and internal workshops within the consortium.

- Brief explanation on major costs incurred during the 2nd year of the project

No major cost items were incurred by UH over the second year of the project.

- **UniKarl**

- Brief explanation on costs incurred during the 2nd year of the project

Personnel

The personnel costs of UniKarl contain 36PM for staff, and additionally 500 hours work of undergraduate students working for the project.

Travel

The results of the work carried out in COGNIRON were presented at several international conferences. The travel costs comprise costs for the conferences IJCAI (Edinburgh), Humanoids (Tsukuba, Japan), BMVC (Oxford). Other travel expenses were incurred for project meetings and internal workshops within the consortium.

- Brief explanation on major costs incurred during the 2nd year of the project

The major cost items for UniKarl in the second phase comprise only travelling costs. It consists of the costs for one conference attendance in Edinburgh, Scotland at the IJCAI05 (International Joint Conference on Artificial Intelligence), including the demonstration of Cogniron-funded work, and the costs for attending the Humanoids 05 conference in Tsukuba, Japan. Here, Cogniron-funded work has also been presented. Additionally, the workshop on Cognitive Architectures has been attended, which is a key issue also in Cogniron. (NB: UniKarl reported to the project on the outcome of this workshop in January 2006.)

• **VUB**

- Brief explanation on costs incurred during the 2nd year of the project

These costs have already been approved by the Commission in December 2005.

- Brief explanation on major costs incurred during the 2nd year of the project

No major cost items were incurred by the VUB over the second year of the project.

• **GPS**

- Brief explanation on costs incurred during the 2nd year of the project

These costs have already been approved by the Commission in December 2005.

- Brief explanation on major costs incurred during the 2nd year of the project

No major cost items were incurred by GPS over the first year of the project.

1.4. Global estimate of all costs for AC Contractors

• EPFL

The two professors at EPFL (Aude Billard and Roland Siegwart) contributed directly with 3 person-months of their working time to the project. The technical support and administration, which sums up to 1 person-month in 2005 was also funded directly by EPFL. Moreover, apart of the support in person-month by EPFL (Aude Billard, Roland Siegwart, Technician, Secretary) EPFL acquired a small Humanoid robot for €80'000 that is used at around 50% for the project. Furthermore, EPFL also contributes a mobile robot platform of a value of around €60'000 to the project. This robot is used around 30% for the project.

EPFL	Brief Description of own resources	Estimated 'own contribution' brought to the project (in EUR)
Permanent Staff	<ul style="list-style-type: none"> - Prof. Roland Siegwart - Prof. Aude Billard - Technicians - Secretary 	~70 000 EUR
Equipment and other costs	<ul style="list-style-type: none"> - Small humanoid robot (value of around 80'000 EUR, 50% of use on the project) - Mobile robot platform (value of 60'000 EUR, 30% use on the project) 	~50 000 EUR
TOTAL		~120 000 EUR

• KTH

Prof. Kerstin Severinson-Eklundh and Prof. Henrik I Christensen have each devoted 1 month of their time to the project as part of student supervision and project management.

In addition the research within the project has involved use of the KTH - Ikea living room with integrated video facilities for monitoring and recording of user behaviour. Some of the work on augmented mapping has also involved the ActivMedia PowerBot systems, which is paid for by national funds. The estimated cost of ACs own equipment is 8000 EUR.

KTH	Brief Description of own resources	Estimated 'own contribution' brought to the project (in EUR)
Permanent Staff	<ul style="list-style-type: none"> - Prof. Kerstin Severinson-Eklundh (1 PM) - Prof. Henrik I Christensen (1 PM) - Administrative staff 	~20 000 EUR
Equipment and other costs	<ul style="list-style-type: none"> - KTH-IKEA living room with integrated video facilities for monitoring and recording user behaviour - ActivMedia PowerBot systems 	~ 8 000 EUR
TOTAL		~28 000 EUR

• UvA

Permanent staff involvement:

- Ben Krose was involved in RA5.
- Both Ben Krose and Prof. Frans Groen were involved in RA8 and RA9. For the management of knowledge in the consortium (WP8.1) a database containing sensory data from a moving robot is set up and further developed at UvA. Dissemination of knowledge to academia was carried out by publishing in major robotics conferences and by presenting the results at symposia. At the UvA results were also disseminated by giving lectures to the students and organizing a course at the ASCI school

(WP8.3). The students also participated in the project. Industrial dissemination (WP8.4) was carried out by frequent contacts with TNO (Dutch applied research institute) and two divisions of Philips: Philips Research and Philips CFT. In the mobility program of the project (WP9.2) we have mainly an exchange with UniBie. In January 2005 a student from UniBie visited UvA for one month.

- Our technician Bas Terewijn was working in RA7. We realized a 'collision avoidance' (dynamic window approach) for our robot (currently to be used only at UvA). The Player software for robot independent control was installed and adapted for our Nomad Scout robot. Detailed plans for integration of UvA localization framework were made in collaboration with UniBie. Our localization framework is completely rewritten to use XCF-based communication and ready to be integrated into the XCF framework of UniBi.

UvA	Brief Description of own resources	Estimated 'own contribution' brought to the project (in EUR)
Permanent Staff	<ul style="list-style-type: none"> - Prof Ben Krose - Prof. Frans Groen - Bas Terewijn 	~ 30 000 EUR
Equipment and other costs	<ul style="list-style-type: none"> - Standard equipment and infrastructure (financial and other administration, desktop computers, office space...) 5000EUR - Our Nomadu robot (10000EUR) was used for some experiments (50%) 	~ 10 000 EUR
TOTAL		~ 40 000 EUR

- **UniBi**

For the second year of the project the University of Bielefeld declared to have used the following own resources within the project (see table below) :

UniBi	Brief Description of own resources	Estimated 'own contribution' brought to the project (in EUR)
Permanent Staff	<ul style="list-style-type: none"> - Prof. Dr. Gerhard Sagerer - Prof. Dr. Franz Kummert - PD Dr. Gernot Fink - Dr. Britta Wrede - Secretary - Technician 	~ 64 300 EUR
Equipment and other costs	<ul style="list-style-type: none"> - 2 mobile platforms (each around 40000, Euro, used 90% on the project) - technical infrastructure for the mobile platforms (value of around 3200,- Euro, used 90% on the project) - 2 platforms for studying social factors in HRI (each around 2000,- Euro, used 30% on the project) - platform for studying communication via facial expression (around 8000,- Euro, used 75% on the project) 	~ 20 350 EUR
TOTAL		~ 84 650 EUR

• UH

The University of Hertfordshire contributed 13.75 PMs during 2005 including several permanent staff members. In addition, the resources of the Robotics and Interactive Systems Laboratory were used (including facilities in the "Robot House"), comprising robotics and other hardware necessary for carrying out the research, maintenance of infrastructure and administrative support. As shown in the table below, the staff related costs can be estimated at 65,000 Euros, the non-staff related costs total about 58,500 Euros.

UH	Brief Description of own resources	Estimated 'own contribution' brought to the project (in EUR)
Permanent Staff	Permanent Staff members : <ul style="list-style-type: none"> - Prof. Kerstin Dautenhahn - Prof. Chrystopher L. Nehaniv - Dr. Rene te Boekhorst - Dr. David Lee - Administrative staff + Other research staff members primarily funded by University of Hertfordshire: <ul style="list-style-type: none"> - Joe Saunders - Dr. Khenglee Koay 	~ 65 000 EUR
Equipment	<ul style="list-style-type: none"> - 2 mobile robotics platforms (each around 40,000 Euros, used 90% for Cogniron), - technical infrastructure (computing and robotics equipment, including monitoring and analysis equipment for user studies, value about 45,000 Euros, used 50 % for Cogniron). 	~ 58 500 EUR
TOTAL		~ 123 500 EUR

• UniKarl

Below can be found an estimation of the own costs borne by the University of Karlsruhe during the second year of the COGNIRON project.

UniKarl	Brief Description of own resources	Estimated 'own contribution' brought to the project (in EUR)
Permanent Staff	<ul style="list-style-type: none"> - PhD student (4 PM) - PhD student (6 PM) - Student - Prof. 	~ 47 162 EUR
Equipment & Consumables	<ul style="list-style-type: none"> - Infrastructure (network, phone costs etc.) - Consumables 	~ 2 800 EUR
TOTAL		~49 962 EUR

- **VUB**

The VUB estimates its own contribution to COGNIRON in 2005 to roughly 4200€ as detailed below.

VUB	Brief Description of own resources	Estimated 'own contribution' brought to the project (in EUR)
Permanent Staff	Involvement of permanent research and administrative staff in project management	~ 4 000 EUR
Equipment and other costs	Office equipment	~ 200 EUR
TOTAL		~ 4200 EUR

- **Summary of AC Contractors own effort and costs added to the project**

The table below summarizes the global own effort of the AC contractors, i.e. the effort (both in terms of human and non-human resources) which is devoted to the project, but not paid by COGNIRON.

	Personnel Costs	Equipment & Other costs	TOTAL
EPFL	~ 70 000 EUR	~ 50 000 EUR	~ 120 000 EUR
KTH	~ 20 000 EUR	~ 8 000 EUR	~ 28 000 EUR
UvA	~ 30 000 EUR	~ 10 000 EUR	~ 40 000 EUR
UniBi	~ 64 300 EUR	~ 20 350 EUR	~ 84 650 EUR
UH	~ 65 000 EUR	~ 58 500 EUR	~ 123 500 EUR
UniKarl	~ 47 162 EUR	~ 2 800 EUR	~ 49 962 EUR
VUB	~4 000 EUR	~ 200 EUR	~4 200 EUR
TOTAL	~300 426 EUR	~149 850 EUR	~ 450 312.00 EUR

On the whole, the total of these own costs borne by the AC contractors is below the figure reached in 2004 (total was 475 893 €), but this is due to a lesser share of the 'equipment and other costs categories' (was previously 182 875€). On the contrary, the personnel costs have increased by 3% in 2005 (from 293 018€to 300 426€).

1.5. Overview of budgeted person-months and actual person-months (by contractor and by work package)

The table in the next page gives an overview of both the budgeted person-months ('planned' figures correspond to the effort planned for the first 18-month phase of the project and the 'actual' figures are referring to the effort actually used over the first 12 months.

The numbers for EPFL reflects the actual effort funded by the Swiss government which is inferior to the initial effort planned in the first Description of Work (Annex I) : with a total of 103 man-months versus the initial 129.5. In parallel, as communicated by EPFL, the Swiss funding (for the whole duration) has been reduced from the initial 705,566 EUR to 556,972.34 EUR.

PERSON-MONTHS FOLLOW-UP TABLE

Contract N°	FP6-IST-002020	Acronym :		Period :	January-> December 05
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Workpackages	Titles	Effort	Partners - Person-month per Workpackage											AC contractors own staff							
			TOTALS	Coord. LAAS-CNRS	Particip. 1 : EPFL	Particip. 2 : FHG-IPA	Particip. 3 : KTH	Particip. 4 : Uva	Particip. 5 : UniBi	Particip. 6 : UH	Particip. 7 : Unikari	Particip. 8 : VUB	Particip. 9 : GPS	AC TOTALS	Particip. 1 : EPFL	Particip. 3 : KTH	Particip. 4 : UVA	Particip. 5 : UniBi	Particip. 6 : UH	Particip. 7 : Unikari	Particip. 8 : VUB
WP1	Multimodal dialogues	Actual WP Total	22.65	1.40	0.00	0.00	4.00	0.00	16.00	1.25	0.00	0.00	0.00	4.25	0.00	1.00	0.00	3.00	0.25	0.00	0.00
		Planned WP Total	37.00	2.00	0.00	0.00	9.00	0.00	24.00	2.00	0.00	0.00	0.00	4.25	0.00	1.00	0.00	3.00	0.25	0.00	0.00
WP2	Dection and understanding of Human Activity	Actual WP Total	34.60	8.10	0.00	5.00	0.00	5.00	5.25	1.25	10.00	0.00	0.00	4.50	0.00	0.00	0.00	0.00	1.00	3.50	0.00
		Planned WP Total	49.00	11.00	0.00	9.00	0.00	6.00	8.00	2.00	11.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	1.00	2.00	0.00
WP3	Social Behaviour and Embodied Interaction	Actual WP Total	41.40	9.40	0.00	0.00	12.00	1.00	0.00	18.00	1.00	0.00	0.00	6.00	0.00	1.00	0.00	0.00	4.00	1.00	0.00
		Planned WP Total	66.00	14.00	0.00	0.00	20.00	2.00	0.00	29.00	1.00	0.00	0.00	5.00	0.00	1.00	0.00	0.00	4.00	0.00	0.00
WP4	Skill and Task Learning	Actual WP Total	27.15	1.40	9.00	0.00	0.00	0.00	0.00	9.75	7.00	0.00	0.00	6.00	0.50	0.00	0.00	0.00	4.00	1.50	0.00
		Planned WP Total	43.00	2.00	18.00	0.00	0.00	0.00	0.00	15.00	8.00	0.00	0.00	5.50	0.50	0.00	0.00	0.00	4.00	1.00	0.00
WP5	Spatial cognition and multimodal situation awareness	Actual WP Total	75.50	18.00	17.50	6.00	12.00	15.00	2.00	0.00	5.00	0.00	0.00	6.50	0.50	1.00	1.00	3.00	0.00	1.00	0.00
		Planned WP Total	103.00	18.00	18.00	10.00	18.00	26.00	5.00	0.00	8.00	0.00	0.00	6.50	0.50	1.00	1.00	3.00	0.00	1.00	0.00
WP6	Intentionality and Initiative	Actual WP Total	49.50	27.00	0.00	2.00	0.00	0.00	5.00	8.50	7.00	0.00	0.00	5.50	0.00	0.00	0.00	1.00	3.50	1.00	0.00
		Planned WP Total	77.00	34.00	0.00	5.00	0.00	0.00	9.00	14.00	15.00	0.00	0.00	5.50	0.00	0.00	0.00	1.00	3.50	1.00	0.00
WP7	Systems level integration and Evaluation	Actual WP Total	61.40	27.60	2.00	9.00	0.00	4.00	13.00	1.50	4.00	0.30	0.00	10.50	0.50	0.00	5.00	2.00	0.00	2.00	1.00
		Planned WP Total	90.30	29.00	5.00	16.00	0.00	5.00	20.00	2.00	13.00	0.30	0.00	9.50	0.50	0.00	5.00	2.00	0.00	1.00	1.00
WP8	Innovation	Actual WP Total	5.35	1.60	0.50	0.50	0.00	0.00	1.00	0.75	1.00	0.00	0.00	3.50	0.00	0.00	1.00	0.50	1.00	1.00	0.00
		Planned WP Total	11.65	1.90	1.00	0.75	2.00	2.00	1.50	1.00	1.50	0.00	0.00	3.50	0.00	0.00	1.00	0.50	1.00	1.00	0.00
WP9	Training and Education	Actual WP Total	5.30	1.90	1.00	0.40	0.50	0.00	0.50	0.50	0.50	0.00	0.00	3.00	0.00	1.00	0.50	1.00	0.00	0.50	0.00
		Planned WP Total	10.20	4.60	1.00	0.60	2.00	0.50	0.50	0.50	0.50	0.00	0.00	3.00	0.00	1.00	0.50	1.00	0.00	0.50	0.00
WP10	Management	Actual WP Total	10.10	6.60	0.00	0.20	0.30	0.00	0.25	0.25	0.50	0.00	2.00	6.00	1.50	1.00	0.50	2.50	0.00	0.50	0.00
		Planned WP Total	12.35	8.70	0.00	0.25	0.25	0.40	0.25	0.25	0.25	0.00	2.00	6.00	1.50	1.00	0.50	2.50	0.00	0.50	0.00
TOTAL PERSON-MONTHS		Actual Total	332.95	103.00	30.00	23.10	28.80	25.00	43.00	41.75	36.00	0.30	2.00	55.75	3.00	5.00	8.00	13.00	13.75	12.00	1.00
		Planned Total	499.50	125.20	43.00	41.60	51.25	43.90	68.25	65.75	58.25	0.30	2.00	51.75	3.00	5.00	8.00	13.00	13.75	8.00	1.00

1.6 Summary Explanation of the impact of major deviations from cost budget and from person-month budget

On the whole, there were **no major deviations** either in terms of costs and/or efforts, during the 2nd year of the implementation of COGNIRON. As previously mentioned in section 1.2 the effort consumption of the partners at the mid-term stage of the project is slightly over the initial global plans.

More specifically, and as can be seen from the table on the previous page, the **global effort consumption during T0+12-> T0+24**⁵⁰ shows an actual average consumption rate of 66.65% at the level of the different Research Activities and Workpackages, wrt the effort scheduled for 18 months. These individual consumption rates are ranging from 81.78% in WP10 to 45.92% in WP8.

As far as the sole **research activities** are concerned, the effort invested this year by the partners is roughly around two-thirds of the planned effort: **RA1** with 61.22 %, **RA2** with 70.61%, **RA3** with 62.73%, **RA4** with 63.13%, **RA5** with 73.30%, **RA6** with 64.29%, and **RA7** with 68%.

The lesser effort consumption rates are within WP8, WP9 and WP10: 45.92 % for **WP8**, 51.96% for **WP9**, while **WP10** is above all others with 81.78%.

At the level of the **individual partners**, again considering the effort spent in the last twelve months, in comparison to plans covering the second 18-month period of the project, the average consumption rate is of around 70%. All partners are over 50% of used effort in comparison to plan: **LAAS** with 82%, **EPFL** with 69%, **UH** with 63.5%, **UniBi** with 63%, **Unikarl** with 61.80%, **UvA** with 56.95%, **KTH** with 56.2% and **IPA** with 55.5%.

Below are some more detailed remarks, regarding some partners and some parts of the project.

Changes wrt to the initially planned effort: project partners

- **LAAS**

LAAS' effort consumption is over two thirds of the initially planned effort for phase 2. Indeed, as previously mentioned, due to our involvement in many of the project facets, the number of persons locally involved within the lab has increased this year. The required progress for the implementation of Key Experiment 2 has also necessitated the involvement of more engineers than last year, to support the further development of our platforms. Moreover, in addition to the project funded effort, LAAS' contribution to COGNIRON also benefited from related work, carried out by other members of the robotics group.

- **IPA**

We removed some effort from RA3 "recognition of user intent" which was added instead to RA2 to first solve the perception functions that are necessary to detect the users's intent. The work will be continued as part of RA2 and integrated into the RA2 plans. Some efforts from RA3 were also shifted to RA6 to support the development of a Cogniron architecture.

- **KTH**

The administrative costs have exceeded the initial estimate as there are two senior researchers involved which alternatively attended the project meetings. Moreover, an additional administrative support has been required for the organisation of the summer school that took place July 2005.

⁵⁰ i.e. the first twelve months of the 18-month period of Phase 2.

• UvA

Within RA7 we have spent more man-months than planned. We have put a lot of effort in integrating our localization into the UniBi framework. In total we have spent 9 man-months on integration which is more than actually planned 5 man-months (planned for 18 months period). The last review comments indicated that the integration is an important issue and more effort should be spent on it. Therefore we plan to continue putting more effort in integration the coming years. Mainly our work will concern the collaboration with UniBi and further integration and extensions of our localization framework on the BIRON robot. Furthermore we have planned various collaboration activities with KTH and UH on localization and also people tracking. This work will also partially involve integration of various components.

About the AC partners own effort

In addition to the data providing in section 1.2, the table below details the share of the AC partners own effort invested in COGNIRON during the year 2005.

Workpackages	Titles	Effort	TOTAL ACTUAL EFFORT	TOTAL funded (mm)	AC TOTALS (mm)	TOTAL funded (%)	AC TOTALS (%)
Workpackages	Titles	Effort	Effort	Effort	Effort	Effort	Effort
WP1	Multimodal dialogues	Actual WP Total	26.90	22.65	4.25	84.20	15.80
		Planned WP Total	41.25	37.00	4.25	89.70	10.30
WP2	Dection and understanding of Human	Actual WP Total	39.10	34.60	4.50	88.49	11.51
		Planned WP Total	52.00	49.00	3.00	94.23	5.77
WP3	Social Behaviour and Embodied Interaction	Actual WP Total	47.40	41.40	6.00	87.34	12.66
		Planned WP Total	71.00	66.00	5.00	92.96	7.04
WP4	Skill and Task Learning	Actual WP Total	33.15	27.15	6.00	81.90	18.10
		Planned WP Total	48.50	43.00	5.50	88.66	11.34
WP5	Spatial cognition and multimodal situation	Actual WP Total	82.00	75.50	6.50	92.07	7.93
		Planned WP Total	109.50	103.00	6.50	94.06	5.94
WP6	Intentionality and Initiative	Actual WP Total	55.00	49.50	5.50	90.00	10.00
		Planned WP Total	82.50	77.00	5.50	93.33	6.67
WP7	Systems level integration and Evaluation	Actual WP Total	71.90	61.40	10.50	85.40	14.60
		Planned WP Total	99.80	90.30	9.50	90.46	9.52
WP8	Innovation	Actual WP Total	8.85	5.35	3.50	60.45	39.55
		Planned WP Total	15.15	11.65	3.50	76.90	23.10
WP9	Training and Education	Actual WP Total	8.30	5.30	3.00	63.86	36.14
		Planned WP Total	13.20	10.20	3.00	77.27	22.73
WP10	Management	Actual WP Total	16.10	10.10	6.00	62.73	37.27
		Planned WP Total	18.35	12.35	6.00	67.30	32.70
TOTAL PERSON-MONTHS		Actual Total	388.70	332.95	55.75	85.66	14.34
		Planned Total	551.25	499.50	51.75	-	-

On the whole, if one considers the effort of the permanent staff of the AC contractors, around 388 man-months have been spent by the consortium during the 2nd year of the project. The ‘own effort’ devoted to the project by the AC partners (i.e. EPFL, KTH, UvA, UniBi, UH and UniKarl) reaches almost 15% of the overall effort.

Changes wrt to the initially planned effort: research activities

Below are some remarks from the workpackage leaders, related to some difficulties experienced within some research activities.

- **RA2**

For high processing load temporal problems showed up during the user studies. These are caused by software design weaknesses that have to be fixed in order to enable a faster response behaviour of the object attention system (ROR) module. Difficulties are still the time requirements for the sensor information. Here IPA works on fast storage and caching methods to handle the huge amount of data stemming from both: color imaging sensor and range imaging sensor. The caching is also part of IPAs RA6 activities in architecture since they can be extended to general data formats needed in a robot companion. The fine evaluation of all the tracking modalities took more time than initially expected. It was indeed necessary to carefully define the criteria underlying the evaluation, to assess the pertinence of the test data, and to perform the analysis.

- **RA3**

Overall research within RA3 was performed well in line with the second implementation plan without any major deviations. Several user studies were delayed until autumn 2005 since the in-depth revision of the work plan for phase II of the project took much longer than originally anticipated.

Section 2 – Summary financial report

The following table is a summary report of all total (direct + indirect) costs in euros as claimed by each contractor and activity type for the 2nd reporting period of the COGNIRON project, covering the full calendar year 2005.

The figures in that table are reflected the final data communicated by **all partners** within their Year 2 Financial Statement⁵¹. The electronic templates supplied by the European Commission⁵² have been used to draw the content of that Summary Financial Report.

NB: the table on the next page also includes the already accepted costs for the two partners whose termination has been validated by the European Commission, namely VUB and GPS.

⁵¹ The information given regarding VUB and GPS is related to the costs claimed in 2005 and not to the actual costs which have been accepted by the European Commission (difference of – 216.00€ for GPS).

⁵² Which are available online here : <http://www.cordis.lu/fp6/find-doc-management.htm#reporting>

Summary Financial Report																					
Type of Instrument	IP	Project Title (or Acronym)										Contract N°		FP6-IST-002020							
Reporting period number	2	From (dd/mm/yyyy)				To (dd/mm/yyyy)				31/12/2005		Page	1/1								
Contractor n°	Organisation Short Name	Cost model used	Eligible costs (in €)	Type of activities								Total eligible costs (F)=(A)+(B)+(C)+(D)+(E)		Receipts		EC contribution					
				Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the consortium (D)		Other Specific Activities (E)		Contractor	Third party(ies)	Contractor	Third party(ies)	Maximum	Requested		
				Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)								
1	CNRS (Centre National de la Recherche Scientifique)	FCF	Direct eligible costs	494,659.14	0.00	0.00	0.00	15,697.80	0.00	30,102.98	0.00	0.00	0.00	540,459.92	0.00	0.00	0.00	351,756.42	351,756.42		
			<i>of which direct eligible costs of subcontracting</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
			Indirect eligible costs	98,931.83	0.00	0.00	0.00	3,139.56	0.00	6,020.60	0.00	0.00	0.00	0.00	0.00					108,091.99	0.00
			Adjustment on previous period(s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00	0.00
			Total eligible costs	593,590.97	0.00	0.00	0.00	18,837.36	0.00	36,123.58	0.00	0.00	0.00	0.00	648,551.91					0.00	
2	EPFL (Ecole Polytechnique Fédérale de Lausanne)	AC	Direct eligible costs	140,610.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	140,610.00	0.00	0.00	0.00	154,671.00	0.00		
			<i>of which direct eligible costs of subcontracting</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
			Indirect eligible costs	14,061.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					14,061.00	0.00
			Adjustment on previous period(s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00	
			Total eligible costs	154,671.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					154,671.00	0.00
3	Fraunhofer Gesellschaft e.V (Institut für Produktion und Automatisierung - IPA)	FC	Direct eligible costs	157,991.03	0.00	0.00	0.00	3,172.51	0.00	0.00	0.00	0.00	0.00	161,163.54	0.00	0.00	0.00	159,613.76	159,613.76		
			<i>of which direct eligible costs of subcontracting</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
			Indirect eligible costs	148,832.77	0.00	0.00	0.00	736.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00					149,569.73	0.00
			Adjustment on previous period(s)	4,840.94	0.00	0.00	0.00	-128.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00					4,712.86	0.00
			Total eligible costs	311,664.74	0.00	0.00	0.00	3,781.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00					315,446.13	0.00
4	KTH (Kungliga Tekniska Högskolan)	AC	Direct eligible costs	125,222.24	0.00	0.00	0.00	4,414.24	0.00	7,194.39	0.00	0.00	0.00	136,830.87	0.00	0.00	0.00	163,922.88	163,922.88		
			<i>of which direct eligible costs of subcontracting</i>	0.00	0.00	0.00	0.00	0.00	0.00	1,370.82	0.00	0.00	0.00	0.00	0.00					1,370.82	0.00
			Indirect eligible costs	25,044.45	0.00	0.00	0.00	882.85	0.00	1,164.71	0.00	0.00	0.00	0.00	0.00					27,092.01	0.00
			Adjustment on previous period(s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00	0.00
			Total eligible costs	150,266.69	0.00	0.00	0.00	5,297.09	0.00	8,359.10	0.00	0.00	0.00	0.00	0.00					163,922.88	0.00
5	UvA (Universiteit van Amsterdam)	AC	Direct eligible costs	89,343.65	0.00	0.00	0.00	0.00	0.00	6,104.80	0.00	0.00	0.00	95,448.45	0.00	0.00	0.00	113,317.18	113,317.18		
			<i>of which direct eligible costs of subcontracting</i>	0.00	0.00	0.00	0.00	0.00	0.00	2,420.60	0.00	0.00	0.00	0.00	0.00					2,420.60	0.00
			Indirect eligible costs	17,868.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					17,868.73	0.00
			Adjustment on previous period(s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00	0.00
			Total eligible costs	107,212.38	0.00	0.00	0.00	0.00	0.00	6,104.80	0.00	0.00	0.00	0.00	0.00					113,317.18	0.00

6	UniBi (Universität Bielefeld)	AC	Direct eligible costs	203.455,88	0,00	0,00	0,00	2.694,00	0,00	3.792,36	0,00	0,00	0,00	209.942,24	0,00	0,00	0,00	251.410,68	251.410,68	
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	2.600,00	0,00	0,00	0,00	0,00	2.600,00					0,00
			Indirect eligible costs	40.691,17	0,00	0,00	0,00	538,80	0,00	238,47	0,00	0,00	0,00	0,00	41.468,44					0,00
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Total eligible costs	244.147,05	0,00	0,00	0,00	3.232,80	0,00	4.030,83	0,00	0,00	0,00	0,00	251.410,68					0,00
7	UH (The University of Hertfordshire)	AC	Direct eligible costs	169.175,00	0,00	0,00	0,00	1.845,00	0,00	1.671,00	0,00	0,00	0,00	172.691,00	0,00	0,00	0,00	207.463,20	207.463,20	
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Indirect eligible costs	33.835,00	0,00	0,00	0,00	369,00	0,00	334,20	0,00	0,00	0,00	0,00	34.638,20					0,00
			Adjustment on previous period(s)	234,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	234,00					0,00
			Total eligible costs	203.244,00	0,00	0,00	0,00	2.214,00	0,00	2.005,20	0,00	0,00	0,00	0,00	207.463,20					0,00
8	UniKarl (Universität Karlsruhe TH)	AC	Direct eligible costs	158.828,33	0,00	0,00	0,00	3.319,09	0,00	2.099,50	0,00	0,00	0,00	162.046,92	0,00	0,00	0,00	194.456,30	194.456,30	
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Indirect eligible costs	31.325,06	0,00	0,00	0,00	603,82	0,00	419,92	0,00	0,00	0,00	0,00	32.409,40					0,00
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Total eligible costs	187.953,99	0,00	0,00	0,00	3.982,91	0,00	2.519,42	0,00	0,00	0,00	0,00	194.456,32					0,00
9	VUB (Vrije Universiteit Brussel)	AC	Direct eligible costs	5.021,88	0,00	0,00	0,00	0,00	0,00	390,00	0,00	0,00	0,00	5.391,68	0,00	0,00	0,00	7.163,50	7.163,50	
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	390,00	0,00	0,00	0,00	0,00	390,00					0,00
			Indirect eligible costs	921,41	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	921,41					0,00
			Adjustment on previous period(s)	-394,59	0,00	0,00	0,00	0,00	0,00	1.245,00	0,00	0,00	0,00	0,00	850,41					0,00
			Total eligible costs	5.528,50	0,00	0,00	0,00	0,00	0,00	1.635,00	0,00	0,00	0,00	0,00	7.163,50					0,00
10	GPS (Gesellschaft für Produktionssysteme GmbH)	FCF	Direct eligible costs	0,00	0,00	0,00	0,00	0,00	0,00	20.847,22	0,00	0,00	0,00	20.847,22	0,00	0,00	0,00	27.603,46	27.603,46	
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	1.666,00	0,00	0,00	0,00	0,00	1.666,00					0,00
			Indirect eligible costs	0,00	0,00	0,00	0,00	0,00	0,00	3.856,24	0,00	0,00	0,00	0,00	3.856,24					0,00
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	2.900,00	0,00	0,00	0,00	0,00	2.900,00					0,00
			Total eligible costs	0,00	0,00	0,00	0,00	0,00	0,00	27.603,46	0,00	0,00	0,00	0,00	27.603,46					0,00
Total eligible costs				1.958.279,32	0,00	0,00	0,00	37.345,55	0,00	88.381,39	0,00	0,00	2.084.096,26	0,00	0,00	0,00	1.631.378,37	1.476.707,37		
Maximum calculated EC contribution for the reporting period (in €) without taking into account receipts				1.505.651,46	0,00	0,00	0,00	37.345,55	0,00	88.381,37	0,00	0,00	1.631.378,37	0,00						
Amount of the financial interests generated by the prefinancing																0,00				
Requested EC contribution for the reporting period (in €)																1.476.707,37				

Section 3 – Form Cs (Financial statement per activity) and audit certificates

FormCs and audit certificates, for each COGNIRON partner, related to the 2nd year of the project, can be found in the next pages.

Links

- COGNIRON website : www.cogniron.org
- COGNIRON Wiki : www.cogniron.org/wiki
(access to some pages restricted to project members only)
- COGNIRON review 2 pages (project deliverables and Periodic Activity Report) :
www.cogniron.org/review2/index.html (access restricted to the project reviewers, the European Commission and the project members)

Form C - Model of Financial Statement per Activity for an Integrated Project

(to be completed by each contractor)

Type of Instrument	Integrated Project	Type of Action (if necessary)	N.A
Project Title (or Acronym)	Cogniron	Contract n°	IST-002020
Contractors's legal name	CNRS		
Legal Type	EPST		
Contact Person	Raja Chatila	Telephone	+33.5.61.33.63.44
Telecopy	+33.5.61.33.65.44	E-mail	raja.chatila@laas.fr
Cost model used (AC/FC or FCF)	FCF	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	20%
Period from	01/01/2005 TO		31/12/2005

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No)	No
If Yes, please provide the following information	
Third Party 1 (Y1) Legal name	Cost model used
Third Party 2 (Y2) Legal name	Cost model used
Third Party 3 (Y3) Legal name	Cost model used
Third Party 4 (Y4) Legal name	Cost model used
If necessary add another Form C	

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;

do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs

The costs declared should distinguish between direct and indirect costs

If necessary, adjustments to previous period(s) may be included where appropriate

	Type of Activity											
	Research and Technological Development / Innovation		Demonstration		Training		Management of the Consortium		Other Specific Activities		Total	
	(A)		(B)		(C)		(D)		(E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	494,659.14				15,697.80		30,102.98				540,459.92	
<i>Of which subcontracting</i>												
Indirect costs	98,931.83	0.00	0.00		3,139.56		6,020.60				108,091.98	
Adjustments to previous period(s)												
Total costs	593,590.97	0.00	0.00		18,837.36		36,123.58				648,551.90	

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

	Type of Activity											
	Research and Technological Development / Innovation		Demonstration		Training		Management of the Consortium		Other Specific Activities		Total	
	(A')		(B')		(C')		(D')		(E')		(F') = (A')+(B')+(C')+(D')+(E')	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts												0

4- Declaration of interest generated by the pre-financing (in €)

To be completed only by the coordinator.

Did the pre-financing (advance) you received by the Commission for this period earn interest? (Yes / No)

No

If yes, please indicate the amount (in €)

5- Request of FP6 Financial Contribution (in €)	
For this period, the FP6 Community financial contribution resuested is equal to (amount in €)	351,756.42
6- Audit certificates	
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)	Yes
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)	Yes
If No, what are the periods covered by this(those) audit certificate(s) ?	From -to
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?	

Audit certificate of the contractor (X)			
Legal name of the audit firm	Internal	Cost of the certificate	
			172.89
Audit certificate(s) of the third party(ies) (Ys) (if necessary)			
Y1 : Legal name of the audit firm		Cost of the certificate	
Y2 : Legal name of the audit firm		Cost of the certificate	
Y3 : Legal name of the audit firm		Cost of the certificate	
Y4 : Legal name of the audit firm		Cost of the certificate	
If necessary add another Form C.		Total (Z) = (X) + (Ys)	
Reminders:			
The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium". The required audit certificate (s) is (are) attached to this Financial Statement			

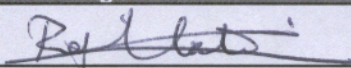
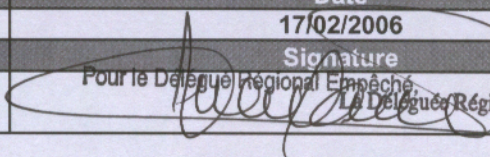
7- Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	
Third Party 2 (Y2)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	
Third Party 3 (Y3)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	
Third Party 4 (Y4)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	

If necessary add another Form C.

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible for the work	Name of the duly authorised Financial Officer
	Raja Chatila	Armelle BARELLI
	Date	Date
	17/02/2006	17/02/2006
	Signature	Signature
		

Pour le Délégué Régional Espéché
Le Délégué Régionale Midi-Pyrénées

M. ARMENGAUD**Armelle BARELLI**

**CENTRE NATIONAL DE LA RECHERCHE
SCIENTIFIQUE**
Délégation Midi-Pyrénées
B.P. 4367
16, avenue Edouard Belin
31055 TOULOUSE Cedex 4
Tél. : 05 61 33 60 00



CENTRE NATIONAL
DE LA RECHERCHE
SCIENTIFIQUE

Service Financier et Comptable
Affaire suivie par Vincent BOUILLAGUET
☎ 05 61 33 60 26 - 📠 05 62 17 29 01
vincent.bouillaguet@dr14.cnrs.fr

CERTIFICAT D'AUDIT

**L'agent comptable secondaire de la délégation régionale Midi-Pyrénées,
Vincent BOUILLAGUET, Domicilié à la Délégation Midi-Pyrénées, 16, avenue Edouard
Belin, BP 24367, 31055 TOULOUSE CEDEX – France –**

En qualité de comptable public, ayant prêté serment devant le Juge des Comptes, soumis notamment :

- au décret n°62-1587 du 29 décembre 1962 portant règlement général sur la comptabilité publique française
- à l'article 60 de la loi n°63-156 du 23 février 1963 et aux décrets relatifs à la responsabilité personnelle et pécuniaire des comptables publics,

- dans le cadre du contrat « **Integrated Project (IP) n° 002020 COGNIRON**, passé avec la Commission Européenne

- pour la période du **1^{er} janvier 2005 au 31 décembre 2005**, précisée sur la situation financière par nature d'activité ci-jointe
- après visa des pièces justificatives des dépenses du CNRS concernées, en application des dispositions réglementaires prévues au décret n°62-1587 du 29 décembre 1962,
- retracées dans la comptabilité de l'établissement, tenue conformément aux règles de la comptabilité publique qui lui sont applicables,

Certifie :

- que le montant total des coûts éligibles, réels et encourus, à la rubrique n°2 de la fiche financière par nature d'activité (financial statement) arrêté à la somme de **648 551,90 € (six cent quarante huit mille cinq cent cinquante et un euros quatre vingt dix centimes)** correspond aux dépenses constatées en comptabilité et sont liées à l'activité économique de l'établissement,

et que ces dépenses :

- ont été engagées et payées pendant la période précisée sur la fiche financière jointe ;
- qu'elles excluent les coûts non éligibles qui sont, comme définis au second paragraphe de l'article II 19 de l'annexe au contrat susmentionné avec la Commission Européenne (CE) :
 - * impôts indirects identifiables, y compris la TVA ou les droits
 - * intérêts débiteurs
 - * provisions pour pertes ou charges futures éventuelles
 - * pertes de change
 - * coûts déclarés, encourus ou remboursés pour un autre projet communautaire
 - * coûts concernant le rendement du capital investi
 - * charges de la dette et du service de la dette
 - * dépenses démesurées ou inconsidérées
 - * tout autre coût qui ne remplit pas les conditions établies à l'article II .19, parag 1.
- qu'elles sont présentées selon le modèle de déclaration des coûts utilisé par l'établissement (FCF) en conformité avec l'article II.22 de l'annexe au contrat susmentionné avec la CE.
- que le montant total des recettes déclarées dans la rubrique n°3 de la fiche financière par nature d'activité du [date] ci-jointe, pour la période couverte par cette fiche financière, s'élève à **0 €**
- que les règles de comptabilisation des dépenses éligibles et des recettes respectent les règles françaises de la comptabilité publique applicables à l'établissement et permettent de distinguer les dépenses et recettes relatives au contrat Ce susmentionné concerné – historique, factures, feuilles d'attachement- de l'ensemble des dépenses et recettes résultant de l'activité de l'établissement.
- que l'Agent Comptable Secondaire est compétent pour délivrer le certificat d'audit, en accord avec les 2^{ème} et 3^{ème} paragraphes de l'article II.26 du contrat Ce susmentionné.
- que le coût du certificat d'audit, déclaré à la rubrique n°6 de la fiche financière détaillée par nature d'activité, s'élève à **172,89 €**

A Toulouse, le 17 février 2006

L'agent comptable secondaire,


Vincent Bouillaguet

Form C : Model of Financial Statement per Activity for an Integrated Project
(to be completed by each contractor)

Type of instrument	Integrated Project	Type of Action (if necessary)	N.A.
Project Title (or Acronym)	COGNIRON	Contract n°	FP6-IST-002020
Contractor's Legal Name	EPFL - Ecole Fédérale Polytechnique de Lausanne		
Legal Type	Governmental		
Contact Person	Dr. Roland Siegwart	Telephone	(+41) 21 693 38 50
Telecopy	(+41) (21) 693 78 07	E-mail	roland.siegwart@epfl.ch
Cost model used (AC/FC or FCF)	AC	Indirect costs (Real or Flat Rate of 10% of Direct costs, except subcontracting)	
Period from	1/1/2005	To	12/31/2005

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes/No) **No**

If Yes, please provide the following information.

Third Party 1 (Y1)	Legal Name		Cost model used	
Third Party 2 (Y2)	Legal Name		Cost model used	
Third Party 3 (Y3)	Legal Name		Cost model used	
Third Party 4 (Y4)	Legal Name		Cost model used	

If necessary add another Form C.

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs,

- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

	Type of Activity											
	Research and Technological Development/ Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	140610				0		0				140610	
Of which subcontracting												
Indirect costs	14061				0		0				14061	
Adjustments to previous period(s)												
Total costs	154671				0		0				154671	

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.
If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.
If a receipt is not allocated to an activity.

	Type of Activity											Total (F) = (A')+(B')+(C')+(D')+(E')	
	Research and Technological Development/ Innovation (A')		Demonstration (B')		Training (C')		Management of the Consortium (D')		Other Specific Activities (E')		Contractor	Third Party(ies)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)			
Total receipts													

4- Declaration of interest generated by the pre-financing (in €)

To be completed only by the coordinator.

Did the pre-financing (advance) you received by the Commission for this period earn interest? (Yes/No)

If Yes, please indicate the amount (in €).

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €).

0

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes/No)

NO

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes/No)

If No, what are the periods covered by this(those) audit certificate(s)?

From - To

-

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s)?

Audit certificate of the contractor (X)

Legal name of the audit firm

Cost of the certificate

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1: Legal name of the audit firm

Cost of the certificate

Y2: Legal name of the audit firm

Cost of the certificate

Y3: Legal name of the audit firm

Cost of the certificate

Y4: Legal name of the audit firm

Cost of the certificate

If necessary add another Form C.

Total (Z) = (X) + (Ys)

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7- Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor	
- Conversion rate of the date of incurred actual costs? (Yes/No)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (Yes/No)	1.55851(31.12.05)
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the date of incurred actual costs? (Yes/No)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (Yes/No)	
Third Party 2 (Y2)	
- Conversion rate of the date of incurred actual costs? (Yes/No)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (Yes/No)	
Third Party 3 (Y3)	
- Conversion rate of the date of incurred actual costs? (Yes/No)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (Yes/No)	
Third Party 4 (Y4)	
- Conversion rate of the date of incurred actual costs? (Yes/No)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (Yes/No)	

If necessary add another Form C.

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project,
- the receipts declared above are directly related to the resources used to reach the objectives of the project,
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract,
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract,
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract,
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement,
- the above information declared is complete and true,
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible for the work	Name of the duly authorised Financial Officer
ASL-EPFL	Date	Date
	Signature	Signature
	Roland Siegwart	Paul Sunderland

R Siegwart

P Sunderland

07-07-06

Form C - Model of Financial Statement per Activity for an Integrated Project
(to be completed by each contractor)

Type of instrument	Integrated Project	Type of Action (if necessary)	N.A.
Project Title (or Acronym)	COGNIRON	Contract n°	2020
Contractor's Legal Name	Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V. IPA		
Legal Type	non-commercial		
Contact Person	Mr. Henning Metzloff/ Mrs. Tanja Huber	Telephone	+49 89 1205 3188
Telecopy	+49 89 1205 77 3188	E-mail	tanja.huber@zv.fraunhofer.de
Cost model used (AC//FC or FCF)	FC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Real
Period from	01.01.2005	To	31.12.2005

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) **NO**
If Yes, please provide the following information

Third Party (Y1)	Legal Name	Cost model used
Third Party 2 (Y2)	Legal Name	Cost model used
Third Party 3 (Y3)	Legal Name	Cost model used
Third Party 4 (Y4)	Legal Name	Cost model used

If necessary add another Form C.

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;

- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

	Type of Activity											
	Research and Technological Development / Innovation		Demonstration		Training		Management of the Consortium		Other Specific Activities		Total (F) = (A)+(B)+(C)+(D)+(E)	
	(A)	(B)	(C)	(D)	(E)	(A)	(B)	(C)	(D)	(E)	(F)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	157.991,03		0,00		3.172,51		0,00		0,00		161.163,54	0,00
Of which subcontracting	0,00		0,00		0,00		0,00		0,00		0,00	0,00
Indirect costs	148.832,77		0,00		736,96		0,00		0,00		149.569,73	0,00
Adjustments to previous period(s)	4.840,94		0,00		-128,08		0,00		0,00		4.712,86	0,00
Total costs	311.664,74	0,00	0,00	0,00	3.781,39	0,00	0,00	0,00	0,00	0,00	315.446,13	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

	Type of Activity										Total	
	Research and Technological Development / Innovation (A')		Demonstration (B')		Training (C')		Management of the Consortium (D')		Other Specific Activities (E')		(F') = (A')+(B')+(C')+(D')+(E')	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)

To be completed only by the coordinator.

Did the pre-financing (advance) you received by the Commission for this period earn interest? (Yes / No)

No

If yes, please indicate the amount (in €)

0,00

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €).

159.613,76

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

Yes

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

Yes

If No, what are the periods covered by this(those) audit certificate(s) ?

From - To

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm	Südtreu Süddeutsche Treuhand AG (Deloitte.)	Cost of the certificate	1.475,00
------------------------------	---	-------------------------	----------

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1 : Legal name of the audit firm	-	Cost of the certificate	0,00
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Y2 : Legal name of the audit firm	-	Cost of the certificate	0,00
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Y3 : Legal name of the audit firm	-	Cost of the certificate	0,00
-----------------------------------	---	-------------------------	------

Y4 : Legal name of the audit firm	-	Cost of the certificate	0,00
-----------------------------------	---	-------------------------	------

If necessary add another Form C.

Total (Z) = (X) + (Ys)	1.475,00
------------------------	----------

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7- Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor	
- Conversion rate of the date of incurred actual costs? (YES / NO)	YES
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	No
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	-

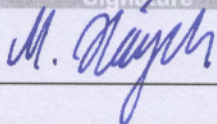
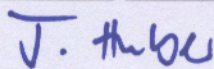
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	-
Third Party 2 (Y2)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	-
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	-
Third Party 3 (Y3)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	-
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	-
Third Party 4 (Y4)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	-
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	-

If necessary add another Form C.

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible for the work	Name of the duly authorised Financial Officer
	Martin Hägele	Henning Metzlauff/ by order Tanja Huber
	Date	Date
	01 February 2006	31 January 2006
	Signature	Signature
		

AUDIT CERTIFICATE

Addressed to

FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V. (FHG/TPA), established in GERMANY – HANSASTRASSE 27 C, 80686 MUENCHEN

We, **SüdTreu Süddeutsche Treuhand AG, Wirtschaftsprüfungsgesellschaft established in GERMANY, ROSENHEIMER PLATZ 4, 81669 MUENCHEN**, represented for signature of this audit certificate by **Mr. Höll and Mr. Walter, German Public Accountants**, hereby certify that:

- we have conducted an audit relating to some information declared in your Financial Statement per Activity attached to this audit certificate and presented to the Commission of the European Communities under contract **COGNIRON, NO. 002020** for the **following period January 1, 2005 to December 31, 2005**.
- We confirm that our audit was carried out in accordance with generally accepted auditing standards respecting ethical rules and on the basis of the relevant provisions of the above-referenced contract and its annexes.

The above mentioned Financial Statement per Activity was examined and all tests of the supporting documentation and accounting records deemed necessary were carried out in order to obtain reasonable assurance that, in our opinion, based on our audit:

- the amount of the total eligible costs of **EURO 315.446,13 (three hundred fifteen thousand four hundred forty-six EURO)** you declared in the Box 2 of the attached Financial Statement per Activity is complying with the following cumulative conditions:
 - they are actual and answers to your economic;
 - they are determined in accordance with your usual accounting principles;
 - they have been incurred during the period covered by the Financial Statement per Activity concerned by this audit certificate;
 - they are recorded in your accounts at the date of the establishment of this audit certificate;
 - they are exclusive of any non-eligible costs which are, as established in the second paragraph of article II.19 of your above mentioned contract with the Commission of the European Communities:
 - any identifiable indirect taxes, including VAT or duties;
 - interest owed;
 - provisions for possible future losses or charges;

- exchange losses;
- costs declared, incurred or reimbursed in respect of another Community project;
- return on capital;
- debt and debt service charges;
- excessive or reckless expenditure;
- any cost which does not meet the conditions established in Article II.19.1. of your contract with the Commission of the European Communities.

-- they are represented according to the following cost reporting model, *the full cost* reporting model, you are eligible to use according to article II.22 of your above mentioned contract with the Commission of the European Communities;

-- they are represented according to the following basis for the conversion rate used of EURO:

- conversion rate of the date where the actual costs were incurred

— as declared in the Box 3 of the attached Financial Statement per Activity, the total amount of receipts for the period covered by this Financial Statement per Activity is equal to **EURO 0,00 (zero EURO)**;

- accounting procedures used in the recording of your eligible costs and receipts respect the accounting rules of the State in which you are established as well as permit the direct reconciliation between the costs and receipts incurred for the implementation of the project covered by the EC contract above mentioned and the overall statement of accounts relating to your overall business activity;
- our company is qualified to deliver this audit certificate in full compliance with the second and third paragraphs of article II.26 of the contract;

Relevant information establishing this qualification is attached to this audit certificate;

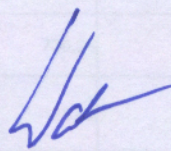
- as declared in the Box 6 of the attached Financial Statement per Activity, you have paid for this audit certificate a price equal to **EURO 1.475,00 (one thousand four hundred seventy-five EURO)** to which VAT equal to **EURO 236,00 (two hundred thirty-six EURO)** has to be added.

Munich, February 3, 2006



Höll

Wirtschaftsprüfer
[German Public Accountant]



Walter

Wirtschaftsprüfer
[German Public Accountant]



Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Integrated Project	Type of Action (if necessary)	
Project Title (or Acronym)	COGNIRON - The Cognitive Robot Companion	Contract n°	FP6-IST-002020
Contractor's Legal Name	KTH (Kungliga Tekniska Högskolan)		
Legal Type	Other		
Contact Person	Prof. Henrik CHRISTENSEN	Telephone	+46 8 7906792
Telecopy	+46 8 7230302	E-mail	hic@nada.kth.se
Cost model used (AC//FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01/01/2005	To	31/12/2005

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No)		No
If Yes, please provide the following information		
Third Party 1 (Y1) Legal Name		Cost model used
Third Party 2 (Y2) Legal Name		Cost model used
Third Party 3 (Y3) Legal Name		Cost model used
Third Party 4 (Y4) Legal Name		Cost model used

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	125222.24				4414.24		7194.39				136830.87	0.00
Of which subcontracting							1370.82				1370.82	0.00
Indirect costs	25044.45				882.85		1164.71				27092.01	0.00
Adjustments to previous period(s)											0.00	0.00
Total costs	150266.69	0.00	0.00	0.00	5297.09	0.00	8359.10	0.00	0.00	0.00	163922.88	0.00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity


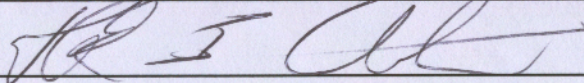
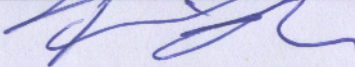
	Type of Activity												
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)		
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	
Total receipts												0.00	0.00

Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Henrik Iskov Christensen	Tina Billing Ericson
	Date	Date
	17/01/2006	17/01/2006
	Signature	Signature
		

Audit certificate

for

Kungliga Tekniska Högskolan, Valhallavägen 79, SE-100 44 Stockholm, Sweden

We Öhrlings PricewaterhouseCoopers AB, established in 113 97 Stockholm, Sweden represented for signature of this audit certificate by Marina Norberg, approved accountant hereby certify that:

- We have conducted an audit relating to the cost declared in the Financial Statement per Activity of Kungliga Tekniska Högskolan hereinafter referred to as contractor, to which this audit certificate is attached, and which is to be presented to the Commission of the European Communities under contract COGNIRON, 002020 for the following period covered by the EC contract 2005-01-01 -2005-12-31.
- We confirm that our audit was carried out in accordance with generally accepted auditing standards respecting ethical rules and on the basis of the relevant provisions of the above referenced contract and its annexes.

The above mentioned Financial Statement per Activity was examined and all tests of the supporting documentation and accounting records deemed necessary were carried out in order to obtain reasonable assurance that, in our opinion, based on our audit:

- the amount of the total eligible costs EUR 163 922,88, (one hundred sixty three thousand nine hundred twenty two EURO and eighty eight CENT) declared in the Box 2 of the attached Financial Statement per Activity is complying with the following cumulative conditions:
 - ✓ they are actual and reflect to the contractor's economic environment;
 - ✓ they are determined in accordance with the contractor's accounting principles;
 - ✓ they have been incurred during the periods covered by the Financial Statement per Activity concerned by this audit certificate;
 - ✓ they are recorded in the accounts of the contractor at the date of the establishment of this audit certificate;
 - ✓ they are exclusive of any non-eligible costs identified below which are established in the second paragraph of Article II.19 of the above mentioned contract with the Commission of the European Communities:
 - any identifiable indirect taxes, including VAT or duties;
 - interest owed;

4- Declaration of interest generated by the pre-financing (in €)

To be completed only by the coordinator.

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)

No

If yes, please mention the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)

163922.88

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

Yes

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

Yes

If No, what is the periodicity covered by this(those) audit certificate(s)?

From – To

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm

Öhrlings Pricewaterhouse Coopers

Cost of the certificate

1134.00

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1: Legal name of the audit firm

Cost of the certificate

Y2: Legal name of the audit firm

Cost of the certificate

Y3: Legal name of the audit firm

Cost of the certificate

Y4: Legal name of the audit firm

Cost of the certificate

Total (Z) = (X) + (Ys)

1134.00

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor

- Conversion rate of the Date of incurred actual costs?

No

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

Yes

Third Party(ies) (if necessary)**Third Party 1 (Y1)**

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 2 (Y2)

- Conversion rate of the Date of incurred actual costs?

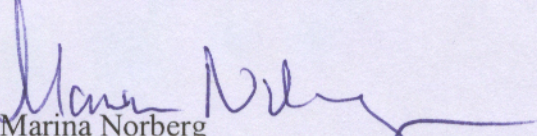
Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

- provisions for possible future losses or charges;
 - exchange losses;
 - costs declared, incurred or reimbursed in respect of another Community project;
 - return on capital;
 - debt and debt service charges;
 - excessive or reckless expenditure;
 - any cost which does not meet the conditions established in Article II.19.1. Of your contract with the Commission of the European Communities.
- ✓ they have been claimed according to the following cost reporting model /AC/ which the contractor is eligible to use according to Article II.22 of the above mentioned contract with the Commission of the European Communities;
- ✓ they are claimed according to the following basis for the conversion rate used of EURO:
- the rate applicable on the first day of the month following the end of reporting period. Conversion rate used 1 Euro= SEK 9,4104.
- as declared in the Box 3 of the attached Financial Statement per Activity, the total amount of receipt for the periods covered by this Financial Statement per Activity is equal to EUR 0, (Zero euro).
- Accounting procedures used in the recording of eligible costs and receipts respect the accounting rules of the State in which the contractor is established and permit the direct reconciliation between the costs and receipts incurred for the implementation of the project covered by the EC contract and the overall statement of accounts relating to the contractor's overall business activity.
 - Our Company is qualified to deliver this audit certificate in full compliance with the second and third paragraphs of Article II.26 of the contract, relevant information establishing this qualification is included with this audit certificate.
 - As declared in the Box 6 of the attached Financial Statement per Activity, the contractor will pay for this audit certificate a price equal to EUR 1 418 (one thousand four hundred eighteen EURO) in which VAT is equal to EUR 284 (two hundred eighty four EURO).
 - We hereby certify that the cost for this Audit Certificate is not included into the amount declared in Box 2 & 5 of the Financial Statement for the period being reported. The cost will instead be reported in the next year's Financial Statement.

Stockholm 19 januari 2006


Marina Norberg
Approved accountant

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Integrated Project	Type of Action (if necessary)	
Project Title (or Acronym)	COGNIRON - The Cognitive Robot Companion	Contract n°	FP6-IST-002020
Contractor's Legal Name	UvA (Universiteit van Amsterdam)		
Legal Type	Other		
Contact Person	Dr Ben KRÖSE	Telephone	+31 20 525 7520
Telecopy	+31 20 525 7490	E-mail	krose@science.uva.nl
Cost model used (AC//FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	1/1/2005	To	12/31/2005

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

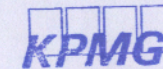
If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.



KPMG Audit
Document to which our auditors' report of

Type of Activity

14 FEB 2006

also refers.
Initials for identification purposes
KPMG Accountants N.V.

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	89343.65						6104.80				95448.45	0.00
Of which subcontracting							2420.00				2420.00	0.00
Indirect costs	17868.73						0.00				17868.73	0.00
Adjustments to previous period(s)											0.00	0.00
Total costs	107212.38	0.00	0.00	0.00	0.00	0.00	6104.80	0.00	0.00	0.00	113317.18	0.00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

	Type of Activity												
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)		
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	
Total receipts												0.00	0.00

14 FEB 2006

also refers.
Initials for identification purposes
KPMG Accountants N.V.

4- Declaration of interest generated by the pre-financing (in €)*To be completed only by the coordinator.*

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)

No

If yes, please mention the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)

113317.18

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

Yes

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

YES

If No, what is the periodicity covered by this(those) audit certificate(s)?

From – To

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm KPMG Cost of the certificate 2420.00

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1: Legal name of the audit firm Cost of the certificate

Y2: Legal name of the audit firm Cost of the certificate

Y3: Legal name of the audit firm Cost of the certificate

Y4: Legal name of the audit firm Cost of the certificate

Total (Z) = (X) + (Ys) 2420.00

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor

- Conversion rate of the Date of incurred actual costs? Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement? No

Third Party(ies) (if necessary)**Third Party 1 (Y1)**

- Conversion rate of the Date of incurred actual costs? Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement? No

Third Party 2 (Y2)

- Conversion rate of the Date of incurred actual costs? Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement? No

Document to which our auditors' report of

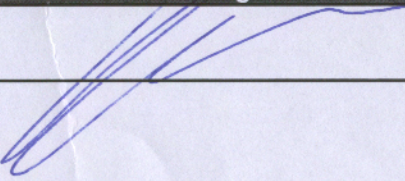
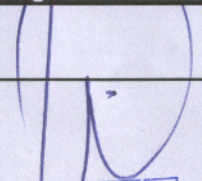
Initials for identification purposes
KPMG Accountants N.V.

Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

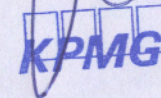
8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Dr. Ben Kröse	Huub Elstgeest
	Date	Date
	13 January 2006	13 January 2006
	Signature	Signature
		

Universiteit van Amsterdam
 Faculteit der NWI
 Financiële zaken
 Kruislaan 404
 1098 SM Amsterdam



KPMG Audit
 Document to which our auditors' report of

14 FEB 2006

also refers.
 Initials for identification purposes
 KPMG Accountants N.V.



KPMG Audit
P.O. Box 74500
1070 DB Amsterdam
The Netherlands

Burg. Rijnderslaan 10-20
1185 MC Amstelveen
The Netherlands
Telephone +31 (0)20 656 7890
Fax +31 (0)20 656 7700

Confidential

Our ref LS/MG/je/6-2308

Universiteit van Amsterdam
Attn. Prof. dr. K.J.F. Gaemers
Decaan van de Faculteit der Natuurwetenschappen
Wiskunde en Informatica
Kruislaan 404
1098 SM AMSTERDAM

Amstelveen, 14 February 2006

Dear Mr. Gaemers,

Auditor's report concerning the project "COGNIRON" for the period from 1 January 2005 up to 1 January 2006

1 Introduction

With reference to our engagement letter, we have audited the enclosed 'Form C Model of Financial Statement per Activity for COGNIRON' hereinafter also referred as Form C. Our auditor's report is included in section 3 of this letter.

The audited and enclosed Form C results from the contract FP6-IST-002020. This contract includes the following address information: "Universiteit van Amsterdam established in the Netherlands, Spui 21, 1012 WX AMSTERDAM, represented by Mr. Sijbolt J. Noorda, President and/or Mr. Walter Hoogland, Dean of the Science Faculty or her/his/their authorised representative ("contractor")". The address and name data as set out in the header of the first page of our reporting relate to the entity which entered into the contract with the European Community.

We hereby certify that our company is qualified to deliver this auditor's report in full compliance with the second paragraph of article II.26 of the contract. Our total audit costs amount to EUR 3,500 excluding VAT. After completing our reporting we will discuss the billing of our costs with the university.

Regarding our auditor's report we inform you as follows:

- The structure of our auditor's report is based on the auditing standards generally accepted in the Netherlands, based on the International Standards on Auditing.
- Annex II to the contract, concluded by the Commission of the European Communities and the university, includes among others the audit procedures to be performed. We refer to

section II.19, paragraph 2. The section includes guidelines regarding costs not to be charged to the project. Relating to the costs sub e ("costs declared, incurred or reimbursed in respect of an other community project"), sub h ("excessive or reckless expenditure") and sub i ("any cost which does not meet the conditions established in Article II.19.1") we have been unable to perform the relevant audit procedures. The reasons relate to the lack of sufficient guidance in the contract mentioned before.

For the reasons mentioned before the auditor's report, as included in section 3 of our reporting, deviates from the auditor's report as set out in the model proposed by the Commission of the European Communities.

2 Use and distribution

You receive this letter including our auditor's report in order to comply with your agreements that were made with the Commission of the European Communities.

We hereby give you permission to present a copy of this letter, together with the auditor's report, to the Commission of the European Communities.

The use of this letter, including auditor's report, for purposes other than those mentioned before, is not permitted without our prior written permission. Furthermore, it is not permitted to provide other parties than the Commission of the European Communities with a copy of this letter, without our prior written permission. The present report and the enclosure form an inseparable whole.

Our report is based on the information provided to us up until the completion of our activities on 14 February 2006. We are not obliged to update or modify this report in line with activities or events that take place after this date.

3 Auditor's report

Issued for the Commission of the European Communities.

Introduction

We have audited the enclosed 'Form C – Model of Financial Statement per Activity for COGNIRON (hereinafter also referred to as: 'Form C') of Universiteit van Amsterdam, Amsterdam, for the period from 1 January 2005 up to 1 January 2006. For this project a cost reimbursement is granted by the Commission of the European Communities under contract number FP6-IST-002020. Form C is initialled by us for identification purposes only and is attached to this report. Form C is the responsibility of the university's management. Our responsibility is to express an opinion on this Form C based on our audit.

Scope

We conducted our audit in accordance with auditing standards generally accepted in The Netherlands. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the enclosed Form C is free of material misstatement. An audit includes examining, on a test basis. Our audit includes examining that the costs of EUR 113,317.18 declared in the enclosed Form C are in compliance with the following cumulative conditions:

- The direct costs claimed are actual costs, recorded in the official accounts of Universiteit van Amsterdam;
- The costs are determined in accordance with the accounting principles of the university which are generally accepted accounting principles in The Netherlands;
- The costs claimed have been incurred during the period covered by Form C;
- The indirect costs amounting to EUR 17,868.73 claimed are represented according to a flat rate of 20% of the direct eligible costs minus costs of subcontractors that Universiteit van Amsterdam is eligible to use according to Article II.22 of the above mentioned contract with the Commission of the European Communities;
- The costs claimed are exclusive of any non-eligible costs which are, as established in the second paragraph of article II.19 of the abovementioned contract with the Commission of the European Communities:
 - costs related to return on capital;
 - provisions for possible future losses or charges;
 - interest owed;
 - any identifiable indirect taxes, including VAT or duties;
 - exchange losses;
 - debt and debt service charges.

Furthermore, our audit also includes assessing that, as declared in the enclosed Form C, there are no additional receipts for the period 1 January 2005 up to 1 January 2006.

Finally our audit includes the following steps:

- Assessing whether pre-financing received from the Commission of the European Communities is applicable.
- If pre-financing is applicable: assessing whether the interest resulting from this pre-financing, has been accounted for correctly and completely.

We believe that our audit provides a reasonable basis for our opinion.

Opinion

In our opinion the amounts recorded in the boxes [2, 3, and 4] of Form C comply with the conditions as mentioned above.

Amstelveen, 14 February 2006

KPMG ACCOUNTANTS N.V.

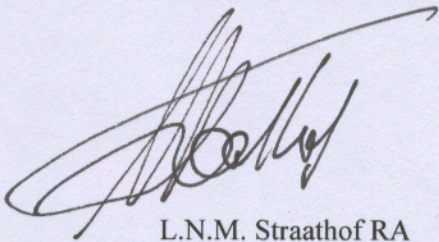
L.N.M. Straathof RA

4 Finally

We trust having informed you well. Might you have any questions, please do not hesitate to contact us.

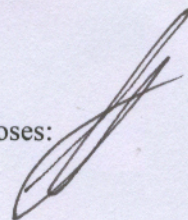
Yours sincerely,

KPMG ACCOUNTANTS N.V.



L.N.M. Straathof RA

Initials for identification purposes:

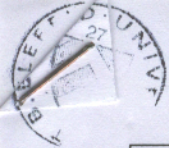


Enclosure(s):

Form C - Model of Financial Statement per Activity for COGNIRON for the period 1 January 2005 up to 1 January 2006 (EC contractnumber: FP6-IST-002020)

cc:

Mr. Dr. R. Scheerens (College van Bestuur)
Mr. R. Boorsma (Programma Financiën)



Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of Instrument	Integrated Project	Type of Action (if necessary)	N. A.
Project Title (or Acronym)	COGNIRON	Contract n°	FP6-IST-002020
Contractor's Legal Name	UniBi - Universität Bielefeld		
Legal Type	Governmental		
Contact Person	Prof. Dr. Gerhard Sagerer	Telephone	+49-521-106-2935
Telecopy	+49-521-106-2992	E-mail	sagerer@techfak.uni-bielefeld.de
Cost model used (AC//FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01.01.2005	To	31.12.2005

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;

- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

	Type of Activity											
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	203455,88	0,00	0,00	0,00	2694,00	0,00	3792,36	0,00	0,00	0,00	209942,24	0,00
Of which subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	2600,00	0,00	0,00	0,00	2600,00	0,00
Indirect costs	40691,17	0,00	0,00	0,00	538,80	0,00	238,47	0,00	0,00	0,00	41468,44	0,00
Adjustments to previous period(s)		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Total costs	244147,05	0,00	0,00	0,00	3232,80	0,00	4030,83	0,00	0,00	0,00	251410,68	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

	Type of Activity											
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)

To be completed only by the coordinator.

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)

If yes, please mention the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)

251410,68

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No) Yes

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No) Yes

If No, what is the periodicity covered by this(those) audit certificate(s)? From – To

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)		817,77
Legal name of the audit firm	VDI Technologiezentrum GmbH	Cost of the certificate
Audit certificate(s) of the third party(ies) (Ys) (if necessary)		
Y1: Legal name of the audit firm		Cost of the certificate
Y2: Legal name of the audit firm		Cost of the certificate
Y3: Legal name of the audit firm		Cost of the certificate
Y4: Legal name of the audit firm		Cost of the certificate
Total (Z) = (X) + (Ys)		817,77

Reminders:
 The costs of this audit certificate are to be declared in the next financial statement. The costs of the audit certificate of the first reporting period are included in the costs declared under the activity "Management of the Consortium".
 The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates


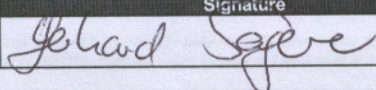
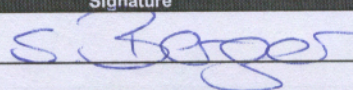
Costs incurred in currencies other than EURO shall be reported in EURO.
 Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

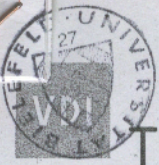
Contractor		Yes
- Conversion rate of the Date of incurred actual costs?		
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?		
Third Party(ies) (if necessary)		
Third Party 1 (Y1)		
- Conversion rate of the Date of incurred actual costs?		
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?		
Third Party 2 (Y2)		
- Conversion rate of the Date of incurred actual costs?		
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?		
Third Party 3 (Y3)		
- Conversion rate of the Date of incurred actual costs?		
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?		
Third Party 4 (Y4)		
- Conversion rate of the Date of incurred actual costs?		
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?		

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Prof. Dr. Gerhard Sagerer	Silke Berger
	Date	Date
	23.01.2006	23.01.2006
	Signature	Signature
		



Audit Certificate

Contract: FP6-IST-002020

Integrated Project

COGNIRON

The Cognitive Robot Companion

Contractor:

Universitaet Bielefeld

Universitaetsstrasse 25
33615 Bielefeld

Germany



We, the VDI Technologiezentrum GmbH established in Graf-Recke Straße 84 in 40239 Düsseldorf, Germany, represented for signature of this audit certificate by Dipl. Oec. Thomas Matigat, hereby certify that:

We have conducted an audit relating to the cost declared in the Financial Statement per Activity of the Universität Bielefeld hereinafter referred to as contractor, to which this audit certificate is attached, and which is to be presented to the Commission of the European Communities under contract "**The Cognitive Robot Companion – COGNIRON**", contract no FP6-IST-002020 for the following period covered by the EC contract 2005-01-01--2005-12-31.

We confirm that our audit was carried out in accordance with generally accepted auditing standards respecting ethical rules and on the basis of the relevant provisions of the above referenced contract and its annexes.

The above mentioned Financial Statement per Activity was examined and all tests of the supporting documentation and accounting records deemed necessary were carried out in order to obtain reasonable assurance that, in our opinion, based on our audit:

- The amount of the total eligible costs (251410,68 €, in words: Two Five One Four One Zero Euro) declared in the Box 2 of the attached Financial Statement per Activity is complying with the following cumulative conditions:
 - ✓ They are actual and reflect the contractor's economic environment;
 - ✓ they are determined in accordance with the contractor's usual accounting principles;
 - ✓ they have been incurred during the periods covered by the Financial Statement



per Activity concerned by this audit certificate;

✓ they are recorded in the accounts of the contractor at the date of the establishment of this audit certificate;

✓ they are exclusive of any non-eligible costs identified below which are established in the second paragraph of article II.19 of the above mentioned contract with the Commission of the European Communities:

- ❖ Any identifiable indirect taxes, including VAT or duties;
- ❖ interest owed;
- ❖ provisions for possible future losses or charges;
- ❖ exchange losses;
- ❖ costs declared, incurred or reimbursed in respect of another Community project;
- ❖ return on capital;
- ❖ debt and debt service charges;
- ❖ excessive or reckless expenditure;
- ❖ any costs which does not meet the conditions established in Article II.19.1. of your contract with the Commission of the European Communities.

✓ they have been claimed according to the following cost reporting model Additional direct Costs with flat rate for indirect costs model (AC) which the contractor is eligible to use according to article II.22 of the above mentioned contract with the Commission of the European Communities;

As such, they are also exclusive of any additional direct eligible costs covered by contributions from third parties defined in indents a) and b) of Article II.23 of the



contract with the Commission of the European Communities.

✓ they are claimed according to the following basis for the conversion rate used of EURO:

- ❖ the conversion rate of the date where the actual costs were incurred
- As declared in the Box 3 of the attached Financial Statement per Activity, the total amount of receipts for the periods covered by this Financial Statement per Activity is equal to 0 € (Zero Euro).
- Accounting procedures used in the recording of eligible costs and receipts respect the accounting rules of the State in which the contractor is established and permit the direct reconciliation between the costs and receipts incurred for the implementation of the project covered by the EC contract above mentioned and the overall statement of accounts relating to the contractor's overall business activity.
- Our company is qualified to deliver this audit certificate in full compliance with the second and third paragraphs of article II.26 of the contract;

Relevant information establishing this qualification are attached to this audit certificate.

- As declared in the Box 6 of the attached Financial Statement per Activity, you have paid for this audit certificate a price equal to 948,61 € (Nine Four Eight Euro) in which VAT is equal to 130,84 € (One Three Zero Euro).

2006-01-24

.....
Date

.....
Dipl. Oec. Thomas Matigat
VDI Technologiezentrum GmbH

VDI Technologiezentrum GmbH
Graf-Recke-Str. 84 · 40239 Düsseldorf
Telefon +49 (0) 211 62 14-4 01



Bundesministerium
für Bildung
und Forschung

POSTANSCHRIFT Bundesministerium für Bildung und Forschung, 53170 Bonn

VDI Technologiezentrum GmbH

Graf-Recke-Str. 84
40239 Düsseldorf

HAUSANSCHRIFT Heinemannstraße 2, 53175 Bonn-Bad Godesberg

POSTANSCHRIFT 53170 Bonn

TEL +49 (0)1888 57-3347

FAX +49 (0)1888 57-8 3347

GZ 513 -

BEARBEITET VON OAR M. Herckelrath

E-MAIL Manfred.herckelrath@bmbf.bund.de

HOME PAGE www.bmbf.de

DATUM Bonn, 18.02.2004

BETREFF **Audit-Zertifikate im 6. EU-Forschungsrahmenprogramm**
hier: Berechtigung zur Ausstellung von Audit-Zertifikaten

Sehr geehrte Damen und Herren,

das Bundesministerium für Bildung und Forschung bestätigt, daß die VDI TZ GmbH aufgrund ihrer Prüf- und Testierkompetenz hinsichtlich der Verwendung nationaler Fördermittel im Rahmen der Projektträgerschaft auch die Voraussetzung für die Erstellung von Audit-Zertifikaten erfüllt, die für Projekte im 6. Forschungsrahmenprogramm nach Art.II.26 des Anhanges II zum Mustervertrag vorzulegen sind.

Wir bitten die Kommission, die VDI TZ GmbH als Prüfer in EU-geförderten Projekten deutscher Hochschulen als prüfungsberechtigt im Sinne Art.II.26 Abs.3 des Anhanges II zum Mustervertrag anzuerkennen.

Mit freundlichen Grüßen

Im Auftrag

v. Schaewen

TELEFONZENTRALE +49 (0)1888 57-0

FAX-ZENTRALE +49 (0)1888 57-8 36 01

E-MAIL-ZENTRALE bmbf@bmbf.bund.de

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Integrated Project	Type of Action (if necessary)	
Project Title (or Acronym)	COGNIRON - The Cognitive Robot Companion	Contract n°	FP6-IST-002020
Contractor's Legal Name	UH (The University of Hertfordshire)		
Legal Type	Other		
Contact Person	Prof.Kerstin Dautenhahn	Telephone	+44 1707 284 333
Telecopy	+44 1707 284 303	E-mail	k.dautenhahn@herts.ac.uk
Cost model used (AC//FC or FCF)	AC	Indirect costs(Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01/01/2005	To	31/12/2005

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	169175.00				1845.00		1671.00				172691.00	0.00
Of which subcontracting											0.00	0.00
Indirect costs	33835.00				369.00		334.20				34538.20	0.00
Adjustments to previous period(s)	234.00										234.00	0.00
Total costs	203244.00	0.00	0.00	0.00	2214.00	0.00	2005.20	0.00	0.00	0.00	207463.20	0.00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

	Type of Activity												
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)		
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	
Total receipts												0.00	0.00

4- Declaration of interest generated by the pre-financing (in €)	
<i>To be completed only by the coordinator.</i>	
Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	No
If yes, please mention the amount (in €)	

5- Request of FP6 Financial contribution (in €)	
For this period, the FP6 Community financial contribution requested is equal to (amount in €)	207463.20

6- Audit certificates	
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)	Yes
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)	Yes
If No, what is the periodicity covered by this(those) audit certificate(s)?	From – To
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?	
Audit certificate of the contractor (X)	
Legal name of the audit firm	Alan Harley, Compliance Auditor, UH
Cost of the certificate	875.00
Audit certificate(s) of the third party(ies) (Ys) (if necessary)	
Y1: Legal name of the audit firm	Cost of the certificate
Y2: Legal name of the audit firm	Cost of the certificate
Y3: Legal name of the audit firm	Cost of the certificate
Y4: Legal name of the audit firm	Cost of the certificate
Total (Z) = (X) + (Ys)	
	875.00

Reminders:
 The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".
 The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the Date of incurred actual costs?	No
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	Yes
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Prof. Kerstin DAUTENHAHN	Ms Sally ENSUM
	Date	Date
	20/01/2006	20/01/2006
	Signature	Signature
	<i>K. Dautenhahn</i>	<i>S. Ensum</i>



University of
Hertfordshire

Hatfield Herts
AL10 9AB
UK

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Minicom 01707 284000
Fax 01707 284115
www.herts.ac.uk

20 January 2006

School of Computer Science
University of Hertfordshire
College Lane
Hatfield
Herts, UK
AL10 9AB

Dear Sir or Madam:

I, Alan Harley MIIA, Compliance Auditor of the University of Hertfordshire, established in University of Hertfordshire, College Lane, Hatfield, Hertfordshire, represented for signature of this audit certificate by University of Hertfordshire ("the University"), hereby certify that:

- I have conducted an audit relating to some information declared in the University's Financial Statement per Activity attached to this audit certificate and presented to the Commission of the European Communities under contract FP6-IST-002020, Cognitive Robot Companion, COGNIRON for the period 1 January 2005 to 31 December 2005.
- I confirm that my audit was carried out in accordance with generally accepted auditing standards respecting ethical rules and on the basis of the relevant provisions of the above referenced contract and its annexes.

The above-mentioned Financial Statement per activity was examined and all the tests of the supporting documentation and accounting records deemed necessary were carried out in order to obtain reasonable assurance that, in my opinion, based on my audit:

- The amount of total eligible costs (€207463.20) (Two hundred and seven thousand, four hundred and sixty three EURO and 20 cents) the University declared in the Box 2 of the attached Financial Statement per activity is complying with the following cumulative conditions:
 - They are actual and answer to the University's economic environment;
 - They are determined in accordance with the University's usual accounting principles;
 - They have been incurred during the periods covered by the Financial Statement per activity concerned by this audit certificate;
 - They are recorded in the University's accounts at the date of the establishment of this audit certificate.
 - They are exclusive of any non-eligible costs which are, as established in the second paragraph of article II.19 of the University's above mentioned contract with the Commission of the European Communities:
 - Any identifiable indirect taxes, including VAT or duties;
 - Interest owed;



- Provisions for possible future losses or charges;
 - Exchange losses;
 - Costs declared, incurred or reimbursed in respect of another Community project;
 - Return on capital;
 - Debt and debt service charges;
 - Excessive or reckless expenditure;
 - Any cost which does not meet the conditions established in Article II.19.1 of the University's contract with the Commission of the European Communities.
- They are represented according to the Additional direct costs with flat rate for indirect costs model that the University is eligible to use according to article II.22 of the University's above mentioned contract with the Commission of the European Communities;
 - As such, they are also exclusive of any additional direct eligible costs covered by the University's contributions from third parties defined in indents a) and b) of Article II.23 of the University's contract with the Commission of the European Communities.
 - They are represented according to the following basis for the conversion rate used of EURO:
 - The rate applicable on the first day of the month following the end of reporting period.
 - As declared in Box 3 of the attached Financial Statement per activity, the total amount of receipts for the periods covered by this Financial Statement per Activity is equal to €0 (nil EURO);
- Accounting procedures used in the recording of the University's eligible costs and receipts respect the accounting rules of the State in which the University is established as well as permit the direct reconciliation between the costs and receipts incurred for the implementation of the project covered by the EC contract above mentioned and the overall statement of accounts relating to the University's overall business activity;
 - I am qualified to deliver this certificate in full compliance with the second and third paragraphs of article II.26 of the contract;
 - As declared in Box 6 of the attached Financial Statement(s) per Activity, the University has paid for this audit certificate a price equal to €875 (Eight hundred and seventy five EURO) in which VAT is equal to €NIL.

20 January 2006

A J Harley MIIA

dti

Lord Sainsbury of Turville

PARLIAMENTARY UNDER SECRETARY
OF STATE FOR SCIENCE AND
INNOVATION

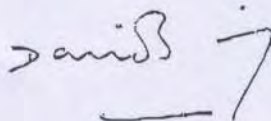
15 December 2003

Dr Achilleas Mitsos
Director-General for Research
European Commission
B-1049 Brussels
Belgium

*Dear Dr. Mitsos,***EU SIXTH R&D FRAMEWORK PROGRAMME – AUDIT CERTIFICATION:
ESTABLISHMENT OF INTERNAL AUDITORS FOR UK PUBLIC BODIES**

I am writing, on behalf of the Secretary of State for Trade and Industry who has day to day responsibility for science and technology matters in the UK Government, concerning the establishment of "competent public officers" to carry out audits of UK public bodies participating in the Framework Programme (FP6). This requirement is outlined in paragraph 3.2.3.1.2.2 (Auditors eligible to deliver audit certificates) of the current draft of the Commission's Guide to Financial Issues for the Sixth Framework Programme (October 2003).

I hereby formally establish that an internal auditor of a public body in the UK, including all UK Universities, has the legal capacity to carry out the audits of the body concerned and is appropriately independent from the audited (public body) contractor. In addition, and if preferred by the UK public body concerned, an external auditor qualified to carry out statutory audits of accounting documents in accordance with the 8th Council Directive 84/253/EEC of 10 April 1984 may also be used to perform audits of UK public bodies.

Yours sincerely,

Department of Trade and Industry

V 850
1 Victoria Street
London SW1H 0ETDirect Line +44 (0)20 7215 5624
Fax +44 (0)20 7215 5410
Minicom +44 (0)20 7215 6740
Enquiries +44 (0)20 7215 5000
www.dti.gov.uk
mpst.sainsbury@dti.gsi.gov.uk

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of Instrument	Integrated Project	Type of Action (if necessary)	
Project Title (or Acronym)	COGNIRON - The Cognitive Robot Companion	Contract n°	FP6-IST-002020
Contractor's Legal Name	UniKarl (Univesität Karlsruhe TH)		
Legal Type	Other		
Contact Person	Prof. Rüdiger Dillmann	Telephone	+49 721 608 38 46
Telecopy	+49 721 608 44 70	E-mail	dillmann@ira.uka.de
Cost model used (AC/IFC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01.01.2005	To	31.12.2005

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	156628,33				3319,09		2099,60				162047,02	0,00
Of which subcontracting											0,00	0,00
Indirect costs	31325,66				663,82		419,92				32409,40	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	187953,99	0,00	0,00	0,00	3982,91	0,00	2519,52	0,00	0,00	0,00	194456,42	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

	Type of Activity												
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)		
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	
Total receipts												0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)	
<i>To be completed only by the coordinator.</i>	
Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	No
If yes, please mention the amount (in €)	

5- Request of FP6 Financial contribution (in €)	
For this period, the FP6 Community financial contribution requested is equal to (amount in €)	194456,42

6- Audit certificates	
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)	Yes
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)	Yes
If No, what is the periodicity covered by this(those) audit certificate(s)?	From – To
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?	
Audit certificate of the contractor (X)	
Legal name of the audit firm	Innenrevision Universität Karlsruhe
Cost of the certificate	331,33
Audit certificate(s) of the third party(ies) (Ys) (if necessary)	
Y1: Legal name of the audit firm	Cost of the certificate
Y2: Legal name of the audit firm	Cost of the certificate
Y3: Legal name of the audit firm	Cost of the certificate
Y4: Legal name of the audit firm	Cost of the certificate
Total (Z) = (X) + (Ys)	
	331,33

Reminders:
 The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".
 The required audit certificate(s) is(are) attached to this Financial Statement.


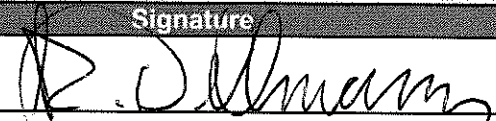
7-Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the Date of incurred actual costs?	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	

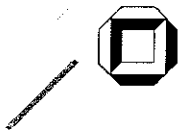
Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
Universität Karlsruhe (TH) Fakultät für Informatik Lehrstuhl Prof. Dr. - Ing. R. Dillmann (Geb. 07.21) · Postfach 09 80 76128 KARLSRUHE	Prof. Rüdiger DILLMANN	Prof. Rüdiger DILLMANN
	Date	Date
	February 7th, 2006	February 7th, 2006
	Signature	Signature
		



Jürgen Benschling

Kaiserstraße 12, Geb. 10.11

76131 Karlsruhe

Tel.: (07 21) 608-0

Durchwahl 608-4355

Fax: (07 21) 608-4399

E-Mail: juergen.benschling

@verwaltung.uni-karlsruhe.de

www.verwaltung.uni-karlsruhe.de

Dat.: 7. Februar 2006

Audit zertifikat

erstellt für die Universität Karlsruhe (TH), Institut für Technische Informatik, Kaiserstr. 12, 76131 Karlsruhe im Rahmen des EU-Projekts „COGNIRON - The Cognitive Robot Companion“ mit der Vertragsnummer FP6-IST-002020

Ich bestätige hiermit,

- für den Zeitraum 01.01.2005 bis 31.12.2005 eine Prüfung der Angaben in der Kostenabrechnung pro Tätigkeit der Universität Karlsruhe (Institut für Technische Informatik) durchgeführt zu haben. Das Ergebnis dieser Prüfung wird der Kommission der EG vorgelegt.
- dass die Prüfung in Übereinstimmung mit allgemein anerkannten Prüfungsgrundsätzen unter Beachtung ethischer Regeln und auf der Grundlage der einschlägigen Bestimmungen durchgeführt wurde. Die o.g. Kostenabrechnung pro Tätigkeit wurde geprüft und alle für erforderlich gehaltenen Stichproben bei den Belegen und Buchhaltungsunterlagen wurden durchgeführt, um hinreichende Sicherheit darüber zu erhalten, dass nach meiner Auffassung und nach meiner Prüfung
 - der Betrag der gesamten erstattungsfähigen Kosten 194.456,42 Euro (in Worten: einhundertvierundneunzigtausendvierhundertsechsfünzig Euro und zweiundvierzig Cent), der in Kasten 2 der beigelegten Kostenabrechnung pro Tätigkeit angegeben wurde, alle folgenden Bedingungen erfüllt:
 - * Die Kosten sind tatsächlich angefallen und entsprechen ihrem wirtschaftlichen Umfeld.
 - * Die Kosten sind im Einklang mit den üblichen Buchhaltungsgrundsätzen ermittelt worden.
 - * Die Kosten sind in den durch die Kostenabrechnung pro Tätigkeit abgedeckten Zeitraum gefallen, auf die sich dieses Audit zertifikat bezieht.

* Die Kosten sind zum Zeitpunkt der Erstellung dieses Auditzertifikats in den Geschäftsbüchern erfasst.

* Nicht enthalten in den Kosten sind alle nicht erstattungsfähigen Kosten, wie sie in Art. II.19 Abs. 2 des oben erwähnten Vertrags mit der Kommission der EG festgelegt sind: Feststellbare indirekte Steuern einschließlich Mehrwertsteuer oder Abgaben, Schuldzinsen, Rückstellungen für eventuelle künftige Verluste oder Verbindlichkeiten, Wechselkursverluste, im Zusammenhang mit einem anderen Gemeinschaftsprojekt angegebene, angefallene oder erstattete Kosten, Entgelt für erhaltenes Kapital, Verbindlichkeiten und damit verbundene Zinsen, übermäßige oder unbedachte Ausgaben, alle Kosten, welche die in Art. II.19.1 des Vertrags festgelegten Bedingungen nicht erfüllen.

* Die Kosten sind entsprechend dem Kostenmodell AC ausgewiesen, das der Projektleiter gemäß Art. II.22 des o. g. Vertrags zu benutzen berechtigt sind. Als solche sind auch keine durch Beiträge Dritter abgedeckte zusätzliche direkte erstattungsfähige Kosten i. S. von Art. II.23.a) und b) des o. g. Vertrags enthalten.

* Die Kosten sind gegebenenfalls auf der Grundlage „Umrechnungskurs des Tages, an dem die tatsächlichen Kosten anfielen“ in Euro umgerechnet worden.

* Wie in Kasten 3 der beigefügten Kostenabrechnung pro Tätigkeit angegeben, beträgt die Gesamtsumme der Einnahmen für den Zeitraum dieser Kostenabrechnung 0,00 Euro (in Worten: null Euro null Cent).

- Die bei der Buchführung über die erstattungsfähigen Kosten und Einnahmen angewandten Methoden der Rechnungslegung entsprechen den Grundsätzen der Rechnungslegung des Bundeslandes Baden-Württemberg und erlauben die unmittelbare Abstimmung zwischen den für die Durchführung des Projekts angefallenen Kosten und Einnahmen im Rahmen des oben genannten Vertrags und mit der Gesamtabrechnung für die gesamte Geschäftstätigkeit.

Des weiteren bestätige ich hiermit, dass ich in keiner Weise an der Erstellung der Kostenabrechnung (Formular C) beteiligt war.

Als Nachweis meiner Berechtigung zur Erstellung dieses Auditzertifikats sind abgeschlossen:

- Schreiben des Ministeriums für Wissenschaft, Forschung und Kunst Baden-Württemberg vom 23.03.2004 – Az. 25-088.31(6)/251 an die Universität Karlsruhe
- Schreiben des Ministeriums für Wissenschaft und Kunst Baden-Württemberg vom 16.04.2004 – Az. 25-088.31(6)/256 an die Generaldirektion Forschung der Europäischen Union
- Schreiben der Generaldirektion Forschung der Europäischen Union vom 18.05.2004 – Az. DG/HR/MMR/SW/cp(2004)D/518344 an das Ministeriums für Wissenschaft, Forschung und Kunst Baden-Württemberg

Wie in Kasten 6 der beigefügten Kostenabrechnung pro Tätigkeit angegeben, wurden für dieses Auditzertifikat 331,33 Euro (in Worten: dreihunderteinunddreißig Euro dreiunddreißig Cent) entrichtet.





MINISTERIUM FÜR WISSENSCHAFT, FORSCHUNG UND KUNST BADEN-WÜRTTEMBERG

Der Leiter der Gruppe "Europa"

Ministerium für Wissenschaft, Forschung und Kunst Baden-Württemberg
Postfach 10 34 53 · 70029 Stuttgart

An die
Universität Karlsruhe
Kaiserstr. 12

76131 Karlsruhe

Universität Karlsruhe (TH)												
26. März 2004												
Az 75327 16464												
R	Per	K	Pr	OR	SI	IR	I	II	III	IV	V	AV

Stuttgart, 23. März 2004
Durchwahl (0711) 279-3337

Aktenzeichen: zu 25-088.31(6)/251
(Bitte bei Antwort angeben)

Financial Audit zu Vorhaben des 6. Forschungsrahmenprogramms der EU-Kommission; hier: Spezifische Regelung

dortiges Schreiben vom 23. März 2004, Az.:--- 7532.7

Sehr geehrte Damen und Herren,

nachdem Sie mitgeteilt haben, dass Sie Ihre Innenrevision für das financial audit in Anspruch nehmen möchten, bestätigt das Ministerium für Wissenschaft, Forschung und Kunst Baden-Württemberg hiermit, dass

- die Universität Karlsruhe eine staatliche Hochschule bzw. außeruniversitäre Forschungseinrichtung des Landes Baden-Württemberg und somit berechtigt ist, Anträge zum 6. Forschungsrahmenprogramm der Europäischen Union zu stellen, und dass
- der/die folgende(n) öffentlichen Bedienstete(n) die Qualifikation für die Durchführung des financial audit besitzen:

OAR Jürgen Bensing

AR Harald Zanger

RA'frau Birgit Schabert

Mit freundlichen Grüßen

Hans-Dieter Schmidt
Ministerialrat



MINISTERIUM FÜR WISSENSCHAFT, FORSCHUNG UND KUNST BADEN-WÜRTTEMBERG

Der Leiter der Gruppe "Europa"

Ministerium für Wissenschaft, Forschung und Kunst Baden-Württemberg
Postfach 10 34 53 · 70029 Stuttgart

Herrn
Stell. Generaldirektor
Hugh Richardson
Europäische Union
Generaldirektion Forschung
B-1049 Brüssel

Stuttgart, 16. April 2004
Durchwahl (0711) 279- 3337
Aktenzeichen: 25-088.31(6)/256
(Bitte bei Antwort angeben)

Audit-Zertifikate im 6. Forschungsrahmenprogramm

Schreiben des Bundesministerium für Bildung und Forschung vom
6.4.04, GZ: 113-9140-3

Sehr geehrter Herr Generaldirektor,

für die Erstellung der Audit-Zertifikate im 6. Forschungsrahmenprogramm hat sich die EU-Kommission eine Einzelfallprüfung der berechtigten öffentlichen Bediensteten vorbehalten. Dennoch sind die Hochschulen und öffentlichen Forschungseinrichtungen darauf angewiesen, eine Planungssicherheit bezüglich der Kriterien für die Einzelfallprüfung zu haben, damit eine zügige Auszahlung der Zuwendungen erfolgen kann.

Das Ministerium für Wissenschaft, Forschung und Kunst Baden-Württemberg hat den antragstellenden Hochschulen für die jeweiligen Bediensteten eine Bestätigung ausgestellt, die der Kommission zu den betroffenen Projekten jeweils vorgelegt werden kann. Weitere Bestätigungen werden bei Bedarf ausgestellt werden.

Unabhängig davon bestätigt das Ministerium für Wissenschaft, Forschung und Kunst Baden-Württemberg der EU-Kommission, dass die mit Aufgaben der Innenrevision befassten Prüfstellen und Bediensteten der folgenden öffentlichen Einrichtungen (einschließlich der dort angesiedelten Projektträger) funktionell unabhängig arbeiten und daher nach unserer Auffassung als „competent public officers“ im Sinne von Art. II.26 Abs. 3 im Anhang II zum Mustervertrag anzusehen sind:

- ❖ Universität Freiburg
- ❖ Universitätsklinikum Freiburg
- ❖ Universität Heidelberg
- ❖ Universitätsklinikum Heidelberg
- ❖ Universität Hohenheim
- ❖ Universität Karlsruhe
- ❖ Universität Konstanz
- ❖ Universität Mannheim
- ❖ Universitätsklinikum Mannheim
- ❖ Universität Stuttgart
- ❖ Universität Tübingen
- ❖ Universitätsklinikum Tübingen
- ❖ Universität Ulm
- ❖ Universitätsklinikum Ulm

Das Ministerium geht davon aus, dass die dort vorhandenen Innenrevisionen und ihre Bediensteten zur Ausstellung von Audit-Zertifikaten für Projekte des 6. Forschungsrahmenprogramms befugt sind.

Die o.g. Einrichtungen haben eine Mehrfertigung dieses Schreibens erhalten und wurden gebeten, ihren Anträgen an die Kommission jeweils eine Kopie dieses Schreibens beizufügen.

Das Ministerium behält sich vor, eine entsprechende Bestätigung auch für andere Hochschulen des Landes sowie für einzelne öffentliche Forschungseinrichtungen auszustellen.

Der Unterzeichnende wäre Ihnen dankbar, wenn Sie ihm diese Regelung bestätigen könnten.

Mit freundlichen Grüßen

Hans-Dieter Schmidt
Ministerialrat



EUROPEAN COMMISSION
RESEARCH DIRECTORATE GENERAL

The Deputy Director General

25 Hoc

Att.	Rw. A		
Min. I. Wiss. Forsch. u. Kunst			
28. MAI 2004			
<i>ore. in coll.</i>			
Az. 258 <i>kurz</i>			

Brussels, 18. 05. 2004
DG/HR/MMR/SW/cp(2004)D/518344

Herrn
Hans-Dieter Schmidt
Gruppenleiter
Ministerium für Wissenschaft,
Forschung und Kunst Baden-
Württemberg
Postfach 10 34 53
D-70029 Stuttgart

Subject: Audit certificates in the Sixth Framework Programme
Use of internal auditing offices of public research establishments to provide
audit certificate

Reference: Your letter dated 16 April 2004

Dear Mr Schmidt,

Thank you for your recent letter regarding the confirmation from the Ministry of Science, Research and Arts that the internal auditing offices of the public research establishments identified in your letter are functionally independent in their work and can be considered to be competent public officers within the meaning of Article II.26 of the model contract for the Sixth Framework Programme for the provision of audit certificates for FP6 RTD actions.

In particular you identified the internal auditing offices of the following public organisations:

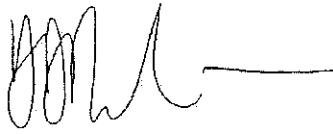
Universität Freiburg
Universitätsklinikum Freiburg
Universität Heidelberg
Universitätsklinikum Heidelberg
Universität Hohenheim
Universität Karlsruhe
Universität Konstanz
Universität Mannheim
Universitätsklinikum Mannheim
Universität Stuttgart
Universität Tübingen
Universitätsklinikum Tübingen
Universität Ulm
Universitätsklinikum Ulm

Commission européenne, B-1049 Bruxelles - Belgique, Téléphone: (32-2)299 11 11.
Bureau: SDME 2/113, Téléphone: ligne directe (32-2) 295 90 96

E-mail: hugh.richardson@cec.eu.int

The Ministry estimates that the internal auditing offices of these public research
institutions meet the criteria for providing audit certificates of public bodies as established by
Regulations for Participation and the model contract for FP6, I see no reason for the Commission to
object to this designation.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'HR', followed by a horizontal line extending to the right.

Hugh Richardson

Cc: Mr. Mitsos, RTD Directors
Mr. Rille, Mrs Richards



Form C - Model of Financial Statement per Activity for an Integrated Project

(to be completed by each contractor)

Type of instrument	Integrated Project	Type of Action (if necessary)	N.A
Project Title (or Acronym)	COGNIRON	Contract n°	002020
Contractors's legal name	Vrije Universiteit Brussel		
Legal Type	governmental		
Contact Person	Myriam Essiaf	Telephone	+32 (0)2 629 22,74
Teletcopy		E-mail	messiaf@vub.ac.be
Cost model used (AC/FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat Rate of 20% of Direct costs
Period from	01-01-2005 TO		30-04-2005

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party (Y1)	Legal name	Cost model used
Third Party 2 (Y2)	Legal name	Cost model used
Third Party 3 (Y3)	Legal name	Cost model used
Third Party 4 (Y4)	Legal name	Cost model used

If necessary add another Form C

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;

do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs

The costs declared should distinguish between direct and indirect costs

If necessary, adjustments to previous period(s) may be included where appropriate

- Declaration of interest generated by the pre-financing (in €)	
<i>To be completed only by the coordinator.</i>	
Did the pre-financing (advance) you received by the Commission for this period earn interest? (Yes / No)	No
If yes, please indicate the amount (in €)	

5- Request of FP6 Financial Contribution (in €)	
For this period, the FP6 Community financial contribution requested is equal to (amount in €)	7.163,51

6- Audit certificates	
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)	Yes
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)	Yes
If No, what are the periods covered by this(those) audit certificate(s) ?	From -to
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?	390,00

Audit certificate of the contractor (X)			
Legal name of the audit firm	B.S.T. Réviseurs d'entreprises - Bedrijfsrevisoren	Cost of the certificate	390,00
Audit certificate(s) of the third party(ies) (Ys) (if necessary)			
Y1 : Legal name of the audit firm		Cost of the certificate	
Y2 : Legal name of the audit firm		Cost of the certificate	
Y3 : Legal name of the audit firm		Cost of the certificate	
Y4 : Legal name of the audit firm		Cost of the certificate	
If necessary add another Form C.		Total (Z) = (X) + (Ys)	

Reminders:
The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium". The required audit certificate (s) is (are) attached to this Financial Statement

7- Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	
Third Party 2 (Y2)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	

Third Party 3 (Y3)

- Conversion rate of the date of incurred actual costs? (YES / NO)
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)

Third Party 4 (Y4)


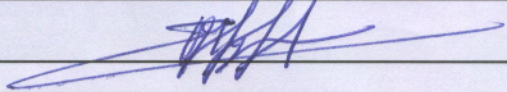
- Conversion rate of the date of incurred actual costs? (YES / NO)
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)

If necessary add another Form C.

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised represen

Contractor's	Name of the Person responsible for the work	Name of the duly authorised Financial Officer
	STEELS Luc	Essiaf Myriam
	Date	Date
	06-07-2005	06-07-2005
	Signature	Signature
		

B S T

REVISEURS D'ENTREPRISES
BEDRIJFSREVISOREN

D. SMETS*
P. TYTGAT**
C. DE VOCHT
L. DILLEY[†]
T. GROESSENS

V. DUMONT

Vrije Universiteit Brussel
Pleinlaan 2
B-1050 BRUSSELS

AUDIT CERTIFICATE

We **BST Réviseurs d'Entreprises - Bedrijfsrevisoren S.C.P.R.L. - B.B.V.B.A.**, established in *Rue Gachardstraat 88/16, 1050 BRUSSELS, BELGIUM* represented for signature of this audit certificate by **Tony GROESSENS**, certified auditor¹, hereby certify that:

- we have conducted an audit relating to some information declared in your Financial Statement per Activity attached to this audit certificate and presented to the Commission of the European Communities under contract **EC 188, COGNIRON, n° 002020** for the following period from *1/01/2005 to 30/04/2005*.
- we confirm that our audit was carried out in accordance with generally accepted auditing standards respecting ethical rules and on the basis of the relevant provisions of the above referenced contract and its annexes.

The above-mentioned Financial Statement per Activity was examined and all tests of the supporting documentation and accounting records deemed necessary were carried out in order to obtain reasonable assurance that, in our opinion, based on our audit:

- the amount of the total eligible costs **7,163.51 EUR** (*seven thousand one hundred and sixty three euro and fifty one eurocent*) you declared in the Box 2 of the attached Financial Statement per Activity is complying with the following cumulative conditions:
 - ✓ they are actual and answers to your economic environment;
 - ✓ they are determined in accordance with your usual accounting principles;

¹

Listed under number 1750 of the list of certified auditors of the "Institut des Réviseurs d'Entreprises – Instituut der Bedrijfsrevisoren".

B.S.T. REVISEURS D'ENTREPRISES S.C.P.R.L. - B.S.T. BEDRIJFSREVISOREN B.B.V.B.A.
88 RUE GACHARDSTRAAT BTE/BUS 16 - 1050 BRUXELLES-BRUSSEL - TEL: 02 346 46 24 - FAX: 02 346 46 32 - E.MAIL: secr@bst-audit.be
T.V.A./B.T.W. (BE) 0444 708 673 - RPM BRUXELLES/RPR BRUSSEL

* AGRÉÉ PAR LA COMMISSION BANCAIRE ET FINANCIÈRE (C.B.F.)
* ERKEND DOOR DE COMMISSIE VOOR HET BANK EN FINANCIËWEZEN (C.B.F.)

** AGRÉÉE PAR L'OFFICE DE CONTRÔLE DES ASSURANCES (O.C.A.)
** ERKEND DOOR DE CONTROLEDIENST DER VERZEKERINGEN (C.D.V.)

- ✓ they have been incurred during the periods covered by the Financial Statement per Activity concerned by this audit certificate;
- ✓ they are recorded in your accounts at the date of the establishment of this audit certificate;
- ✓ they are exclusive of any non-eligible costs which are, as established in the second paragraph of article II.19 of your above mentioned contract with the Commission of the European Communities:
 - ❖ any identifiable indirect taxes, including VAT or duties;
 - ❖ interest owed;
 - ❖ provisions for possible future losses or charges;
 - ❖ exchange losses;
 - ❖ costs declared, incurred or reimbursed in respect of another Community project;
 - ❖ return on capital;
 - ❖ debt and debt service charges;
 - ❖ excessive or reckless expenditure;
 - ❖ any cost which does not meet the conditions established in Article II.19.1 of your contract with the Commission of the European Communities.
- ✓ they have been claimed according to the following additional cost reporting model you are eligible to use according to article II.22 of your above mentioned contract with the Commission of the European Communities;

As such, they are also exclusive of any additional direct eligible costs covered by contributions from third parties defined in indents a) and b) of Article II.23 of your contract with the Commission of the European Communities.

- as declared in the Box 3 of the attached Financial Statement per Activity, the total amount of receipts for the periods covered by this Financial Statement per Activity is equal to **0.00 EUR** (*zero euro*);
- accounting procedures used in the recording of your eligible costs and receipts respect the accounting rules of the State in which you are established as well as permit the direct reconciliation between the costs and receipts incurred for the implementation of the project covered by the EC contract

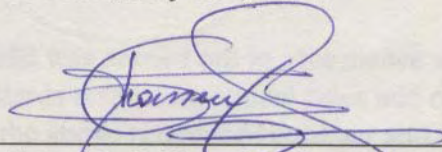
above mentioned and the overall statement of accounts relating to your overall business activity;

- our company is qualified to deliver this audit certificate in full compliance with the second and third paragraphs of article II.26 of the contract;

BST Réviseur d'Entreprises – Bedrijfsrevisoren S.C.P.R.L.-B.B.V.B.A. is listed under number B 158 of the list of audit firms of the “Institut des Réviseurs d'Entreprises – Instituut der Bedrijfsrevisoren”.

- as declared in the Box 6 of the attached Financial Statement per Activity, you have paid for this audit certificate a price equal to **471.90 EUR** (*four hundred and seventy one euro and ninety eurocent*) in which VAT is equal to **81.90 EUR** (*eight one euro and ninety eurocent*).

Brussels, July 12th, 2005.



BST Réviseurs d'Entreprises – Bedrijfsrevisoren S.C.P.R.L. – B.B.V.B.A.,
represented by
Tony GROESSENS,
Certified auditor.

Form C - Model of Financial Statement per Activity for an Integrated Project

(to be completed by each contractor)

Type of instrument	Integrated Project	Type of Action (if necessary)	N.A.
Project Title (or Acronym)	COGNIRON	Contract n°	002020
Contractor's Legal Name	Gesellschaft für Produktionssysteme GmbH		
Legal Type	GmbH		
Contact Person	Dr. Heinrich Vähning	Telephone	+49 711 68 71 06 41
Telecopy		E-mail	
Cost model used (AC/FC or FCF)	FCF	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat Rate of 20% of Direct costs
Period from	01.01.05	To	30.06.05

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) no

If Yes, please provide the following information

Third Party 1 (Y1)	Legal Name		Cost model used	
Third Party 2 (Y2)	Legal Name		Cost model used	
Third Party 3 (Y3)	Legal Name		Cost model used	
Third Party 4 (Y4)	Legal Name		Cost model used	

If necessary add another Form C.

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;

- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

	Type of Activity												
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)		
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	
Direct costs							20.847,22					20.847,22	
<i>Of which subcontracting</i>							1.566,00					1.566,00	
Indirect costs							3.856,24					3.856,24	
Adjustments to previous period(s)							2.900,00					2.900,00	
Total costs							27.603,46					27.603,46	

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.
If a receipt is not allocated to an activity

		Type of Activity											
		Research and Technological Development / Innovation (A')		Demonstration (B')		Training (C')		Management of the Consortium (D')		Other Specific Activities (E')		Total (F') = (A')+(B')+(C')+(D')+(E')	
		Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0		

4- Declaration of interest generated by the pre-financing (in €)

To be completed only by the coordinator.

Did the pre-financing (advance) you received by the Commission for this period earn interest? (Yes / No)

If yes, please indicate the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €).

27.603,46

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No) yes

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No) yes

If No, what are the periods covered by this(those) audit certificate(s) ? From - To

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm: Kullen, Müller, Zinser Treuhand GmbH Cost of the certificate: 1.566,00 €

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1 : Legal name of the audit firm Cost of the certificate

Y2 : Legal name of the audit firm Cost of the certificate

Y3 : Legal name of the audit firm Cost of the certificate

Y4 : Legal name of the audit firm Cost of the certificate

If necessary add another Form C.

Total (Z) = (X) + (Ys)

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7- Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor

- Conversion rate of the date of incurred actual costs? (YES / NO) no

- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO) no

Third Party(ies) (if necessary)

Third Party 1 (Y1)

- Conversion rate of the date of incurred actual costs? (YES / NO)

- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	
Third Party 2 (Y2)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	
Third Party 3 (Y3)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	
Third Party 4 (Y4)	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	

If necessary add another Form C.

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible for the work	Name of the duly authorised Financial Officer
	Prof. Dr. Erwin Prassler	Dr. Heinrich Vähning
	Date	Date
	22.08.2005	22.08.2005
	Signature	Signature

KMZ TREUHAND GMBH
AMUNDSENSTRASSE 6 · 71063 SINDELFINGEN

TELEFON (0 70 31) 8 63 - 9

PERSÖNLICH/VERTRAULICH

GPS Gesellschaft für
Produktionssysteme GmbH
Project Management & Technologie Transfer
Nobelstraße 12

70569 Stuttgart

24. August 2005 WZ/BK/as
Telefon 07031/863-702
FAX 07031/863-799
e-mail: bernd.koenig@k-m-z.de

We, Kullen Müller Zinser Treuhand GmbH, established in 71063 Sindelfingen represented for signature of this audit certificate by Dr. Wolfgang Zinser, managing director, hereby certify that:

- we have conducted an audit relating to some information declared in your Financial Statement per Activity attached to this audit certificate and presented to the Commission of the European Communities under contract Integrated Project, The Robot Cognitive Companion, COGNIRON, 002020 for the following period January 2005 - June 2005.
- We confirm that our audit was carried out in accordance with generally accepted auditing standards respecting ethical rules and on the basis of the relevant provisions of the above referenced contract and its annexes.


The above mentioned Financial Statement per Activity was examined and all tests of the supporting documentation and accounting records deemed necessary were carried out in order to obtain reasonable assurance that, in our opinion, based on our audit:

- the amount of the total eligible costs EUR 27.603,46 (twenty seven thousand and six hundred and three) you declared in the Box 2 of the attached Financial Statement per Activity is complying with the following cumulative conditions:
 - ✓ they are actual and answers to your economic environment;
 - ✓ they are determined in accordance with your usual accounting principles;
 - ✓ they have been incurrent during the periods covered by the Financial Statement per Activity concerned by this audit certificate.
 - ✓ they are recorded in your accounts at the date of the establishment of this audit certificate;

- ✓ they are exclusive of any non-eligible costs which are, as established in the second paragraph of article II.19 of your above mentioned contract with the Commission of the European Communities:
 - ❖ any identifiable indirect taxes, including VAT or duties;
 - ❖ interest owed;
 - ❖ provisions for possible future losses or charges;
 - ❖ exchange losses;
 - ❖ costs declared, incurred or reimbursed in respect of another Community project;
 - ❖ return on capital;
 - ❖ debt and debt service charges;
 - ❖ excessive or reckless expenditure;
 - ❖ any cost which does not meet the conditions established in Article II.19.1. of your contract with the Commission of the European Communities.
- ✓ they are represented according to the following cost reporting model full cost flat rate reporting model (FCF) you are eligible to use according to article II.22 of your above mentioned contract with the Commission of the European Communities:
 - as declared in the Box 3 of the attached Financial Statement per Activity, the total amount of receipts for the periods covered by this Financial Statement per Activity is equal to EUR 0,00 (zero);
 - as declared in the Box 4 of the attached Financial Statement per Activity, the total amount of interests yielded by the pre-financing you received by the Commission of the European Communities for the periods covered by this Financial Statement per Activity is equal to EUR 0,00 (zero);
- accounting procedures used in the recording of your eligible costs and receipts respect the accounting rules of the State in which you are established as well as permit the direct reconciliation between the costs and receipts incurred for the implementation of the project covered by the EC contract above mentioned and the overall statement of accounts relating to your overall business activity;
- our company is qualified to deliver this audit certificate in full compliance with the second and third paragraphs of article II.26 of the contract;

- as declared in the Box 6 attached Financial Statement per Activity, you have paid for this audit certificate a price equal to EUR 1.566,00 (one thousand five hundred sixty six) in which VAT is equal to EUR 216,00 (two hundred sixteen)
The costs of our certificate to EUR 1.566,00 will incur after 30.06.2005.

Sindelfingen, 24. August 2005



- Dr. Wolfgang Zinser -
Wirtschaftsprüfer
Steuerberater

Links

- COGNIRON website : www.cogniron.org
- COGNIRON Wiki : www.cogniron.org/wiki
(access to some pages restricted to project members only)
- COGNIRON review 2 pages (project deliverables and Periodic Activity Report) :
www.cogniron.org/review2/index.html (access restricted to the project reviewers, the European Commission and the project members)