

Activity report

for the full project period: from 1st November 2004 – 31st January 2007

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1.0 Travel and meetings

1.1 Table of all meetings and consultations during the project time

	Time	Participant	Task	Location
Kick of meeting	10/2004	All partners	Starting signal	Munich - Germany
Work Meeting	11/2004	ITC- KEKO	Manufacturing of micro parts	Zuzenberg - Slovenia
Consultation	11/2004	EURO - BUTE	Discussion about cooperation	Budapest - Hungary
Electronica fair	11/2004	KEKON	Information Visit	Munich - Germany
GZS Seminar	11/2004	KEKON	Seminar on EU Co financing Projects	Ljubljana - Slovenia
Consultation	12/2004	EURO-UNI Gödöllő	Discussion about materials	Gödöllő - Hungary
Work Meeting	01/2005	ITC - FWB	Framework for the injector	Oberndorf - Germany
Consultation	02/2005	EURO-BUTE	Design concept of EMCI boards	Budapest - Hungary
Information's meeting	03/2005	ITC-BUTE-EURO	EMCI PCB board and test vehicle	Budapest - Hungary
Consultation	04/2005	EURO-BUTE	Sample production	Budapest-Hungary
Work Meeting	04/2005	ITC - TUI	Physical Details for the Injector	Ilmenau – Germany
Work Meeting	04/2005	ITC - FWB	Test run and further specification	Oberndorf – Germany
Breakpoint meeting	04/2005	BUTE-TUI	Contact issue of the EMCI parts	Ilmenau - Germany
Consultation	04/2005	EURO-UNI Gödöllő	Discussion about materials	Gödöllő-Hungary
Work Meeting	05/2005	ITC - FAPS	Problems of the EMCI Automation	Nürnberg – Germany
Visit	05/2005	EURO-Albacomp	Survey of possible market	Székesfehérvár-Hungary
Consultation	05/2005	EURO-BUTE	Sample production	Budapest-Hungary
Breakpoint Meeting	05/2005	BUTE – TUI	Contact issue of the EMCI Parts	Ilmenau – Germany
Work Meeting	06/2005	FAPS - TUI	Automation of the injector	Ilmenau - Germany
Visit	07/2005	EURO-Balluf	Survey of possible market	Veszprém-Hungary
Consultation	08/2005	EURO-BUTE	Design concept of EMCI boards	Budapest - Hungary
Information's meeting	08/2005	EURO-BUTE	Reliability aspects and tests	Felsőtárkány - Hungary
Information's meeting	08/2005	ITC-BUTE	Results of the liability tests of EMCI connections	Budapest - Hungary



Visit to IJS	08/2005	KEKON	Discussion on technical cooperation and research	Ljubljana - Slovenia
Consultation	08/2005	KEKON	Visit Equipment Manufacturer	Salzburg –Austria
Consultation	09/2005	EURO-BUTE	Design concept of EMCI boards	Budapest - Hungary
Midterm Meeting	09/2005	All partners	Midterm Report and formulation	Munich - Germany
Consultation	11/2005	EURO-BUTE	Design concept of EMCI boards	Budapest - Hungary
Breakpoint meeting	12/2005	All partners	New findings and continuation	Budapest - Hungary
Work Meeting	04/2006	ITC - BUTE	Design possibilities of the EMCI board	Eger - Hungary
Consultation	05/2006	BUTE-TUI	Contact issue of the EMCI parts	St-Marienthal - Germany
Information's meeting	05/2006	BUTE-KEKON	Component design for EMCI boards	Terme Catez - Slovenia
Consultation	06/2006	EURO-BUTE	Design concept of EMCI demonstrator	Budapest / Eger - Hungary
Work Meeting	07/2006	ITC -FWB	Discussion about the second prototype of the injector	Oberndorf - Germany
Information's meeting	08/2006	ITC-BUTE-EURO	EMCI PCB board and test vehicle	Budapest - Hungary
Consultation	08/2006	EURO-BUTE	Prototyping of EMCI demonstrator	Budapest - Hungary
Consultation	08/2006	EURO-BUTE	Reliability test aspects and strategy	Felsőtárkány - Hungary
Work Meeting	09/2006	ITC - TUI	Verification of the connection methods	Ilmenau - Germany
Consultation	06/2005	ITC	Interchange with high tech PCB manufacturer	Anaheim – Silicon Valley - USA
Information's meeting	08/2006	ITC-BUTE	Results of reliability tests of EMCI boards	Budapest - Hungary
Consultation	09/2006	EURO-BUTE	Tests on the EMCI demonstrator	Budapest - Hungary
Breakpoint meeting	09/2006	All partners	Schedule for project finalization	Ilmenau - Germany
Management meeting	10/2006	All partners	Financial Situation of the project, Decision about the final Test vehicle	Budapest Hungary
Final Meeting	01/2007	All partners	Discussion of the report results and preparing for the final report	Munich Germany

1.2 Main Meetings in the second reporting period attended by all partners:

10/2004 – Kick off Meeting held in Munich

The Kick off meeting was used for the introduction of all partners and set the tasks for the starting investigations.



Collective of all EMCI Project Partners

09/2005- Midterm meeting held in Munich

The midterm meeting was used for the presentation of the research results of each partner. In this time one of the major concern of the most partners was the capability to produce safe and durable connecting point by using the injection process. This concern was based on the experiences from the test results so far.

12/2005 – Breakpoint Meeting held in Budapest

The Breakpoint Meeting was held in Budapest because of brand new knowledge's regarding the production of new connection points. Since this point was weighted very crucial during the Midterm Meeting it was important for all partners to see the new way and the possibilities provided by a new technology.

09/2006 Breakpoint Meeting in Ilmenau – Germany

This breakpoint meeting was held in University in Ilmenau in order to make a decision about the further development of the project. One of the main tasks was to revue the results from the WP X Connection points. A decision about the design of the demonstrator was made. One very critical point was the financial situation of the project. Some partners claimed, that they have trouble to fulfil the further outstanding tasks if the financial aid from the EU commission will not arrive soon. This situation was than reported to the EU commission. A additional financial reporting period was decided in order to resolve the financial problems.

10/2006 Management Meeting in Budapest – Hungary

Until this time no further financial aid from the EU commission was provided as promised before. So one of our partner (TUI) was forced o lay off peoples from the scientific staff. In this time it was already obvious that not all tasks could be fulfilled as planned. Almost every partner has faced the financial trouble to support this project further. On the other hand each partner had a strong opinion about the results we got so far. In this time it was already clear to see, that a industrial use of the results would have many benefits to the SME partners. The delivery of the demonstrator and the lifetime- and reliability tests became the most important tasks for the remaining time of the project. Except the Partner TUI, which was already forced to lay off the scientific staff, all other partners agreed regardless to the missing financial aid from the EU commission to work until the end of project with the goal to deliver every deliverable based on the contract.

01/2007 Final Meeting Munich Germany

In January 2007 we held the final meeting in Munich. All the results of the project was presented by the partners. The demonstrator could be presented in a fine working manner. Also the final version of the injector as well as a working magazine solution was there to be seen.

Finally the work out of the reports was discussed.

Since the project has produced many valuable results especially for the SME partners the dissemination and use of the results were discussed. The SME partners agreed to work further together in order to introduce the new EMCI process together with the new equipment as soon as possible to the PCB industry.

2.0 Table of travelling costs related to the work packages

Overview of the travel costs related to the work packages									
	ITC	FWB	KEKON	EURO	FAPS	TUI	BUTE		
WP 1	- €	- €	953,42 €	- €	- €	970,28 €	- €	1.923,70 €	
WP 2	- €	- €	947,32 €	- €	- €	741,22 €	- €	1.688,54 €	
WP 3	3.021,49 €	10.508,00 €	390,78 €	- €	- €	1.142,59 €	- €	15.062,86 €	
WP 4	- €	- €	684,23 €	- €	- €	609,93 €	- €	1.294,16 €	
WP 5	- €	- €	- €	565,00 €	- €	421,12 €	1.622,89 €	2.609,01 €	
WP 6	- €	- €	- €	- €	322,01 €	475,14 €	- €	797,15 €	
WP 7	- €	- €	245,66 €	1.150,00 €	- €	- €	226,31 €	1.621,97 €	
WP 8	5.372,69 €	- €	- €	- €	- €	525,91 €	- €	5.898,60 €	
WP 9	9.690,62 €	- €	- €	1.287,94 €	2.002,27 €	257,38 €	1.809,51 €	15.047,72 €	
Total	18.084,80 €	10.508,00 €	3.221,41 €	3.002,94 €	2.324,28 €	5.143,57 €	3.658,71 €	45.943,71 €	
								Planned total:	61.000,00 €

3.0 Work of the steering committee

The Members are:

Dipl.-Ing. Hubertus Hein	ITC
Ing. grad Bernhard Knaeble	FWB
Matjaz Nose	KEKON
Maria Balogh	EURO
Dipl.-Ing. Bernd Zolleis	FAPS
Prof. Dr. Gert Winkler	TUI
Dr. Janos Pinkola	BUTE

In order to save financial resources, the steering committee meetings were held in combination with the regular main meetings.

	Time	Task	Commitments
Kick of meeting	10/2004	Distribution of the tasks between the partners.	- Timeline for the first research results. - Consultation time frames between the partners working on the same WP
Information's meeting	03/2005	Discussion about the processes which interferes with the EMCI process and the determination of possible solutions	- Preparing of a list with additional risk factors
Midterm Meeting	09/2005	General overview of the project results so far. Discussion about the main focuses for the upcoming research work.	- Setting of new time lines for the remaining Work packages - Set up new focuses for the research tasks
Breakpoint meeting	12/2005	Review of the project results - Process risks and benefits - Discussion about the possible future use in the industry	- Adjustments of the tasks closer to industrial use

Information's meeting	08/2006	EMCI PCB board and test vehicle	- Decision about possible EMCI test boards - Decision about possible testing methods -
Breakpoint meeting	09/2006	Financial problems of the project	- Decision about an additional financial reporting period from 01.11.2005 – 31.08.2006 - Distribution of the remaining financial recourses - Abbreviate of the remaining tasks based on the financial situation -
Management meeting	10/2006	Financial Situation of the project.	- The financial aid from the EU commission is still missing - How to proceed the final steps without further financial support by now - Decision about the main tasks which we need to carry out - Information from Partner TUI that research personal has been cut from the project for financial reasons
Final Meeting	01/2007	Discussion of the report results and preparing for the final report	- Decision about the dissemination and use of the results - Tasks for each Partner in order to prepare the final project report

4. Communication

To provide basic information for the public, an internet website for the project has been created. It provides a short project summary, the contact addresses, an intranet-communication platform and a link to the homepage of each individual consortium member.

A dedicated linux-based server for the project has been set-up at FAPS. The design and programming of the homepage for the project has been realized. It can be accessed via the internet. Additionally, an area for internal use was created. A content management system which is accessible for each project partners in their native language with secure data transfer was installed. The maintenance of the homepage and the server is carried out at the institute for the duration of the project as well.