



Technology Transfer in Computing Systems

D4.1: Periodic Project Report 1

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Executive Summary

The major objectives and achievements for the first reporting period of TETRACOM (Sep 2013 – April 2014) were the following:

- *Establishing project management infrastructures:* The TETRACOM Steering Committee (SC) met six times in order to discuss upcoming tasks, to agree on detailed procedures for TTP calls, to appoint TTP proposal reviewers and the Industrial Advisory Board, plan for PR activities, and to resolve any other organizational issues. A Consortium Agreement has been closed, and the required administrative staff has been assigned. Thus, the project is well prepared to meet its objectives from a management viewpoint, to adapt its strategy if needed, and to react quickly on any unexpected problems.
- *Making TETRACOM known to the relevant communities of potential Technology Transfer Project (TTP) proposers:* Via an ongoing series of messages to large mailing lists (incl. HiPEAC), conference presentations, social media like Twitter, and many personal communications, the project and its offerings to the community have been widely advertised. The great acceptance of the first TTI events as well as a high response to the first TTP call indicate that TETRACOM is by now quite well-known in the EU, and clearly also beyond the HiPEAC community.
- *Kicking off a set of initial TTPs:* Four out of eight TETRACOM partners have started initial TTPs with various company partners, while others are currently in the planning phase.
- *Setting up various Technology Transfer Infrastructures (TTIs):* The TETRACOM website is online according to plan and also serves as the major infrastructure for TTP calls and review management. Three well-attended technology transfer workshops with expert speakers have been organized at major conferences. Besides scheduled newsletters, also social networks like Twitter and Facebook are used for regularly communicating up-to-date information on project events.
- *Conducting the first round of public calls for TTP proposals:* The first TTP calls round has been completed with March 31 as submission deadline. A total of 31 TTP proposals were submitted, which is to be considered as a true success, given that the project is relatively new and conceptually experimental. While the proposal evaluation is currently still taking place, it appears that TETRACOM is on a very good path to achieve its final goals of funding 50 TTPs and including 20+ new contractors over its total duration.

List of Acronyms

DoW	Description of Work
IAB	Industrial Advisory Board
Eoi	Expression of Interest
NDA	Non-Disclosure Agreement
PO	Project Officer
SC	Steering Committee
TTP	Technology Transfer Project
TTI	Technology Transfer Infrastructures

List of Partners

RWTH	Rheinisch-Westfälische Technische Hochschule Aachen
UEDIN	University of Edinburgh
UGENT	Ghent University
INRIA	Institut National de Recherche en Informatique et en Automatique
UPISA	University of Pisa
TUD	Delft University of Technology
TUT	Tampere University of Technology
IMC	Imperial College London

Work Package 1: TTP Eol Calls Management

Task 1.1: Calls for TTP Eol's

Duration: M3-M24

Lead contractor: TUT

Further contributors: all

Three calls for TTP Eols ("Expressions of Interest") will be prepared by TUT and UEDIN and be published using communication media like mailing lists, web sites, and leaflets. Each call denotes a particular project phase and thus constitutes one of the milestones MC1-MC3. The other contractors will help in the definition and distribution of Eol calls.

After careful drafting by the Steering Committee (SC) in collaboration with the PO, the first call for TTP proposals (the original term "Expression of Interest" is no longer used here for sake of clarity) has been published on Feb 14, 2014 with the submission deadline set to Mar 31. The following media and channels have been used to announce the call as widely as possible in the computing and embedded systems community:

- HiPEAC mailing list (approx. 5400 members)
- EMSIG/ARTIST mailing list
- SoCInfo mailing list (approx. 6000 members)
- TETRACOM website (see Task 2.3)
- TETRACOM electronic newsletter
- TETRACOM Facebook and Twitter accounts (see D2.1)
- Public presentations (see Task 2.1)

The SC believes that via these channels the largest part of TETRACOM's potential target community has been reached. In particular, the close link to the HiPEAC network seems very valuable. Obviously, additional distribution media will also be checked for future TTP calls.

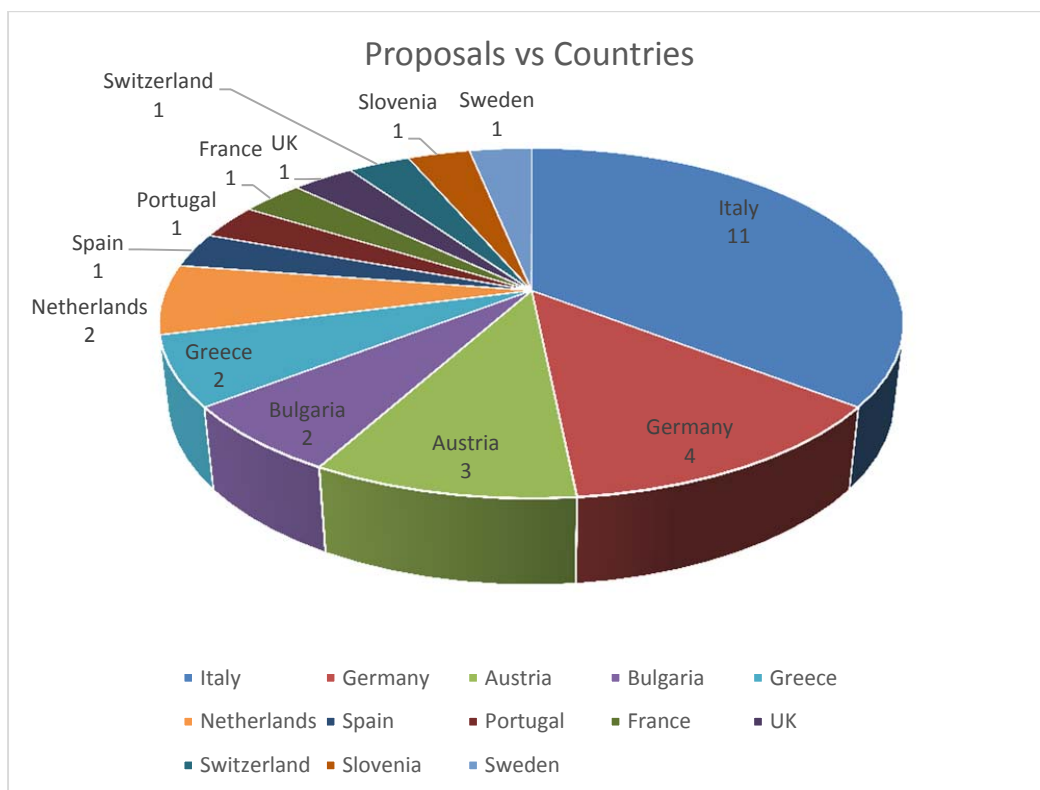
The first call has been distributed as a package of three different documents:

- The call text (see Annex A)
- Instructions for preparing a TTP proposal (see Annex B)
- TTP proposal form (see Annex C)

During discussions of SC members with potential proposers, various possible improvements of the call documents have been identified, which will be reflected in the forthcoming TTP calls. This includes e.g. a clarification about which type of "academic partners" are eligible, what is the precise meaning of "technology transfer" in TETRACOM, how access to TETRACOM funding for granted TTPs works in detail, and how ongoing academia-industry collaborations are best synchronized with formal TETRACOM TTPs.

A total of **31 TTP proposals** have been submitted by the deadline. For this purpose, an online submission facility has been implemented at <http://www.tetracom.eu>. Some submission statistics are summarized below. The actual proposals are (confidentially) available on request.

- The academic proposers originate from 13 different European countries (see chart below), 12 of which are EU countries.
- The company partners are distributed over 10 countries, 9 of which are EU countries.
- 14 proposals involve SME company partners.
- 3 proposals come from new EU member states (Bulgaria and Slovenia).
- 28 proposals come from outside TETRACOM's founding consortium.
- The requested TTP funding from TETRACOM is between 15k and 78k EUR, with an average of approx. 30k EUR.
- The matching company funding is between 4.5k and 170k EUR, with an average of approx. 27k EUR.
- The total requested funding is approx. 924k EUR, the total matching company funding is approx. 1.1M EUR.
- The average proposed TTP duration is 8.6 months.
- 10 of the academic TTP proposers are HiPEAC members. 6 of the submitted project proposals involve company partners that are linked to HiPEAC.



A preliminary budget of 300k EUR (out of 975k EUR totally available for all three calls) has been set aside for the granted TTPs of this first call. The final budget will be decided by the SC according to necessities, such as overall proposal quality and expectations of budget requirements for future TTP calls. The evaluation and granting procedure, whose rules are defined in the Description of Work (DoW), is currently ongoing and will be finished by the end of May. TTP calls number 2 and 3 are planned for Nov 2014 and Aug 2015, respectively.

Task 1.2: TTP Eol's evaluation and selection

Duration: M6-M28

Lead contractor: UEDIN

Further contributors: all

The Steering Committee will select TTPs to be funded according to the procedures and rules described in part B section 2.1.3 and 2.1.4. UEDIN will manage this process. The other contractors will assist in appointing external expert evaluators and will, in their role as SC members, make funding decisions.

The evaluation of all TTP proposals of the first call is currently in progress according to the rules specified in the DoW and is expected to be finished by mid-May 2014. Afterwards, the SC will review the results, rank the proposals, assign individual TTP budgets, and invite successful proposers to join the project consortium. The following persons, operating under NDA, have accepted to serve as evaluators. All of them work voluntarily, so no compensation/honorarium has been demanded so far.

- John Goodacre, Product Marketing, ARM
- Siegfried Benkner, Professor, TU Vienna
- Francois Bodin, CTO CAPS-Enterprise, Professor INRIA
- Axel Jantsch, Professor, KTH
- Wim De Waele, Director, IMinds
- Colin Adams, Commercialisation Director, Uni Edinburgh

Task 1.3: TTP impact analysis and White Paper

Duration: M13-M36

Lead contractor: INRIA

Further contributors: all

Granted and completed TTPs will be systematically monitored for impact and total economic and scientific value (as outlined in part B section 2.1.5), and the results will be reported by INRIA and UEDIN. As another key final outcome, the entire consortium will generate, in consultation with E.C. representatives and invited external experts, a TETRACOM White Paper (D1.5), intended as the successor of the White Paper of the Brussels 2011 TT consultation meeting.

This task is not yet active, as it needs to rely on a first set of completed TTPs. The first TTP impact report (D1.2) is due in Feb 2015.

Work Package 2: TTI Organization and Dissemination

Task 2.1: TT workshops

Duration: M1-M36

Lead contractor: TUD

Further contributors: all

Semi-annual organization of TT workshops at various locations with invited high-profile expert speakers. TUD will manage the organization, while the other contractors will help in inviting speakers and arranging the workshop programs.

Concerning this task, TETRACOM is well ahead of schedule. Already three major workshop or conference session events have been organized during the first 8 project months:

- **Technology Transfer in Computing Systems:** The TETRACOM Approach, HiPEAC Computing Systems Week, Tallinn, Oct 2013, organizers: Rainer Leupers, Koen De Bosschere and Koen Bertels
- **Second Workshop on Transfer to Industry and Start-Ups (TISU),** HiPEAC Conference, Vienna, Jan 2014, organizers: Rainer Leupers, Koen De Bosschere and Koen Bertels
- **Technology Transfer towards Horizon 2020,** Hot Topic Session at DATE, Dresden, Mar 2014, organizers: Rainer Leupers, Norbert Wehn

All events attracted around 40-50 attendees. Details about speakers and agendas are described in Deliverable D2.1 (TTI report 1). The next TT workshop might take place at the HiPEAC Computing Systems Week in Oct 2014.

Task 2.2: Individual consultation service

Duration: M1-M36

Lead contractor: IMC

Further contributors: all

Organization or provision of specific TT consultation, location of appropriate external experts if appropriate. This process will be managed by IMC. The other contractors will assist by providing their respective know-how and expert networks.

As a first step towards the implementation of this service, a website with database (preliminarily hosted at <https://tetracom-service.doc.ic.ac.uk>) has been developed to manage the registration of:

- **experts** together with their respective fields of interest supporting this service, and
- **users** seeking consultation with appropriate experts.

The current system, implemented using Ruby On Rails, and is being linked from the main TETRACOM page. Besides registration of new users and experts, the following functions are also supported:

- search for experts by name or by expertise
- send and receive messages between users and experts

- an on-line “help” guide to its functions

We shall soon: (a) advertise this service to HiPEAC and to other groups which may be interested in and benefit from this service, (b) improve and extend the facilities in this service, such as providing a way for users to provide suggestions to improve this service.

Task 2.3: TETRACOM WWW

Duration: M1-M36

Lead contractor: UPISA

Further contributors: none

UPISA will design and provide maintenance of the project web site. The domain www.tetracom.eu has already been reserved by the coordinator and will be handed over to UPISA upon project start.

The TETRACOM web site can be found at <http://www.tetracom.eu>. Initially hosted by RWTH, its maintenance was handed over to UPISA in Feb 2014. Details of the web site setup and contents are provided in Deliverable D2.1. During March-April 2014 the project home page had 837 visits, and the TTP call information had 356 hits. A systematic analysis via Google Analytics will soon be implemented.

Task 2.4: Newsletter and press releases

Duration: M1-M36

Lead contractor: UGENT

Further contributors: all

UGENT will edit and publish a compact semi-annual TT newsletter. The possibility of integrating this, at least temporarily, as a regular “column” in the existing HiPEAC newsletter will be investigated. Two press releases (D2.5 and D2.6) will be also be generated. The other contractors will contribute to these publications.

The kickoff press release (see Deliverable D2.5 for details) has been launched in January 2014 and has been widely distributed. Following the well-proven HiPEAC model, the SC has decided to replace the semi-annual newsletter schedule by a more flexible, “on-demand” one with shorter newsletters, yet at somewhat higher frequency. Newsletters will be issued any time when a sufficient amount of news has accumulated. The first newsletter has been published in Feb 2014 (see Deliverable D2.1 for details). The next issue is planned for June 2014 after the first round of TTP calls has been concluded.

Task 2.5: TETRACOM main workshop

Duration: M24-M24

Lead contractor: UGENT

Further contributors: all

UGENT will organize the main project workshop (Deliverable D2.4, described in part B, section 1.1.3). The other contractors will by default participate to the workshop and will help defining its program.

This task is not yet active. The SC currently plans to co-locate the main workshop with a major HiPEAC event in fall 2015 for synergy reasons.

Work Package 3: Individual TTPs

In order to ramp up the TTP activities, as agreed in the DoW, SC members are entitled to propose one or two “initial TTPs” themselves with a total budget of 50k EUR outside of the regular TTP calls. So far, the following four initial TTPs have been approved by the SC. The actual proposals are (confidentially) available on request. Other SC members are currently preparing further initial TTPs.

Task 3.1: TTP 1: System-level power estimation for SoC platforms

Proposer: RWTH Aachen

Company partner: Huawei Technologies, USA

Duration: Jan 2014 – Jun 2014

Requested TETRACOM funding: 25k EUR

Industry partner contribution: 170k EUR (cash)

Task 3.2: TTP 2: Software protection of native Android libraries

Proposer: Ghent University

Company partner: Samsung Electronics, UK

Duration: Jan 2014 – Sep 2014

Requested TETRACOM funding: 25k EUR

Industry partner contribution: 60k EUR (cash)

Task 3.3: TTP 3: Design of a digital processor for 3D Hall sensors conditioning in automotive applications

Proposer: Uni Pisa

Company partner: AMS AG, Austria

Duration: Mar 2014 – Nov 2014

Requested TETRACOM funding: 25k EUR

Industry partner contribution: 25k EUR (cash)

Task 3.4: TTP 4: BWAMEM : the most advanced genetic sequencing algorithm

Proposer: TU Delft

Company partner: BlueBee, NL

Duration: Apr 2014 – Jan 2015

Requested TETRACOM funding: 50k EUR

Industry partner contribution: 60k EUR (manpower)

Work Package 4: Project Management

Task 4.1: SC meetings

Duration: M1-M36

Lead contractor: RWTH

Further contributors: all

Organization, hosting, and documentation of the Steering Committee's monthly telco meetings and at least one physical meeting per year by RWTH. A physical kickoff meeting will be organized at RWTH Aachen within 4 weeks after project start. All contractors will by default participate to all SC meetings, except in case unavailability due to urgent other matters. RWTH will also aim at arranging ad-hoc physical meetings on demand as satellite events of major conferences, HiPEAC meetings etc.

The procedure for hosting regular SC meetings is as follows:

1. The next meeting time frame is determined according to necessities induced by the project schedule.

2. The coordinator determines a date where most SC members can attend.
3. The coordinator sends out the agenda proposal one week before the meeting date.
4. The SC meeting takes place, usually via phone and Webex access kindly provided via the HiPEAC network.
5. The coordinator sends out the meeting minutes shortly afterwards.

So far the following SC meetings took place:

1. Sep 23, 2013 (Kickoff meeting in Aachen)
2. Oct 21, 2013 (Webex)
3. Nov 25, 2013 (Webex)
4. Jan 21, 2014 (Personal meeting at the HiPEAC conference in Vienna)
5. Mar 17, 2014 (Webex)
6. Apr 2, 2014 (Webex)

The meeting minutes are confidentially available on request and are also stored in the private section of the TETRACOM web site. The next SC meeting is planned for Mar 13, 2014.

Task 4.2: IAB meetings

Duration: M10-M36

Lead contractor: INRIA

Further contributors: all

Organization, hosting, and documentation of one physical meeting of the SC with the TETRACOM Industrial Advisory Board per year. These meetings will be managed and invited by INRIA. Since the IAB meetings constitute the major reflection points for the entire project strategy, they form milestones MI1-3.

While extensive industrial involvement in TETRACOM is guaranteed by design, the project consortium only consists of academic contractors. To facilitate the establishment and adaptation of long-term TT strategies, and to collect feedback from independent, management-level industry experts, the project relies on a small-scale Industrial Advisory Board (IAB). Note that for sake of independence, IAB members cannot be personally involved in concrete TTPs themselves.

The current IAB is composed of three industry leaders with a unique experience of scientific and technological research transferred into concrete innovations and production environments.

- Dr. Tero Rissa, Director Forward Lab R&D, Nokia.
- Dr. ir. Martijn Rutten, CEO, Vector Fabrics.
- Dr. Matthias Weiss, Manager systems engineering, Intel Mobile Communications, Dresden.

The first IAB meeting will take place in Brussels on September 19, 2014. The three IAB members will meet the SC of TETRACOM and will constitute the major reflection point after one full year of operation. Some TTPs will be nearing completion, and the feedback of the IAB will be particularly useful to drive the impact analysis and preparation of the second call for TTPs.

Task 4.3: Central administration

Duration: M1-M36

Lead contractor: RWTH

Further contributors: all

Management of incoming and outgoing consortium members, contract and amendment handling, consortium agreement handling, financial and cost claims management, communications with E.C. representatives, general project reporting, travel cost reimbursement, organization/preparation of E.C. project review meetings, preparation of deliverables D4.1-D4.3, quality control of all deliverables.

The following administrative subtasks have been carried out in the reporting period:

- **Assignment of project staff:** Dipl.-Ing. Maximilian Odendahl from RWTH's ICE institute assists the coordinator in the day-to-day management tasks. Mrs. Malgorzata Kögerler and Mr. Sebastian Dornieden from RWTH's central administration are responsible for handling all financial and contractual project matters.
- **Negotiation of the Consortium Agreement:** An agreement specifying the partners' mutual rights and duties has been agreed and signed at RWTH Aachen University on July 9, 2013.
- **Deliverables management:** Planning and management of deliverables D2.1, D2.5, and D4.1.
- **EC communication:** RWTH staff participated in the ICT Project Coordinators Day, Mar 13, 2014 in Brussels. The coordinator met the project officer for a 1:1 discussion on project status and strategies on April 8, 2014 in Brussels.
- **Pre-financing:** The pre-financing payment to the TETRACOM consortium has been received by RWTH Aachen and amounted to 1,300,201 EUR after deduction of the beneficiaries' contribution to the Guarantee Funds. After all partners had acceded to the grant agreement (signed by the Commission on July 10, 2013), the pre-financing was distributed by RWTH Aachen to the partners on time for the project period 1.9.2013-1.3.2015. The calculation of pre-financing for each partner was based on the budget distribution planning outlined in the DoW and is summarized below.

Participant	Share	EU Contribution	Prefinancing	Remaining
TTPs	0,488	974.000 €	634.472 €	339.528 €
RWTH	0,156	312.252 €	203.404 €	108.848 €
RWTH + TTPs	0,644	1.286.252 €	837.876 €	448.376 €
UEDIN	0,055	109.889 €	71.583 €	38.306 €
UGent	0,055	109.889 €	71.583 €	38.306 €
INRIA	0,055	109.889 €	71.583 €	38.306 €
Uni PISA	0,048	95.016 €	61.894 €	33.122 €
TU Delft	0,048	95.016 €	61.894 €	33.122 €
TUT	0,048	95.016 €	61.894 €	33.122 €
Imperial	0,048	95.016 €	61.894 €	33.122 €
Σ	100%	1.995.983 €	1.300.201 €	695.782 €

Project Schedule Overview

The table below summarizes all major project deliverables, milestones, and events. Activities in green have been already completed. Activities in yellow are about to be completed soon or are currently in the planning phase. At this point, no major deviations from the original work plan specified in the DoW are foreseen.

item	month	due date	responsible	actual date
project start	1	Sep, 2013	RWTH	Sep 1, 2013
kickoff meeting	1	Sep, 2013	all	Sep 23, 2013
SC physical meeting 1	1	Sep, 2013	RWTH	Sep 23, 2013
D2.5: Kickoff press release	3	Nov, 2013	UGENT	Jan 6, 2014
TETRACOM WWW online	3	Nov, 2013	UPISA	Dec 18, 2013
MS1: Call for TTPs 1	6	Feb, 2014	TUT	Feb 14, 2014
TT workshop 1	6	Feb, 2014	TUD	Oct 8, 2013
Newsletter 1	6	Feb, 2014	UGENT	Feb 4, 2014
D4.1: Periodic project report 1	8	Apr, 2014	RWTH	Apr 28, 2014
D2.1: TTI report 1	9	May, 2014	UGENT	Apr 28, 2014
TTP granting call 1	9	May, 2014	UEDIN	
Review 1	9	May, 2014	all	May 13, 2014
D3.1-x: Initial TTP abstracts	12	Aug, 2014	all	
MS4: IAB meeting 1	12	Aug, 2014	INRIA	Sep 19, 2014
TT workshop 2	12	Aug, 2014	TUD	Jan 21, 2014
Newsletter 2	12	Aug, 2014	UGENT	
SC physical meeting 2	13	Sep, 2014	RWTH	
MS2: Call for TTPs 2	15	Nov, 2014	TUT	
D1.1: TTP calls statistics 1	18	Feb, 2015	UEDIN	
D1.3: TTP impact report 1	18	Feb, 2015	INRIA	
D2.2: TTI report 2	18	Feb, 2015	UGENT	
D4.2: Periodic project report 2	18	Feb, 2015	RWTH	
TTP granting call 2	18	Feb, 2015	UEDIN	
TT workshop 3	18	Feb, 2015	TUD	
Newsletter 3	18	Feb, 2015	UGENT	
Review 2	21	May, 2015	all	
D2.4: TETRACOM main workshop	24	Aug, 2015	UGENT	
MS3: Call for TTPs 3	24	Aug, 2015	TUT	
MS5: IAB meeting 2	24	Aug, 2015	INRIA	
TT workshop 4	24	Aug, 2015	TUD	
Newsletter 4	24	Aug, 2015	UGENT	
SC physical meeting 3	25	Sep, 2015	RWTH	
TTP granting call 3	27	Nov, 2015	UEDIN	
TT workshop 5	30	Feb, 2016	TUD	
Newsletter 5	30	Feb, 2016	UGENT	

D1.2: TTP calls statistics 2	36	Aug, 2016	UEDIN	
D1.4: TTP impact report 2	36	Aug, 2016	INRIA	
D1.5: TETRACOM white paper	36	Aug, 2016	all	
D2.3: TTI report 3	36	Aug, 2016	UGENT	
D2.6: Final press release	36	Aug, 2016	UGENT	
D3.x-3.y: New TTP abstracts	36	Aug, 2016	new partners	
D4.3: Periodic project report 3	36	Aug, 2016	RWTH	
MS6: IAB meeting 3	36	Aug, 2016	INRIA	
TT workshop 6	36	Aug, 2016	TUD	
Newsletter 6	36	Aug, 2016	UGENT	
Review 3	38	Oct, 2016	all	

Annex A – First call for TTP proposals

TETRACOM – 1st Call for TTP Proposals

Partial Funding for Academia-Industry Technology Transfer Projects

in Computing Systems

Call deadline: March 31, 2014

Total budget in this call: 300,000 EUR

TETRACOM (Technology Transfer in Computing Systems) is a Coordination Action funded by the European Commission under FP7 to coordinate and support technology transfers from academia to industry.

A funded Technology Transfer Project (TTP) can typically last 3-12 months, and the total budget can span from 20k to 200k EUR, of which TETRACOM can pay up to 50% (10k to 100k EUR). TETRACOM funding is only for academic beneficiaries. The company partner will either co-fund the transfer project at the university or invest its own work – or both. The expected average size of the TETRACOM grant will be EUR 25k euros. All the costs need to be eligible costs as per EU FP7 project rules, e.g., no value added tax included. A public summary of the activity will be published after the TTP.

The applicant organization is the university legal entity. A Participant Identification Code (PIC) in the European Commission database will be needed for including the university as a new beneficiary in the TETRACOM consortium for funding the TTP. To find out or register your organisation's PIC code, please refer to the Participant Portal (http://cordis.europa.eu/fp7/pp-pic_en.html).

Only companies with business activities and/or physical sites in European Union or Associated States are eligible as technology transfer partners. However, the actual collaborating company department does not necessarily have to be located itself in these countries. The university and the company are responsible for entering into a bilateral contract on the technology transfer. The partnership to TETRACOM consortium cannot be established before the existence of such a contract has been proven.

The TTP proposals will be evaluated by external experts under a Non-Disclosure Agreement (NDA). The steering committee of TETRACOM will perform the final approval or rejection of the proposals and decide the exact budget assignment for accepted proposals under confidential conditions.

See attached instructions and proposal template for more details. The proposals have to be submitted via the TETRACOM web site no later than on **March 31, 2014**. The funding period after proposal acceptance and subsequent TETRACOM consortium extension is expected to start at earliest on July 1, 2014.

Further information:

TETRACOM web site: www.tetacom.eu

TETRACOM Coordinator: Prof. Rainer Leupers, RWTH Aachen, Germany, email: leupers@ice.rwth-aachen.de

Other TETRACOM steering committee members: Koen Bertels (TU Delft), Koen De Bosschere (Ghent University), Albert Cohen (INRIA), Luca Fanucci (University of Pisa), Wayne Luk (Imperial College London), Jari Nurmi (Tampere University of Technology), Michael O'Boyle (University of Edinburgh).

Annex B – TTP proposal instructions

TETRACOM TTP Proposal

INSTRUCTIONS FOR COMPLETING THE PROPOSAL

Call deadline: 31/3/2014

Administrative data

Project title

Give the project a descriptive title. An acronym may also prove helpful.

Project duration (months) and preferred project start date

The project can typically last 3-12 months. Do not give an earlier preferred starting date than July 1, 2014. The review will take approximately 4-6 weeks after the call deadline and the paperwork to include the new partners another 4-6 weeks.

Applied TETRACOM funding to the university (euro)

TETRACOM funding is only for academic beneficiaries. The company partner will either co-fund the transfer project at the university or invest its own work – or both. TETRACOM can fund technology transfers with 10k to 100k EUR, but bear in mind that the average size of the grant will be EUR 25k. Overbudgeting may lead to rejecting the proposal. The funding is typically limited to 50% of the total technology transfer budget including the company partner's contribution.

Example: University U agrees on a technology transfer with company C for a total value of 150k EUR. C pays 25k EUR in cash to U and allocates own manpower equivalent to 50k EUR. Thus, C provides 50% of the total budget. U can apply for a TETRACOM contribution for the remaining 50%, i.e. any amount between 10k EUR and 75k EUR in this example.

Matching company funding (EUR) and type (cash / manpower)

The company will co-fund the technology transfer project at the university with real money. Company funding share below 50% has to be well justified in the plan. In case of SMEs, the investment may be partially or completely done by personnel resource allocation within the company. This must be calculated in the budget section, and value of the work certified by a company financial officer before the TTP start.

Applicant organization

The applicant organization is the university legal entity. A Participant Identification Code (PIC) in the European Commission database will be needed for including the university as a new partner in the TETRACOM consortium for funding the TTP. To find out or register your organisation's PIC code, please refer to the Participant Portal (http://cordis.europa.eu/fp7/pp-pic_en.html). The registration process may take some time, so it should be started as soon as possible if the PIC code has not been registered before.

Contact (Scientist in charge at the university)

The person responsible for the technology transfer at the university (scientist in charge) and her/his contact information.

Technology transfer company partner

The name of the company to which the technology is to be transferred and who is co-funding this activity.

Company partner legal entity established in (city, country)

The city and country of the company legal entity. Only companies with business activities and/or physical sites in European Union or Associated States are eligible. However, the actual collaborating company department does not necessarily have to be located itself in these countries.

Bilateral contract on technology transfer between the university and company

The university and the company are responsible for entering into a bilateral contract on the technology transfer. The partnership to TETRACOM consortium cannot be established before the existence of such a contract has been proven.

TETRACOM may announce the technology transfer

A public abstract will be published at the end of the funded technology transfer in any case. If given the permission, TETRACOM project may publish the title and partners of the TTP already when the funding has been approved.

Technology transfer plan

Expected impact

Describe the expected added value from the technology transfer. Both academic impacts such as probability of publications and incorporation of start-ups, and economic impacts such as the number of users of the technology inside the company, quality improvement of products and processes (e.g. efficiency, performance, power consumption), potential for subsequent sustainable partnership, potential for enabling new products, expected impact on the business and profits of the company.

Maximum length in proposal: 1 page

Score: 1-5

Threshold: 3

Weight: 2

Transfer concept, objectives and work plan

Describe the background, such as the possible patent applications or granted patents on the technology and the maturity of the technology, the type of actions, e.g., exclusive purchase, non-exclusive licensing of (what?) rights, transfer of knowledge, development of prototypes, proof-of-concept, transfer of software copyrights, etc.

Identify the main objectives and lay out a work plan for achieving them. Specify what is done by the university and what by the company partner.

Maximum length in proposal: 1 page

Score: 1-5

Threshold: 3

Weight: 1

Resources and budget

Human resources to be allocated to carry out the work. Possible other resources needed and their availability. Justification of other direct costs than salaries. Contributions of the company partner financially and/or as "in kind" efforts.

Calculate the project costs at the university, assuming:

Salary costs incl. social overheads, necessary travel, purchase of materials and consumables, and

7% general overhead on the above costs.

All the costs need to be eligible costs as per EU FP7 project rules, e.g., no value added tax included.

Maximum length in proposal: 0.5 pages

Score: 1-5

Threshold: 1

Weight: 1

Partner profiles

Capabilities of the partners to carry out the transfer, their track record on previous technology transfer activities or other collaboration, and the match between the technology provided and the company profile.

Maximum length in proposal: 0.5 pages

Score: 1-5

Threshold: 3

Weight: 1

TTP proposal selection and granting rules

The TETRACOM Steering Committee (SC) will check all incoming proposals for eligibility. The eligible proposals will be evaluated by a sufficient number of independent experts, who will be appointed by the SC for each TTP call, By default, each proposal shall be reviewed by two independent experts, normally involving one academic and one industrial expert. The independent experts will, after signing an NDA, evaluate the proposals remotely w.r.t. the above criteria and will report their results to the SC. The SC will prepare a ranking list of proposals according to their total weighted average scores. Proposals with a sub-threshold score in at least one criterion after averaging the individual reviewer scores will be excluded.

In case of ties, the following secondary ordering criteria shall apply:

1. Higher average score on "Impact"
2. Higher average score on "Soundness of concept" (concept, objectives, work plan)
3. TTP involves a new EU member state
4. TTP involves an SME

Finally, the SC will decide on the funding level for each proposal in top-down fashion according to the ranking list. proposals will be assigned budgets and will be accepted until the total call budget is exhausted. The budget assignment by the SC will be guided by the evaluation results but can be adapted according to necessities.

Annex C – TTP proposal form

TETRACOM TTP Proposal

Please consult the instructions before completing this proposal form

Call deadline: 31/3/2014

Administrative data

Project title

Project duration (months) and preferred project start date

Requested TETRACOM funding to the university beneficiary (EUR)

Matching industry partner funding (EUR) and type (cash / manpower)

Applicant organization (university beneficiary)

Organization name Department Address Country VAT nr. PIC code	
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Contact person (Scientist in charge at the university)

Last name, first name Telephone E-mail	
--	--

Technology transfer company partner name

Company partner legal entity established in (city, country)

Bilateral contract on technology transfer between the university and company

<input type="checkbox"/> Has been signed (date):
<input type="checkbox"/> Will be signed approx. by (date):

TETRACOM may announce the technology transfer

- Once the funding has been approved
- At the end of the funding period when the compulsory public abstract is due

Technology transfer plan

Expected impact

(max. 1 p.)

Transfer concept, objectives and work plan

(max. 1 p.)

Resources and budget

(max. ½ p.)

Partner profiles

(max. ½ p.)