

EIRICT Newsletter

2013-09

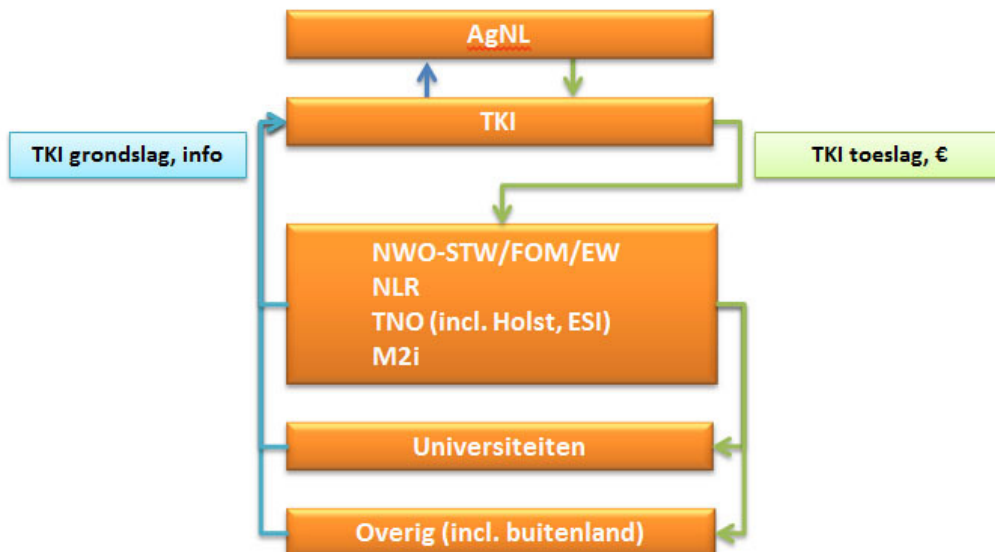
In this newsletter:

- Information regarding the topsector HTSM
- Results from the FP7, ARTEMIS and ITEA calls
- Upcoming events in Horizon 2020
- EIT ICT Labs
- Data Science Center Eindhoven
- Cyber Physical Systems

For more information, see also the EIRICT website, <http://eirict.win.tue.nl>.

Developments around HTSM

With a total of 9 topsectors, the topsector HTSM, <http://www.topsectoren.nl/hightech>, <http://www.hollandhightech.nl/htsm/>, represents one of the 9 strengths the Dutch government has selected. Government, scientists and industry/SMEs join forces to maintain a competitive position; each topsector is managed by a top team, for HTSM led by Amandus Lundqvist.



Picture taken

from http://www.hollandhightech.nl/htsm/Innovatie/TKI_projecten/Hoe_besteedt_het_TKI_HTSM_de_TKI_toeslag_2013

HTSM has developed a total of 14 roadmaps, <http://www.hollandhightech.nl/htsm/Innovatie/Roadmaps>, plus two roadmaps for enabling technology: nanotechnology and ICT. This ICT roadmap, as well as several other HTSM roadmaps (e.g. security, embedded systems, semi-conductor equipment, lighting, healthcare, automotive, photonics, mechatronics and components & circuits) are relevant to the EIRICT ICT community. The vision includes a human capital agenda.

Execution of the roadmaps is foreseen through tax reduction, programs by NWO/STW and other national agencies and a premium by the government on research investments, the so-called TKI premium. Starting point is the 'innovation contract' in which public and private partners make their investments explicit. The topsector HTSM founded the 'TKI HTSM' which collects the TKI premiums from Agentschap NL by submitting an overview of eligible projects; subsequently, this money is used to fund scientific institutes and set up new calls (see the figure above). These can be general HTSM calls or roadmap-specific calls. As a rule, the project proposals in such calls must have a significant amount of in cash and in kind contribution from industrial partners; this makes them eligible for new TKI premiums. The required percentage of industrial contribution is being reduced a bit from last year.

It is not always easy to see which organizations are involved in the context of topsector HTSM as the names are somewhat similar. Holland High Tech, <http://www.hollandhightech.nl/htsm/>, is a branding and pr organization for HTSM. In addition, High Tech NL, <http://www.hightechnl.nl/>, combines the former Point-One organization and the former High Tech Systems Platform. It is a branch organization for companies and research institutes of which also TU/e is a member.

Open calls and activities

Within the 'Open Technologieprogramma' of STW, there is an open call on Embedded Systems: <http://stw.nl/nl/content/samenwerkingsprogramma-stw-ew-embedded-systemen> .

HTSM has several meetings per year geared towards networking and updating on activities in the topsector. Roadmap committees within HTSM yearly update the roadmaps. TU/e is represented in many of these teams. The ICT roadmap is managed by IPN, <http://www.ictonderzoek.net/>, with industry feedback in the [ICT raad](#). Recently, IPN published a so-called scientific answer to the ICT roadmap which examines the scientific questions resulting from the roadmap in more detail. This publications is expected to appear shortly through the IPN website.

Contact us if you want to know more about TU/e representations in specific HTSM roadmap committees; also, let us know if you are active in one of them and you think we may not know.

On Thursday, September 12, a networking event took place with the aim to have some orientation on Horizon 2020 topics and calls in relation to HTSM roadmaps. From HTSM perspective flagships (<http://cordis.europa.eu/fp7/ict/programme/fet/flagship/>), JTIs and PPPs are most important, and there is significant influence on agenda's. Also NWO is contributing to these programs. JTIs/PPP's relevant for

ICT include Electronic Components and Systems (ECSEL), Energy Efficient buildings, Future Internet, Robotics, Photonics, High Performance Computing, and Green Vehicles. ECSEL includes the former JTI's ARTEMIS and ENIAC.

A brief update on the human capital agenda and the SME subsidy program was given as well. We expect that some results and presentations will be published on the site of High Tech NL. It was not particularly clear what the outcomes of the day were and how the follow-up will be done.

Results from FP7, ARTEMIS and ITEA calls

The ranking of ARTEMIS has been published.

Rank	Proposal name
1	ALMARVI
2	EMC2
3	DEWI
4	R5-COP
5	CRYSTAL BULB
6	ICC
7	COMIT
8	WE SPEAR2
9	FRESHEYE
10	ES4ICS
11	ECOSYSTEM
12	ACCORD

TU/e is present in #2 until #6 and more; however, funding in NL (7 M€) will be enough only for #2 and part of #3. Project ICC (#6) had broad TU/e involvement but did not make it unfortunately.

ITEA had a call for pre-proposals and is soliciting full project proposals until October 31st; recently, the CATRENE and ENIAC calls closed with significant TU/e contributions (mainly from EE).

The last ICT call, ICT call 11, resulted in 4 out of 24 proposals being honoured. All 4 proposals were with EE participation.

As indicated above, as of next year, ARTEMIS and ENIAC (and EPOS) will be combined into a new JTI named ECSEL: Electronic Components and Systems for European Leadership.

Upcoming events in Horizon 2020

The second version of the work programme 2014/2015 has become available in a small circle for review. In addition, information and brokerage events have been scheduled.

- On September 26 we will have an EIRICT lunch meeting, introducing the program to interested parties.
- On November 6-8 there is a general kick-off event in Vilnius: ICT-2013, <http://ec.europa.eu/digital-agenda/en/ict-2013>. If you go there, please let us know. The advice is to go with a pre-prepared plan. For this event, organizations can propose a session in advance. However, for the current year this should have been done by the end of April. If you have ideas in this direction please let us know so we can help in doing that next year.
- On November 12 there is a start event in Amsterdam, organized for Dutch parties by AgentschapNL, <http://www.agentschapnl.nl/actueel/evenementen/meld-aan-startevenement-horizon2020>. Please let us know when you go there.

A point of attention is the change in funding. Make sure you understand the implications when you join a project. More information will be provided at the EIRICT lunch meeting on September 26th.

EIT ICT Labs

The work program for 2014 is under review; proposals have been given A(funded), B(next in line, probably funded), C(probably not funded) and D(not funded) rankings, which proposers should know by now. The procedure is now that proposals are updated based on reviewers' feedback and re-submitted. This leads to an amended EIT ICT Labs business plan, which is discussed and approved by EIT in December. Only at that time the outcomes of the B and C ranked proposals become formally known. In principle, nothing is certain until that date.

As is probably known, EIT ICT Labs' focus is on education and on making value out of research results. Regarding education, significant steps have been made in the educational programs with the start of the MSc programs last year. In this second year we now also receive students who spend their second year here, while our first year's MSc candidates went to other universities for their second year. In addition, the Doctoral School Agreement was signed in the summer making it possible to enroll PhD students in this program. These students will receive support for mobility to other nodes and will take courses on entrepreneurship and will partly work embedded in industry, for which EIT will fund the extra time required for this.

Regarding value from research, TU/e Innovation Lab now collaborates more closely through sharing a business developer. Furthermore, the 'regular' projects precisely have this flavor and goal.

EIT ICT Labs funding is expected to increase in the coming years within Horizon 2020 to a level of 100M-130M per year; for 2014 a budget of ~65M is expected. TU/e has an increasing share in this funding. However, efficiency of proposals, clarity of the procedures and matching with the particular EIT context

remains points of attention. EIRICT has an ongoing discussion with Philips on this topic which should lead to joint, better suited proposals.

TU/e will propose a new member in the Eindhoven board of ICT Labs. We hope that details are available by the next newsletter.

Data Science Center, Eindhoven (DSC/e)

One of the EIRICT themes is Open Data, Big Data. It is also one of the themes in the ICT roadmap of HTSM. Supported by founding fathers of M&CS, IE&IS, EE and ID the new Data Science Center will be launched with an opening symposium on December 2, 2013. See the [Invitation](#) on the next page; [Registration](#) can be made at <http://www.tue.nl/dsce/sympos>.

Cyber Physical Systems

CPS is a topic of growing importance. We are forming a community around this theme with the intent to formalize it in due time in order to bundle TU/e strength and to work and execute on a vision and roadmap. We see as backbone and starting point for this the STW Perspectief program on this topic as well as some recent European projects (e.g. the ARTEMIS ACCUS project). At this time we aim at 4-6 lunchmeetings per year with this aim of community formation and informing each other. The next meeting is scheduled for October 11, with a presentation of Michel Reniers on his CSA project on Cyber Physical Systems of Systems. Some brainstorm about how to go forward with the topic in TU/e will follow the presentation.

Johan Lukkien
Peter van Otterloo



PRE-ANNOUNCEMENT and INVITATION

Launch Symposium: **Turning Data into Value**

Auditorium TU/e, Eindhoven
9:00-17:00, December 2nd, 2013

TU/e Technische Universiteit
Eindhoven
University of Technology

With great pleasure we announce the launch event of the Data Science Center Eindhoven (DSC/e). The DSC/e aims at becoming an internationally leading research and educational facility in the rapidly developing and compelling field of Data Science. The symposium offers an exciting program on Data Science that addresses a variety of relevant topics, including:

- State-of-the art in Data Science (Visual Analytics, Mining, Social Computing, etc.)
- Industrial trends in Data Science
- The scientific program of DSC/e
- Poster presentations demonstrating research results applied in practice

Participation is free of charge, but registration is required.
Please register at <http://www.tue.nl/dsce/sympos> (limited availability)



Prof. dr. Emile Aarts
Dean of the Department of
Mathematics and Computer Science

Prof. dr. Wil van der Aalst
Professor of Information Systems
and Scientific Director of DSC/e

Where innovation starts