

EIRICT Newsletter: 2016-11

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National developments in the ICT Domain

Introduction

On 6 April 2016, EIRICT organized a lunch meeting to provide information on various programs that will affect research and innovation in the ICT domain and its funding. These programs comprised:

- The Dutch National Research Agenda (Nationale Wetenschaps Agenda, NWA for short)
- Roadmap ICT in Topsector HTSM and its execution
- Forum Smart Industry

We gave an update of the status of discussions in these programs, elaborated on relation between these programs and indicated likely developments in the near future. The [presentation given at this lunch meeting](#), which provides many details, can be found on the EIRICT website. In the following paragraphs we provide an update.

The Dutch National Research Agenda NWA

As an initiative from the Dutch government, the NWA was the result of a more-or-less democratic process to make an inventory of research questions that would form the basis for a National Research Agenda. This process yielded [140 Cluster Questions](#), which have been clustered in 16 “Routes”. These Routes constitute the instrument for the NWA to turn scientific, societal and economic questions into researchable themes. For each Route the “Kenniscoalitie”, the platform appointed to coordinate the NWA process, has organized Route Workshops. In the 6 April 2016 EIRICT lunch meeting, we indicated that these Route Workshops were ongoing and would each result in a summary of the research challenges in the scope of that Route and a suggested action- and investment plan. In the process, the number of routes has grown to 25. Each Route has submitted [its results and plan](#) to the NWA by 1 June 2016.

On 15 september the “[Portfolio voor Onderzoek en Innovatie](#)” (in Dutch; Portfolio for Research and Innovation) and an “[Investeringsagenda voor Onderzoek en Innovatie](#)” (in Dutch; Investment Agenda for Research and Innovation) with [an accompanying letter](#) (in Dutch) has been offered by the Kenniscoalitie to the minister and secretary of state of Education, Culture and Sciences (OCW) and to the minister of Economic Affairs (EZ). The Portfolio for Research and Innovation is a 116-page document, describing the outcomes of each of the 25 Routes in the NWA. Various Route reports describe the essential need for a reinforcement of the research, resources and facilities in a broad spectrum of “traditional” disciplines to enable a successful execution of the programs described in the multidisciplinary Routes.

In the Investment Agenda, the Kenniscoalitie makes a plea for a structural extra investment of €1B per annum for the execution of the plans formulated in both documents. Half of this extra investment shall be devoted to areas where major transitions are facing us (energy agreement, integration of fugitives, adaptation to climate change, future proof care innovations, etc.). This part of the investment agenda has been given the name “Spankracht” (Tension). The other half of the funds requested for the Investment Agenda shall be utilized for a broad reinforcement of research,

innovation and cooperation and in resources and facilities to support this (ICT infrastructure, living labs, etc.). That part of the investment agenda is called “Draagkracht” (Strength). In the accompanying letter to the ministers and secretary of state the Kenniscoalitie asks the Dutch government not to wait with a decision on the proposed investment agenda till a new government is in charge in 2018. The Kenniscoalitie argues that short term implementation is required in order to at least maintain the international position of The Netherlands in research and to avoid missing important economic opportunities.

The majority of the Routes indicate a dependence on the ICT domain for the realization of their ambitions, while some Routes even mention that new breakthroughs in ICT will be required. Since there is no Route in the Portfolio that explicitly addresses the ICT domain in broad sense, maintaining and extending our knowledge and capabilities in this domain will have to be supported by the Draagkracht part of the Investment Agenda.

According to [the website of the NWA](#), various members of the Kenniscoalitie had already attuned their individual agendas on the Investment Agenda and the Portfolio for Research, prior to its launch. On 5 September, the VSNU published its agenda “[De Digitale Samenleving](#)” (in Dutch). An English version of this document is also available: “[The Digital Society](#)”.

Topsector HTSM

The Topsectoren policy for research and innovation of the Dutch government continue to be of interest for research in the ICT domain. Similar to the NWA Investment Agenda, many roadmaps produced under the umbrella of the Topsectoren make reference to the importance of ICT for realizing developments foreseen in these roadmaps. The most important Topsector for the ICT domain is HTSM. Since it was recognized that ICT is also a key technology domain for many Topsectoren other than HTSM, the Minister of Economic Affairs Henk Kamp nominated in 2014 René Penning de Vries as Boegbeeld for the ICT domain, giving the ICT domain more or less a Topsector status in its own right. For more information and news on this development please refer to the section “Dutch Digital Delta” below.

The Topsector HTSM unites quite a number of technology and application domains. For each domain a [roadmap](#) is available. These roadmaps are important for participation in various research and innovation programs with a national funding component, since RvO asks for a justification of the support of the Topsector roadmaps in or with proposals submitted in these programs. Most roadmaps date from 2014 or 2015. An exception is the [Roadmap Smart Industry](#), which was published in May 2016 and contains an overview of the technological challenges for smart industry.

Dutch Digital Delta

The Topteam ICT, brought together by the Boegbeeld ICT René Penning de Vries, communicates with its stakeholders and other interested parties via its [Dutch Digital Delta website](#). On 1 June 2015, Team Digital, led by René Penning de Vries, offered the [KIA ICT 2016-2019](#) to Henk Kamp, the Minister of

Economic Affairs. It contained an action plan for the ICT domain. For more information about the details of this document, please refer to the [EIRICT Newsletter 2015-08](#).

Dutch Digital Delta – Big Data

The Big Data action line in KIA ICT 2016-2019 led to the establishment of the [Commit2Data initiative](#), chaired by Boudewijn Haverkort of Twente University, which is shaped as a PPP. In 2015 Commit2Data published its [Commit2Data White Paper](#). Various themes are elaborated in Commit2Data, each of which should lead to [one or more calls for proposals](#), usually coordinated by STW and/or NWO. [The current themes in Commit2Data](#) are:

- [Energy Transition](#)
- [Smart Industry](#)
- [Data Handling](#)

Some calls have already passed:

- [Joint eScience and Data Science](#) (Closure: 17 May 2016)
- [Data-driven Research for Banking & Insurance](#) (Closure: 26 May 2016)
- [Open call Smart Industry en Big Data](#) (Closure: 30 June 2016)

The following calls are in preparation and will open in the near future:

1. [Call System integration and the future energy system](#) (In preparation; Opening expected end 2016)
2. [Energiesysteemintegratie en Big Data](#) (in Dutch; Energy System Integration and Big Data) (Opening expected December 2016; NWO just published an [announcement for this call](#))

Dutch Digital Delta – Blockchain

Blockchain, originally the data structure behind the bitcoin network, is expected to have much wider applications in a variety of domains. Based on this expectation, the Dutch Minister of Economic Affairs, Henk Kamp, has given TopTeam ICT an additional assignment to investigate the potential of blockchain technology for the Dutch economy. To this end Dutch Digital Delta has created a [Public Private Blockchain Coalition](#). One of the initiatives of this platform is an investigation into the creation a competence center for blockchain technology, that shall support the government and the business sector in the implementation of blockchain technology in various business process. This competence center will be called BC3 (Blockchain Core Competence Center). In a recent roadmap event of Holland High Tech, [Ad Kroft](#) (INSEIT), [presented](#) the potential structure and initial membership of BC3.

Dutch Digital Delta – Legacy

Another initiative of TopTeam ICT, together with its partners INSEIT and NWO, is an investigation into the feasibility of the creation of an [IT Legacy Coalitie](#) (IT Legacy Coalition) in the Netherlands. The goal of this coalition of the business sector, IT suppliers and science partners is to develop improved methods to inventarise, analyse and control IT legacy. So far, a [flyer on the Legacy Coalitie](#) and

a [foundation document, entitled “Legacy Coalitie NL”](#) (in Dutch), have been published by TopTeam ICT.

3TU.NIRICT → 4TU.NIRICT

3TU.NIRICT Community Day

On 21 March 2016 the annual 3TU.NIRICT community day took place in De Flint in Amersfoort. Topics on the agenda comprised:

- The national ICT agenda
- Sharing best practices and content
- Round table discussions about the three focus areas of Board of 3TU.NIRICT
 - Community building
 - Research community funding
 - Joint education

At the 3TU.NIRICT website (now 4TU.NIRICT website) you can find [a more detailed report](#) about this lively meeting.

3TU.Federatie → 4TU.Federatie

Recently, the 3TU.Federation, the overarching cooperative federation of the 3TU's in the Netherlands, has transitioned into 4TU.NIRICT, by the joining of Wageningen University (WUR) to the 4TU.Federation. As a consequence, also 3TU.NIRICT has become 4TU.NIRICT. Some meetings have taken place for members of the ICT community at the three TU's to get to know their counterparts at WUR and vice versa. In the most recent meeting of 4TU.NIRICT in Wageningen, research staff from the ICT-related departments at WUR presented their organization, their research programs and facilities. Options for mutual cooperation and joint participation in national and international research and innovation programs are currently explored further.

New people & structure @ DSC/e

The Data Science Center Eindhoven (DSC/e) welcomes new faces and implements an improved governance structure. This also gives room to sharpen the mission and way of working of DSC/e.

People

Earlier this year, Mark Mietus has started as Director Operations of DCS/e, leading the Center together with founding father Wil van der Aalst, who remains the Scientific Director (0.2 FTE). Recently Henriette de Haas has been (temporary) added to team for secretary / communication support (0.5 FTE). She is filling in for our fixed support (Patricia Knubben) due to illness. Because of the shift in responsibilities, Joos Buijs has taken the role of program manager (0.5 FTE), responsible for the restart and continuation of our research programs. Finally Harold Weffers (PDO office) is managing the Data

Science flagship with Philips on behalf of the DSC/e. Many new faces, giving new ideas and energy to the Center.

Structure

The governance structure of the DSC/e has been changed somewhat, to bring DSC/e more in line with other Centers and Strategic Areas. A high level steering committee has been installed, consisting of the deans of the most involved departments. Next to this a DSC/e board is being created. A senior member per department has agreed to join this board that will be setting the directions for the Center (names to be formalized by the steering committee). Research is the primary focus of the Center, organized through a number of research programs. In these research programs scientists from several groups and departments are brought together to discuss common interest and themes. This should lead to more internal and external visibility, better common research proposals and improved cooperation with industry and other partners. Finally on an operational level DSC/e is at the start of a serious overhaul and update of its website. Currently information from all research groups at TU/e involved in DSC/e is being collected for this purpose.

Mission

It is important to position the DSC/e clearly, so internal and external stakeholders know what they can expect and when to contact DSC/e. To this end, DSC/e has defined a short and simple mission with three main topics:

- Providing **one single face** to the outside world through DSC/e, thus making data science research and expertise at TU/e more recognizable both to companies and to (semi-)governmental institutions.
- Providing selectively support for obtaining **research funding**, primarily through the research programs mentioned above.
- Acting as a **Meeting place**, leading to surprising cooperation and ideas.

Feel free to contact Mark Mietus (m.mietus@tue.nl, mobile: 06 4492 0997) for any questions.

The ITEA Program

ITEA 3 Call 2 (2015-2016)

This call opened on 22 September 2015. The call process of this ITEA 3 call was a two-stage process, followed by a national funding application, if the proposal had obtained the ITEA Label. The deadline for the submission of the Project Outline (PO) was on 30 October 2015 and that of the Full Project Proposal (FPP) on 9 February 2016.

All five project proposals that TU/e was involved in in the FPP phase, received the ITEA 3 label. In the application for national funding at RvO in The Hague in May 2016, 3 of these five projects received funding: [PS-Crimson](#) (TU/e contact: Peter de With), [EWatch](#) (TU/e contact: Alessandro di Bucchianico) and [APPSTACLE](#) (TU/e contact: Nicola Zannone). The project [Digital Backbone](#), coordinated by Philips (TU/e contact: Peter van Otterloo/Joost Gabriëls), did not receive funding from RvO. A re-submission to RvO is foreseen in the spring 2017 round of ITEA 3 funding at RvO.

The three projects that received funding are likely to start in the fall or towards end of 2016 since partners in other countries are often still involved in the funding process, run by their national authorities. All-in-all, ITEA 3 Call 2 has been quite successful for TU/e.

ITEA 3 Call 3 (2016-2017)

[The call process of ITEA 3 Call 3 \(2016-2017\)](#) is a two-stage process, followed by a national funding application, if the proposal has obtained the ITEA Label. The deadline for the submission of the PO was 27 October 2016 and that of the FPP is 14 February 2017.

ITEA 3 Call 3 has opened on 13 September 2016, which coincided with the Project Outline (PO) preparation meeting in Paris, France on 13-14 September. At this meeting, more than 90 project ideas were presented. During and after the brokerage meeting quite a number of project ideas have merged and/or or are no longer pursued. TU/e is involved in a number of project proposals, for which a PO is currently under review.

ITEA 3 is a nationally funded, industry-driven R&D program. RvO, a subsidiary of the Ministry of Economic Affairs that takes care of managing and funding innovation programs, has a number of eligibility criteria for funding projects. Though SME's are welcomed by RvO as participant in a national sub-consortium of ITEA 3 projects, participation of the Dutch branch of a large industry is highly desirable, if not required. Projects that receive the ITEA 3 label will have to submit national funding applications in each of the participating countries to compete for the national available ITEA 3 funding. For Call 3 the national funding applications follow in the period Q4 2016 – Q2 2017. Awarded projects are expected to start in Q2-Q3 2017.

ITEA 3 Call 4 (2017-2018)

ITEA 3 Call 3 will be followed in 2017 by ITEA 3 Call 4. No information is available yet about this call or the associated brokerage event. This is expected in the September 2017 time frame. If you are interested to participate in an ITEA 3 project, or would like to initiate one, you may [contact us](#) for advice and support.

The ECSEL program

ECSEL-2015-1 and ECSEL-2015-2

In the [EIRICT Newsletter 2015-08](#) we reported on the status of the two ECSEL 2015 calls. The Project Outline (PO) phase had yielded 61 proposals in the ECSEL-2015-1 (RIA) call and 15 proposals in the ECSEL-2015-2 (IA) call.

In the RIA call, the subsequent Full Project Proposal (FPP) phase led to the selection of 8 project proposals for funding, and one on the reserve list. TU/e was involved in 3 of these 8 selected project proposals:

Project acronym	Full project title	Project coordinator	TU/e contact	Selection rank
3DAM	3D Advanced Metrology and materials for advanced devices	FEI (NL)	Erwin Kessels	2
DEPHI4LED	From Measurements to Standardized Multi-Domain Compact Models of LEDs	PHILIPS LIGHTING B.V.	Wil Schilders	6
ASTONISH	Advancing Smart Optical Imaging and Sensing for Health	PHILIPS MEDICAL SYSTEMS NEDERLAND BV	Peter de With	8

In the IA call, the FPP phase led to the selection of 5 project proposals for funding, and also one on the reserve list. TU/e was involved in 1 of these 5 selected project proposals:

Project acronym	Full project title	Project coordinator	TU/e contact	Selection rank
ENABLE-S3	European Initiative to Enable Validation for Highly Automated Safe and Secure Systems	AVL LIST GMBH (AT)	Johan Lukkien	3

ECSEL projects are partially funded by the EU and partially by national governments. The links provided with the project acronyms lead to the CORDIS project information documents of the EC, giving also information on the total project costs and the EU funding levels, as well as on the share of each partner in the project. The links provided with the full project titles lead to a project summary for each project. [The ECSEL 2015 calls have been quite successful for the Dutch high tech sector](#). In 9 of the 15 projects that were selected for funding, Dutch participants are involved. Thanks to close cooperation with the regional high tech industries in programs like ECSEL, also TU/e has been quite successful in the ECSEL 2015 calls: in 4 of these 9 projects with Dutch participation, TU/e is involved, with a total TU/e funding (JU + NL) of 2.3 M€ for these 4 projects.

Recently, it has become clear that the national part of the funding for knowledge institutes in the awarded ECSEL projects from the 2015 calls, has been granted by the Secretariaat TKI HTSM rather than by RvO directly. Through this measure, RvO could allocate a higher national funding budget to Dutch participants in projects awarded by the ECSEL JU than originally budgeted by RvO. This granting of funds through the Secretariaat TKI HTSM rather than through RvO comes with [some specific conditions](#), e.g. on reporting, that are particular to Topsector HTSM. Whether this way of taking care of the funding of knowledge institutes through the TKI funds will be applied also in the future, and maybe also in other programs in the funding of which RvO is involved in, is not known yet.

ECSEL-2016-1 and ECSEL-2016-2

The ECSEL-2016 calls were kicked-off with a double brokerage meeting in Strasbourg, France, on January 26-27th (organized by ARTEMIS-IA) and January 27-28th (organized by the ECSEL JU). The deadline the submission of project outlines was on May 24th, 2016.

The Project Outline stage resulted in 41 evaluated proposals in the ECSEL-2016-1 RIA call and 15 evaluated proposals in the ECSEL-2016-2 IA call. This constituted a reduction by 1/3rd in the number of proposals in the RIA call vs. a stable number of proposal in the IA call. The [total EU funding for ECSEL](#) projects in 2016 remains the same w.r.t. the 2015 level (M€ 150), but there is a slight shift in funding from IA to RIA projects. At the same time, the average total EU funding requested by IA projects has almost doubled from the 2015 to the 2016 (M€ 10.9 vs. M€ 20.1), while the average total EU funding requested by RIA projects has slightly gone down (M€ 5.5 vs. M€ 5.1). These factors combined have caused the oversubscription rate for EU funding to go down substantially for RIA proposals (5.7 vs. 3.2), while the oversubscription rate for IA proposals has almost doubled (1.8 vs. 3.5). Thereby the oversubscription rate for IA proposals has become higher than that for RIA proposals in 2016, leading to more competition among IA proposals than in 2015.

The vast majority of consortia that submitted a PO in one of the two ECSEL 2016 calls received an invitation to prepare and submit a Full Project Proposal. The FPP phase for the ECSEL 2016 calls had its deadline for submission on 20 September 2016. There was a substantial involvement of TU/e (participation in 11 proposals in the RIA call and in 5 proposals in the IA call). The deadline for submission of FPP's was on 20 September 2016.

The ECSEL program in 2017 and onwards

The [ECSEL Joint Undertaking](#) has been established for the implementation of the Joint Technology Initiative on 'Electronic Components and Systems for European Leadership' for a period up to 31 December 2024. Each year a round of calls will be organized. While we are still awaiting the results of the evaluation of the 2016 proposals, preparations for 2017 have already started. In 2017 ECSEL will organize its fourth round of calls.

Before the merge of the JU's ARTEMIS, ENIAC and EPoSS into the ECSEL JU, was customary that, at the start of a call of a JU, a focused brokerage meeting was organized jointly by that JU and the association representing the actors within the scope of that JU. After the merge into the ECSEL JU, the three associations (EPoSS for JU EPoSS, AENEAS for JU ENIAC and ARTEMIS Industry Association for ARTEMIS), previously connected to the individual JU's, still exist and continue to represent their members. In this context these associations nowadays organize consortium building events for their members and other interested parties, next to the annual consortium building event, organized by the ECSEL JU. Another trend is that the consortium building events, organized by these associations, do not uniquely focus on the ECSEL JU calls, but also on other European research and innovation programs (e.g. H2020, EUREKA, EUROSTARS). Therefore, when considering to participate in a brokerage event, it is important to obtain prior information whether there will be sufficient participation of prospective consortia, targeting the calls that you are interested in, and whether the event will cover your areas of research interest.

At the recent [ARTEMIS Technology Conference 2016](#), held 4-5 October 2016 in Madrid, the first brokerage event for ECSEL 2017 was held (next to a brokerage for calls in H2020 within the scope of the ECSEL JTI).

On 22-23 November the [AENEAS Consortium Building Days \(CBD\) 2016](#) will be held in Rome, Italy, coinciding with the European Nanoelectronics Forum 2016, taking place on 23-23 November in the same location. The consortium building event is organized with the objective of building partnerships along the Electronics Value Chain independent of the potential funding tool. Programmes within scope of this event are ECSEL, EUREKA ICT Clusters, EUROSTARS and H2020.

On 31 January and 1 February 2017, ARTEMIS Industry Association organises the [ARTEMIS Brokerage Event 2017](#) in Brussels. On day one the focus of this event will be specifically on Embedded & Cyber-Physical Systems within ECSEL 2017 Calls, while on day two collaborations in a broader scope such as the H2020 Calls are considered.

EIRICT monitors and frequently participates in these consortium building events. If you are interested in participating in an ECSEL project, [please contact us](#) for guidance and support in joining a project and consortium.

Horizon 2020

H2020 updates

The implementation and execution of the H2020 evolves through a continuous flow of calls for proposals, driven by an extensive structure of bi-annual work programs, organized in three main pillars: Excellent Science, Leadership in Enabling and Industrial Technologies (LEIT) and Societal Challenges. At the same time, there are regular updates of H2020, both in terms of structure and in content. At the end of July, almost all 2016-2017 Work Programs have been reviewed and updated. These are accessible and downloadable through [this link on the H2020 Participant Portal](#).

Also structural adaptations have been defined and implemented. An important structural adaptation has been the creation of Cross-Cutting Activities (Focus Areas), designed to provide a stronger integration across different parts of the H2020 program, with a focus on key areas of political relevance and societal concern:

- Automated Road Transport
- Digital Security
- Energy Efficiency
- Competitive Low-carbon Energy
- Blue Growth
- Sustainable Food Security
- [Industry 2020 in the Circular Economy](#) (also comprising the calls for Factories of the Future - FoF)
- [Internet of Things](#)
- [Smart and Sustainable Cities](#)

[A separate work program](#) (17. Cross-cutting activities (Focus Areas)) has been devoted to the **highlighted** Focus Areas. Clearly all these Cross-Cutting Activities (Focus Areas) provide ample opportunity for participation and contributions from various ICT domains.

Public-private partnerships (PPPs)

Another development in H2020 has been the creation of Public-private partnerships (PPPs). PPPs are vehicles to implement technological roadmaps in particular areas and achieve leverage of private funding. They are implemented either through Joint Technology Initiatives (JTIs) using Joint Undertakings, or through dedicated calls for proposals and topics (contractual PPPs).

The LEIT part of Horizon 2020 includes the following PPPs:

Joint Technology Initiatives (JTI's):

- The Joint Technology Initiative on Electronic Components and Systems for European Leadership (ECSEL)
- The Joint Technology Initiative on Bio-Based Industries (BBI).

These two JTIs develop their own work programs, which are decided upon and implemented through their specific governance mechanisms and rules. For ECSEL, see the chapter on this JTI above in this newsletter.

Contractual PPPs:

- Factories of the Future,
- Energy-efficient Buildings,
- Sustainable Process Industries (SPIRE),
- Advanced 5G Network Infrastructure (5G),
- Robotics,
- Photonics,
- High Performance Computing,
- Big Data
- Green Vehicles
- Cybersecurity

For each of these cPPP's there exists a contractual arrangement between the European Commission, representing the public side, and the respective European industrial research and innovation associations, representing the private side of each cPPP. Strategies and work programs for the cPPP's are developed in the European industrial research and innovation associations. Strategic research and innovation agendas are usually accessible through the links to the private association representing a PPP (see links in the table below). In order to participate in these processes a company or an institute has to become a member of this private association. TU/e has become a member of most of these cPPP associations. The table below gives an overview of the current cPPP's in H2020, while also the TU/e contact person has been listed. If you are interested in any of these cPPP's, please refer to the relevant contact person.

These contractual PPPs are implemented in the work H2020 LEIT program through specific topics in various calls in the H2020 LEIT program. Robotics, Photonics and 5G are exclusively covered under the ICT part, while Factories of the Future, Energy Efficient Buildings and SPIRE are cross-thematic,

resulting in some of their topics to be placed elsewhere in the work program. A list of cPPP topics in the H2020 Work Program 2016-17, is provided in [a separate document](#).

The topics for the 5G PPP in this document are still listed under the Future Internet PPP. However, the Future Internet PPP, already created during the FP7 program, is currently in its final phase (it ended in September 2016) and has been succeeded partly by the 5G PPP.

PPP	PPP Acronym	Private Association	Private Association Acronym	TU/e contacts
5G Infrastructure	5G PPP	5G Infrastructure Association	5G IA	Ton Koonen
Big Data Value	BDV	Big Data Value Association	BDVA	Mark Mietus; Milan Petkovic (VP of BDVA)
Energy-Efficient Buildings	EeB	Energy Efficient Building Committee of ECTP	E2B Committee	Gerard Verschuren/Olaf Adan
Factories of the Future	FoF	European Factories of the Future Research Association	EFFRA	Gerard Verschuren/Ivo Adan
European Green Vehicles Initiative	EGVI	European Green Vehicles Initiative Association	EVGIA	Ben Rutten
High-Performance Computing	HPC	European Technology Platform for High-Performance Computing	ETP4HPC	TU/e not a member
Sustainable Process Industry through Resource and energy Efficiency	SPIRE	European Association for managing and implementing the SPIRE PPP	A.SPIRE	Jaap Schouten / Martin Timmer
Photonics	Photonics	Photonics 21 Association	Photonics ²¹	Kevin Williams
Robotics	Robotics	euRobotics AISBL	euRobotics	Gerard Verschuren
Cybersecurity	Cybersecurity	European Cyber Security Organisation	ECISO	TU/e not (yet?) a member / Sandro Etalle

Contractual PPP's in the H2020 LEIT program, their private associations and the TU/e contacts.

Membership of the private part of a cPPP is not free, though the membership fees for academic institutions are often fairly moderate. Participation in a cPPP enables to be involved at the forefront of the topical area covered by the cPPP, in particular regarding base developments, standard setting and industrial applications. The strategic visions and work plans developed by the private part of a cPPP will ultimately land in relevant work plans in H2020, in particular in the LEIT pillar of H2020. Often, consortia that aim to respond to the resulting call topics have already been created during the planning work in the cPPP. In this way, being an active member in a cPPP may provide opportunities to join such consortia. On the other hand, all calls for project proposals in a cPPP are part of the H2020 calls (almost always in the LEIT pillar), and hence are public calls. Membership to the private part of the cPPP is not required.

Horizon 2020 LEIT-ICT Calls 2016

The H2020-ICT-2016-1 call for proposals was published on 14 October 2015. The total budget for this call was M€ 460.7, distributed over 20 call topics from the [H2020-LEIT-ICT Work Program 2016-2017](#) and over various project types: RIA, IA, CSA and PCP (Pre-Commercial Procurement). The deadlines for this call were on 12 April 2016. A total of 1072 proposals were submitted. Upon evaluation, 547 proposals were given a rating above threshold, i.e. these proposals were considered of sufficient

quality to compete for the available budget. The total funding request of these 547 proposals was M€ 1941.7, implying an oversubscription factor of 4.2 with respect to the available budget.

TU/e participated in 26 of the submitted proposals. In 4 of these proposals TU/e acted as coordinator. In the evaluation process, 19 of the 26 proposals were rated above threshold. Only 4 of these were funded, 2 ended on the reserve list, while 13 proposals ended below the available budget.

Open and forthcoming ICT-related calls in H2020

DG Connect of the EC has launched new calls for proposals at the [ICT Proposer's Day 2016 in Bratislava, Slovakia on 26 and 27 September](#), a networking event organized by DG Connect for promoting European ICT Research & Innovation and focusing on the Horizon 2020 Work Programme for 2016-17. This event was followed by the [Digital Assembly](#) on 28-29 September.

The programme of the ICT proposer's Day included both Information sessions, organized by DG Connect, as well as networking sessions with presentations about specific H2020 calls, prospective consortia, interested parties in certain call topics, etc. All current call information per topic and presentation by interested parties are available via the [ICT Proposer's Day Link](#). If you intend to prepare a proposal in the upcoming H2020 call round or to join a consortium, you are advised to browse the H2020 participant portal via this link.

[The reference documents page](#) of the H2020 Participant Portal provides access to downloadable documents with the latest versions of the collection of 2016-2017 work programs in H2020. From the EIRICT website, you can open or download [A guide to ICT-related activities in WP2016-17](#) in H2020, listing all open and upcoming calls in the H2020 main program. Here you can also open or download the [list of call topics in the H2020 2016-2017 program that are linked to various cPPP's](#). To find or search for calls in a particular area of the programme please use [overview of Calls for Proposals](#) on the H2020 Participant Portal.

EIT Digital

EIT ICT Labs 2016 Activity Plan

Recently, the Partner Grant Agreement 2016 between EIT Digital and TU/e has been signed. In the [EIRICT Newsletter 2015-08](#), we reported on the participation of TU/e in the 2015 Activity Plan of EIT Digital, both in the Technical Innovation and Business Development parts and in the Technical- and Entrepreneurship Education parts. The TU/e participation in the 2016 plan shows a marked reduction with respect to the 2015 plan, especially in the Technical Innovation and Business Development parts. One of the reasons for this may be that these activities are aimed at valorisation of already existing research results rather than at performing research for new results. Also the fairly short time horizon of these activities may play a role. Another trend is a shift in the balance of funding: the proportion of funding by EIT Digital vs. co-funding by TU/e is decreasing. This shift is a consequence of the new funding rules of EIT Digital, introduced in 2016. The two pictures below provide the current view on the TU/e participation in EIT Digital's Activity Plan 2016.

Activity		Task		Partner Contact	EIT Funding	Co-Funding, Non-EIT
13184-16	Business Development Accelerator	13184-A1606	Business Growth Netherlands	Groot Rouwen, F.H.J. (Frank) frank.grootrouwen@eitdigital.eu	-66,666.66 €	
13184-16	Business Development Accelerator	13184-A1610	Leading the EIT Digital Accelerator	Dijk, P.E.M. van (Martine) p.e.m.v.dijk@tue.nl	-46,400.00 €	
14609-16	Professionals Fit to Perform	14609-A1609	Task 2: Product Development: Wrist Worn device, Fleet Management System, F2P Apps and Services	Terken, J.M.B (Jacques) J.M.B.Terken@tue.nl	-72,389.00 €	-61,929.00 €
14609-16	Professionals Fit to Perform	14609-A1610	Task 3: Business: Business Development, Migration and Communication	Terken, J.M.B (Jacques) J.M.B.Terken@tue.nl	-35,373.00 €	-30,260.00 €
15024-16	GameBus: social health games	15024-A1601	1. Commercial B2B Launch of GameBus	Van Gorp, P.M.E. (Pieter) p.m.e.v.gorp@tue.nl	-128,547.00 €	-59,289.00 €
15108-16	Better nights, fresh days	15108-A1603	Validation	Sidorova, N. (Natalia) n.sidorova@tue.nl	-75,000.00 €	-25,000.00 €
16147	RAMSES	16147-A1603	Bringing RAMSES to market	Oldenziel, R. (Ruth) r.oldenziel@tue.nl	-41,250.00 €	-4,000.00 €
16218	MMG-S - Modular Microgrid Services	16218-A1602	Sizing simulation and optimization of system configuration	Nguyen, P.H. (Phuong) p.nguyen.hong@tue.nl	-70,000.00 €	-23,750.00 €
Year Total					-535,625.66 €	-204,228.00 €

TU/e participation in the Technical Innovation and Business Development parts of the Activity Plan 2016 of EIT Digital.

Activity		Task		Partner Contact	EIT Funding	Co-Funding, Non-EIT
11494-16	Master School Management and Master School Office	11494-A1606	Target Recruitment, marketing material, student ambassador support		-2,500.00 €	
13192-16	Scholarship program	13192-A1606	Tuition Fee Settlement Spring	Adriaans, G.E.R.I. (Inge) g.e.r.i.adriaans@tue.nl	-135,804.00 €	-150,001.00 €
13192-16	Scholarship program	13192-A1607	Tuition Fee Settlement Fall	Adriaans, G.E.R.I. (Inge) g.e.r.i.adriaans@tue.nl	-121,872.00 €	-244,396.00 €
14358-16	EIT Digital Open Online Education Program	14358-A1601	3 schools and X-KIC LMS	Alvarez Ramirez, R. (Raquel) r.alvarez.ramirez@tue.nl	-260,000.00 €	-59,500.00 €
14358-16	EIT Digital Open Online Education Program	14358-A1603	Blended Master Program in Embedded Systems (@Coursera)	Beemt, A. van den (Antoine) a.a.j.v.d.beemt@tue.nl	-319,000.00 €	-51,750.00 €
14358-16	EIT Digital Open Online Education Program	14358-A1604	X-KIC business development, content, and education innovation	Klabbers, M.D. (Martijn) m.d.klabbers@tue.nl	-10,000.00 €	-2,500.00 €
15429-16	Education Office	15429-A1602	I&E improvement	Reymen, I.M.M.J (Isabelle) I.M.M.J.Reymen@tue.nl	-10,000.00 €	-2,500.00 €
15429-16	Education Office	15429-A1607	I&E and Technical Major Integration	Reymen, I.M.M.J (Isabelle) I.M.M.J.Reymen@tue.nl	-10,000.00 €	-2,500.00 €
15490-16	EIT Digital Professional School	15490-A1611	PLS: Learning Platform Innovations	Klabbers, M.D. (Martijn) m.d.klabbers@tue.nl	-18,000.00 €	-2,000.00 €
15490-16	EIT Digital Professional School	15490-A1612	PLS: Online & Mobile Learning production Support	Klabbers, M.D. (Martijn) m.d.klabbers@tue.nl	-31,500.00 €	-3,500.00 €
16195	Summer Schools	16195-A1601	Digital Wellbeing Summer School		-3,500.00 €	
16444	Activity Consolidation, Development and Sustainability	16444-A1601	program consolidation and development	Klabbers, M.D. (Martijn) m.d.klabbers@tue.nl	.00 €	.00 €
16444	Activity Consolidation, Development and Sustainability	16444-A1602	industrial grounding and preincubation	Klabbers, M.D. (Martijn) m.d.klabbers@tue.nl	.00 €	.00 €
16444	Activity Consolidation, Development and Sustainability	16444-A1603	Outreach and sustainability	Klabbers, M.D. (Martijn) m.d.klabbers@tue.nl	.00 €	.00 €
16448	EIT Digital Master School Programmes	16448-A1603	DSc Program Coordination	Heidari, F (Farideh) f.heidari@tue.nl	-97,500.00 €	-24,375.00 €
16448	EIT Digital Master School Programmes	16448-A1606	ES Education	Luttik, B. (Bas) s.p.luttik@tue.nl	-75,000.00 €	-32,500.00 €
16448	EIT Digital Master School Programmes	16448-A1616	SDE Education	van Dongen, B.F. van (Boudewijn) b.f.v.dongen@tue.nl	-10,000.00 €	
16448	EIT Digital Master School Programmes	16448-A1618	DSc Programme structural development	Heidari, F (Farideh) f.heidari@tue.nl	-40,000.00 €	-5,000.00 €
Year Total					-1,144,676.00 €	-580,522.00 €

TU/e participation in the Technical- and Innovation and Entrepreneurship Education parts of the Activity Plan 2016 of EIT ICT Labs.

EIT Digital 2017 Activity Plan

By this time, the development of the EIT Digital 2017 Activity Plan is already quite progressed. On 15-16 March 2016, a pre-call meeting for presenting and preparing activity proposals for 2017 has been organized by the Co-Location Center Eindhoven at the High Tech Campus. The Call for proposals was published on 30 March 2016, followed by a brokerage meetings during the EIT Digital Partner Event on 13-14 April 2016. The deadline for submission of Proposals for Activity or Offers for Contributions was on 20 May 2016. By the end of June proposers were notified of the outcome of the evaluation processes. Currently, EIT Digital is submitting its draft Business Plan 2017, of which the Activity Plan 2017 is part, to its mother organization EIT. Depending on the budget allocation by EIT to EIT Digital, final adjustments of the plan will take place.

Without going into details about the proposals from TU/e that are part of the proposed Activity Plan 2017 of EIT Digital, we observe that there may be a slight increase in the volume of EIT Digital activities at TU/e. However, the shifts in the division of those activities between Entrepreneurial Technical Innovation Activities, Business Development Activities and Entrepreneurial Education Activities continues. There is continued decrease of involvement of TU/e in the Entrepreneurial Technical Innovation Activities, an increase in the Business Development Activities (with TU/e's Innovation Lab) and a further increase in the Entrepreneurial Education Activities.

EIT Digital Master School



Last April, EIT Digital has nominated [Patrick Hartigan](#) as the new Head of the Master School at EIT Digital. Prior to joining EIT Digital, he was the Director and founder of Moher Technologies Ltd, an Irish marine and environmental informatics R&D company. He also created subsidiary companies in maritime training and online services. As well as directing and delivering professional education services, he has developed undergraduate courses on innovation and design for universities in Ireland and Poland.

Patrick Hartigan holds a PhD in satellite communications and is a Member of the Institute of Engineering and Technology (MIET).

Currently the Cooperation Agreements for the EIT Digital Master School are being reviewed. These agreements run out in 2016 and have to be renewed for a new term. Most likely the new term will run for two years. Important topics undergoing review are the governance structure of the Master

School and the compensation for tuition fees. It is expected that the renewal process of the Cooperation Agreements will be complete before the end of this year.

The kick-off for the 2015-2016 academic year of the EIT Master School took place in Eindhoven. The event, which took place on 22-24 October 2015, brought 295 1st year Master School students and 30 graduate and 2nd year Master School students to Eindhoven. On behalf of TU/e, Martijn Klabbers took part in the organization of this event. Wil van der Aalst gave a keynote address on the occasion of the institution of the Data Science Technical Major as part of the EIT Master School program.

In 2015-2016 49 EIT Digital Master School students enrolled at TU/e: 30 entry students (14 Embedded Systems; 16 Data Science) and 19 exit students (6 Service Design and Engineering; 13 Embedded Systems). TU/e is phasing out its involvement in the SDE Technical Major, and will focus on the Technical Majors ES and DSC. Therefore, will be no more entry students in the SDE Technical Major at TU/e.

Of the 49 EIT Digital Master School students in 2015-2016, there were 8 EU students and 41 non-EU students.

The figures for the enrollment at TU/e of EIT Digital Master School students in the academic year 2016-2017 are as follows: 61 students in total, of which 39 are entry students and 22 are exit students. The detailed distribution of these students over the three Technical Major specializations and between entry- and exit students is reflected in the following table:

Technical Major	Entry Students		Exit Students	
	EU	non-EU	EU	non-EU
ES	2	10	-	11
SDE	-	-	1	4
DSC	11	16	2	4
	13	26	3	19
	39		22	

Distribution of EIT Digital Master School students at TU/e in the Academic Year 2016-2017.

In the academic year 2016-2017, of the 63 EIT Digital Master School students, there are 16 EU students and 45 non-EU students. There is a substantial growth of students in the Data Science Technical Major (DSC), which started in the previous academic year and which is coordinated by Farideh Heidari at TU/e: from 16 students last year to 33 students in the coming year.

In 2016 the cooperation agreements between EIT Digital and the partner universities in the Master School run out. For each Technical Major specialization, a Cooperation Agreement between EIT Digital and the partner universities involved needs to be arranged. The new Cooperation Agreements will have a term of two years.

EIT Digital Doctoral School

EIRICT and EIT Digital work together to set up a Doctoral Training Center (DTC) as part of the EIT Digital Doctoral School. This has been on the agenda for quite some time with a first tryout in the context of the Data Science Center. The DTC provides a context for industrial PhD positions, funded by the

industrial partners, supervised through the universities involved in EIT Digital while EIT Digital provides a context of internationalization and entrepreneurship. We aim for a start with around 5 positions on the subject of System Engineering. Patrick Essers, director of the Eindhoven Node of EIT Digital, is currently approaching various industrial partners of EIT Digital to provide positions for PhD candidates in this program.

New & open Calls

NWO/STW

1. [Open Technologieprogramma](#). (Open for Project Proposals; No particular closing date).
2. [Perspectiefronde 2016-2017](#). (Open for Project Proposals; Closing date for expression of interest (Phase 1): 3 November 2016)
3. [Call System integration and the future energy system](#) (In preparation; Opening expected end 2016)
4. [Energiesysteemintegratie en Big Data](#) (in Dutch; Energy System Integration and Big Data) (Opening expected December 2016; on the NWO website, you can find an [announcement of this call](#) and an announcement of an [information and matchmaking meeting](#) for this call on 11 January 2017)
5. [Pre-announcement of the 2017 Cyber Security programs of NWO](#) (see also [the dcypher webpages](#)). In 2017 three new calls for cybersecurity research programs will be launched:
 - i. Third National call for Cyber Security Research (to be launched in 2017-Q1 by NWO and Taskforce for Applied Research SIA)
 - ii. The joint NWO-DHS research call (to be launched in 2017 by NWO, the National Cyber Security Center (NCSC) and the US Department of Homeland Security (DHS)).
 - iii. The 'Scientist on the Job' call (enabling young scientists to be embedded in an organization for a period)

More information about the three instruments will be announced at the [NWO website](#) at the time of the opening of these calls in 2017.

H2020

A [new round of calls](#) for the 2017 part in the Work Programs 2016-2017 of H2020 has been launched recently. In the ICT domain, the most important calls are those in the context of the Horizon 2020 LEIT-ICT Program (see the section in "Open and forthcoming ICT-related calls in H2020" above in this newsletter).

ITEA 3

ITEA 3 Call 3 (2016-2017) (Call has opened on 13 September 2016; Closing date for Project Outlines (PO) was on 27 October 2016 and that for the Full Project Proposals (FPP) will be 14 February 2017).

ECSEL

The submission deadline for full project proposals for the ECSEL-2016-1 (for RIA's) and ECSEL-2016-2 (for IA's) has just closed (20 September 2016). In January 2017 the launch of the 2017 calls for the ECSEL programme are expected, along with one or more brokerage events (to be announced). The AENEAS Consortium Building Days 2016 (see under "Events" below) constitute a first pre-brokerage meeting in this context.

See also:

[TU/e Research Support Office Newsletter #62, 2016-09](#)

Events

22-23 November 2016

[AENEAS CONSORTIUM BUILDING DAYS 2016](#)

Rome, Italy

24 November 2016

[EIT Digital Innovation Day](#)

High Tech Campus, Eindhoven

29 November 2016

Launch of the Action Agenda Standardization for Smart Industry at the [Business Software Event 2016](#)
Den Bosch

11 January 2017

An [information and matchmaking meeting](#) for the call [Energiesysteemintegratie en Big Data](#) (Energy System Integration and Big Data), organized by Commit2Data and NOW.

Location: to be announced

31 January - 1 February 2017

[ARTEMIS Brokerage Event 2017](#)

Brussels, Belgium

21-22 March 2017,

[ICT.OPEN2017](#) - The Conference for ICT-Research in the Netherlands

De Flint, Amersfoort

Johan Lukkien

Peter van Otterloo