

# ITEA Annual Report

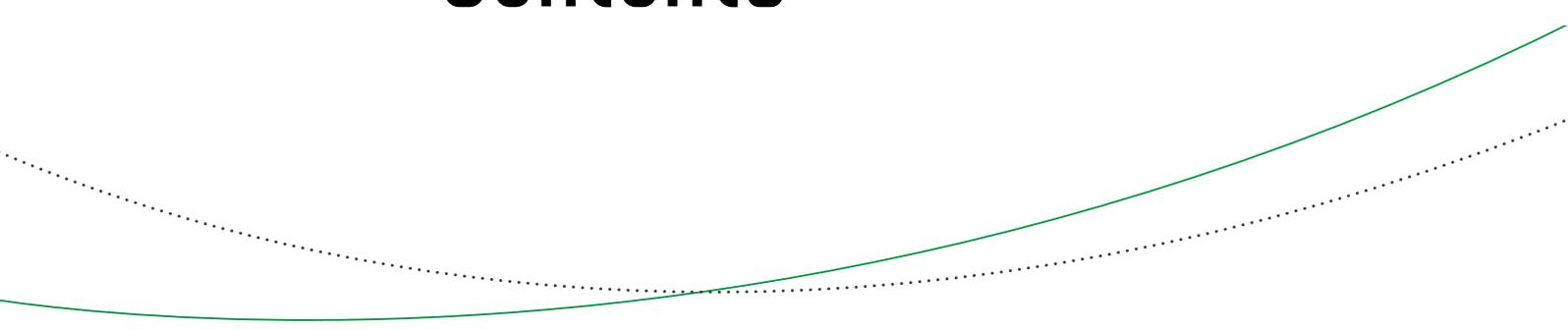
2015 Full year report

1 January - 31 December 2015





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# About ITEA

ITEA is the EUREKA Cluster programme supporting innovative, industry-driven, pre-competitive R&D projects in the area of Software-intensive Systems & Services (SiSS). SiSS are a key driver of innovation in Europe's most competitive industries, such as automotive, communications, healthcare and aerospace.

ITEA stimulates projects in an open community of large industrial players, SMEs, universities, research institutes and user organisations. As ITEA is a EUREKA Cluster, the community is founded in Europe based on the EUREKA principles and is open to participants worldwide.

## Our vision

There is a wide consensus that change and disruption will be permanent features in society from now until 2030, with the way of living and doing business becoming fundamentally different from what it is today. In 2030 the world population will reach the magic number of 8 billion people, only 23% of whom will live in Europe and the Americas, so it is important to adopt a global view. In positive terms, this development should be seen as '8 billion opportunities'.

Digital Technology has a major role to play in mastering the changes. And it is within this domain of Digital Technology that ITEA is addressing innovation in Software, IT Services, Internal

IT and Embedded Software, collectively denoted as 'Software innovation'. For Europe, an industry strong in Software Innovation is a prerequisite for maintaining global competitiveness and in securing high-value jobs in Digital Technology and in other, more traditional industries that are dependent on Digital Technology.

## Our mission

ITEA's mission is to be the recognised partner for European industry, optimising support for companies and R&D actors active in ITEA projects in the area of SiSS, thus making best use of funding made available by the ITEA supporting countries.

## Ambitions

- Innovation
- Business impact
- Fast exploitation
- Seizing the high ground

*To ensure that European industry continues to be at the leading edge worldwide*

- Happiness

*For the community and the added-value of project results to improve the lives of end-users*

# Message from our Chairwoman



In 2015, ITEA 3 emphasised its focus on being a market-oriented and a result-driven research community, and to motivate its participating countries and companies, ITEA initiated international customer and end-user workshops.

The world is getting smaller and life is getting faster. To help gradually make the lives of industries and people easier, research projects need to be initiated with a business approach that focuses on identifying and meeting customer needs or wants, explicit or implicit. Just as in product development, project ideas in research need to be market-oriented, not product-oriented, so that innovative products, processes or services have an impact in and on people's life.

Our Vision 2030 estimated the global number jobs in Digital Technology as around 50 million, 9.1 million of which are in Europe and nearly 98% of these supposed to be Software Innovation related. During the last decade, technology has deepened its knowledge base in verticals very well. Sensors are much smaller, network communication is much stronger, and battery life is longer so that wearables are much more popular. Smart home or smart city scenarios were much the theory 10 years ago. With barriers to integrated solutions now overcome, it is time to develop Connected and Digital Life scenarios that depend on Software Innovation.

As a strong and an open community, the best way for us to create impactful projects is to attract the best talents in our network. The more we share our success stories within participating countries and companies and the outside world, the more we will attract powerful industry leaders, innovative SMEs and idea leaders to our community. Events,

held in countries like Sweden and Canada, are very important to present our results and to motivate our stakeholders. Going global is our mission and our success stories from existing countries are our power.

Our challenge to shorten the time between labelling and kick-off is improving every year. The project 3DPathology, ITEA 3 Call 1, started within 9.5 months, proving that our KPI of 10 months is achievable. We believe the KPI of 10 months will be reachable in the near future with the support of countries and companies: preparing mature POs is the first step.

## Programme overview

2015 was the start for the first ITEA 3 Call 1 projects; 14 projects were labelled in March of which 7 started by January 2016 and 2 were cancelled in the course of 2015. For ITEA 2, 76 projects have now been completed, 32 are still running and only 1 project is still waiting for final funding decisions. The total amount of effort for the whole ITEA 2 programme is forecasted to end up between 12.000 and 13.000 person-years. Although changes might still occur in the coming year, the negative trend that we experienced since Call 5 seems to have stopped with Call 8.

From a country perspective, France turned out to be the highest effort contributor to the ITEA 2 programme, followed by Spain and Finland. Looking to the last Calls, however, we see that from the ITAC countries only Turkey is showing steady growth and it is remarkable to note that the effort contributed by non-ITAC countries is also increasing.

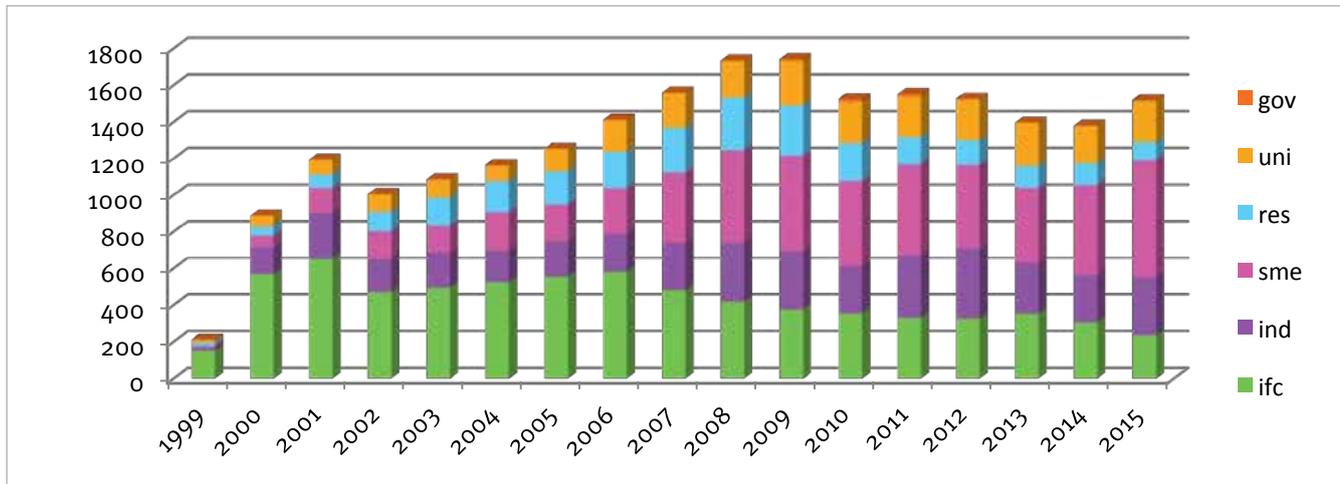


Figure 1: Effort in person-years per year per type of partner (ITEA - ITEA 2 - ITEA 3) based on the latest FPP (status as of 11 January 2016).

In 2015, we achieved a time between project idea and start of 16 months which is again an improvement compared to 19 and 22 months for ITEA 2 Call 8 and 7 respectively. We will continue to do our utmost to achieve our ambition of 10 months between project idea and start, and support project consortia in any way.

As indicated, we set up our first international customer and end-user workshop in 2015. The theme of this workshop was Smart Cities and gathered a diverse set of cities, industrials, SMEs and Public Authorities on 8-9 September in Istanbul. Five related POs were submitted in ITEA 3 Call 2.

#### Co-summit

The seventh edition of the ITEA & ARTEMIS Co-summit took place on 10 and 11 March in the Berlin Congress Center, Germany and gathered a record number of 719 participants. The future of smart manufacturing and the impact of software innovation in Smart Industry, or Industrie 4.0, provided the theme of this Co-summit. The overriding conviction was that software innovation and Cyber-Physical Systems are the enablers of the new smart industry era. We received the highest evaluation score since we started with online evaluations: 3.8 out of 5.

#### PO Preparation Days ITEA 3 Call 2

Le Plaza in Brussels was the scene of the Project Outline (PO) Preparation Days 2015, held on 22 and 23 September, gathering 269 participants from 18 countries. An all-time record total of 74 project ideas were submitted online before the event and over 60 project ideas were presented during the poster and/or pitch sessions. The event was evaluated well with a high overall score of 4.1 out of 5.

#### Outlook

ITEA 3 is an open and strong community and it has built trustful relationship with countries as ITEA 3 provides constructive support to maximise the impact of its industry-driven projects. In our activities in 2016, ITEA 3 will:

- Maintain mutual respect, trust and culture and encourage intercultural cooperation
- Increase focus on market-based solutions by industry with the support of start-ups and young SMEs
- Create touchstones between decision-makers of industrial companies and start-ups
- Challenge and track trends in global software innovation

Let's spread happiness through Software Innovation!

Zeynep Sarilar  
ITEA Chairwoman

# 1 ITEA achievements and ambitions

## 1.1 Achievements

### 1.1.1. Last year's improvement priorities and results

Over the last few years, ITEA focused on reducing the time between idea to project start and several successful steps were taken to realise this. However, to achieve the goal of 10 months, this still needed some extra attention and therefore it remained one of ITEA's improvement priorities in 2015. Besides this, ITEA also focused on the renewing the events format and addressing the impact of the programme on human capital. A status of these three 2015 improvement priorities can be found here:

#### Reduction of time between project labelling and project kick-off

The goal for the time between idea and project start in ITEA 3 is 10 months. As the time between idea and labelling is fixed by the new ITEA Call calendar (which has enabled us to save 5 months since 2014), for further improvement we focused on reducing the time between project labelling and funding decision by the countries and the time between funding decision and project start. For this, we organised regular telco's with the ITAC members to discuss the status and possible issues. Furthermore, we questioned the project leaders on a regular basis to give an update and to stimulate a timely start. At the end of 2015 five

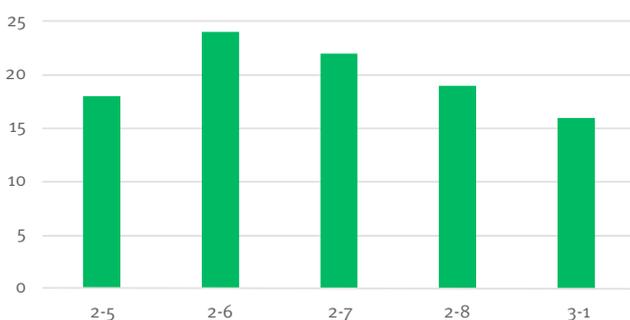


Figure 2: Time between idea and project start over last 5 Calls

ITEA 3 Call 1 projects were running. Delayed funding decisions in Finland, Spain, Turkey, Portugal and Romania (no positive decision yet in all these countries) meant that the start of the expected 7 running projects were delayed until January 2016. For ITEA 3 Call 1 we achieved a time between project idea and start of 16 months, i.e. 7 of 14 labelled projects started in January 2016.

#### Renewal of events format

##### International customer and end-user workshop

The ITEA Board decided to strengthen the business orientation of the ITEA programme by setting up customer and end-user workshops. The aim of these new workshops is to clarify the needs of international customers and end-users, and to build future ITEA proposals from these actual urgent demands so that they are even more aligned with the market. These workshops are by invitation with a rather small number of people to ensure close contact and efficiency between customers and industrials to share what is urgent and what actually deserves an R&D project. Nevertheless, the results of these workshops are public to allow any company to benefit from this understanding and to participate in or even lead an ITEA proposal based on these user demands. In these future proposals the participation of customers and end-users is welcome to set the specification of work packages, test the solution and get to fast exploitation through rapid deployment.

The theme of the first workshop was Smart City and it took place on 8-9 September 2015 in Istanbul. For the full report, see page 7.

##### Software Innovation Forum

Together with ARTEMIS-IA, ITEA started working on a new event format instead of the Co-summit, with the preliminary title Software Innovation Forum, which is more open to outsiders of both communities.

The goals of this event are to:

- become the industry-driven software innovation conference in Europe, showing results and emerging challenges towards a vision on the future for and built by industry;
- achieve global reach, in terms of topics, speakers and community;
- inform a wider public (including Public Authorities) about ITEA's vision, strategy and (project) progress and results;
- contribute to maintaining and extending the ITEA Community.

The first Software Innovation Forum is planned to take place around May 2017 in the Netherlands.

### Expand ambition beyond revenues and jobs

In recent years, ITEA has focused strongly on business impact in terms of revenue and jobs. In 2015 we started to complement this perspective on business results by addressing the impact on human capital in companies and countries. For example, we defined as a new key performance indicator the number of people in ITEA projects transferred from academia to industry to transform innovation into business. Human Capital was added to the online Exploitation Related Achievements (ERAs) to be reported on in the Project Progress Reports and the first projects using this online reporting have provided valuable inputs.

Furthermore, stories on the impact on the quality of life are now published in the ITEA Magazine (e.g. the recurrent article on end-user happiness and the ITEA success stories).

### 1.1.2. Events

As mentioned in section 1.1.1, in 2015 we organised a new event, the customer and end-user workshop, next to our annual Co-summit and Project Outline Preparation Days. In this section, you will find a brief summary of the three events:

#### ITEA & ARTEMIS Co-summit



The seventh edition of the ITEA & ARTEMIS Co-summit took place on 10 and 11 March in the Berlin Congress Center, Germany. The future of smart manufacturing and the impact of software innovation in Smart Industry, or Industrie 4.0, provided the theme of this Co-summit. The overriding conviction was that software innovation and Cyber-Physical Systems are the enablers of the new smart industry era.

#### Programme highlights

##### Tuesday 10 March

During the first day, presentations included:

- A joint welcome and opening by ITEA Chairman Rudolf Haggenmüller and President of the ARTEMIS Industry Association Heinrich Daembkes;



Co-summit 2015 impression

- A welcome address by Dr.-Ing. Herbert Zeisel, Head of the Directorate 'Key Technologies for Growth' | Federal Ministry of Education and Research;
- A welcome address by Khalil Rouhana, Director for "Components & Systems" in DG CONNECT | European Commission;
- A welcome address by Andreas Gut, EUREKA National Project Coordinator Chairman – representing the Swiss EUREKA Chair;
- A keynote speech on Software Innovations as key driver for a Green, Connected and Autonomous car by Dr. Jutta Schneider, Director eDrive & Software Technologies | Daimler AG; and
- A theme speech on Smart Industry: Impact of Software Innovation by ITEA Chairman Rudolf Haggenmüller and President of the ARTEMIS Industry Association Heinrich Daembkes.

During the theme speech, Rudolf Haggenmüller and Heinrich Daembkes specifically underlined the impact – the increasing influence that software is having on the entire value chain.

An extra dimension was provided by five speakers corners where various projects had an opportunity to present themselves more expansively – the underlying philosophy, the challenges and achievements, the impact on technology, industry and society, and even a forum for discussion. The range of topics ran from mobile environments and smart healthcare to collaborative automation and mixed criticality applications.



### Wednesday 11 March

The second day started with a panel session on the Co-summit theme, moderated by Cathy Smith (former BBC correspondent) and featuring Thomas Lagerberg (ABB), Egbert-Jan Sol (TNO), Mürzel Yildiz (KaTron) and Carsten Roszbach (Roland Berger Strategy Consultants). A quartet of different perspectives yet a shared view that while the smart industry revolution-cum-evolution is unstoppable, the complexity of the implications has to be both understood and controlled in order for Europe to be successful.

The panel session was followed by:

- the ITEA Community session, which highlighted the excellence and achievements of the projects. Philippe Letellier, Vice-chairman of ITEA, reflected not only on the exceptional standards achieved in the past year but also on the significant and tangible business impact generated by the projects, three in particular: EASI-CLOUDS, MEDIATE and SAFE (see Awards);
- The ARTEMIS programme highlights and a project debate with several ARTEMIS projects.

### Exhibition

The 2015 exhibition included 44 ITEA projects, 23 ARTEMIS projects and 14 external booths showcasing their results in terms of innovation, business and societal impact.

### Awards

As in 2013, three ITEA Awards of Excellence were presented. They highlighted very successful projects with outstanding contributions to the ITEA programme that focused on the key achievements for ITEA: two for Business Impact and one for Standardisation:

- EASI-CLOUDS (federated cloud-computing) won the Award of Excellence in the category 'Business impact';
- MEDIATE (image-guided intervention techniques) also won the Award of Excellence in the category 'Business impact';
- SAFE (functional safety in the automotive industry), won the Award of Excellence in the category "Standardisation"

### Press

Eight journalists writing for German, Czech, Belgian, French and pan-European publications attended the Co-summit. You can find more details about the press coverage in section 1.1.4.

### Evaluation

#### Overall

An all-time high number of people attended the event (719 participants) and we received the highest evaluation score since we started with online evaluations: 3.8. Compared to last year's event, 13% of the respondents rated the 2015 Co-summit better than the 2013 Co-summit and 20% rated it similar to the 2013 Co-summit. For 64% of the respondents this question was not applicable as they did not visit the Co-summit in 2013.

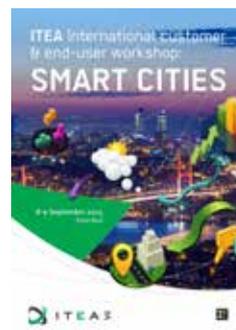
#### Exhibition

The exhibition received a score of 3.7 on a 5-point scale (2013: 3.6). There was no special focus area this year. The exhibition was well visited and the guided tours highly appreciated. The speakers corners were rated 3.5 overall (2013: 3.4)

#### Plenary session and speakers corners

The plenary presentations / panel sessions were highly appreciated and received scores between 3.4 and 3.8.

### ITEA International customer and end-user workshop



ITEA is well known for its regular impact on the market and many of the success stories have been built in close contact with customers and end-users from the beginning. To strengthen this ITEA characteristic even more, the ITEA Board decided to create the international customer and end-user workshops. For more information about the set-up of these workshops, see section 1.1.1.

The theme of the first workshop was Smart City and it took place on 8-9 September 2015 in Istanbul. Amsterdam, Istanbul and Vancouver accepted participation and we received contributions from Bandung, Nairobi and Rennes. Lyon, Nice, Paris, Santiago de Chile and Seoul are willing to follow up the results. The industrials present were Alliander, EnerjiSA, Ericsson, Gemalto, Indra, Philips, Siemens, Thales, Turkcell, together with a set of innovative SMEs; Arvento, Asay, Deveryware, Elektronet, ESRI, ISBAK, Libelium and Mobilera. Moreover, the Dutch, Swedish and Turkish Public Authorities also supported ITEA during this workshop.



The most urgent needs arising from the discussion with the different cities were:

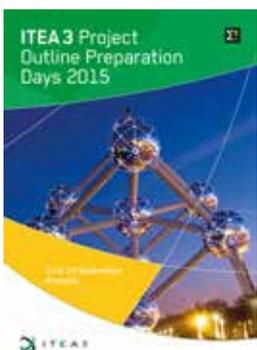
1. E-Democracy and networked cities
2. Disaster/Crisis Management
3. Green City & Renewable energy
4. Housing and Homelessness
5. Privacy & Security
6. Tsunami of Data
7. Business models & Life Cycle Cost Analysis

As a summary of the cities and industrials discussions, a first list of urgent topics to work on was:

- **Visualisation, Simulation, Communication platform:** It includes City 3D modelling, Big Data, virtual reality, social networking, tools to create the citizen empowerment on the city projects.
- **Green multimodal mobility infrastructure:** It includes E-Charging, services based on mobility data (big data), new business model.
- **Optimisation of energy consumption:** At home, in the office. Smart lighting: To reduce energy consumption and boost quality of life.
- **Interoperability platform for multi-functionalities:**
  - A key demand is interoperability when the organisations remain silo-based.
  - Such a platform will include system of systems, overcome the silo effect (use of semantic layer), modelisation, efficient data analytics, ownership of data, legacy management, security, crowd sourcing, scalability, standardisation, new business model.

Five related POs were submitted in ITEA 3 Call 2.

### Project Outline Preparation Days – ITEA 3 Call 2



Le Plaza in Brussels was the scene of the very inspiring Project Outline (PO) Preparation Days 2015, held on 22 and 23 September, gathering 269 participants from 18 countries. The PO Days were exceptional in many ways:

- the number of registrations was higher than ever;
- an all-time record total of 74 project ideas was submitted before the event;

- over 60 project ideas were presented during the poster and/or pitch sessions; and
- the first 6 Project Outline drafts were already created in the Community website during the event.

This year, a delegation of 16 Canadian companies accompanied by representatives of the Canadian Research Council enriched the lively discussions during the get-togethers, which was a huge increase on last year when 2 Canadian companies were present.

The Project Outline preparations for the second Call of ITEA 3 already started well before the actual PO Preparation Days. In May, the updated networking tools of the ITEA Community website were launched, enabling interested parties to upload their project ideas, search for and invite partners, join project ideas and get the first discussions under way. During the PO Days project idea contacts had the opportunity to meet participants face-to-face, continue the discussions and consortium-building and refine their project ideas.

As in past years, the event was evaluated well with a high overall score of 4.1 out of 5.0 (42% questionnaire response).

On 30 October 2015, 31 Project Outlines (POs) were submitted with a total of 4389 PY from 23 countries, in which Canada's high participation was remarkable; they really came into ITEA 3 with a "bang". This demonstrates again their enthusiasm and commitment to forging strategic partnerships.

The quality of the majority of POs was good to excellent and therefore after evaluation a high number of 22 projects, with a total of 3492 PY, was invited to submit a Full Project Proposal (FPP).

Because the ITEA Office is trying to continuously improve its services, a survey was conducted about the submission process among 559 project participants. 188 of them sent in their feedback (14 project leaders and 174 technical contacts / work package leaders). Overall, the results were very positive; the main suggestion for improvement was adding two weeks between the PO Days and the PO Submission deadline. All suggestions will be considered for next year's Call.



ITEA PO Preparation Days 2015 impression

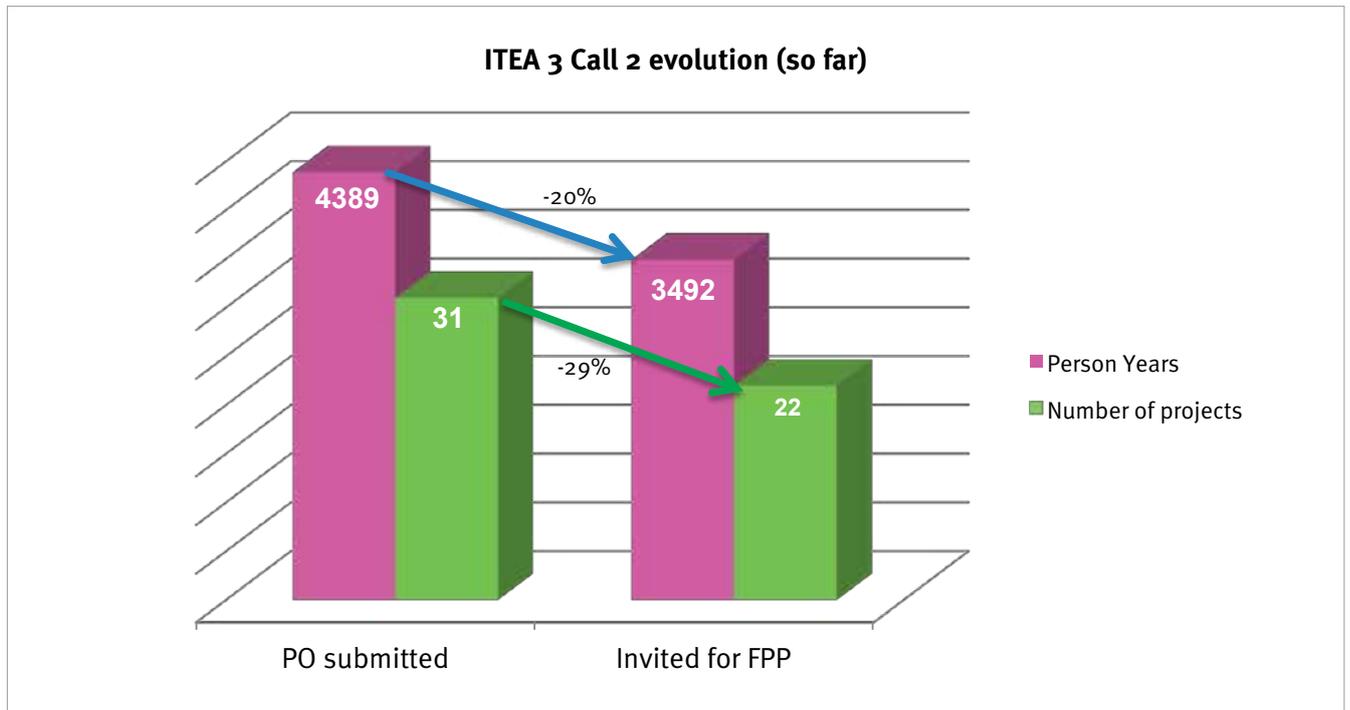


Figure 3: ITEA 3 Call 2 evolution (so far)

**External events and activities to promote ITEA**

During 2015, the Presidium and the ITEA Office representatives attended various external events and meetings to promote ITEA. Highlights include:

- **VINNOVA-SSF (10 February)**

A joint VINNOVA-SSF conference was held in Stockholm on 10 February. It provided both a wide and in-depth overview of the national and international EU and EUREKA projects of great importance to large parts of Sweden’s ever-more system-oriented industry and society.

Charlotte Brogren, Director General VINNOVA, and Lars Hultman, CEO SSF, kicked off the conference while Volvo held a keynote talk on software in future cars. Chairman Rudolf Haggemüller presented the ITEA programme and five ITEA projects (CREATE, ATAC, MODRIO, SoRTS and SCALARE) were invited to present their results.

- **DGE - Smart Cities (17 February)**

The French Direction Générale des Entreprises, the EUREKA Clusters and the EUREKA Secretariat gathered 200 participants at the conference « EUREKA accompagne les

pépites de la French Tech à la conquête des Smart Cities » (EUREKA supports the (rising) stars of the French Tech to conquer Smart Cities). The conference was held on 17 February in Paris and the programme included presentations by companies that had already participated in a EUREKA project on Smart Cities and representatives of four European cities that explained their future needs. ITEA was represented by Marc Sturzel in the InterCluster booth focusing on the Smart Cities InterCluster initiative.



- **NPC / HLG meeting (17-19 March)**

Fopke Klok represented ITEA during the NPC / HLG meeting in Geneva. Cluster topics that were discussed include the Smart Cities event in Paris, the ACQUEAU Cluster renewal, the CATRENE Cluster successor PENTA (initially called “the NewTool” and a possible new Bio Marine Cluster. Furthermore, the next Swedish Chairmanship was presented. The Swedish chair presented their intentions to tackle the EUREKA governance, the Smart Globalisation and the EUREKA contribution to European Innovation Policy. A EUREKA Innovation Week around the theme ‘Smart Cities - Sustainable & Attractive Communities’ will be organised in April 2016 in Stockholm. ITEA’s 2016 Event will be a part of this.

- **European Business Summit (6-7 May)**

The EBS 2015, an initiative of BusinessEurope and Federation of Enterprises Belgium, attracted 2.300 participants, including 155 speakers in over 50 sessions and an exhibition. Kay van Ham represented ITEA and joined the EUREKA booth on 6 May.

- **Symposium des conseillers du commerce extérieur de la France (7-8 May)**

Following the launch of the EUREKA Smart City initiative, ITEA Vice-Chairman Philippe Letellier, presented on Smart Cities in Miami at the yearly symposium of 600 French foreign trade advisors in the presence of French Foreign Affairs Minister, Laurent Fabius. He presented as case studies ITEA projects SmartTouch, Smart Urban Spaces and IMPONET, addressing e-city services through near field communication and mobile technology, as well as electrical energy management in urban areas.

- **Korea EUREKA Day 2015 (20-22 May)**

The Korea EUREKA Day 2015 was organised by KIAT and co-



hosted by the EUREKA Network. The event assembled about 450 entrepreneurs and researchers from the entire network, spanning Europe to Canada, South-Africa to South-Korea and its Asian partner countries. The event offered opportunities to build partnerships in different global regions. ITEA Vice-chairman Philippe Letellier was invited to join the event; he gave a presentation on ITEA in the session ‘KOREA-Europe Technology Cooperation Forum’ and he moderated a panel session on ‘IT and convenient life’.

- **EUREKA Industry event (16 June)**

This event aimed to introduce the industry to the EUREKA’s multi-track international cooperation strategy with its theme ‘European companies innovating across borders: EUREKA and global cooperation’. The conference included several presentations, a keynote speech on present trends for European industries in the global market, and two successive panel discussions presenting the views of the industry and the public sector on the topic of access to global markets for innovative European companies. Fopke Klok represented ITEA and the Clusters in the panel discussion with actors from the public domain.

- **4-day workshop ITEA / EUREKA-Canada (15-18 June)**



Hosted by the National Research Council (NRC) Canada, ITEA Chairman Rudolf Haggemüller took part in a 4-day event in Ottawa and Winnipeg from 15 to 18 June to strengthen the ties between ITEA and Canadian organisations and Public Authorities. During this event, a number of valuable presentations by different stakeholders, a company visit and several workshops and group discussions were organised

to show the ideas, possibilities and strengths of this cooperation. Results of this fruitful 4-day event in Ottawa and Winnipeg are already very tangible as a delegation of 16 Canadian companies accompanied by the representatives of the Canadian Research Council participated in the PO Preparation Days in September, 9 projects invited for FPP have Canadian participation and 4 of them have a Canadian project leader.

- **ARTEMIS-IA Summer camp (10-11 June)**

Fopke Klok presented ITEA and the High-level Vision 2030 (v2013) 'Areas of major change' during the ARTEMIS Summer camp. His concluding remarks were:

- With the arguments presented in Vision 2030, ARTEMIS-IA and ITEA collectively request a doubling of the investment in software innovation to keep Europe on par with the rest of the world in sustaining the benefits of Digital Technology for the European economy and society.
- Therefore, the ARTEMIS SRA should bring a strong message of the importance of software innovation and the need to double the investments, and this is fully supported by the ITEA organisation.

- **EUREKA 30 year celebration (30 June - 2 July)**

In conjunction with the final HLG meeting of the Swiss presidency, the EUREKA Network organised a 30th Anniversary ceremony in Lugano. The event hosted the EUREKA representatives as well as Public Authorities and the press. ITEA Chairman Rudolf Haggenmüller gave a speech promoting the Clusters and ITEA. During the event, several success story projects were highlighted and one of them was the ITEA Digital Cinema project (led by Barco, 2001-2003). The success story is also published in a separate celebratory report.

- **Smart countries & cities congress (1-2 September)**

Philippe Letellier held a session on 'Smart Territories: Innovation in the domain of Smart Cities at ITEA' at the S3C Paris. This is an event and get-together of key decision makers of cities, regions and countries, as well as industry experts and leading institutions for building a vision of the future of countries and cities.

- **Canada-ITEA 3 Outreach Days (24-25 September)**



As a follow-up and extension of the PO Days in Brussels, the Canadian Embassies in Belgium and in the Netherlands organised a two-day Outreach Programme for a large number of Canadian SMEs that participated in the ITEA 3 Workshop in Canada and in the PO Days this year. During the first day, the Canadian delegation visited three companies (Barco, CGI and Proximus). On the second day, the Canadian companies and public authorities had a seminar in Eindhoven, organised with the help of EIT Digital, the High Tech Campus and Brainport Eindhoven Region. The seminar included a presentation from her Excellency the Ambassador of Canada to the Netherlands Sabine Nölke. A panel session with experienced ITEA project leaders (from KE-Works, Philips and ViNotion) gave the Canadian delegation the opportunity to gain a broader understanding of how to handle a project in ITEA 3 from a participant's perspective.

- **Trade and Investment Partnership Summit 2015 (30 September)**

At the invitation of the Europe India Chamber of Commerce, EUREKA representatives took part in the EU Indian Trade and Investment Partnership Summit 2015 on 30 September 2015 at the European Parliament in Brussels. The 'business sessions' of the Summit were opened by Fopke Klok presenting EUREKA, its Clusters, ITEA and its success stories as well as the EUREKA Smart City initiative, which is of key interest to India.

- **ICT 2015 event (20-22 October)**



From 20-22 October Lisbon hosted ICT 2015 - Innovate, Connect, Transform, an initiative of the European Commission and in 2015 co-organised with the Fundação para Ciência e Tecnologia (FCT). The event gathered over 5.000 participants. Loes van den Borne represented ITEA in a joint booth together with representatives from the ITEA 2 project Empathic and from the EUREKA Secretariat. A lot of interest was shown among the participants, especially from Taiwan, who discussed with ESE about becoming a EUREKA associated country.

- **NPC / HLG meeting (20-22 October)**

Fopke Klok participated on behalf of the EUREKA Clusters in the first NPC/HLG meeting under the Swedish Chairmanship

in Gothenburg and in the EUREKA working groups on Smart Globalisation and on EUREKA in European Innovation Policy.

- **Smart City Expo World Congress (17-19 November)**



At the Smart City Expo World Congress (SCEWC) in Barcelona on 17-19 November 2015, Linda van den Borne represented ITEA in a joint booth together with the EUREKA Secretariat, the EUREKA Clusters Celtic-Plus, EURIPIDES<sup>2</sup> and EUROGIA2020 and the Spanish funding authority CDTI. EURIPIDES<sup>2</sup> Chairman Jean-Luc Maté also represented the Clusters in one of the parallel sessions of the event. The event was attended by over 14.000 people and many of the participants showed interest in EUREKA and the Clusters, attracted particularly by the bottom-up and business impact-driven approach.

### 1.1.3. Success stories

During a project lifetime, ITEA pushes innovation and targets business impact. These challenges, combined with the ambition to be first in the global market, are key to success. Several ITEA projects achieved this; some right after the end of the project, some several years after. Since a few years ago, ITEA has started to follow up the finished projects and publish the successes. In 2015, we had the following:

#### Geodes

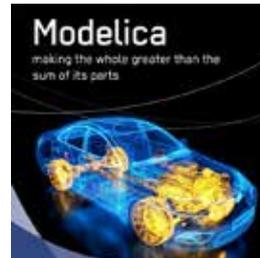


The ITEA 2 GEODES project addressed power-consumption issues – namely, power reduction – in complex distributed communication systems, from handheld devices to wireless sensor networks. The project helped realise energy savings up to 40% (e.g. for FIGO product line, SOTAS

communications product line) were realised. Furthermore the personal communication system MOOVE, created by Thales Netherlands, is entering the market with the particular characteristic of a long operational lifetime, something that is required for other organisations active in emergency situations. Philips launched the Hue system, based on the low-power ZigBee Light Link standard, for wirelessly controlled consumer LED lamps and the QoS management of ENEA provides a system for the optimum management of resources (especially energy resources) within a system, enabling the ability to trade performance against

power consumption. All the knowledge and expertise gained in GEODES continue to be used to extend R&D not only in this field of power-consumption in complex distributed communication systems but also in other related issues or topics such as energy scavenging or the low-power wireless control needs of the energy-saving LED retrofit market and for large buildings.

#### Modelica



Modelica is a computer language that is traditionally used to model the physical part of systems that have to be controlled, and thereby simplifies this task significantly. There have been a few major factors that have contributed to the success of Modelica: (a) the technical innovation

from Dynasim, (b) Dassault Systèmes entering the arena, and (c) several large ITEA projects. Dassault Systèmes initiated the first ITEA project, EUROSYSLIB, which gave Modelica a huge boost not only on the tool level but even more on the level of enhancing the open source Modelica Standard Library as well as commercial Modelica libraries. Co-organised by Dassault Systèmes and Daimler, the goal of the follow-up project, MODELISAR, was to develop an open, low-level interface standard, known as Functional Mock-up Interface (FMI), to enable models from different simulation environments to be used conveniently in other environments. As of June 2015, there were 66 software tools supporting FMI, demonstrating the great success of this project. Finally OPENPROD aimed to significantly improve open source Modelica tool chains based on OpenModelica and evaluate them in industrial applications. It can now simulate 98% of the standard library examples and, in terms of the open source community, there are currently about 1600 downloads per month. Summing up, the technical progress and economic success of Modelica and FMI would not have been possible without ITEA. And besides the purely technical achievements and the growth of Modelica/ FMI tool vendors, there is another aspect: growth in business and employment. In the past ten years, several small companies have been newly founded in Europe to provide engineering services as well as model libraries and specialised software in the Modelica and FMI field to industry.

#### Indra



Two topics, big data technologies and real-time data integration platforms, which were tackled during the projects Nemo&Coded, Imponet and DiCoMa were key for Indra's success. With respect to Big Data technologies, one of the results was the Web Portal for Residential Customer Meter Data implemented by Gas Natural Fenosa, the third largest utility company in Spain. This was developed by Indra reusing part of the results produced by the Imponet project and making extensive use of the experience and expertise

accumulated during this project. This portal is being deployed for more than 3 million customers; the ambition is to reach over 20 million worldwide. In the case of real-time integration platforms, the development of this kind of platform for the energy domain was in Indra's road map since 2008, and part of the development of such a platform was included in the scope of the projects Nemo&Coded, Imponet and DiCoMa. The resulting product, iSPEED, has proven to be first of its kind and is currently being implemented in utility companies from different parts of the world e.g. the combined number of customers for the Iberdrola group indirectly served by this platform, by monitoring and controlling the distribution network servicing them, will be in excess of 25 million worldwide.

#### 1.1.4. Press coverage

In 2015, ITEA and its projects were mentioned several times on external websites and magazines. 28 publications were written by 11 different bureaus, from 5 different countries. Thanks to a media partnership with Research Media (International Innovation) and the publications of EUREKA and H2o2o, the Co-summit was well covered in multiple features, taking up to 8 full pages.

We have excluded announcements of the Co-summit and the PO Days from this overview. The same goes for news messages about these events on our partner websites.

A full press coverage overview can be found on:  
<https://itea3.org/press-coverage/year-2015.html>.

## 1.2. Improvement priorities 2016

### 1.2.1. ITEA promotional and lobbying activities

During the course of 2015 we observed that the reduction in the programme size of ITEA was not a temporary dip but had a more structural character. Some of the main countries substantially reduced their funding or significantly toughened the funding conditions. In 2016 we have to undertake substantial promotional and lobbying activities to reverse this negative trend. Additionally, we will further continue with the globalisation of the programme and cooperate with new countries, the goal being to make Call 2 return to a growth path.

### 1.2.2. Time between labelling and project start

Our definition of the time between idea and project start is the duration from the opening of the Call to the moment when 50% of all labelled projects have started. Over the last Calls this value has developed as follows: Call 5: 18 months, Call 6: 24 months, Call 7: 22 months, Call 8: 19 months, for ITEA 3 Call 1 we achieved a time of 16 months between project idea and start, i.e. 7 out of 14 labelled projects started in January 2016.

The goal for ITEA 3 is 10 months. In ITEA 3 Call 1 with the project 3DPathology we demonstrated the feasibility of the target for one project. For 2016 we will continue to monitor the high level KPI 'Time from idea to project start'.

### 1.2.3. Event formats renewal

Until 2015 ITEA had two main annual events: Co-summit and PO Days. The goals of the Co-summit are to promote ITEA and its results, to show its value to economy and society and to strengthen the community. The PO Days are focused on project creation. While these vehicles serve their goals, there is room for improvement. We have to become more global and we have to further strengthen our business orientation.

- To increase the visibility of ITEA as a global software innovator we have to address global topics of software innovation. Speakers and participants are not restricted to our current ITEA and ARTEMIS-IA communities, but will be open to the global software innovation community. The challenge will be to ensure that this event is globally recognised as a forum for software innovation. This event is planned to take place around May 2017 in the Netherlands. The improvement action in 2016 has to be the preparation of this event.
- To further strengthen our business orientation we have to increase the involvement of the business managers of the current participating organisations, their customers and end-users in ITEA. For this we organised a first international customer and end-user workshop on Smart Cities in 2015. The improvement action for 2016 is to organise a similar event on Smart Health. The goal is to define challenges that can be addressed by the key players in collaborative projects.
- The PO Days will be enriched with the output of both new event formats.

### 1.2.4. Expand the ambition beyond business impact in terms of revenue and jobs

Until now, ITEA has focused strongly on business impact in terms of revenue and jobs. In 2015 we started to complement this business results perspective by addressing the impact on human capital in companies and countries, for example, by introducing in our progress reports the corresponding new output measure. In 2016 we have to refine this instrument together with Public Authorities and companies' Human Resource managers.

### 1.2.5. Digital ITEA

In 2016, one of our main ambitions is to support our companies to evolve with the digital transition. Furthermore, we continue to digitise the ITEA operations of creating consortia and projects and managing ITEA projects in the digital world.



# 2 Call progress and figures

## 2.1 Call progress ITEA

(status 8 January 2016)

On 22 September 2015 the second Call of ITEA 3 was launched with the Project Outline Preparation Days in Brussels. On 30 October 2015, 31 Project Outlines (POs) were submitted with a total of 4389 PY from 23 countries. The quality of the majority of POs was good to excellent and therefore after evaluation a high number of 22 projects, with a total of 3492 PY, was invited to submit a Full Project Proposal (FPP).

The total amount of effort (see Appendix A) for the whole ITEA 2 programme is forecasted to end up between 12.000 and 13.000 person-years. Although the ITEA 2 programme started very successfully with the first four Calls, the effort per Call suddenly dropped considerably at Call 5. Although changes still might appear in the coming year, the negative trend seems to have stopped with Call 8. With two more cancelled projects in Call 8, iCityServices and VAIPro, the hit rate (#started projects/# labelled projects) in this Call dropped to 74%.

From a country perspective, France turned out to be the highest contributor to the ITEA 2 Programme in terms of effort, followed by Spain and Finland. Looking to the most recent Calls, however, we see that from the ITAC countries only Turkey shows steady growth. A remarkable feature is that the effort contributed by non-ITAC countries is also increasing. The figures for ITEA 3 Call 1 are not yet representative, with only 50% of the labelled projects only just up and running.

### Call 4

In 2015, both H4H and RECONSURVE finished successfully, thereby completing all Call 4 projects.

### Call 5

With EASI-CLOUDS, ADAX and MEDUSA finishing in 2015, all Call 5 projects have also been completed. EASI-Clouds won the ITEA Awards of Excellence in the category 'Business impact' during the Co-summit 2015 in Berlin.

### Call 6

For Call 6, EMPATHIC, ICARE, PROMES, SITAC, openETCS and CarCoDe finished in 2015. MERgE and MODRIO are still running as they shifted their respective end dates to March and May 2016. The two remaining Call 6 projects, MoSHCA and FedSS, will finish in 2016 as well.

### Call 7

Unfortunately, SENNET was finally cancelled; all remaining 14 projects of Call 7 are now running. ViSCA, which was originally planned to finish at the end of 2015, extended its deadline to June 2016. Further final reviews in 2016 are scheduled for FIONA, AVANTI and DEMWatch.

### Call 8

In addition to DART and CLIMWELL, which were cancelled in 2014, iCityServices and VAIPro were cancelled in 2015. Only one project, InCloudInG is still waiting for final funding decisions. The 14 remaining Call 8 projects are currently running.

### Call 1

From ITEA 3 Call 1, 7 projects are now running (3DPathology, Medolution, ACOSAR, ASSUME, OPENCPS, Reflexion and ETS), 5 are still pending (MEASURE, EmoSpaces, SOLOMON, 3DSafeguard and SecureGrid) and BEACON and CERVESA were cancelled. With the project 3DPathology, which started 9.5 months after the Call opening, we demonstrated the feasibility of ITEA's '10-month from project idea to project start' objective, showing the positive effect produced by the actions taken together with the Public Authorities.

### ITEA 2 Call 1-8 and ITEA 3 Call 1-2 number of projects over time

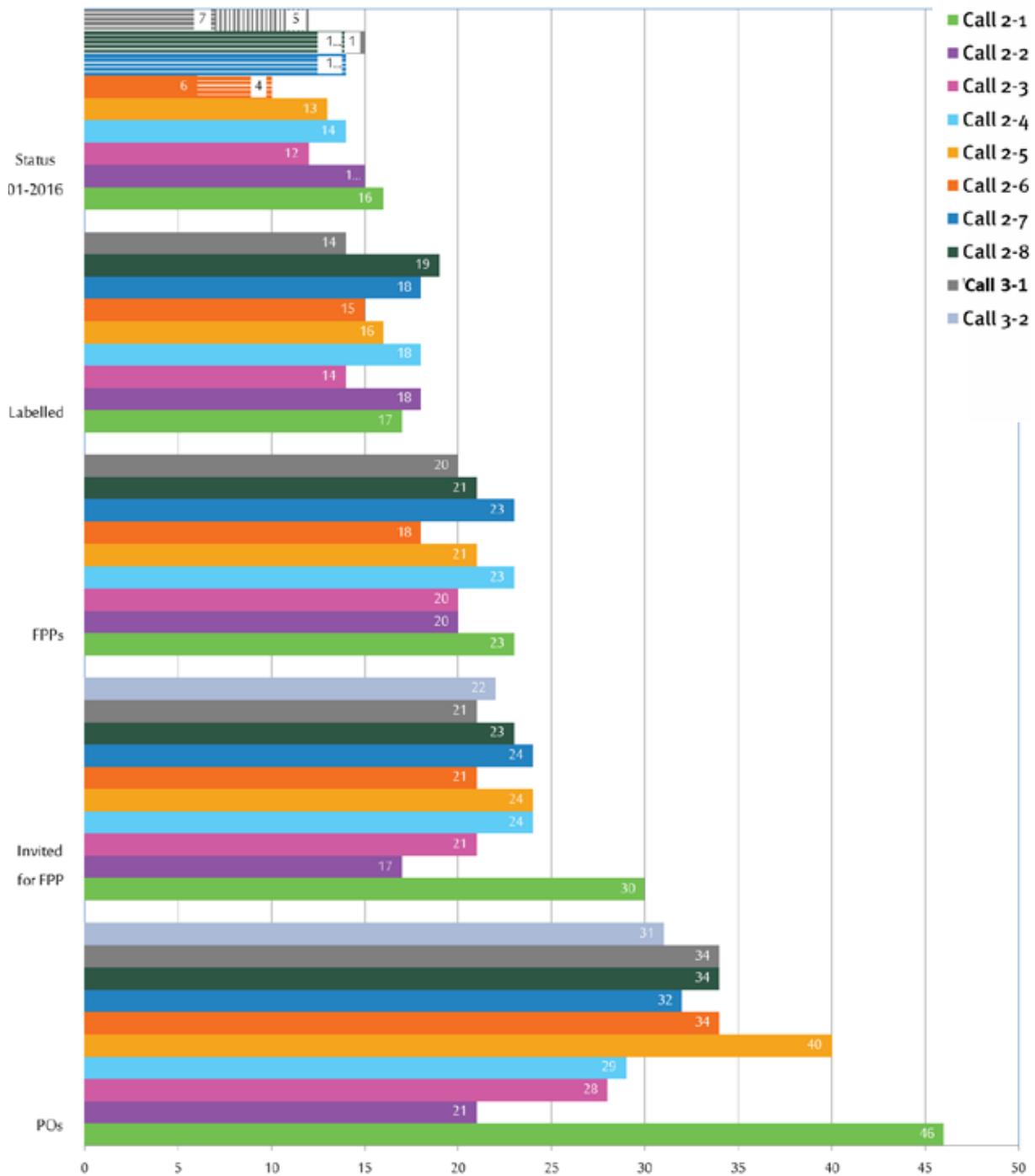


Figure 4: Number of ITEA 2 and ITEA 3 projects over time

Solid fill = completed projects - horizontal stripe = running projects - vertical stripe = labelled projects

### ITEA 2 Call 1-8 and ITEA 3 Call 1-2 in person years over time

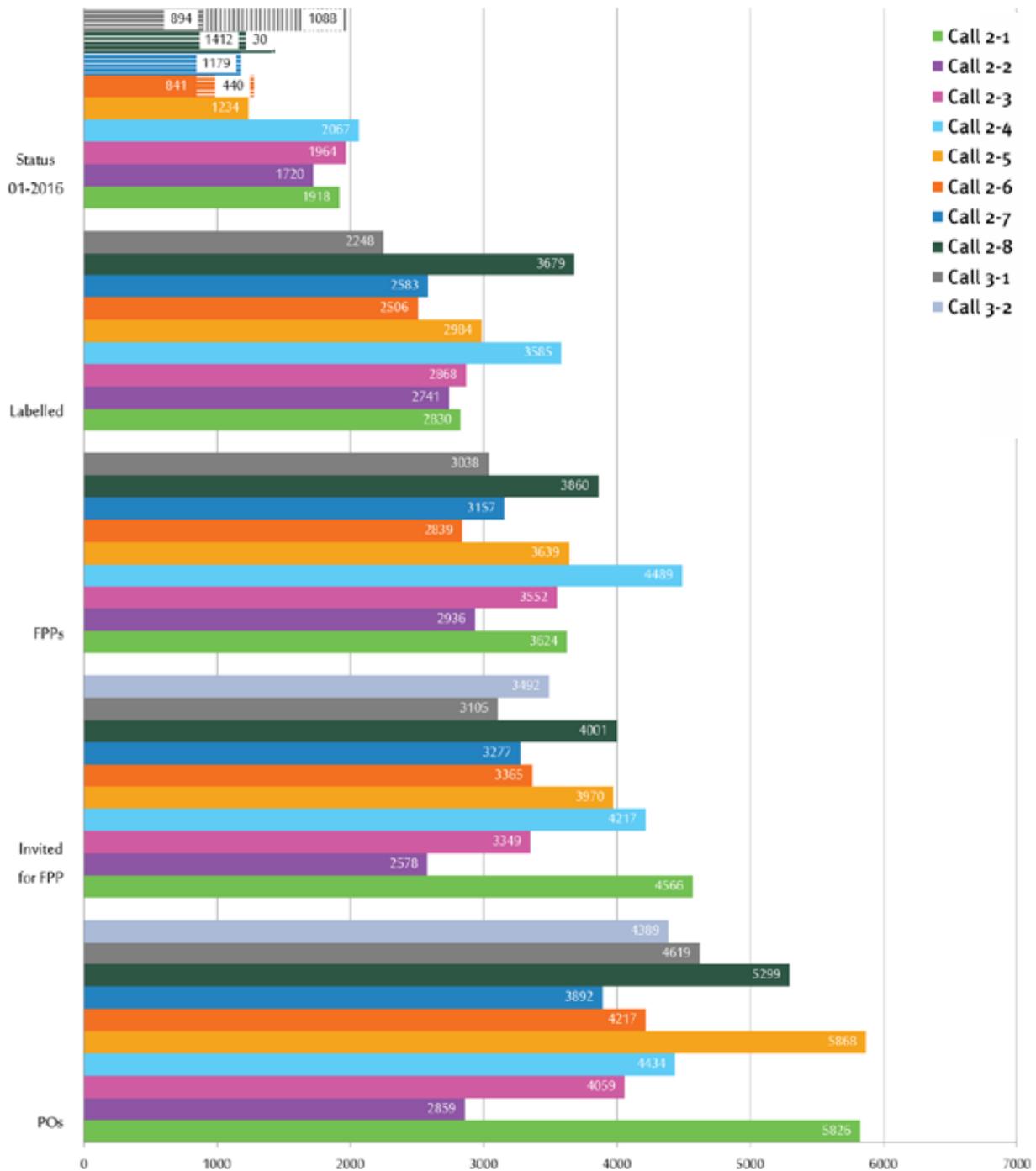


Figure 5: Effort in person-years in ITEA 2 and ITEA 3 projects over time  
 Solid fill = completed projects - horizontal stripe = running projects - vertical stripe = labelled projects

## 2.2 ITEA project landscape

Challenges	Projects	ITEA 3 Call 1	Cancelled-in-2015	Labelled	Running	Completed
Sustainability	M2MGrids	SENNET		ACOUSTICS		
	FUSE-IT	ENERFICIENCY		NEMO_CODED		
	SEAS	IMPONET		GEODES		
Mobility	ASSUME (running)	openETCS				
Entertainment	ICARE	JEDI		CAM4Home		
	ACDC	HDTVNext		Wellcom		
Healthcare	3DPathology (running)	SoRTS		MEDIATE		AIMES
	Medolution (running)	MoSHCA		Care4Me		HiPiP
	BENEFIT	MEDUSA		Edafmis		
Ageing society & wellbeing	EmoSpaces	PRO-HEAL		MIDAS		
	CareWare	DEMWatch		AmE		
Security and safety	3DSafeguard	ViScA		PREDYKOT		Guarantee
	SecureGrid	IDEA4SWIFT		SAFE		MULTIPOL
	InCloudInG	FedSS		SPY		TECOM
	INSIST	ADAX		RECONSURVE		
	APPS	DiCoMa		ROLE-ID		
Engineering	ACOSAR (running)	MODRIO		DIAMONDS		PRISMA
	MEASURE	MERgE		TIMMO-2-USE		TIMMO
	OPENCPS (running)	Empathic		ISN		EASY Interactions
	EERVESA	PROMES		ViCoMo		LINDO
	Reflexion (running)	SITAC		OPEES		D-MINT
	AMALTHEA4public	SEMOSA		VERDE		ParMA
	COLOC	CREATE		OPENPROD		EUROSYSLIB
	IDEaliSM	MANY		UsiXML		FLEXI
	MACH	Web of Objects		ITEI		MoSIS
	SCALARE	ATAC		MODELISAR		ES_PASS
	AVANTI	H4H		Evolve		3D-Testbench
	FIONA	AMALTHEA		SEMbySEM		
	Knowledge-based society	ModelWriter	WATER-M		MOOC TAB	
Virtualisation of communities	VAIPro	TWIRL		Metaverse1		ExpeShare
Urbanisation	BEACON	iCityServices		SUS		
	ETS (running)	C3PO				
Globalisation	InValue					
Service economy	SOLOMON	CarCoDe		uService		UseNet
	CAP	EASI-CLOUDS		DiY Smart Experiences		
	BaaS	LIFEWEAR		PubSub4RT		
	SDGear	AzNets		OSAMI-Commons		

Table 1: ITEA projects classified per Living Roadmap Challenge

## 2.3 New projects - ITEA 3 Call 1

### *Vice-chairman's summary*

The first Call of ITEA 3 delivered 20 FPPs submitted out of 21 invited, with a total of 3038 person-years, involving 17 different countries. We again observed a good balance between the SME, industrial and academic partners, even though the SMEs are now predominant. It is a great success of ITEA to be able, year after year, to mobilise this number of innovative SMEs to work with the large industrials on projects that aim to achieve worldwide impact. This can certainly be attributed to the programme's known flexibility and market impact orientation. These characteristics are key for such organisations.

The countries most involved in ITEA 3 Call 1 were France, Turkey, the Netherlands, Finland, Germany, Spain and Belgium and, of special significance, Romania, which appeared for the first time in this category.

We observed a shift towards rather innovative and new market projects while, at the same time, maintaining the pressure on business impact and fast exploitation. This shows that it is not incongruous to push innovation and demand immediate exploitation. It confirms the unique position of ITEA 3 in the R&D landscape.

In general, the proposals delivered a better understanding of the use of value chains and good quality State-of-the-Art (SotA), which reveals interesting progress in this Call not only for the evaluation itself but also for steering the projects towards business impact.

Nevertheless, this Call 1 was actually the first to follow the new planning agreed by all the community partners to reduce the time from the idea to project start. It is clear that this pressure has led to some proposals having been abbreviated to deliver in time. In parallel, to cope with the time from idea to funding KPI, we decided to be more radical in the labelling phase because there was no more time for any negotiation for those proposals that were not perfect from this first step. This led to 14 labelled proposals, two of which were cancelled during the course of 2015.

The projects address a wide range of topics, but can be clustered in the following main themes:

A short description of each project can be found here:

### **3DPathology – 14001**

*Developing 3D digital pathology with spectroscopy*

*Project leader: Barco (Belgium)*

A strong growth forecast in the digital pathology market for the next five years combined with a decreasing number of qualified pathologists will lead to a tremendous increase in workload in the pathology departments of clinical and pharmaceutical organisations. On top of this there is an urgent need for higher quality diagnostic information enabling more effective and efficient treatments. The 3DPathology project will address these needs by creating a fast, digital, quantitative, spectroscopic and multimodal 3D pathology analysis system.

### **Medolution – 14003**

*Medical Care Evolution*

*Project leader: Bull (France)*

Medolution's vision is a reduction in the cost of healthcare along with an improvement in the quality of life of patients. The project aims to apply long-term monitoring and real-time decision support in smart environments that integrate professional and user-created data. This leads to relevant information to support patients and healthcare professionals in their decision-making on diagnosis, treatment and further monitoring; from reactive to preventive. Medolution builds upon the results of Medusa that provides collaborative cloud access to medical information relevant in critical situations.

### **ACOSAR – 14004**

*Advanced Co-simulation Open System Architecture*

*Project leader: Virtual Vehicle Research Center (Austria)*

ACOSAR will focus on the specification of a non-proprietary open RT system interface, a so-called 'Advanced Co-simulation Interface' (ACI), for the efficient integration of RT systems, e.g. test beds, into simulation environments. A communication architecture (incl. protocol) will be set up, which will be independent of the communication systems actually used. Furthermore, a methodology for the seamless integration of RT systems during the late phases of the classical V-model development cycle (verification & testing, validation) will be defined.

Themes	ITEA 3 Call 1 Projects
Surveillance & Security	3DSafeguard, SecureGrid
Engineering	ACOSAR, MEASURE, ASSUME, openCPS, Reflexion
Healthcare	3DPathology, Medolution, EmoSpaces
Digital Transition	SOLOMON, ETS

**MEASURE – 14009****Measuring Software Engineering***Project leader: Softeam (France)*

The goal of the project is to increase the quality and efficiency as well as reduce the costs and time-to-market of software engineering in Europe. By implementing a comprehensive set of tools for automated and continuous measurement, this project provides a toolset for future projects to properly measure their impact. More importantly, it opens a new field for innovation. The real innovation will be in the advanced analytics of the measurement data enabled by the project.

**EmoSpaces – 14012****Enhanced Affective Wellbeing based on Emotion Technologies for adapting IoT spaces***Project Leader: Evoleo Technologies (Portugal)*

The Internet of Things (IoT) has evolved from being a far-fetched futuristic vision to something that can realistically be expected to become a mainstream concept in a few years' time. The goal of EmoSpaces is the development of an IoT platform that determines context awareness with a focus on sentiment and emotion recognition and ambient adaptation. The main innovative aspect of EmoSpaces lies in considering emotion and sentiments as a context source for improving intelligent services in IoT.

**ASSUME-14014****Affordable Safe & Secure Mobility Evolution***Project leader: Daimler (Germany)*

Future mobility solutions will increasingly rely on smart components that continuously monitor the environment and assume more and more responsibility for convenient, safe and reliable operation. Currently, the single most important roadblock for this market is the ability to come up with an affordable, safe multi-core development methodology that allows industry to deliver trustworthy new functions at competitive prices. ASSUME will provide a seamless engineering methodology, which addresses this roadblock in terms of construction and analytics.

**OPENCPS – 14018****Open Cyber-Physical System Model-Driven Certified Development***Project leader: Saab (Sweden)*

Cyber-physical systems put increasing demands on reliability, usability and flexibility while, at the same time, lead time and cost efficiency are essential for industry competitiveness. Tools and environments for model-based development of cyber-physical systems are becoming increasingly complex and critical for the industry: tool interoperability, vendor lock-ins and tool life-cycle support are some of the challenges. The project focuses on interoperability between the standards Modelica/UML/FMI, improved execution speed of (co-)simulation and certified code generation.

**SOLOMON – 14025****SOcial LOcal MOBILE iNdoor shopping experience***Project leader: VTT (Finland)*

E-commerce has drastically transformed the retail industry. In SOLOMON the main target is to improve the customer experience in bricks-and-mortar stores. SOLOMON's innovation is to define a "shop operations & experience" platform connecting different technologies and information sources into seamless services for interaction with the retailers, shop personnel and consumers. Platform requirements are set by retail stores and technology providers who define the use cases that are demonstrated and evaluated during the course of the project in bricks-and-mortar stores.

**3DSafeguard – 14034****Global Situational Awareness in Rescue, Calamity and Inspection Operations***Project leader: Eindhoven University of Technology (Netherlands)*

At present, calamities such as fires in buildings and bomb threats in stations/airports occur frequently. During such large incidents, organisations like fire departments, police, hospitals etc. work together, but the information about the actual actions is limited and information sharing between organisations is restricted. 3DSafeguard proposes a solution offering global situational awareness for both individual actors carrying out the operation and for the coordinating commanders. This situational awareness is enabled by integrated data, control and communication workflow between the abovementioned parties.

**Reflexion – 14035****React to Effects Fast by Learning, Evaluation, and eXtracted InformatiON***Project leader: TNO (Netherlands)*

Reflexion will support high-tech industry by providing significant improvements in quality and stability during early product roll-out. The results will include the ability to react to unforeseen problems or emerging needs in a speedy and cost-effective way by augmenting products with a layer of data-sensing and data-analytics to quickly infer 'missed' or 'misunderstood' end-customer requirements as well as detecting issues that escape product release testing and product items that need service and maintenance attention. This knowledge is used to further improve the product.

**SecureGrid – 14039****Security, Fraud Detection and Encryption for Smart Grids based on AI***Project leader: Bor Software (Turkey)*

Europe is transforming the current obsolete electricity network into an advanced, digitised and more efficient one known as the Smart Grid. One major innovative aspect of the project relies on applying AI and Big Data analysis techniques to the large amounts of data gathered by the Smart Grid. The massive collection of data occurring within Smart Grids also creates new threats that will be addressed by the second major innovative aspect of this project, which is security improvement.

**ETS - 14041****Electronic Ticketing System**

*Project leader: Elektronet Inc. (Turkey)*

The Electronic Ticketing System project aims to take account the arrival of electronic ticketing and the geo-location devices to propose a new back-office system for electronic tickets in the fields of entertainment and transportation. It will do this by providing additional services and mobile application, and a new transportation control system for open access travel (typically suburban trains, buses, trams, subways, ferries) to ease the access to platforms, usually through access gates or turnstiles while securing the electronic transaction, specifically for online purchases.

## Appendix A

# Call statistics per country and per year

Call	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Total
Call 2-1	366	743	645	164	-	-	-	-	-	-	-	-	1918
Call 2-2	-	345	632	541	201	-	-	-	-	-	-	-	1720
Call 2-3	-	-	305	657	624	339	40	-	-	-	-	-	1964
Call 2-4	-	-	-	162	661	678	412	153	1	-	-	-	2067
Call 2-5	-	-	-	-	66	366	463	269	70	-	-	-	1234
Call 2-6	-	-	-	-	-	145	415	452	245	24	-	-	1281
Call 2-7	-	-	-	-	-	-	67	395	435	269	11	2	1179
Call 2-8	-	-	-	-	-	-	-	97	483	537	311	14	1442
Total ITEA 2 Calls	366	1088	1582	1524	1552	1527	1397	1365	1235	830	322	16	12804
Call 3-1	-	-	-	-	-	-	-	-	223	655	666	438	1982
<b>Total</b>	<b>366</b>	<b>1088</b>	<b>1582</b>	<b>1524</b>	<b>1552</b>	<b>1527</b>	<b>1397</b>	<b>1365</b>	<b>1457</b>	<b>1485</b>	<b>988</b>	<b>454</b>	<b>14786</b>

Table 2. Participation in person-years per call per year as of 21 January 2016. Effort based on latest FPP.

Call	AUT	BEL	DEU	ESP	FIN	FRA	GBR	ISR	ITA	NLD	NOR	SWE	TUR	OTH	Total
Call 2-1	20	63	166	567	395	448	4	14	0	55	66	48	6	65	1918
Call 2-2	38	90	182	576	147	441	0	13	0	150	0	18	35	30	1720
Call 2-3	0	104	100	552	246	460	0	0	0	270	17	41	61	114	1964
Call 2-4	4	65	119	394	204	785	1	0	0	213	8	17	163	95	2067
Call 2-5	14	32	89	215	111	403	0	5	0	87	0	32	109	136	1234
Call 2-6	0	92	97	166	188	404	0	20	2	108	0	36	85	83	1281
Call 2-7	0	40	118	132	132	213	0	0	0	105	0	48	199	192	1179
Call 2-8	0	138	79	117	143	232	0	18	0	160	5	26	343	181	1442
Total ITEA 2 Calls	77	623	949	2721	1565	3387	5	70	2	1149	96	265	1000	896	12804
Call 3-1	16	135	203	144	140	343	0	0	0	328	0	44	356	275	1982
<b>Total</b>	<b>93</b>	<b>758</b>	<b>1152</b>	<b>2865</b>	<b>1705</b>	<b>3729</b>	<b>5</b>	<b>70</b>	<b>2</b>	<b>1477</b>	<b>96</b>	<b>309</b>	<b>1356</b>	<b>1170</b>	<b>14786</b>

Table 3. Participation in person-years per call per country as of 21 January 2016. Effort based on latest FPP.

All figures in person-years, status 21 January 2016

- ITEA participant
- EUREKA member (no ITEA partner)
- EUREKA-NIP country (no ITEA partner)

Other countries in ITEA include:

Canada, Switzerland, China, Croatia, Czech Republic, Denmark, Egypt, Estonia, Greece, Ireland, Republic of Korea, Lithuania, Luxembourg, Portugal, Romania, Slovenia, Taiwan, Ukraine

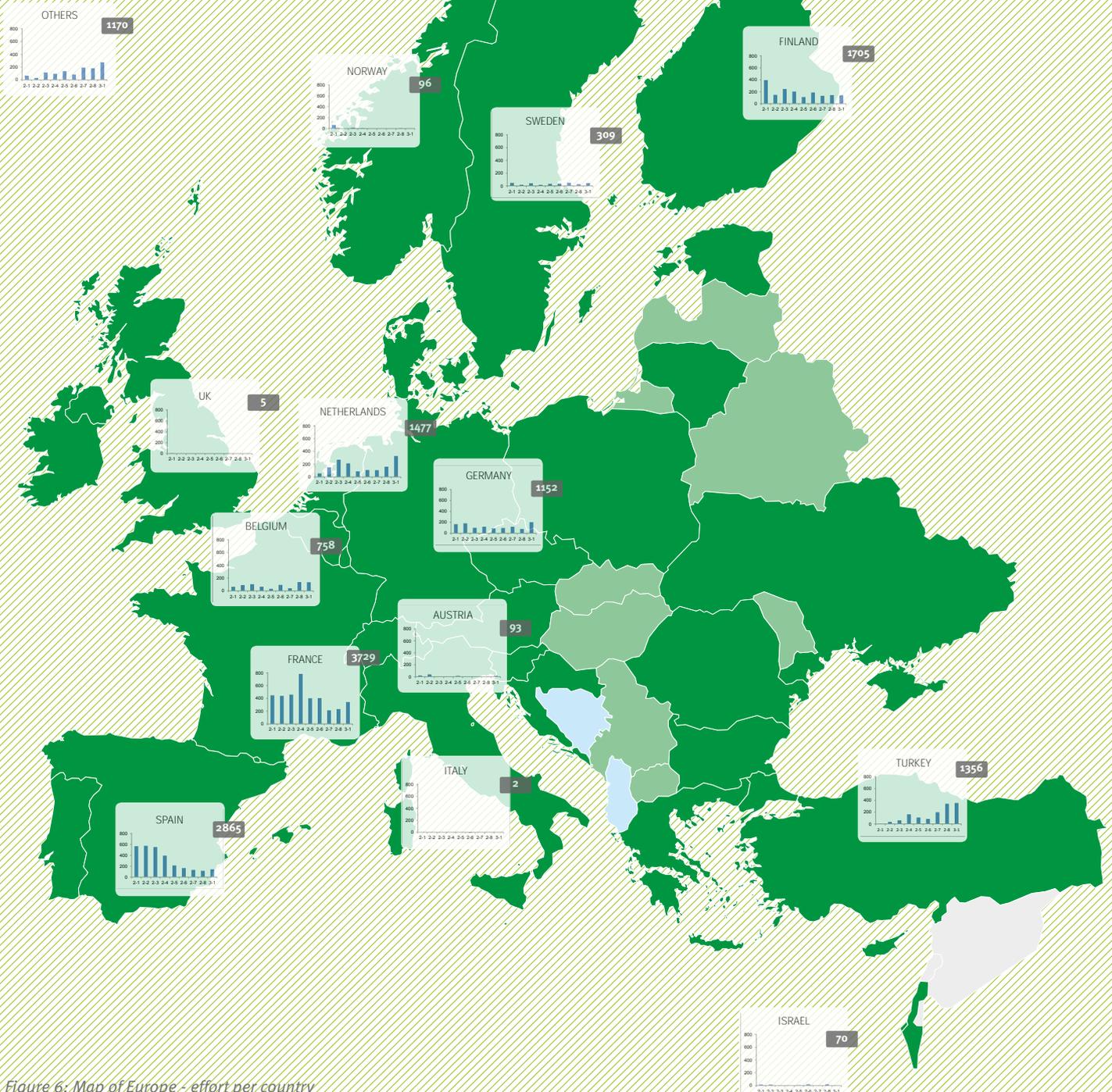


Figure 6: Map of Europe - effort per country

## Appendix B

# ITEA Websites and login

ITEA has a public website and a Community website.

### Public website



The public website <https://itea3.org> gives you information about the:

- ITEA organisation, its vision, structure and Office team;
- ITEA projects, participating partners and countries;
- events organised by ITEA as well as events organised by external parties;
- publications, e.g. magazines, annual report, vision 2030;
- news and media, including news items, press releases and press coverage; and
- Vice-chairman's blog.

### Community website

The ITEA Community website gives access to restricted information for the ITEA Community.



You can access the Community website via <https://itea3.org/community> (or by clicking on the Community button on the top right side of the public website). You need to login to MyITEA with your credentials to access this restricted information. A MyITEA account can be created by clicking on 'Create new account' on the login page of the Community website. The email address is used as a unique identifier.

Specific access rights determine what is visible on these pages for each person. Depending on these rights the following data can be accessed:

- Project management and project documents – e.g. PO, FPP, progress reports and change requests;
- Living roadmap;
- Evaluation and reviewing and all necessary documents – e.g. evaluation forms and review presentations;
- Meetings and binders;
- ITEA calendar;
- General ITEA information – e.g. guidelines, templates and corporate identity;
- Contacts; and
- Events – e.g. registration, booth, project idea tool.

## Appendix C

# Glossary of terms

3D	Three-dimensional
ACI	Advanced Co-simulation Interface
AI	Artificial Intelligence
ARTEMIS	Advanced Research and Technology for Embedded Intelligence and Systems
BBC	British Broadcasting Corporation
BSG	(ITEA) Board Support Group
DC	(ITEA) Directors Committee
ERA	Exploitation Related Achievement
EU	European Commission
FCT	Fundação para Ciência e Tecnologia
FMI	Functional Mock-up Interface
FPP	(ITEA) Full Project Proposal
HLG	High Level Group
IA	Industry Association
ICT	Information and Communication Technology
IFC	ITEA / ITEA 2 / ITEA 3 Founding Company
IND	Industry
IoT	Internet of Things
IT	Information Technology
ITAC	ITEA (Public) Authorities Committee
ITEA	Information Technology for European Advancement
KPI	Key Performance Indicator
NPC	(EUREKA) National project co-ordinator
OTH	Others
PENTA	Pan European partnership in micro and Nano-Technologies and Applications
PO	(ITEA) Project Outline
PY	Person-years
R&D	Research & Development
RES	Research institutes
RT	Real-time
S3C	Smart countries & cities congress
SCEWC	Smart City Expo World Congress
SiSS	Software-intensive Systems & Services
SME	Small and Medium-sized Enterprise

SotA	State-of-the-Art
SRA	Strategic Research Agenda
SSF	Swedish Foundation for Strategic Research
STG	(ITEA) Steering Board
UML	Unified Modeling Language

### ISO country codes

AUT	Austria
BEL	Belgium
FIN	Finland
FRA	France
DEU	Germany
ISR	Israel
ITA	Italy
NLD	Netherlands
NOR	Norway
ESP	Spain
SWE	Sweden
TUR	Turkey
GBR	Great Britain



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