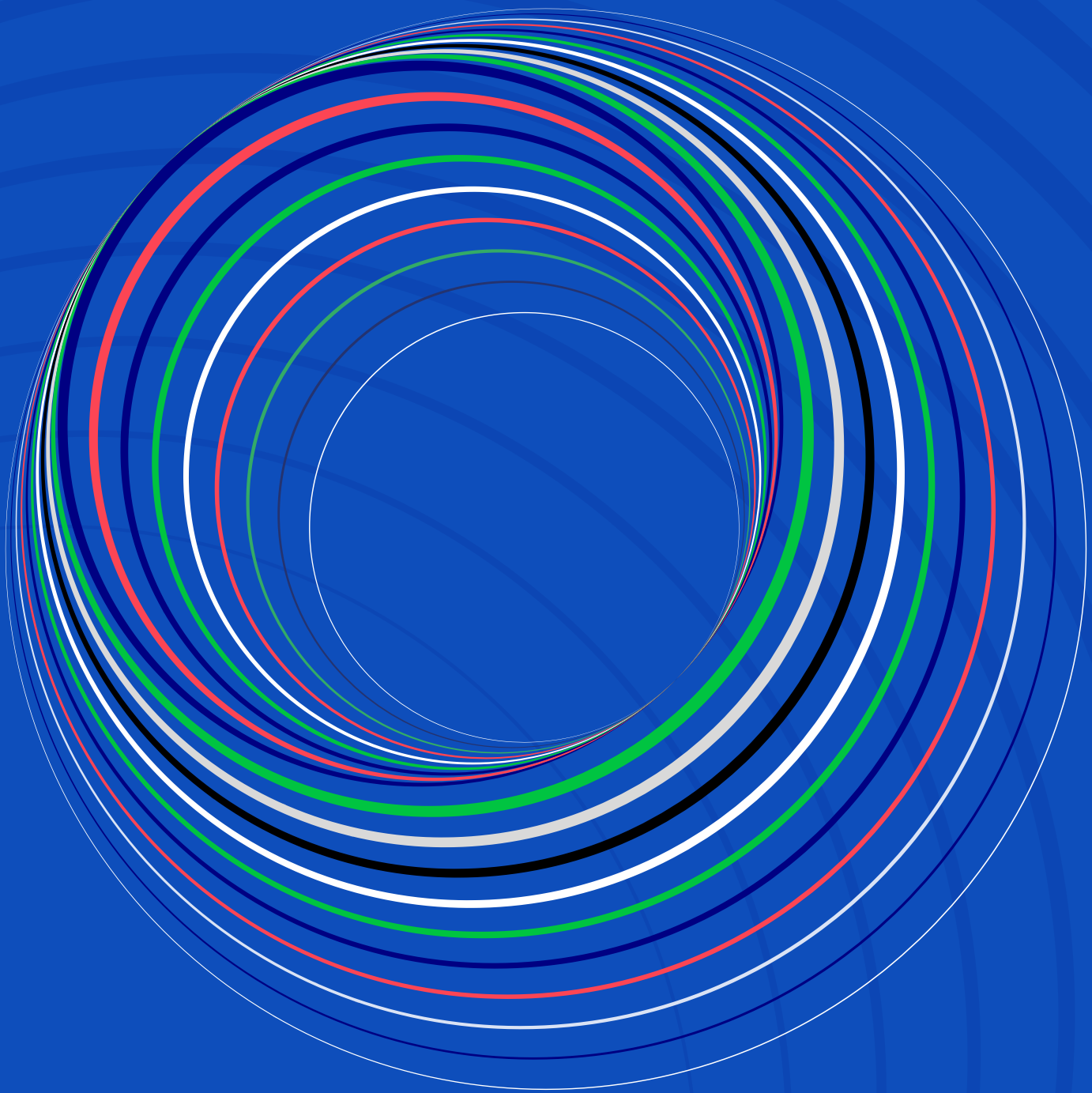
ITEA
Annual report 2025



ITEA4

eureka

ITEA is the Eureka Cluster
on software innovation

The Quality Management System of ITEA Office is ISO 9001:2015 certified.

Contents

About ITEA

ITEA is the Eureka RD&I Cluster, dedicated to driving innovation in software and systems. Our programme and Community support a domain-agnostic digital transition through funded applied R&D projects aiming for impact. ITEA projects integrate advanced technologies from various fields and focus on deploying those in combination with innovations in the software and systems domain to develop novel integrated solutions, products and services.

Our vision

ITEA is your pre-eminent Cluster for driving innovation and creating exceptional impact through applied and funded research in the software and systems domain. Projects of our strong and lively Community contribute to the socio-economic development of the Eureka countries and pave the way for its members to successfully participate in the disruptive 'Cyber-Physical-Metaverse' business opportunity through products, services and standards. Thanks to participation in ITEA, industry can gain a competitive edge by joining the 'melting-pot' of the diverse Community with bottom-up topics that perfectly fit their innovation agenda.

Our mission

Software and systems innovations, which are the main focus of ITEA, lie at the heart of the digital transformation and will provide access to, for example, the emerging Cyber-Physical-Metaverse. We provide a dynamic environment that brings together partners from our innovative global Community to develop and execute impactful projects around these evolutions. By fostering collaboration, we support our project partners and the Public Authorities to match and transform visionary ideas into groundbreaking products, solutions and services, and to lead in shaping the future of technology.

ITEA Key features

To ensure optimal support for the ITEA Community, ITEA stands for:

- **Global and trusted cooperation in an industrial community**
  ITEA stimulates innovation projects in a global community of large industry, small and medium-sized enterprises (SMEs), start-ups, academia and customer organisations. ITEA's bottom-up project creation ensures that the project ideas are industry-driven and based on actual customer needs. ITEA provides a trusted framework for cooperation in which standard project collaboration agreements are available, including the complex domains of confidentiality and intellectual property. ITEA is managed by and for industry in close cooperation with the national Public Authorities (PAs).

- **Project financing through national public and private funding**
  The ITEA programme is publicly funded on a national level. Each ITEA project partner can apply for funding from their own national Public Authority. An early dialogue between project teams and public authorities supports alignment with national priorities and the best possible opportunities for funding that lead to high success rates.

- **Focus on high-quality processes and support**
  ITEA adopts a flexible and supportive coaching approach for project consortia to maximise results and impact. Annual bottom-up Calls for projects, brokerage events and a two-step evaluation process ensure project quality. During the project lifetime, ITEA provides full-cycle project monitoring in a peer-to-peer mode with digital reports and physical reviews to improve quality and value creation of projects.

- **Commercialisation of research results**
  ITEA enables organisations to create actual commercial results from research projects. Impact is one of the core values in ITEA; impact on business, economy and society. Impact is central during the project lifecycle: in proposal evaluation, monitoring, closure and in communication of the results.

Message from our Chairman

We invite you to check the message from our Chairman Dirk Elias at:
https://vimeo.com/1161218973/58d36880e9

Eureka and ITEA

ITEA is the Eureka RD&I Cluster, dedicated to driving innovation in software and systems. Eureka is the world's biggest public network for international cooperation on RD&I, present in over 45 countries. Eureka aims to boost the competitiveness and innovation capacity of Eureka countries and industries via international collaboration in funded projects.

Eureka has different instruments to foster innovation, including the Eureka Clusters Programme (ECP). The ECP consists of industry-driven and bottom-up RD&I programmes with thematic communities of experts, including ITEA. These Clusters enable Eureka to be proactive, faster and more flexible, and to also address new and emerging areas and cross-cutting themes for RD&I.

The industry-driven, bottom-up focus of the Eureka Clusters Programme and the close connection with national RD&I priorities perfectly complement the multinational and research excellence focus of Horizon Europe. In some cases, an ECP project might be the logical next step for a Horizon Europe project consortium to successfully exploit their project results and bring them to the market.

This report highlights important events and offers insights into the impact generated by our main pillars - the ITEA projects. It also provides an overview of the progression of the ITEA Calls and a glimpse into ITEA's priorities for 2026.

We want to thank all those who contributed to ITEA's success this year: our industry and academic partners, national funding organisations and the many dedicated Community members. And we wish you a pleasant read!

1 / About 2025

The year 2025 marked another important milestone for ITEA. It was a year of continuity, strong Community involvement, and clear progress towards the future. A key highlight was the successful relicensing of the Eureka Clusters. This confirmed ITEA's strong position within the Eureka framework and provided a stable basis for the years ahead. It also reflected the confidence of our stakeholders in ITEA and in its ability to deliver real impact through industry-driven, collaborative research, development.

In 2025, ITEA also published the 50th and final edition of its Magazine. After 17 years, this marked the transition to a fully digital communication approach.

Another key development was the release of the Strategic Research and Innovation Agenda (SRIA). As a bottom-up RD&I programme, ITEA uses the SRIA to combine a long-term strategic perspective with new topics that emerge from its bottom-up Calls.

Finally, 2025 saw the launch of the first ITEA Technology webinar. Focused on the Cyber-Physical-Metaverse, this new initiative attracted a strong audience and created a valuable platform for sharing knowledge on emerging technologies, further strengthening the ITEA ecosystem.

1.1 ITEA 2025 Timeline

The following timeline offers a comprehensive overview of the key activities, achievements and events of ITEA in 2025.

17 February

FPP submission deadline ITEA Call 2024

Of the 67 consortia that submitted a Project Outline for ITEA Call 2024, 47 were invited to prepare a Full Project Proposal (FPP). By the deadline of 17 February, 38 proposals had been submitted, representing a total effort of 4,700 person years.

5-7 March

Eureka Co-Chair event: Network meeting - Bonn, Germany

The Eureka meeting in Bonn, held in the former plenary chamber of the German Federal Parliament, was of particular significance for the Clusters in the context of the relicensing process. All Clusters presented their applications and received feedback from Public Authorities for the final submission. During the meeting, Singapore and South Africa were re-associated with Eureka. ITEA looks forward to continuing its fruitful collaboration with the Singaporean community and stands ready to support South African partners in engaging with the ITEA Community.

18 March

Publication of 50th and final edition of the ITEA Magazine

As we turned the page towards a new, fully digital communications approach, we published the 50th and final edition of the ITEA Magazine. In this final edition, we celebrated 17 years and 50 editions of the ITEA Magazine, featuring reflections from long-standing Community members and highlighting impactful ITEA project stories.

Check the 50th ITEA Magazine:
https://itea4.org/magazine/50/march-2025.html

31 March

ITEA Call 2024 labelling announcements

On 31 March, the ITEA Board officially labelled 26 innovative projects in ITEA Call 2024, a record number. These projects represent an effort of 3,276 person years and involve 362 partners from 18 countries. The 2024 ITEA projects show a strong mix of emerging technologies, particularly artificial intelligence, applied across healthcare, industry, energy, mobility, safety and cybersecurity.

Learn more about these labelled projects:
https://itea4.org/news/itea-call-2024-labelled-projects-lead-the-way-in-digital-transformation.html

Or check the short summary of the labelled ITEA Call 2024 projects in section 2.4 of this Annual Report.

1 - 2 April

Global Innovation Summit 2025 - Hannover, Germany

Eureka's Global Innovation Summit in 2025 wrapped up with more than 900 attendees from over 50 countries. Organised by Eureka's Canadian and German Co-Chairs and held within Hannover Messe on 1 and 2 April, Eureka's flagship event featured insightful keynote speeches, panel discussions, Eureka Academy and country sessions, and plenty of networking, matchmaking and pitching opportunities.

17 April

Project Kick-off & Execution briefing webinar - ITEA Call 2024

To support project leaders and technical contacts of the labelled ITEA Call 2024 projects to take off smoothly, the ITEA Office organised a Project Kick-off & Execution briefing webinar on 17 April 2025. The webinar covered essential processes, including an introduction to ITEA and its core concepts, along with valuable tips for a successful project initiation and execution. Participants received guidance on preparing Change Requests, Project Progress Reports and Project Reviews. Communication, dissemination support and expectations were also addressed.

Presentations and recordings are available at:
https://itea4.org/article/project-kick-off-execution-briefing-itea-call-2024.html

19-20 May

19-20 May B2B Software Days 2025 - Vienna, Austria

On 19 and 20 May, the International B2B Software Days took place at the Vienna City Hall in Austria. ITEA was invited by FFG, the Austrian funding agency, to host the workshop 'Accelerating innovation through ITEA: Teaming up internationally on the Cyber-Physical-Metaverse and other topics that matter.'
This session highlighted how ITEA enables international collaboration through funded projects on pioneering topics, including the Cyber-Physical-Metaverse, which explores the seamless interaction between the real and virtual worlds.

Throughout the event, ITEA was also represented in the exhibition area.

Partly thanks to the event and the improved funding conditions presented there, Austrian participation in ITEA increased, with 12 of the 54 project proposals now including Austrian partners.

More information:
https://2025.b2bsoftwaredays.com/

2 June

ITEA welcomes Bilge Özdemir as ITEA Project Coordinator

On 2 June, Bilge Özdemir joined the ITEA Office as Project Coordinator. With more than eight years of experience in research and development, including involvement in several award-winning ITEA projects, she brings strong expertise in managing and coordinating international RD&I activities.

Bilge introduces herself at:
https://itea4.org/news/we-welcome-bilge-ozdemir-as-itea-project-coordinator.html

11-13 June

Eureka Network meeting – Montréal, Canada

The Eureka Network meeting in Montréal was a key element of the Canadian-German Co-Chairmanship for 2024–2025 and marked the first time a high-level Eureka meeting was held outside Europe. The choice of Montréal underscored the Canadian-German Co-Chair's emphasis on global cooperation and collaboration with trusted international partners to address shared challenges.
The meeting also included the official handover ceremony in which Switzerland took over the rotating Eureka Chairmanship from the Canadian-German Co-Chair on 1 July 2025. Another key milestone was the relicensing of the Eureka Clusters.

13 June

Eureka Cluster Programme and Clusters relicensed - Montréal, Canada

At the third Eureka Network meeting under the Canadian-German Co-Chairmanship, the relicensing of the Eureka Clusters Programme (ECP) was approved. Four years after its initial launch, the ECP and its individual Clusters were evaluated and formally renewed. With this new licence, ITEA can continue to launch bottom-up Calls and participate in Joint Eureka Clusters Calls. We remain fully committed to supporting software and systems innovation across Europe and beyond.

24 June

ITEA Call 2025 - Information session with RVO – Eindhoven, the Netherlands

On 24 June, ITEA and RVO (Netherlands Enterprise Agency) co-organised an ITEA Call 2025 information session at the AI Innovation Center in Eindhoven. The session provided an overview of how to get involved in ITEA and what support is available to Dutch organisations.

Participants were invited to present a project idea for Call 2025 or deliver a short company pitch. The session concluded with networking drinks. Several organisations that joined this session later attended the ITEA PO Days in Estoril, Portugal, and submitted a project proposal in ITEA Call 2025.

1-2 July

Kick-off meeting Swiss Eureka Chairmanship – Bern, Switzerland

From 1 July 2025 to 30 June 2026, Switzerland, represented by innovation funding agency, Innosuisse, assumes Eureka's Chair. This leadership role coincides with a major milestone: Eureka's 40th anniversary.
In this capacity, the Swiss Chair has outlined an ambitious agenda, built around three forward-looking priorities:

- Strengthening collaboration: among Eureka's beneficiaries, members and partner organisations,
- Amplifying impact: showcasing successes and shaping the future funding portfolio, and
- Empowering beneficiaries: through improved support and operational excellence.

8 July

Innovation Forum - II Fórum económico sobre novas tendências e inovações

On 8 July, ITEA Chairman Dirk Elias was invited to introduce ITEA, ITEA Call 2025 and the Technology Webinar on the Cyber-Physical-Metaverse during the Innovation Forum – II Fórum económico sobre novas tendências e inovações, organised by the German-Portuguese Chamber of Commerce (AHK).

18 July

ITEA Technology webinar on the Cyber-Physical-Metaverse

The first ITEA Technology webinar on the Cyber-Physical-Metaverse was held on 18 July, organised in collaboration with ITEA Board members Bosch and Siemens. The session aimed to improve understanding of the concept, gauge interest and identify key topics for deeper exploration.
ITEA Chairman Dirk Elias and representatives from Bosch and Siemens shared forward-looking insights and examples. Participants contributed actively during the concluding Q&A. Follow-up sessions will be organised in 2026.

Recordings are available at:
https://itea4.org/itea-technology-webinar-cyber-physical-metaverse-introduction.html

16-18 September

Online ITEA Pre-PO Days sessions & ITEA PO Days 2025

The annual ITEA Call for projects was launched on 16 September during the ITEA PO Days in Estoril, Portugal. More than 300 participants from 18 countries gathered on 16, 17 and 18 September to explore over 80 project ideas, form partnerships and prepare proposals for ITEA Call 2025. The event also showcased the concrete societal and business impact of the recently completed and running ITEA RD&I projects.

Online Pre-PO Days sessions

To ensure participants were well prepared, several online sessions were organised in advance, enabling attendees to use their time in Estoril effectively by focusing on idea sharing and consortium building.

- Online ITEA Call 2025 Preparation session

  This session introduced the Call and explained the online brokerage tools, followed by a Q&A for participants.

  Slides and recordings are available at
  https://itea4.org/podays2025/preparation-session.html

- ITEA Country information sessions

  ITEA is funded at national level, and each partner applies for support through its own national Public Authority. Early dialogue between project teams and Public Authorities supports alignment with national priorities and strengthens funding opportunities. That is why we offered Public Authorities the chance to present their national priorities, eligibility criteria and funding outlook before the ITEA PO Days 2025 in online country information sessions.

  This year, 13 sessions were held. Recordings are available at:
  https://itea4.org/podays2025/national-priorities-eligibility-criteria-and-funding-outlook-2025.html

- ITEA Project idea pitch sessions

  Two online project idea pitch sessions were organised in the week before the event in order to enable participants to learn about the projects upfront and optimise their time at the physical event for fruitful discussions and consortia building. 58 pitches were presented during the two sessions.

  The recordings are published at:
  https://itea4.org/podays2025/project-idea-pitch-session.html

ITEA PO Days – physical event

The physical ITEA PO Days event was held on 16, 17 and 18 September at the Estoril Congress Center.

The event resulted in the submission of 38 Project Outlines for ITEA Call 2025, out of the total of 56 submitted POs. This number clearly shows the value and success of the ITEA PO Days.

ITEA PO Days in numbers

- *339 registrations/314 participants (25 no-show)*
- *18 countries*
- *88 project ideas uploaded in the Project idea tool*
- *58 online project idea pitches*
- *55 project idea posters*
- *24 plenary project idea update presentations*
- *High overall evaluation score of 4.3 out of 5.0*

A full report on the event can be found at:
https://itea4.org/news/itea-po-days-2025-connecting-people-powering-innovation.html

All recordings and presentations can be downloaded from the dedicated ITEA PO Days 2025 website:
https://itea4.org/podays2025




16 September

ITEA exhibition 'Highlights of the ITEA impact'

The ITEA exhibition 'Highlights of the ITEA impact' opened this year's ITEA PO Days. In total, 34 ITEA projects presented their results and impact. The ITEA Office also hosted guided tours for Public Authorities and ITEA Body representatives.

The exhibition posters are available at:
https://itea4.org/itea-project-exhibition-2025.html

16 September

ITEA Awards of Excellence ceremony

During the ITEA Awards of Excellence ceremony, we celebrated the exceptional outcomes of ITEA's four most outstanding software innovation projects that finished between mid-2023 and mid-2024. This year's winners are: EXPLAIN, IWISH, IML4E and SIGNET.

AI Call 2021

EXPLAIN - AI2021-086

EXPLanatory interactive Artificial intelligence for INdustry

Project leader:
ABB AG Forschungszentrum Deutschland (DEU)

To bridge the gap between industrial expertise and AI capabilities, EXPLAIN delivered strong technical results and noteworthy innovations compared to competitors, with promising exploitation potential. The project was supported by an experienced, well-balanced and complementary consortium, including use-case providers that are excited to carry the insights into the future, laying the groundwork for long-term impact. The EXPLAIN project received the 2025 ITEA Award of Excellence in the category 'Innovation' for this great achievement.

AI Call 2021

IWISH AI2021-066

Intelligent Workflow optimization and Intuitive System interaction in Healthcare

Project leader:
Philips Medical Systems Nederland BV (NLD)

IWISH has made a strong contribution to enhancing operating room (OR) efficiency and driving innovation in clinical workflows. It is well positioned to help healthcare providers reduce costs, optimise patient care and integrate intelligent clinical workflows into everyday practice. With a dedicated consortium involving key stakeholders from the target domain, clinical integration is already on the horizon to turn this vision into reality. The IWISH project received the 2025 ITEA Award of Excellence in the category 'Business impact' for this great achievement.

AI Call 2020

IML4E - 20219

Industrial Machine Learning for Enterprises

Project leader: Fraunhofer FOKUS (DEU)

IML4E has created foundational open-source technologies and methodologies, and successfully delivered an important contribution to the ETSI standardisation. The project resulted in an important framework to leverage the ML and AI applications in the European industry. This framework already led to positive impact on the products and services of the participating partners. The IML4E project received the 2025 ITEA Award of Excellence in the category 'Standardisation' for this great achievement.

ITEA 3 Call 7

SIGNET - 20052

Sensing and Image-Guided Neurological therapies, cardiac Electrophysiology and Tumour treatments

Project leader:
Philips Medical Systems Nederland BV (NLD)

SIGNET has delivered significant results that contribute to better patient outcomes and increased efficiency within healthcare systems, enhancing lives in multiple ways. The project achieved strong progress towards exploitation during its runtime, and it is expected to continue generating meaningful impact through the commercialisation of its results and ongoing standardisation efforts, ultimately delivering sustained benefits for both individuals and society as a whole. SIGNET received the 2025 ITEA Award of Excellence for Exceptional Excellence for this great achievement.

26 September

Portuguese ITEA 4 information session

ITEA was invited by Agência Nacional de Inovação (ANI) to present an introduction to ITEA and share details about the newly opened ITEA Call 2025 during a webinar designed to guide Portuguese organisations in participating in ITEA Calls.

7 October

ESI Symposium 2025 - Eindhoven, the Netherlands

ITEA participated in the ESI Symposium 2025 in Eindhoven on 7 October, connecting with engineering professionals, industry leaders and researchers around this year's theme: 'Accelerate the innovation of engineering'. The event provided a great opportunity to highlight the achievements of TNO-ESI within ITEA and to showcase the opportunities that ITEA can offer to the symposium's participants.

13 October

ITEA welcomes Lucía Salgado García as ITEA Project Coordinator

On 13 October, Lucía Salgado García joined the ITEA Office as Project Coordinator. Throughout her career, she has built a strong reputation for optimising processes, aligning stakeholders and supporting cross-functional delivery. Her collaborative approach, strategic perspective and ability to bridge business and IT priorities make her a valuable addition to the ITEA Office team and the Community.

Learn more about Lucía at:
https://itea4.org/news/itea-welcomes-lucia-salgado-garcia-as-project-coordinator.html

1 November

Launch Strategic Research and Innovation Agenda (SRIA)

We released our SRIA combining a long-term strategic focus with evolving topics emerging from our bottom-up Calls. This latter component is updated annually based on input provided through ITEA project proposals.

Discover the SRIA at:
https://itea4.org/sria/itea-strategic-research-agenda.html

4-6 November

First Network meeting – Zürich, Switzerland

The Eureka Network meeting in Zürich was the first to be chaired by the newly appointed Swiss team and also provided the opportunity to gather for the first Cluster Steering Board (CSB) meeting. Among the agreed activities is the preparation of thematically focused events, bringing together high-level decision makers from Public Authorities and industry to develop shared perspectives on future topics within the scope of RD&I instruments such as the Eureka Clusters.

27 November

Final review of the last running ITEA 3 project

With the completion of Secur-e-Health, the ITEA 3 programme has now formally concluded. Over its 7-year duration, 88 projects were completed, including six projects from the Joint AI Call 2020. These projects together represent 7,633 person years of effort and an overall investment of €739 million. In total, 834 organisations took part in ITEA 3, comprising 446 SMEs, 227 large industry partners, 104 universities, 42 research institutes and 15 partners from other organisations and government bodies.

The programme succeeded in maintaining a broad, committed Community, delivering strong results. The most striking success lies in exploitation.
ITEA 3 projects delivered 2,778 new or improved products, services or systems. This exceptional outcome demonstrates the strong market relevance of the programme and the continued commitment of the ITEA Community to turning research into concrete impact.

Also the great number of 446 engaged unique SMEs is an important achievement, confirming the essential role of small and medium-sized enterprises within the ITEA ecosystem.

8 December

Recertification DEKRA audit - Eindhoven, the Netherlands

On 8 December, ITEA completed a recertification ISO 9001:2015 audit with DEKRA. The audit confirmed that the quality management system remains effective, with no changes needed to the audit programme. The organisational context, legal framework, scope and structure were all found to be appropriate. Strong management involvement, clear objectives and well-controlled processes were noted as particular strengths.

The audit report has now been passed to the certification manager for the required procedural and legal review, after which the renewed certificate can be issued.

19 December

Announcement of ITEA Call 2025 POs invited for FPP submission

On 19 December, 28 of the 56 submitted Project Outlines, representing a total effort of 2865 person years, were invited to submit a Full Project Proposal before the deadline of 12 February 2026.

1.2 Results of the ITEA 2025 Improvement priorities

As part of the annual quality process, key improvement priorities were defined in close collaboration with the ITEA Board to further strengthen the ITEA Programme. In 2025, the primary focus was on expanding the attractiveness of the ITEA programme, increasing impact, accelerating collaboration, promoting stakeholder satisfaction and further optimising operational efficiency.

2025 marked the year in which all Eureka Clusters were relicensed. A total of 31 countries voted in favour of ITEA. This strong endorsement reflects the continued confidence in ITEA's significant value to the Community and the impact generated by its projects.

In terms of attractiveness, the ITEA PO Days 2025 achieved a record number of registrations, and the 88 submitted project ideas closely approached last year's record number of idea submissions. These ideas resulted in 56 Project Outlines for the ITEA Call 2025, representing a total effort of 5,451 person years. This made the 2025 Call one of the largest since the start of ITEA 3.

These results demonstrate that ITEA is a trusted and valued Community. Together with the well-established ITEA support and coaching approach, they lead to high levels of stakeholder satisfaction and foster an even stronger, engaged and returning Community.

To ensure faster implementation of innovative ideas, ITEA continued to support Public Authorities and align with their processes for the benefit of project participants. A funding table was developed, providing a comprehensive overview of the main countries supporting ITEA Call 2025. This table assists project partners with their funding applications, reducing the lead time from proposal to project initiation and enabling faster acceleration.

Operational efficiency was further enhanced through the automation of time-consuming processes. This included the professionalisation of signing procedures, such as the introduction of a DocuSign process for DoA submissions. In addition, system improvements now support the ITEA Office in managing a wide range of process- and Call-related activities. The Communications department was also responsibly supported by AI-based tools, improving overall team efficiency.

Ongoing efforts included active participation in ECP groups governing ECP execution, the expansion of the ITEA Impact stream with three new stories (see section 1.3.1), and the continued maintenance of high operational quality, as confirmed by DEKRA through the successful ISO 9001 recertification.

1.3 ITEA 2025 Impact highlights

Through the ITEA programme, ITEA projects are always looking for improvement on the current State-of-the-Art, such as in production processes, the alignment of information streams and energy optimisation. Via a supportive coaching approach, ITEA helps partners to get the most out of their project participation. In this section, we share some of our main achievements and impact.

1.3.1 ITEA project Impact stories

As impact is one of ITEA's main ambitions, we have been gathering remarkable project Impact stories since 2017, and a total of 47 stories have already been published. Below, you can discover the highlights of three outstanding projects that have recently been added to the long list of ITEA Impact stories. The full overview of Impact stories can be found online via https://itea4.org/impact-stream.html. There, you can also create your own personal ITEA Impact stream by choosing the domains, countries and topics of your interest.

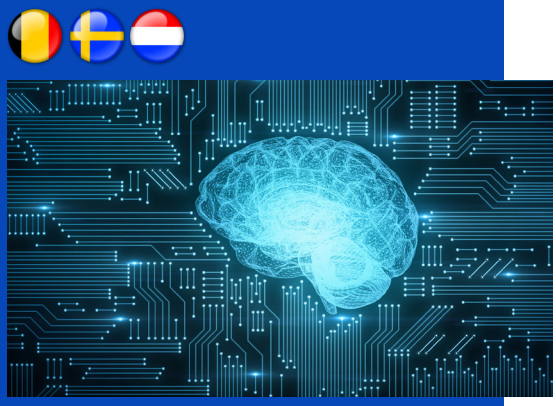
I²PANEMA Impact story

As global trade continues to expand, the pressure on ports to handle increasing cargo volumes efficiently and sustainably is greater than ever. By 2030, European cargo traffic is expected to rise by 50%, but with space limitations, ports must turn to innovation rather than expansion. The I²PANEMA project stepped in to address these challenges by integrating smart Internet of Things (IoT) solutions into port operations. Within I²PANEMA, German SME NautilusLog led efforts to develop ISO 4891, a new global standard for smart applications for ships.

Impact highlights:

- Within I²PANEMA, German SME NautilusLog led efforts to develop ISO 4891, a new global standard for smart applications for ships, reducing paperwork, improving compliance and enhancing data transparency. The project results directly led to a growth from five to more than 25 international employees.
- I²PANEMA contributed to the expansion of Prodevelop's Posidonia Port Solution Suite. Since the project's completion in December 2022, Prodevelop has experienced a 70% revenue growth and a 25% increase in its workforce.
- IoT-driven ferry transport optimisation in Hamburg improved arrival time predictions to within 15 seconds, enhancing passenger experience and operational efficiency.
- In the Assan port in Türkiye, sensor-based container localisation has increased the number of operations in one shift by >10%, decreased completion time for one movement by >15% and reduced accidents by >50%. This has increased profitability for the port as 10% more container movements can be made.
- AI-powered pollution monitoring in Gijón led to a 100% reduction in response time for environmental alerts, helping ports adapt to sustainability challenges in real time.
- The innovative Active Noise Control (ANC) technology developed by Fraunhofer and TriCon, reduced port noise levels by 15 decibels and received the 2021 CNA 'Intelligence for Transport & Logistics' Innovation Award.

IMPACT Impact story



Healthcare faces many challenges, including improving patient outcome and working more cost-effectively, while the demand is growing, staff capacity is declining, and new clinical and technological developments succeed each other quickly. The ITEA project IMPACT has addressed several challenges by leveraging the power of data to move towards intelligence-based healthcare. Data analysis for clinical business intelligence has been accelerated, reducing the time needed for data analysis to less than five minutes, compared to the days or weeks it previously took. IMPACT will continue to impact society and further enhance patient experience, improve population health, reduce costs and improve the work life of healthcare providers.

Impact highlights:

- Overall, IMPACT has demonstrated remarkable success in improving time efficiency, accuracy, and overall healthcare workflows:
  - FEops HEARTguide significantly reduced procedure times by 30%, cutting the use of X-ray contrast agents by 25% and lowering radiation exposure by 14%.
  - In brain oncology, the segmentation planning time for brain metastases has been halved, reducing from 60 minutes to 30 minutes.
  - MRI acquisition times have decreased significantly to just 6-8 minutes.
  - Tumour visibility during surgery has been improved, allowing for a 20% reduction in the required excision margin, thus preserving more healthy tissue.
- Across the consortium, eight people were hired, a joint venture of Quantib and UMCU was established and real-world exploitation has begun with 25 new products, services and systems:
  - FEops has signed a contract for preoperative planning of 2,000 patients with a TAVI manufacturer and released the Left Atrial Appendage Occlusion (LAAO) workflow to the market. The number of LAAO procedures that were planned using FEops HEARTguide has grown by more than 700% since 2020. There was also a significant impact on the number of employees in FEops, which nearly doubled since the start of the IMPACT project.
  - Following the success of the IMPACT project, the partnership between SyntheticMR and Philips has continued to grow. Together, the companies now offer Smart Quant 2D and 3D, a powerful combination of SyntheticMR's SyMRI and Philips' SmartSpeed, designed to significantly enhance imaging speed, efficiency, and accuracy. The 2D version is already offered to customers world-wide and SyMRI 3D has secured regulatory approvals in the US, EU, and Japan, with a full roll-out on Philips 3T systems in 2025, called SmartQuant 3D.

SAMUEL Impact story

Additive manufacturing (AM) has moved far beyond rapid prototyping, but high capital expenditures, material cost, and the need for specialised skills still limit full-scale implementation. The SAMUEL project addressed this by providing knowledge and assisting stakeholders across the AM workflow, making the process more consistent, reliable and efficient. Using AI-driven build-time estimation, automated design checks and shape-based search tools allowing parts reuse, SAMUEL helps companies reduce failed prints, improve quotation accuracy and shorten production lead times, while protecting intellectual property.

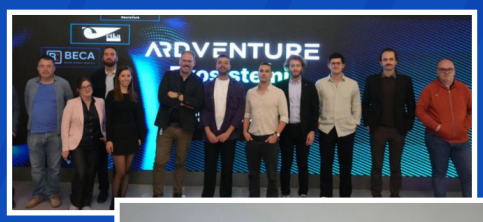
Impact highlights:

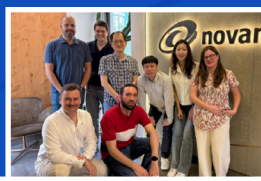
- SAMUEL represents a world-first achievement: prior to this project no tools existed that could use a company's own AM knowledge and past experience. This opens the door to new technical possibilities and new business opportunities.
- Machine learning (ML) models for build time estimation, developed in SAMUEL, achieved estimation error rates below 5% in many cases.
- Improvements have also been observed in the AM process itself, with design guidelines and sensor-based monitoring contributing to a 67% reduction in design errors and an approximately 20% reduction in manufacturing errors.
- For Cr3do, errors that previously led to failed builds, late-stage detection in post-production, and prolonged reprints have been almost completely eliminated, thanks to the results of the SAMUEL project. Time spent waiting idle has been cut by a factor of four, compared with earlier workflows in which multiple team members could remain inactive for hours while reprints were completed.
- 3DSemantix has already partnered with leading CAD and PLM editors and distributors in order to provide the best integration for 3DPartFinder, and is welcoming new partners. Two leading aerospace manufacturers working with several hundred part manufacturers will be testing the capabilities of the platform to find manufacturers with experience in AM and Machining processes.
- SAMUEL helps companies reduce costs by providing easy access to the most efficient and cost-effective 3D printing options. This makes it easier for small and medium-sized businesses to start using AM. Since about 75% of companies still don't use AM in their production, there is huge room for expansion. Early adoption of SAMUEL's results will help companies to improve their competitiveness in this fast-growing field.

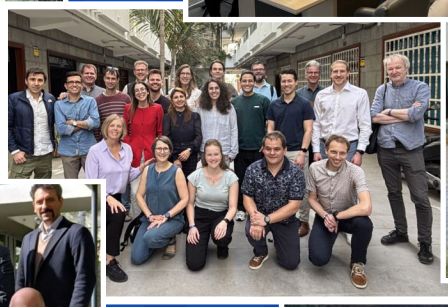
ITEA Call process

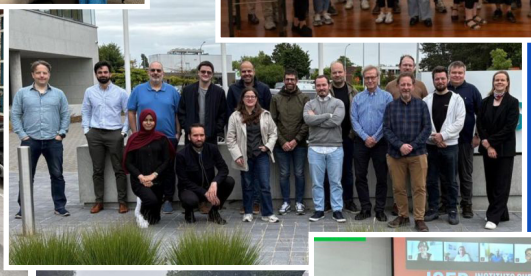
ITE

ITEA project reviews



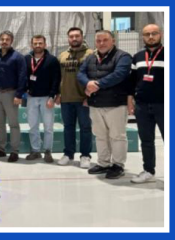






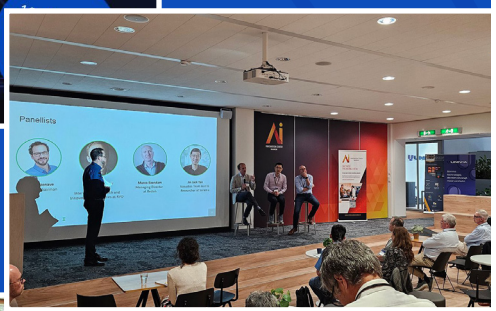
2025 through ITEA's lens

A Office



Highlights

Events



ITEA4

1.4 ITEA stakeholder satisfaction

Together, the different stakeholders of ITEA create the strong ITEA Community that forms the central point of the ITEA programme. Given the importance placed on quality by ITEA, the opinions, ideas and experiences shared within the ITEA Community are highly valued, as they contribute significantly to the ongoing improvement of the ITEA programme.

To collect this valuable information, ITEA conducts surveys following each event and completed process, including the PO phase, the FPP phase, reviews, project start-up and completion. Each survey contains questions about the participants' experiences during the respective process or event and requests suggestions for potential improvements.

The results of each survey are discussed within the ITEA Office and issues are resolved or further investigated. Presented here are some of the results and highlights from the 2025 surveys:

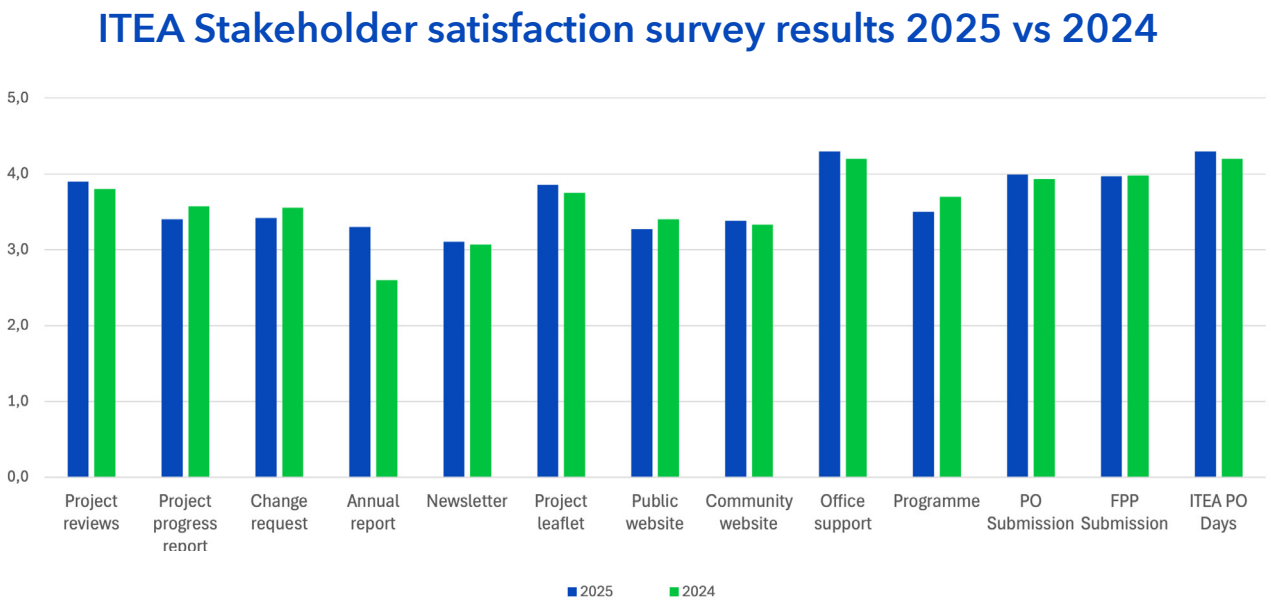


Figure 1: Evaluation scores of the Project leader and Technical contact satisfaction surveys and event surveys, 2025 vs 2024. Scores are measured on a scale of 5, where 1=very poor, 2=poor, 3=good, 4=very good and 5=excellent or an equivalent of these values.

Main highlights

- 98% of respondents across six surveys indicated they would recommend ITEA to a colleague.
- High satisfaction scores, similar to previous years.
- The main benefit of participating in the ITEA programme is easy access to international collaboration and strong networking opportunities.
- Additionally, ITEA provides a well-structured and flexible framework for project development, including an effective change request process and good coordination in finding suitable partners. The business-oriented and bottom-up approach helps ensure that research is applicable and market-driven.
- There are some elements/processes that can be improved to avoid unnecessary overhead and make it easier for the beneficiaries.

2/ Calls overview

2.1 ITEA programme size (status on 31 December 2025)

With the finalisation of the ITEA 3 project Secur-e-Health, the last project under ITEA 3 has come to an end. Ongoing projects now span Calls from ITEA 4 as well as the Joint Eureka Clusters Sustainability Call 2022. The Project Outline (PO) stage of ITEA Call 2025, the fifth Call under ITEA 4, has recently been completed. This Call delivered again a high number of 56 submitted Project Outlines. Following evaluation, 28 of these projects were invited to submit a Full Project Proposal (FPP), with the submission deadline set for 12 February 2026.

Since the start of ITEA 3, a total of 94 projects have been successfully completed, with 13 concluding in the past 12 months. By the end of 2025, 46 projects were ongoing (43 from ITEA 4 and 3 from the Joint Eureka Clusters Sustainability Call 2022). In addition, 24 ITEA 4 projects that have been awarded the ITEA label are awaiting final funding decisions.

Number of ITEA projects per project status since the start of ITEA 3

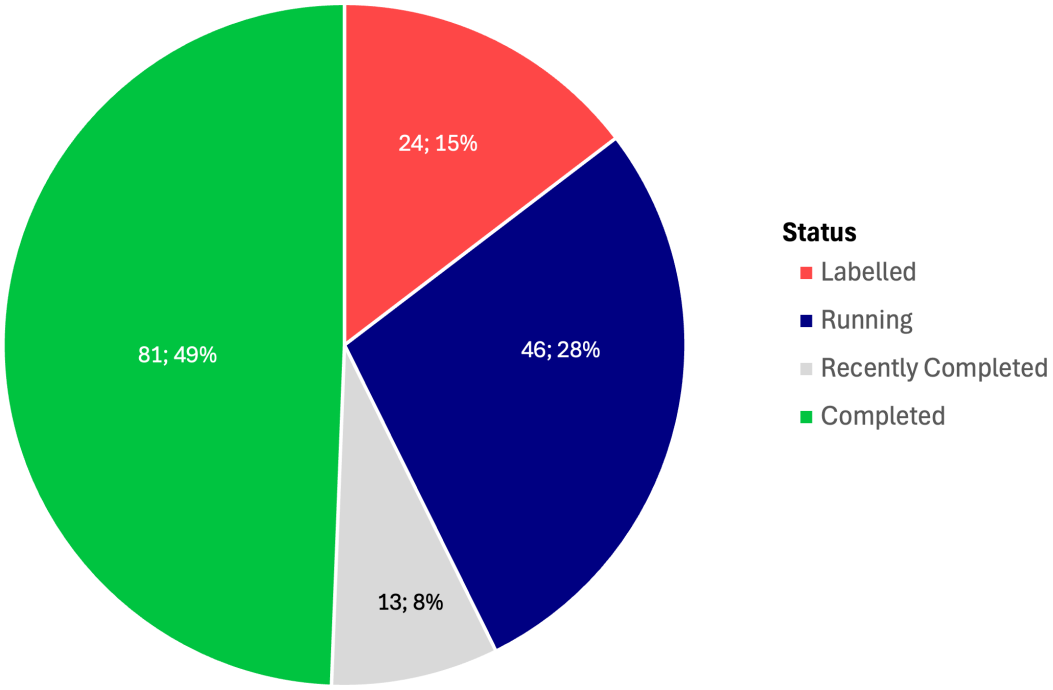


Figure 2: Number of ITEA projects per project status since the start of ITEA 3

All projects from the ITEA 3 Calls have now been completed, with funded Call sizes of €103 M (Call 1), €115 M (Call 2), €105 M (Call 3), €123 M (Call 4), and €94 M (Call 5). For Call 6, only nine out of 20 labelled projects were launched, resulting in a funded Call size of €59 M. Call 7, which resulted in eight launched projects, showed a slight increase compared to Call 6, reaching a funded Call size of €70 M. The Joint Eureka Clusters AI Call 2020, which ran in parallel with ITEA 3 Call 7, reached a funded Call size of €30 M.

The first Call under ITEA 4, ITEA Call 2021, has now stabilised with a funded Call size of €63 M, while the Joint AI Call 2021, running in parallel, reached a funded Call size of €23 M. The Joint Eureka Clusters Sustainability Call 2022 projects, with ITEA as the main Cluster, will amount to a total funded Call size of €3.4 M. In contrast, ITEA Call 2022, which ran in parallel, shows a more positive trend. Most funding contracts have been finalised, resulting in a funded Call size of €108 M. For ITEA Call 2023, most funding contracts have also been signed, with a small number of projects still awaiting finalisation. Current estimates indicate a funded Call size of approximately €115 M.

Finally, as only one ITEA Call 2024 project was partially running by the end of 2024, several funding decisions are still pending. Consequently, it is not yet possible to provide an accurate estimate of the funded Call size for ITEA Call 2024.

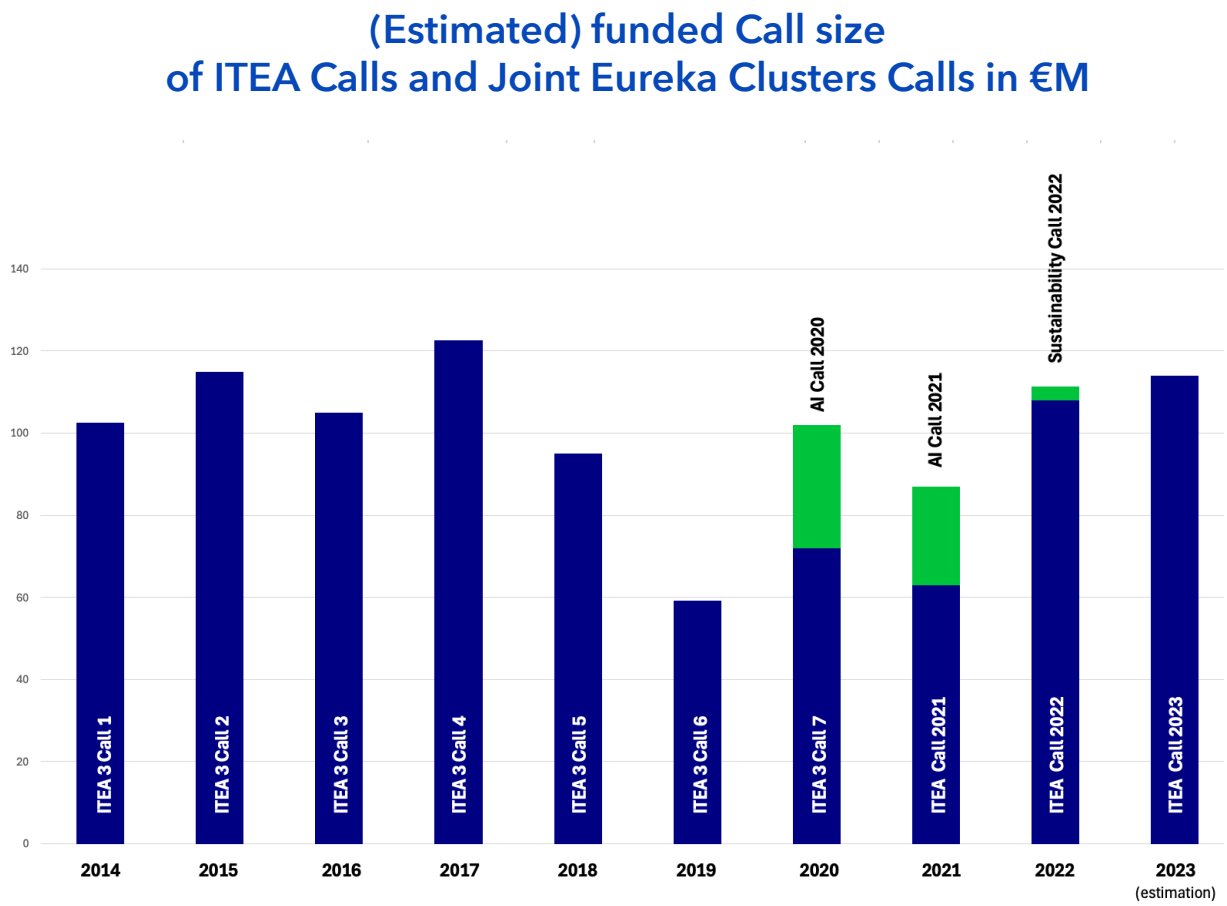


Figure 3: (Estimated) funded Call size of ITEA Calls and Joint Eureka Clusters Calls in million euros.

2.2 ITEA Calls and Joint Eureka Clusters Calls progress

The next graph illustrates the progress of ITEA Calls through various hit rates. These hit rates represent the percentage of projects, efforts and costs that have been successfully completed or are currently in progress within the ITEA programme, in comparison to the initially planned and labelled projects, efforts and costs.

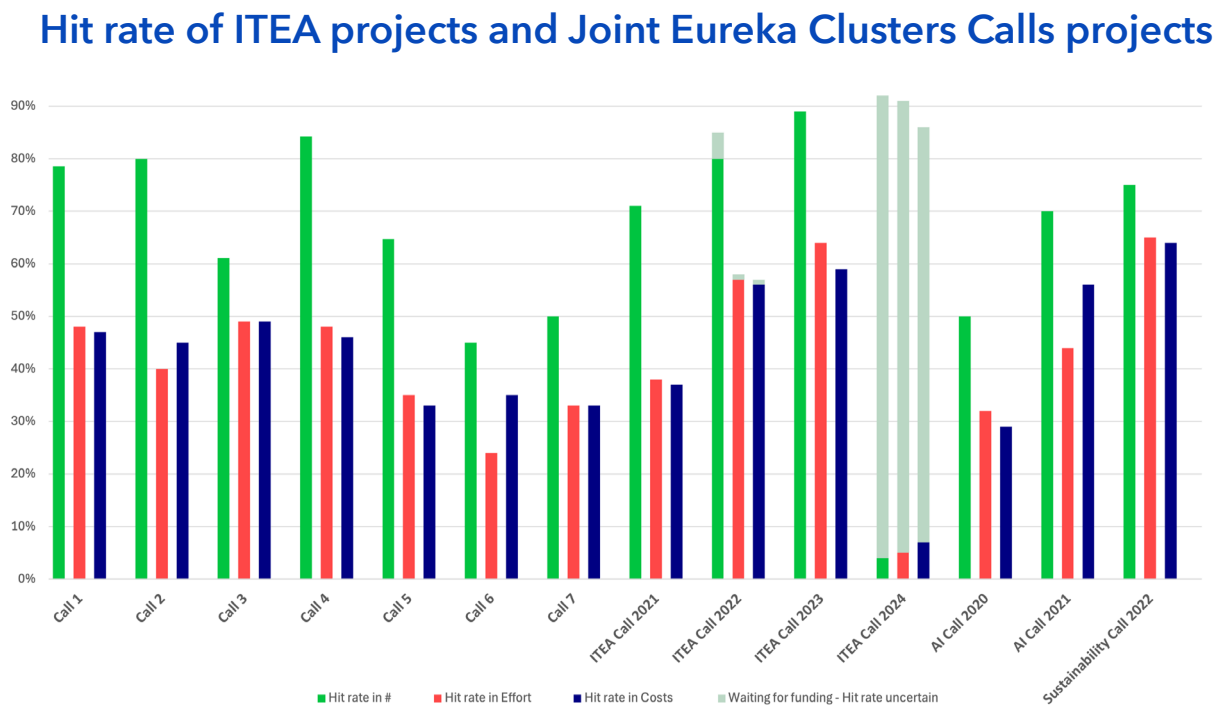


Figure 4: ITEA hit rates for ITEA 3 and ITEA 4 Calls and the Joint Eureka Clusters Calls as of 31 December 2025. Figures based on latest FPP vs labelled FPP.

While the early Calls of ITEA 3 demonstrated a good hit rate in terms of the number of projects and a reasonable hit rate in terms of cost and effort, a negative trend emerged towards the end of ITEA 3 and into the first Call of ITEA 4. However, a more positive trend across all hit rate indicators can be observed for ITEA Call 2022, ITEA Call 2023, and the Joint Eureka Clusters Sustainability Call 2022. Although these Calls are not yet fully finalised, they have reached a relatively stable stage, and it is therefore expected that the hit rates will remain positive.

Of the 26 labelled projects under ITEA Call 2024, one is currently partially running and two have been cancelled. All remaining projects are still awaiting funding decisions, making it premature to draw conclusions regarding the hit rates for this Call. Given the exceptionally high number of labelled projects in ITEA Call 2024, competition for the available funding is higher than usual. As a result, it is expected that not all partners will receive funding, which is likely to negatively affect the hit rate, particularly in terms of cost and effort.

The table below shows the status of ITEA projects at the end of 2025 and 2024, respectively:

	2025			2024		
	#	Effort in PY	Cost in €M	#	Effort in PY	Cost in €M
Labelled during the year	26	3276	329	19	2660	263
Running at the end of the year	46	4300	371	48	4836	424
Waiting at the end of the year	24	2913	272	14	1601	113
Completed during the year	13	890	86	13	873	81
Cancelled during the year	4	349	34	5	478	37

Table 1: Status of ITEA projects in 2025 and 2024 as of 31 December 2025 and 31 December 2024 respectively. Figures are based on labelled and latest FPPs. Note: the figures include the ITEA projects that resulted from the Joint Eureka Clusters Calls as projects become ITEA projects after labelling (in case they indicate ITEA as the main Cluster).

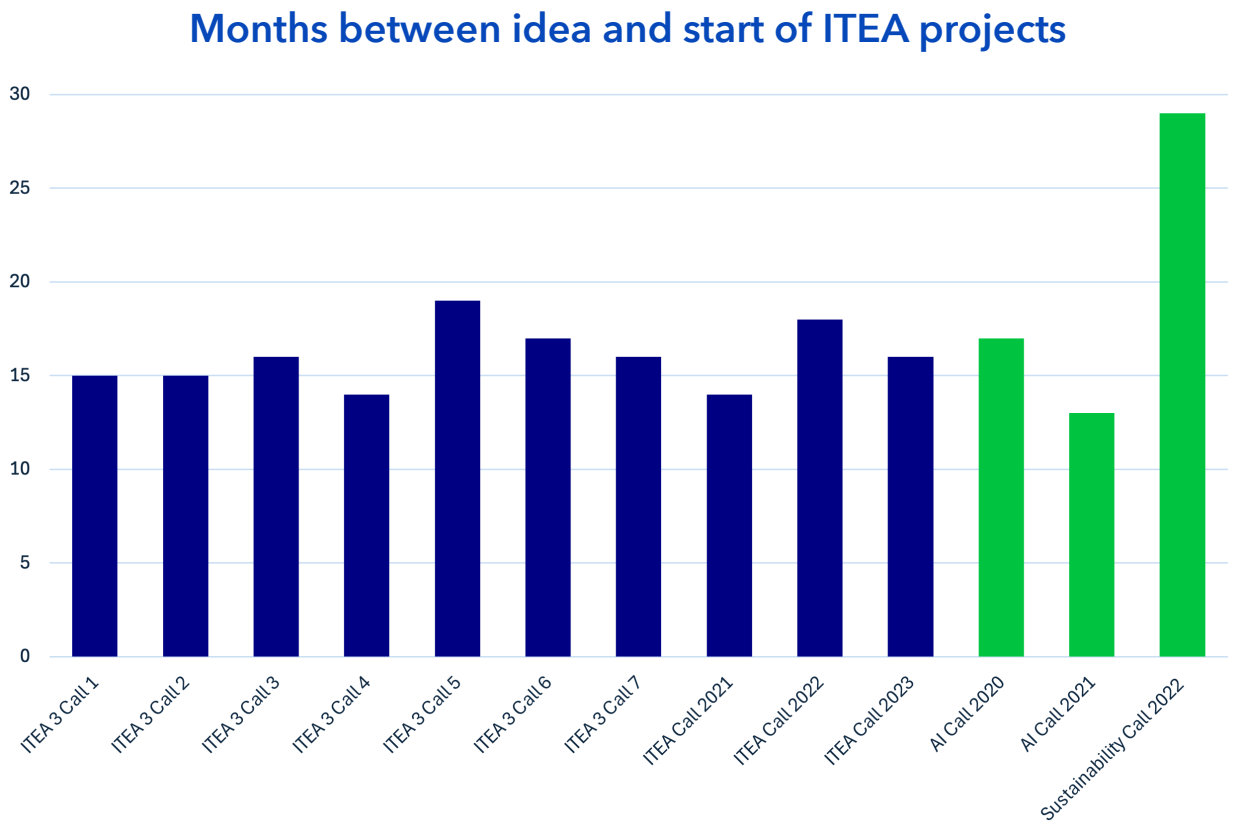


Figure 5: Time from ITEA project idea to project start (when >50% of the projects of the Call have started) from ITEA 3, ITEA 4 and the Joint Eureka Clusters Calls.

Despite several initiatives, a systematic reduction in the time to project start is not yet evident. With an average duration of 16 months, excluding the exceptionally long timeframe of 29 months for the Joint Eureka Clusters Sustainability Call 2022, the current results remain well above the targeted 12-month timeframe. As this duration generally also affects the final project hit rate, both in terms of the number of projects and their associated cost and effort, accelerating the time from project idea to project start will remain a key improvement priority for ITEA.

At this stage, it is not yet possible to forecast the timeframe for projects of ITEA Call 2024, as only one out of 24 remaining projects was partially running by the end of 2025.

2.3 Project landscape

Currently, the ITEA Community focuses on eight main societal domains. The figure below illustrates the distribution of ITEA 3 and ITEA 4 projects across these domains. Smart Energy was only introduced in 2021. The ITEA 3 programme, which ran from 2014 to 2020, issued seven Calls for projects. Since 2021, the ITEA 4 programme has been ongoing and is now in the submission phase for its fifth Call.

Over time, the strongest contribution has been in the field of Smart Engineering, but there is also a very good coverage of the Smart Health, Safety and Security and Smart Industry challenges as well. As Joint Eureka Clusters Calls do not use the same main societal domains, figures from these Calls are not represented in this graph below.

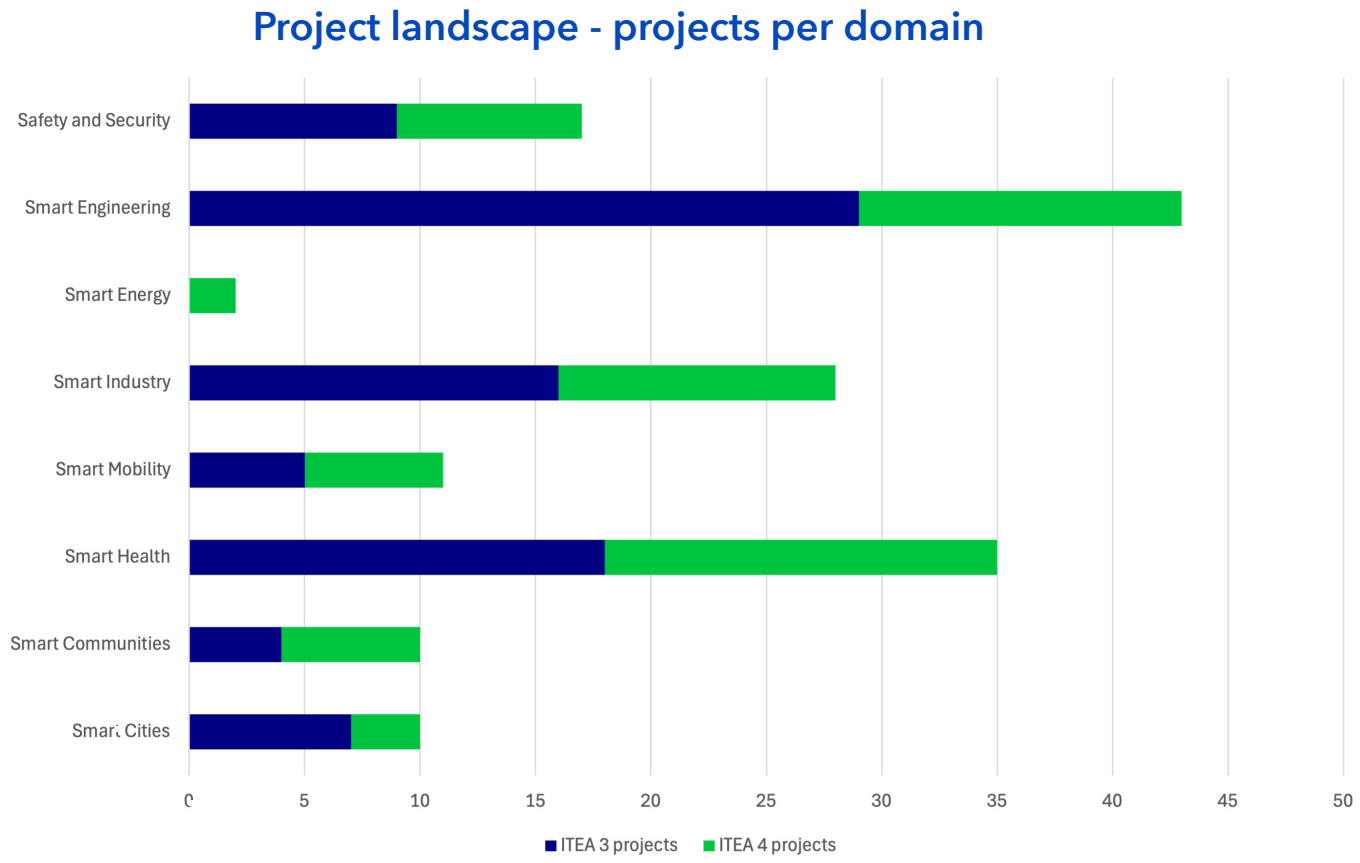


Figure 6: Number of ITEA 3 and ITEA 4 projects per ITEA domain.

2.4 Introducing the labelled projects of ITEA Call 2024

ITEA Call 2024, the third Call of ITEA 4, delivered high-quality, innovative proposals. In March 2025, the ITEA Board labelled 26 of these proposals, representing an effort of more than 3276 person years and involving partners from 18 countries. As usual, we saw a good balance between SMEs that have the agility to innovate - representing more than half of the effort - along with large industries, which can quickly bring the outcomes of the projects to the market, and research centres that provide beyond State-of-the-Art research.

The 2024 ITEA projects show a strong mix of emerging technologies – especially artificial intelligence – with applications across healthcare, industry, energy, mobility, safety, and cybersecurity.

A key focus this year is making AI easier to adopt and more trustworthy. Projects like Excellent-AI, and MentorAI tackle barriers to AI implementation through regulatory-compliant frameworks, governance models, and knowledge transfer. Other projects, such as ATLANTIS and CLEAR, use generative AI and large multimodal models to bring more automation to complex domains such as video analysis, intelligent robotics, and human-AI collaboration. The application of synthetic data, as seen in MediSynth and SYNTHESES, supports privacy-preserving innovation in health and autonomous mobility.

Sustainability and resilience are also important topics in this Call. Projects like Enginuity, ORCHESTRA, and Smart-Charge are helping to build greener engineering and energy systems. Meanwhile, safety and security remain essential themes, with projects such as CSAMGuard+, VULTURE, and SASEEBO developing innovative, new tools to protect citizens both online and in real life.

ITEA Call 2024 shows a clear and focused approach to software innovation – one that deeply integrates AI into value chains, reinforces ethical and regulatory standards, and strengthens Europe's role in a rapidly evolving global tech landscape.

It is expected that the size of several ITEA Call 2024 projects will be reduced, or projects will be cancelled, due to some (delays in the) funding decisions. By the end of 2025, projects AIDHealth and DigiStructure were already cancelled.

The ITEA domains arising from this Call are:

Domains	ITEA Call 2024 labelled projects
Safety and Security (3)	CSAMGuard+, STRUCTURE, VULTURE
Smart Cities (2)	RHPMS, SASEEBO
Smart Communities (1)	Project Allegro
Smart Energy (1)	ORCHESTRA
Smart Engineering (4)	CLEAR, Enginuity, Excellent-AI, OOvFPGASIC
Smart Health (5)	DiSCo, MediSynth, SilverCompanion, SpectalHealth, VR4Health
Smart Industry (4)	ATLANTIS, MENTORAI, SCORE, THOE
Smart Mobility (4)	Drobotize, MUST, SYNTHESES, Smart-Charge

A short description of each project can be found on the next pages.

ATLANTIS

24025

Video-bAsed generaTive code using adversariaL AgeNts To bulld Software robots

Project leader: Pareto AI (Slovenia)

ATLANTIS, robots making robots, aims to automate the generation of RPA robot code from video recordings and business process information. By integrating agents based on Generative AI models, the project interprets the input, breaks it into events, generates the automation system, and evaluates it iteratively optimised using adversarial agent techniques. It seeks to improve the development and deployment lifecycle of intelligent automation solutions, reducing costs, time-to-market, and dependence on business users. ATLANTIS aims to boost productivity, traceability, and energy efficiency, enhancing the value of services like BPO, industrial automation and process monitoring.

https://itea4.org/project/atlantis.html

CLEAR

24026

Comprehensive Learning for Enhanced AI Responsiveness

Project leader: Alstom Transportation (Sweden)

CLEAR addresses challenges in integrating diverse, multimodal data into industrial AI systems and improving the reliability of their outputs. By leveraging advanced AI techniques and context-aware capabilities, CLEAR will boost the capabilities of LMMs and LLMs to efficiently manage complex data inputs, while minimising AI hallucinations. The project intends to lower operational costs, improve safety, and boost system reliability across sectors like transportation, agriculture, and manufacturing. Additionally, it aspires to deploy AI solutions that facilitate rapid, reliable decision-making, resulting in cost savings, higher availability, enhanced user satisfaction and supporting Europe's position in digital manufacturing and Industry 4.0.

https://itea4.org/project/clear.html

CSAMGuard+

24063

AI-Driven Enhancement of Online Safety: Protecting Children by Disrupting CSAM Links

Project leader: Centre for Factories of the Future Ltd (United Kingdom)

ICSAMGuard+ is an AI-powered project that aims to improve child online safety by detecting and preventing Child Sexual Abuse Material (CSAM) across digital environments. The project is driven by the rise of CSAM on social media, messaging apps, and cloud storage, and the shortcomings of traditional detection in private or encrypted spaces. CSAMGuard+ aims to deliver a privacy-compliant, real-time solution using AI techniques like content and metadata analysis, sentiment analysis, and biometric image recognition. CSAMGuard+ works to ensure timely identification of CSAM while complying with global regulations and respecting user privacy, creating a safer digital environment for children.

https://itea4.org/project/csamguard.html

DiSCo

24046

Digital Assessment and Intervention for Social and Cognitive Dysfunction in Brain Disorders

Project leader: Polytechnic Institute of Porto - School of Health (Portugal)

The DiSCo project aims to develop a digital platform for assessing and treating cognitive and social cognition dysfunctions in neurological and mental health conditions. It targets early detection of changes that may signal the onset of these disorders and predict future deterioration. The platform includes personalised cognitive games tailored to individual impairments and performance. It enables remote monitoring through internet-based assessments and supports long-term tracking. DiSCo also delivers customised training exercises, supports clinical trials, and promotes early intervention to help reduce the effects of these conditions on individuals' daily lives.

https://itea4.org/project/disco.html

Drobotize

24006

Drones and Robots for Smart Mobility

Project leader: VTT Technical Research Centre of Finland Ltd. (Finland)

Drobotize aims to achieve fully autonomous and secure operation of mixed fleets of robots and drones (UxVs) for logistics and surveillance. It integrates Uncrewed Ground Vehicles (UGVs), Aerial Vehicles (UAVs), Surface Vehicles (USVs), and Underwater Vehicles (UUVs) for end-to-end parcel delivery and inspection tasks. The project addresses cybersecurity challenges such as manipulation, jamming, and spoofing. Its goal is to define and demonstrate secure interoperability of tasking platforms, which will allow for on-demand access to UxV fleets, providing both B2C and B2B services. AI will optimise task allocation, enhance safety, and reduce human involvement.

https://itea4.org/project/drobotize.html

Enginuity

24034

Collaborative design exploration framework

Project leader: The Manufacturing Research Centre (United Kingdom)

Enginuity supports the EU Green Deal by enabling engineering sectors to meet climate neutrality goals and adopt sustainable practices. It develops a three-layer software framework - tool, model, and AI - that provides automation, integration, and data-driven decision-making. This framework helps engineers design efficiently, generate valuable data, and train AI for predictive responses to engineering queries. The project addresses sustainability challenges in aerospace, construction, and automotive sectors by enabling engineers to optimise designs, processes, materials, and energy use. It supports environmental impact analysis and lifecycle assessments, helping industries meet regulatory demands and customer expectations while balancing sustainability with cost-effectiveness.

https://itea4.org/project/enginuity.html

Excellent-AI

24032

4 Pillars for AI Business Excellence

Project leader: Fraunhofer FOKUS (Germany)

Excellent-AI supports European businesses in becoming AI-first organisations by offering AI-based solutions for strategic leadership, governance, and innovation tools tailored for AI integration. It addresses challenges in aligning AI with long-term strategies and overcoming limitations of traditional innovation frameworks. The project provides dynamic portfolio management, IT and data architecture toolkits, and governance solutions to ensure ethical, compliant, and adaptive AI use. Organisations are enabled to improve AI project accuracy by 20% and response velocity by 30%. Besides, they can achieve a 30% reduction in governance fulfilment time. Excellent-AI enhances operational resilience and strengthens Europe's position in the global AI market.

https://itea4.org/project/excellent-ai.html

MENTORAI

24054

Harnessing AI to Preserve Expertise and Mentor New Talent

Project leader: ASML Netherlands B.V. (the Netherlands)

To capture the invaluable experience and expertise of experienced or retiring employees, MENTORAI transforms state-of-the-art large language models to become a dynamic and interactive source of knowledge for newer staff. The project will create AI-driven, context-aware coaching tools ensuring that new employees receive personal guidance and mentorship, like what they would get from experienced colleagues. In total, 27 partners having complementary expertise will work closely together in an iterative manner to develop and validate the different tools in a real-life environment. Jointly they will investigate market access of the AI tools.

https://itea4.org/project/mentorai.html

MUST

24042

Mobility & Urban Safety Testbed

Project leader: University of Skövde (Sweden)

MUST addresses the growing need for advanced safety systems in urban mobility, driven by vehicle automation, connectivity, and the complexities of smart cities. The project develops a testbed that enables extensive experimentation and evaluation of AI-driven safety systems. The project aims to automate the evaluation and optimisation of safety strategies, using AI-driven tools to dynamically assess risks in urban traffic conditions, particularly those involving vulnerable road users (VRUs). Test tracks will serve as key environments for experimentation and validation of various safety interventions, including driver-assist technologies to V2V (Vehicle-to-Vehicle) and V2I (Vehicle-to-Infrastructure) coordination systems.

https://itea4.org/project/must.html

MediSynth

24029

Synthetic Data for Healthcare

Project leader: TNO (the Netherlands)

MediSynth aims to address the underuse of healthcare data due to privacy concerns by developing a Multi Modal Synthetic Data Ecosystem (MM SDE). Synthetic data, generated from original data, preserves patterns without revealing sensitive information, enabling secure sharing and improving data quality. The project will propose methods to generate realistic synthetic data and create a framework for evaluating its privacy, utility, and biases, supporting regulatory compliance. Focus areas include synthetic time series, text, audio, and multimodal data. Collaboration with end users will ensure alignment with the specific needs of the healthcare domain.

https://itea4.org/project/medisynth.html

OOvFPGASIC

24038

Object oriented acceleration on virtual FPGA/GPU

Project leader: Parkyeri (Türkiye)

The OOvFPGASIC project introduces a runtime Field-Programmable Gate Array (FPGA) virtualisation and custom chip generation platform that enables object-oriented applications to be analysed and converted into gateware for FPGA cards. It uses object-oriented transpilers and a hypervisor for partial reconfiguration, improving software efficiency and speed. Key innovations include FPGA virtualisation from object-oriented code, custom chip generation, and real-time migration between CPU, RAM, and FPGA. The platform supports digital real-time virtual twins, 6G integration, and social media analysis. Its business impact includes enhanced automative testing, better 6G algorithms, reduced energy use, and increased security, while allowing custom chip creation without deep circuit design knowledge.

https://itea4.org/project/oovfpgasic.html

ORCHESTRA

24080

Grid Orchestration Tool-set for Proactive Energy Management

Project leader: INEA d.o.o. (Slovenia)

ORCHESTRA addresses challenges in grid stability caused by the rapid adoption of Electric Vehicles (EVs) and variable renewable energy sources. It introduces an AI-driven grid orchestration toolset to manage local energy resources, such as EV chargers, smart devices, Battery Energy Storage Systems and Virtual Power Plants (VPPs). ORCHESTRA's goal is to create a sustainable, intelligent energy ecosystem that maximises the use of distributed energy resources and supports the transition to renewable energy. Outcomes include the development of an AI platform for dynamic tariff response, VPPs for coordinated energy management, and enhanced grid stability, offering new revenue opportunities through flexible energy management.

https://itea4.org/project/orchestra.html

Project Allegro

24031

Hospitality of the Future

Project leader: Operto Guest Technologies Inc. (Canada)

Project Allegro, a cutting-edge AI solution, aims to revolutionize the global hospitality industry by addressing the growing demand for seamless and personalised experiences. Leveraging conversational and generative AI, Allegro will enhance guest communication and create relevant content, while a staff application will streamline operations and resource allocation. An operator dashboard, powered by machine learning, will provide valuable insights to optimize efficiency, guest satisfaction, and profitability, ultimately fostering a smart hospitality community. The project aims to become a key platform for hospitality providers, offering a competitive edge by delivering a tech-enhanced experience that meets the needs of today's travelers.

https://itea4.org/project/project-allegro.html

RHPMS

24082

Rainwater Harvesting prediction and management system for sustainable urban development

Project leader: Adec innovations (United Kingdom)

The RHPMS project aims to develop a rainwater harvesting prediction and management system integrated with wastewater treatment plants and sewer systems, aligned with urban planning frameworks. The platform will use climate models and sensors to predict rainfall patterns, optimise the design and operation of rainwater harvesting systems, and improve the efficiency of wastewater management. It will also incorporate VR training capabilities to support the design, implementation, and operation of these systems. The solution will help mitigate flood risks, address water scarcity, and enhance urban resilience through better water resource management.

https://itea4.org/project/rhpms.html

SASEEBO

24019

Safe, Secure, Efficient Airport & Airline Baggage Operations

Project leader: TAV Technologies (Türkiye)

The SASEEBO project aims to improve airline baggage operations using AI, machine learning, computer vision and IoT technologies. It introduces AI-powered damage detection at check-in to reduce false claims, distant barcode reading for better tracking, and deep learning to identify untagged baggage. Automated monitoring will detect handling violations, while eSIM-based IoT tracking will support real-time, cross-border localisation. AI will also improve threat detection in X-ray CT scans and verify baggage ownership to prevent unauthorised exchanges. The system will be tested at major airports to ensure integration, compliance, and effective performance across different environments.

https://itea4.org/project/saseebo.html

SCORE

24045

Scenario-based Collaborative Robot Evaluation

Project leader: TWT GmbH Science & Innovation (Germany)

SCORE addresses a critical challenge in robotics: enabling efficient and safe human-robot collaboration. The project introduces an automated tool chain that not only facilitates safety and risk assessments but also allows manufacturers and integrators to test the efficiency of their setups. Using advanced simulation technologies, LLMs and scenario-based testing, the project helps improve both safety evaluations and operational performance. By significantly reducing deployment costs and accelerating collaborative integration in industries such as manufacturing, healthcare, logistics, and service, SCORE enhances both productivity and safety, enabling more widespread use of collaborative robots in real-world applications.

https://itea4.org/project/score.html

STRUCTURE

24017

Predictive Maintenance and Inspection of Transportation Infrastructure via Multi-Modal Sensing AI

Project leader: Eindhoven University of Technology (the Netherlands)

The STRUCTURE project aims to automate and improve inspection and maintenance of transport infrastructure through a hardware and software framework built on four core technological innovations. It includes a sensor suite for detecting surface and subsurface defects using various modalities. An autonomous carrier platform will transport the sensors with precision, even in complex structures. AI algorithms will analyse combined sensor data for fault detection. And ultimately, a Digital Twin as a Service (DTaaS) will integrate inspection data with 3D models, geological maps, and traffic profiles to support asset health monitoring, predictive maintenance, and decision-making.

https://itea4.org/project/structure.html

SYNTHESES

24009

Synthetic Dataset Generation To Enhance Autonomous Systems using Smart ITS Data

Project leader: MORAI inc. (Republic of Korea)

The SYNTHESES project aims to enhance the testing and validation of autonomous systems by generating large-scale synthetic datasets. It addresses the challenge of capturing rare edge-case scenarios that are critical for ensuring safety and reliability, particularly in complex urban environments. The project will develop automated tools to simulate diverse, hard-to-replicate real-world conditions. Its main goal is to create a scalable framework for generating edge scenarios and datasets to validate systems across multiple operational design domains. The project focuses on automotive use cases, supporting faster and more robust deployment of autonomous mobility technologies.

https://itea4.org/project/syntheses.html

SilverCompanion

24013

AI enhancing seniors' independence and reducing care costs

Project leader: Processa Technologies OÜ (Estonia)

SilverCompanion consortium aims to develop an AI driven companionship system with AR avatar to improve the wellbeing of elderly living alone, reduce strain on carers, health- and social- care systems. Designed as affordable, functioning on both low-tech and smart devices, the system will learn from users' daily behaviour to offer proactive support and empathetic communication to reduce loneliness and isolation. It will connect with health- & social- care, government, and family networks by feeding relevant data and issuing alerts when needed. SilverCompanion will improve quality of life by enhancing elderly independence and adherence to care plans.

https://itea4.org/project/silvercompanion.html

Smart-Charge

24023

Sustainable management and AI-Driven Resilient Technology for Charging Infrastructure

Project leader: Acd Bilgi İşlem Ltd.Şti. (Türkiye)

Smart-Charge aims to improve electric vehicle (EV) charging infrastructure by using Artificial Intelligence to address issues such as grid instability, inconsistent station deployment, long charging times, and limited renewable energy integration. AI will be applied to grid management, station planning, charging optimisation, and energy use to create a data-driven system that balances demand and supports sustainable transport. The project will also implement predictive analytics to monitor battery health, optimise charging cycles, and estimate battery life. This will help users make informed decisions, extend battery lifespan and improve EVs reliability overall.

https://itea4.org/project/smart-charge.html

SpectralHealth

24014

Applications of Hyperspectral Imaging in Healthcare

Project leader: VTT Technical Research Centre of Finland Ltd. (Finland)

SpectralHealth aims to develop and evaluate the use of Hyperspectral Imaging (HSI) for diagnostics and monitoring in healthcare. The project will adapt HSI technologies, create machine learning pipelines, and develop visualisation tools to support decision-making based on HSI data. It will support harmonised data formats and standardised interfaces to enable interoperable, reusable ML-solutions. The technology will be validated in five use cases: surgery, diabetes-related conditions, dermatology, surgical tool inspection, and microbiology. SpectralHealth seeks to improve clinical workflows, support early detection, and reduce healthcare costs by enhancing efficiency.

https://itea4.org/project/spectralhealth.html

THOE

24002

Transforming Education with Immersive Technologies, AR/VR, AI, and Blockchain

Project leader: VBT Software A.S. (Türkiye)

THOE aims to revolutionise the educational ecosystem by developing an interactive, immersive learning platform. Leveraging innovative technologies such as AR, VR, AI and Blockchain, THOE will provide engaging learning experiences. The platform will feature interactive 4D timelines within AR/VR environments, AI-driven research assistance and secure content ownership through NFTs on a blockchain network. THOE addresses key challenges in education, including outdated infrastructure, lack of interactivity and content ownership issues. By empowering educators, developers, and content creators with Software Development Kits and no-code tools, the platform lowers the barriers to sharing immersive educational content.

https://itea4.org/project/thoe.html

VR4Health

24036

Immersive VR Training for Healthcare Professionals

Project leader: Aequilibrium Software Inc. (Canada)

VR4Health aims to address the limitations of traditional healthcare training by offering AI-powered, immersive virtual environments. The platform provides cost-effective and accessible training through interactive virtual patients, real-time feedback, and adaptive learning, helping healthcare professionals refine their skills in realistic, risk-free settings. It personalises training, offers real-time analytics, and supports collaborative learning. The project combines AI-driven virtual patient interactions with VR-based therapeutic applications for patient care. A consortium of healthcare institutions, universities, and tech companies ensures the development of scalable solutions to revolutionise healthcare training and promote industry adoption.

https://itea4.org/project/vr4health.html

VULTURE

24053

Vulnerability-based Smart Prevention, Defense and Mitigation using Generative AI for Cyber Security

Project leader: VisionWare - Sistemas de Informação, S.A. (Portugal)

Vulnerability-based cybersecurity is evolving with Generative AI. Large Language Models (LLMs) can analyse vulnerabilities reported by stakeholders, which could potentially be patched and solved. However, training these models could also be used to identify and exploit “zero-day” vulnerabilities. This stresses the need for prevention, detection and mitigation of potential harmful cyber-attacks. VULTURE will harness the potential of Generative Pre-trained Transformers by creating a revolutionary cybersecurity platform, providing a unified vulnerability-software-patch and knowledge graph, semantic search in vulnerabilities databases and OWASP listings, LLM-based reasoning, pen-testing, and AI-based mitigation and “air gapping” techniques.

https://itea4.org/project/vulture.html

3/ What lies ahead in 2026

2025 was marked by continued high interest in the ITEA programme, reflected in fully booked ITEA PO Days, a consistently high number of submitted Project Outlines, and the successful relicensing of the Eureka Clusters. This relicensing enables the submission of bottom-up ITEA and Inter-Cluster Calls for the coming seven years. ITEA remains fully committed to supporting software and systems innovation across Europe and beyond!

3.1 Improvement priorities for 2026

As ITEA moves into 2026, the programme builds on the strong foundations established in the previous years. The strategic priorities defined for 2025 remain highly relevant and will continue to guide our actions in the year ahead. By further strengthening the attractiveness and impact of the ITEA programme, accelerating collaboration, enhancing stakeholder satisfaction, and continuously improving operational efficiency, ITEA is well positioned to address emerging challenges and to seize new opportunities in an evolving innovation landscape.

- **Expanding attractiveness:** To ensure a sustainable size of the programme Calls, ITEA will continue to enhance its overall attractiveness. This will be achieved by reinforcing and deepening engagement with existing participating countries, broadening the diversity of beneficiaries and participating countries, and optimising the balance between different types of organisations involved. Particular attention will be given to supporting new EUREKA member countries by helping them to establish vibrant national communities and facilitating their smooth integration into the ITEA family.

- **Generating impact:** The goal is to strengthen innovation and international collaboration within ITEA-labelled projects. A key priority will be the targeted coaching and mentoring of project consortia participating for the first time. This support will help newcomers to optimise their projects from the start, thereby maximising the likelihood of delivering tangible, real-world impact.
- **Accelerating together:** ITEA aims to streamline the process from project submission to initiation even further, reducing lead times and ensuring the faster implementation of innovative ideas. The focus will be on more support of and closer alignment with Public Authorities to facilitate smoother processes.
- **Promoting stakeholder satisfaction:** ITEA's Community-centric culture is at the heart of this priority. ITEA will foster a supportive environment to ensure stakeholders at all levels feel satisfied and engaged.
- **Optimising operational efficiency:** With a commitment to continuous improvement, ITEA will focus on enhancing internal processes and adopting best practices. The ITEA Office will explore further automation opportunities to reduce time-consuming tasks and align operations with ITEA management's vision.

These strategic priorities define ITEA's direction for 2026 and support the further strengthening of its visibility, impact, stakeholder engagement, and operational efficiency.

Looking back on the accomplishments of the past year, we would like to express our appreciation to the ITEA project partners, ITEA Body members, and Public Authorities for their continued engagement, dedication, and support. Driven by a shared commitment to innovation and quality, we look ahead with confidence, ready to address future challenges and seize new opportunities together.

https://vimeo.com/1161219069/a677b5c335

Appendix A. Call statistics

Call statistics per year

ITEA 3 programme + Joint Eureka Clusters Calls issued during ITEA 3

Call	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total
ITEA 3 Call 1	47	257	341	312	105	11	-	-	-	-	-	1073
ITEA 3 Call 2	-	67	316	428	324	64	2	-	-	-	-	1202
ITEA 3 Call 3	-	-	105	364	400	264	6	1	-	-	-	1140
ITEA 3 Call 4	-	-	-	80	410	518	375	44	-	-	-	1426
ITEA 3 Call 5	-	-	-	-	40	287	360	308	77	-	-	1072
ITEA 3 Call 6	-	-	-	-	-	65	211	232	145	1	-	654
ITEA 3 Call 7	-	-	-	-	-	-	47	242	275	215	26	805
AI Call 2020	-	-	-	-	-	-	41	94	84	43	-	262
Total ITEA 3	47	324	762	1184	1279	1209	1042	920	581	259	26	7633

ITEA 4 programme + Joint Eureka Clusters Calls issued during ITEA 4

Call	2022	2023	2024	2025	2026	2027	2028	2029	Total
ITEA Call 2021	28	198	289	242	72	4	-	-	832
ITEA Call 2022	-	16	367	564	498	146	8	-	1599
ITEA Call 2023	-	-	52	516	616	486	37	-	1707
ITEA Call 2024	-	-	-	95	957	1114	909	13	3088
AI Call 2021	48	81	86	36	-	-	-	-	251
Sustainability Call 2022	-	24	31	55	31	27	-	-	168
Total ITEA 4	76	319	824	1508	2174	1776	954	13	7643

Table 2: Participation in person years per Call per year as of 31 December 2025. Effort based on latest FPP. Projects from Joint Calls have ITEA as the main Cluster. Projects with ITEA as a secondary Cluster are not taken into account.

Call statistics per country

ITEA 3 programme + Joint Eureka Clusters Call issued during ITEA 3

Call	AUT	BEL	CAN	DEU	ESP	FIN	FRA	KOR	NLD	PRT	SWE	TUR	OTH	Total
ITEA 3 Call 1	20	53	12	146	67	3	177	85	222	-	40	138	108	**1073**
ITEA 3 Call 2	-	92	68	200	106	52	119	71	181	-	56	158	99	**1202**
ITEA 3 Call 3	29	72	102	208	98	69	49	28	168	37	83	136	63	**1140**
ITEA 3 Call 4	7	91	82	225	242	134	5	-	170	94	125	203	49	**1426**
ITEA 3 Call 5	12	21	74	11	104	300	5	23	203	65	63	139	51	**1072**
ITEA 3 Call 6	2	26	29	102	24	30	2	13	140	53	72	101	61	**654**
ITEA 3 Call 7	19	25	85	87	105	84	-	-	163	39	67	99	33	**805**
AI Call 2020	-	-	-	75	-	55	-	13	55	-	-	49	14	**262**
Total ITEA 3	**90**	**380**	**451**	**1054**	**745**	**729**	**356**	**233**	**1302**	**288**	**507**	**1022**	**477**	**7633**

ITEA 4 programme + Joint Eureka Clusters Calls issued during ITEA 4

Call	AUT	BEL	CAN	DEU	ESP	FIN	FRA	KOR	NLD	PRT	SWE	TUR	OTH	Total
ITEA Call 2021	21	26	8	57	88	93	-	38	157	130	15	183	14	**832**
ITEA Call 2022	-	96	60	115	60	215	1	43	245	265	48	313	137	**1599**
ITEA Call 2023	17	103	78	78	133	250	-	90	199	249	27	247	236	**1707**
ITEA Call 2024	15	159	97	265	221	298	76	143	380	323	91	641	379	**3088**
AI Call 2021	28	12	-	61	-	-	-	-	62	-	28	41	19	**251**
Sustainability Call 2022	-	-	16	-	3	-	-	-	-	68	-	46	35	**168**
Total ITEA 4	**81**	**396**	**259**	**576**	**506**	**856**	**77**	**314**	**1044**	**1034**	**210**	**1471**	**820**	**7643**

Table 3: Participation in person years per Call per country as of 31 December 2025. Effort based on latest FPP. Projects from Joint Calls have ITEA as the main Cluster. Projects with ITEA as a secondary Cluster are not taken into account.

OTH (others) = Australia, Czech Republic, Denmark, Estonia, Greece, Hungary, Iceland, Israel, Italy, Lithuania, Norway, Romania, Singapore, Slovenia, South Africa, Switzerland, Taiwan, United Kingdom, and the United States.
NB: countries differ per Call.

Glossary of terms

€M	Million Euros
2D	Two-Dimensional
3D	Three-Dimensional
4D	Four-Dimensional
AI	Artificial Intelligence
AM	Additive manufacturing
ANC	Active Noise Control
AR	Augmented Reality
B2B	Business to Business
B2C	Business to Consumer
CAD	Computer-Aided Design
CPU	Central Processing Unit
CSAM	Child Sexual Abuse Material
CSB	Cluster Steering Board
CT	Computed Tomography
DoA	Declaration of Acceptance
DTaaS	Digital Twin as a Service
ECP	Eureka Clusters Platform
ETSI	European Telecommunications Standards Institute
EU	European Union
EV	Electric Vehicles
FPGA	Field-Programmable Gate Array
FPP	Full Project Proposal
GPU	Graphics Processing Unit
HSI	Hyperspectral Imaging
IoT	Internet of Things
ISO	International Organization for Standardization
IT	Information Technology
LAAO	Left Atrial Appendage Occlusion
LLM	Large Language Models
LMM	Large Multimodal Model
ML	Machine Learning
MM SDE	Multi Modal Synthetic Data Ecosystem
MRI	Magnetic Resonance Imaging
NFTs	Non-Fungible Tokens
OR	Operating Room
PLM	Product Lifecycle Management
PO	Project Outline
PY	Person Years
Q&A	Questions and Answers
R&D	Research and Development
RAM	Random-Access Memory
RD&I	Research, Development and Innovation
RPA	Robotic Process Automation
SMEs	Small and Medium-sized Enterprises
UAVs	Uncrewed Aerial Vehicles
UGVs	Uncrewed Ground Vehicles
USD	United States dollar
USVs	Uncrewed Surface Vehicles
UUVs	Uncrewed Underwater Vehicles
UxVs	Uncrewed Systems
V2I	Vehicle-to-Infrastructure
V2V	Vehicle-to-Vehicle
VPP	Virtual Power Plants
VR	Virtual Reality

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