

ITEA PO Days 2023

Creating customer-oriented research projects with impact

ITEA PO Days 2023, 12 September - Berlin
Jean-François Lavignon
ITEA Vice-chairman

25
years



ITEA 4
1998-2023

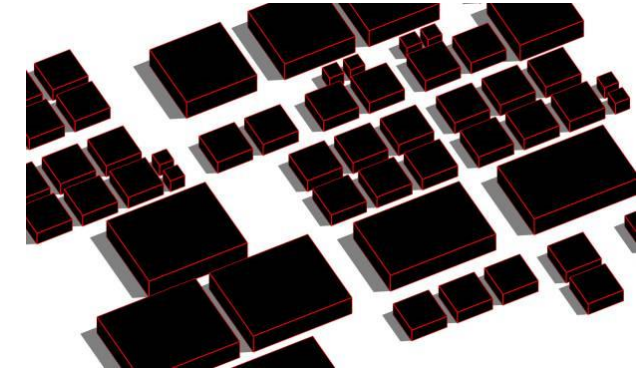
Agenda

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- Current trends
- Smart Cities customer workshop take-aways
- Cyber Security Advisory Board meeting feedback
- General advices

Current trends

Three important challenges



- How to select the right IT methods and tools
 - Many options
 - No real shared expertise on how to select the right ones for a given task
 - Too many digital transformation projects failed
 - How to correctly use IT is crucial knowledge
- New constraints in IT development
 - Sustainability
 - Cyber security
- Ecosystem creation for larger IT applications
 - Working together with the right level of trust
 - Incentive business model to build and operate the new applications



What are the hot IT technologies?

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- Generative AI
 - Images generated for “Conference of IT researchers’



Bing Image
Creator



Craiyon



What are the hot IT technologies?

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- Generative AI
 - Images generated for 'European Conference of IT researchers'



Bing Image
Creator



Craiyon



Three interesting directions

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- Aggregation of larger knowledge and data sources
 - It is not a linear process; disruption can happen when you reach the sufficient level
 - Example: generative AI for texts and images
 - Question of the ownership of the integration is a societal question
- Distributed dynamic and complex IT applications
 - How to control the underlying infrastructure
 - Awareness of energy consumption and cyber security threats
 - Dialogue between the application and the infrastructure
- Design and operation of complex systems
 - More ambition for the IT application means new tools
 - Enabling more people to design software: low-code / no-code approaches



Societal trends

- Technology for good
- Energy concerns - Sobriety
- Sustainability and environmental concerns
- Sovereignty



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ITEA Smart Cities customer workshop

ITEA Smart Cities customer workshop

Participants

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- Attendees of the ITEA Smart Cities customer workshop:
 - **Cities:** Antwerp, Brno, Ghent, Hasselt, Helmond, Rotterdam, Tampere, Tartu, Major Cities of Europe EU + Zaragoza (remotely)
 - **Industry:** Barco, Bosch, Dassault Systèmes, Esri Canada, Nokia Bell Labs, Royal HaskoningDHV, Siemens
 - **SMEs:** Digital Ubiquity Capital, GIM, Liveable Cities, Macq, Public Safety Innovation, Sorama, ViNotion
 - **Research institutes and university:** Avans University of Applied Sciences, SIRRIIS, VTT
- Keynote presentations by Antwerp, Esri Canada and Nokia (host)



ITEA Smart City customer workshop

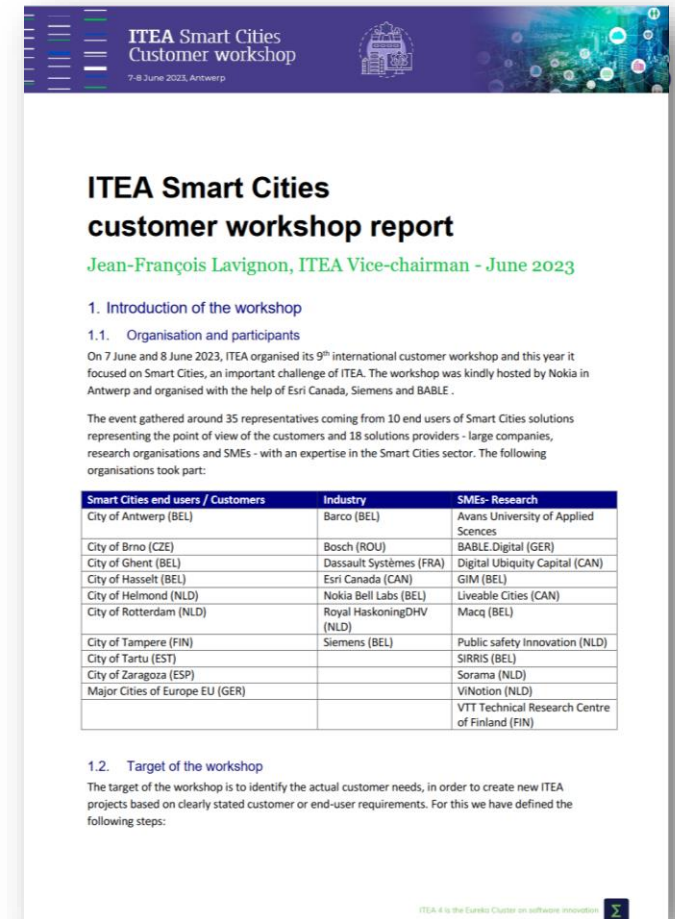
Results

Topics covered

- Environmental footprint
- Mobility
- City evolution planning
- Security and crisis management

Challenges shared by the city representatives were:

- Evaluation of action's impact on climate neutrality
- Co-creation of a solution by many stakeholders
- Access to the last mile data to improve logistics
- Privacy of personal mobility data
- Crowd management
- ...



<https://itea4.org/publication/download/itea-smart-cities-customer-workshop-report-june-2023.pdf>

Cyber Security Advisory Board meeting

Cyber Security Advisory Board meeting

Participants

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CySAB members attending last meeting:

- Assa Abloy
- Armengaud Innovate
- Saab
- Signify
- Viratex Studio Ltd

Keynote presentation by Thales:
Identity and access management



Cyber Security Advisory Board meeting Results

Challenges shared by the CySAB members were:

- Federated machine learning
- Large language models
- Traceability and trustability of complex decision process
- Onboarding people without cumbersome processes
- Trusted collaborative spaces
- Adaption of products and production processes to new cyber security regulations
- Responsible cyber security
- AI/ML for cyber security
- Post-quantum cyber security



ITEA Cyber Security Advisory Board (CySAB) report

Meeting 29 June 2023, online

On 29 June 2023, the fifth ITEA CySAB meeting took place with the following Advisory Board members:

Company	Country	Represented by
Assa Abloy	Poland/Sweden	Tomasz Grabowski
Armengaud Innovate GmbH	Austria	Eric Armengaud
Saab	Sweden	Johan Tenggren
Signify	The Netherlands	Sandeep Kumar
Vitrex Studio Ltd	Hungary	Gabor Gulyas

In addition, both Jordi Clement Chief Technology Officer, Identity and Access Management (IAM) at Thales and Christian Dietrich, who is also from Thales and member of the ITEA Steering Group, joined the meeting.

ITEA is a Eureka Cluster instrument to build innovative RD&I projects that are funded by national funding agencies and that are based on the urgent needs and requirements of end-users.

The ITEA Cyber Security Advisory Board (CySAB) has been established to understand the urgent customer needs and requirements in the cyber security domain to build up innovative research projects by the ITEA Community solving cyber security challenges. In addition, this Board enables the member organisations to learn and to get inspired from each other and to create collaboration among members and between members and the ITEA RD&I Community.

This CySAB meeting was set up to review the State-of-the-Art in identity and access management with an analysis of the main trends. It was also the opportunity to listen to the Board members providing insights into their important cyber security issues. Finally, a discussion took place regarding the ITEA CySAB portal that was set up to gather the challenges and solutions and other relevant information in one central place.

Identity and access management landscape

According to Jordi Clement, who gave a keynote during the meeting, digital identity is the basis of trusted digital interactions because we continuously need to know with whom we are dealing with and what actions are authorised for this identity to develop secure digital applications. In addition,

ITEA is the Eureka Cluster on software innovation



<https://itea4.org/publication/download/itea-cyber-security-advisory-board-meeting-report-july-2023.pdf>

General advices

- Define which impact is targeted (KPIs), for which customers & end users
- Describe clearly your innovation challenge
- Choose a light consortium, no sleeping partners, a partnership with a purpose (extract from the **value chain**)
- Check eligibility for funding with PA
- Don't just collect text from everybody but share a clear and compact, common story
- Use the ITEA project to prepare long-term business partnerships

“Aller Anfang ist schwer.”

All beginnings are hard

German proverb

Thank you
for your attention

X @ITEA_4 | #PODays2023