SW4E SOFTWARE ENGINEERING ECOSYSTEM

Efficiency
Excellence
Experiments

Software engineering ecosystem

DIMECC

Software is shaping the future

1. Automation and efficiency

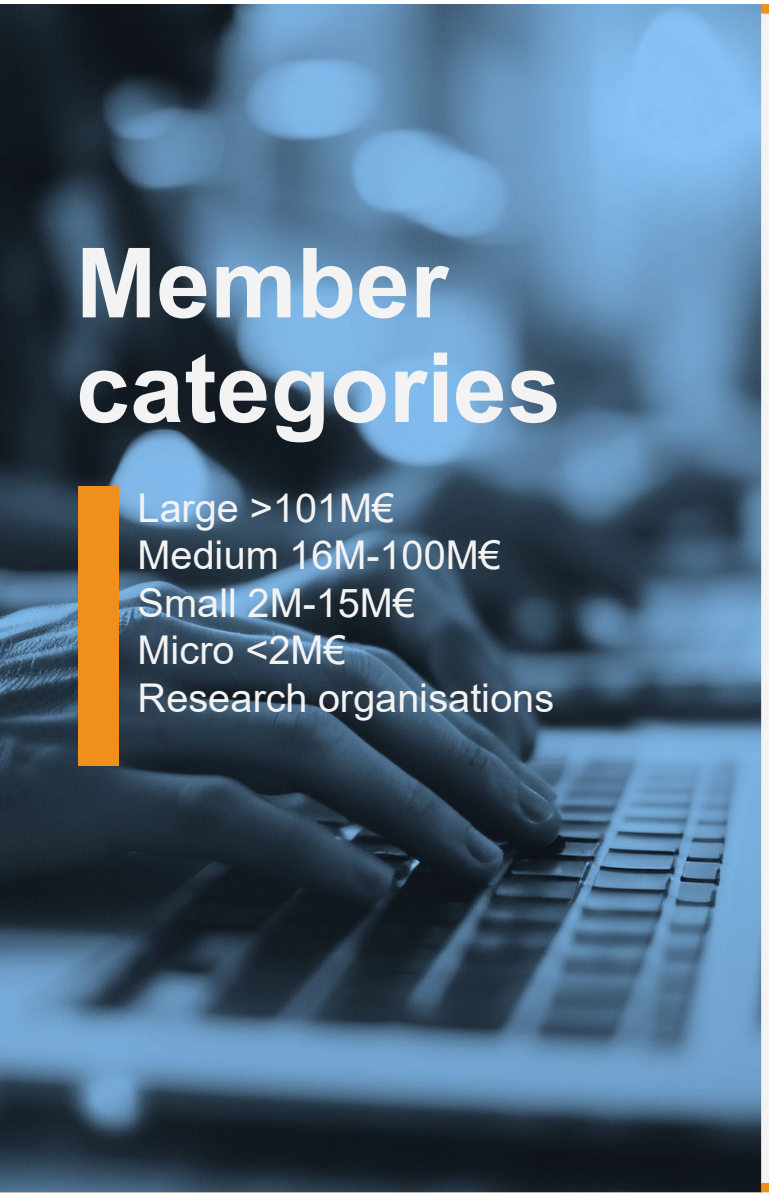
Software automates repetitive tasks, boosting efficiency and allowing personnel to focus on higher value activities. This happens in all across the industries.

2. Data-driven decision making

Software collects and analyses vast amounts of data, enabling businesses to make better informed decisions. Advanced analytics provide insights into market trends and customer preferences, helping companies refine strategies and gain a competitive edge.

3. Innovation and competitive advantage

Software drives innovation by enabling new business models and disrupting traditional industries. Technologies like cloud computing and agile development allow rapid scaling and continuous improvement, ensuring businesses stay ahead in the market.



Member categories

Large >101M€
Medium 16M-100M€
Small 2M-15M€
Micro <2M€
Research organisations

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Common themes

- Real-time value delivering
- Organizational and cultural models for value production
- Software business - seize the money
- Deployment and lifetime
- Tools and methods
- Better software architecture
- Software and information security
- Craft of software development
- Quality software
- AI and software engineering
- Open source
- Sustainability
- Quantum computing

It’s a win-win-win platform

Collaborative innovation, a platform for co-creation and shared expertise to drive groundbreaking research and development.

Holistic support, access a wide range of resources and support tailored to the needs of early-phase R&D projects and collaborative efforts.

Vibrant community, join a dynamic network of software-driven companies and research institutions dedicated to advancing technological innovation.

Collaboration is the key

1. Faster development

Shared expertise means that diverse skill sets lead to quicker problem-solving and innovation. Multiple developers in parallel workstreams will work simultaneously speeding up the process.

2. Increased efficiency

Clear communication and collaboration tools reduce misunderstandings and errors. Code reviews by peers will enhance code quality and reduce technical debt.

3. Enhanced experimentation

Diverse perspectives encourage creative solutions and new approaches.

Continuous feedback helps identify, address and mitigate risks early.

Instant value from SW4E ecosystem

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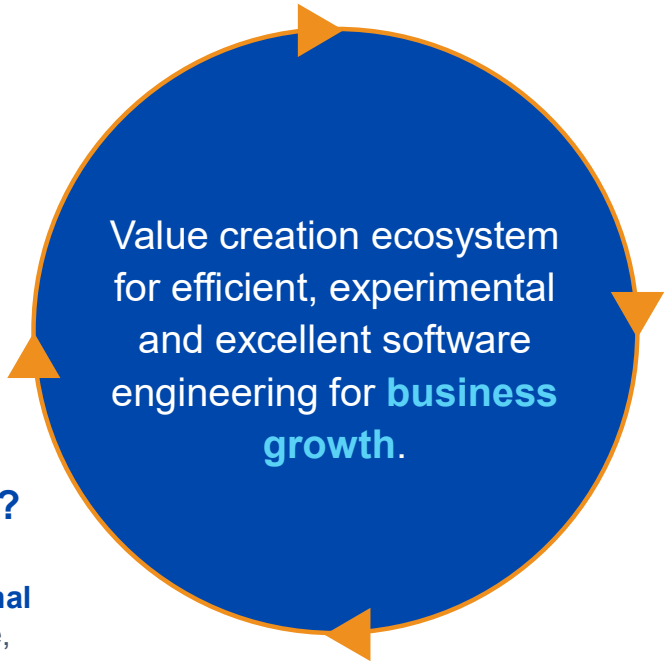
SW4E Ecosystem



Why should I care?

Every business is a software business

Seeking for simplifying SW development, speeding up time to productivity and efficiency with scalable, shared best practises

What I am aiming at?

Accelerate innovation through shared knowledge

Advancing technological innovation for business growth, with unique platform and culture for collaboration

For whom the SW matters?

Any software-driven company, research institution, or professional

Access funding, regulatory guidance, and strategic support, find partnerships and join programs

How SW4E can help?

Facilitating collaborative R&D, shared expertise and partnerships

Resource for financial, knowledge sharing, engaging and vibrant community of industry professionals

Welcome to…

Sharing
Knowhow
Methodology
Technologies
Tools

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SW4E members

Kela | Fpa
M-Files.
INNOFACTOR
boogie software
DEMOLA
Q4US QUALITY IS PERSONAL
UNIVERSITY OF HELSINKI
UNIVERSITY OF TURKU
UNIVERSITY OF OULU
Aalto-yliopisto
Aalto-universitetet
Aalto University
CSC
UNIVERSITY OF JYVÄSKYLÄ
Tampere University
Åbo Akademi
BUSINESS FINLAND

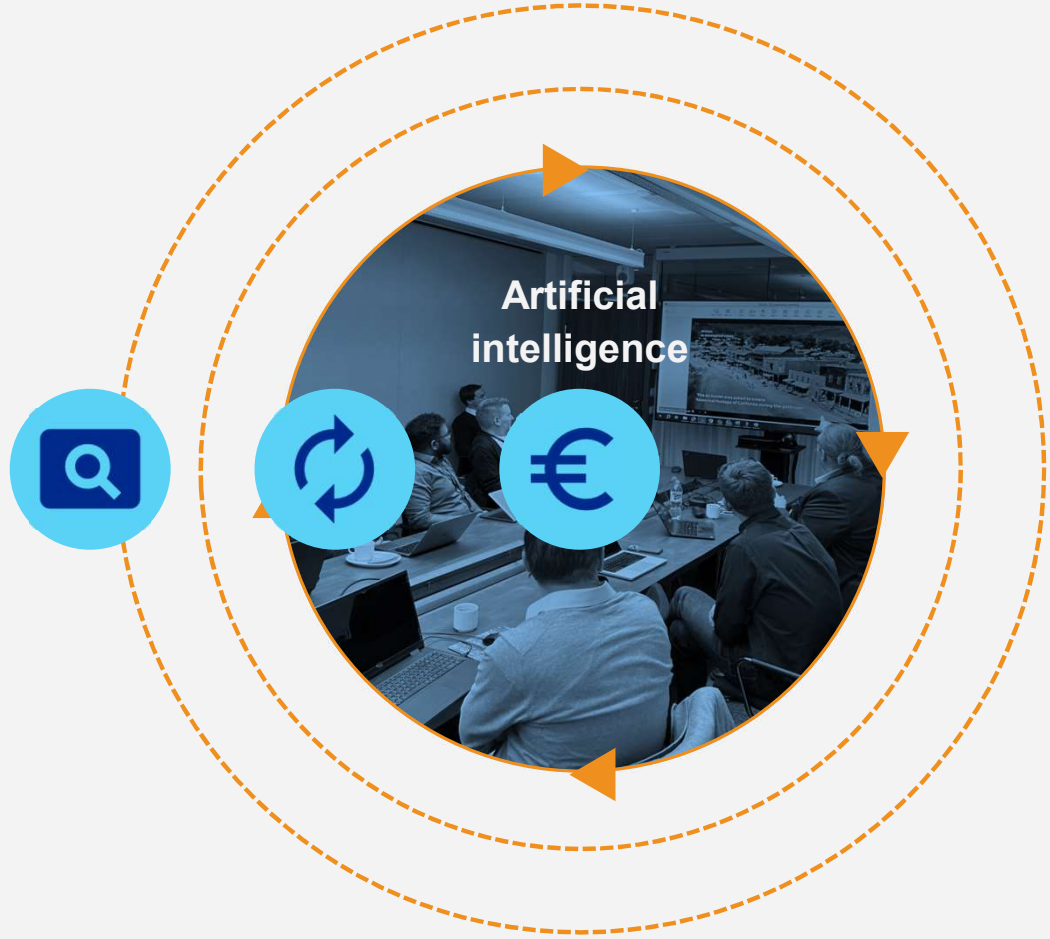
Multiple perspectives on current topics

AI driven development

AI-enhanced software design

AI in continuous integration / deployment

Automated code generation using AI



AI ethics and governance

Ethical AI development practices

AI governance frameworks

Bias detection and mitigation in AI

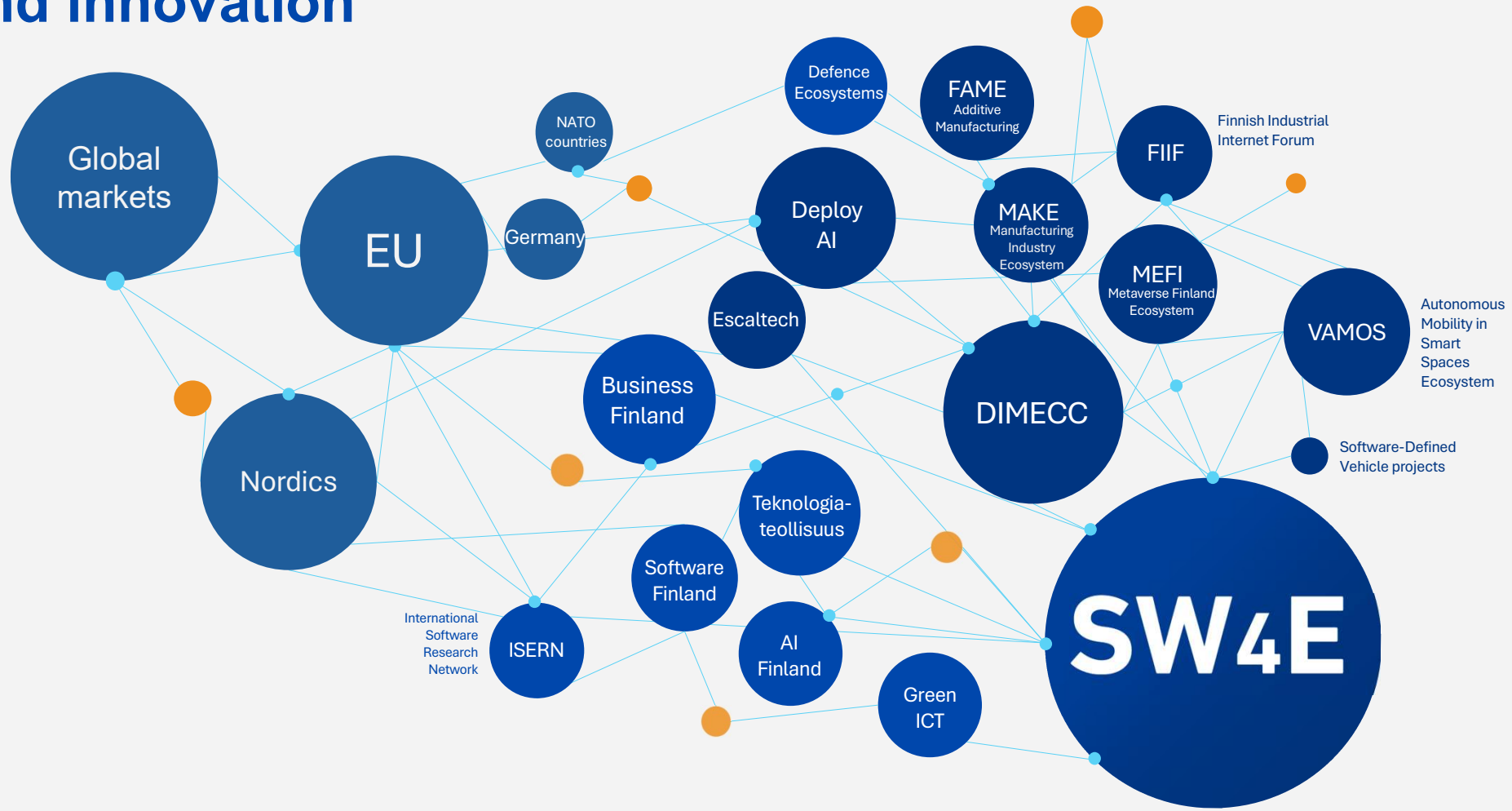
AI for business optimisation

AI in supply chain optimization

AI for customer relationship management

AI-driven financial forecasting

Global and regional networks drive growth and innovation



Summary

Five ways to benefit from software engineering ecosystem SW4E

Member benefits

Collaborative platform for companies, research and education entities, and organizations that play a crucial role in software production and utilization.

Focused business growth by concentrating on essentials such as real-time value delivery, organizational and cultural models, software investment culture, improved software architecture, and enhanced security.

Facilitating digitalisation and establishing a robust foundation for value creation within the software engineering ecosystem.

Unified roadmap and partner collaboration to identify, plan, create, and execute common activities, ensuring alignment towards achieving desired outcomes.

Comprehensive benefits include collaboration with major businesses and research institutions, accelerated innovation and growth, collective problem-solving, knowledge sharing, strategic alliances, and access to shared resources and funding opportunities.

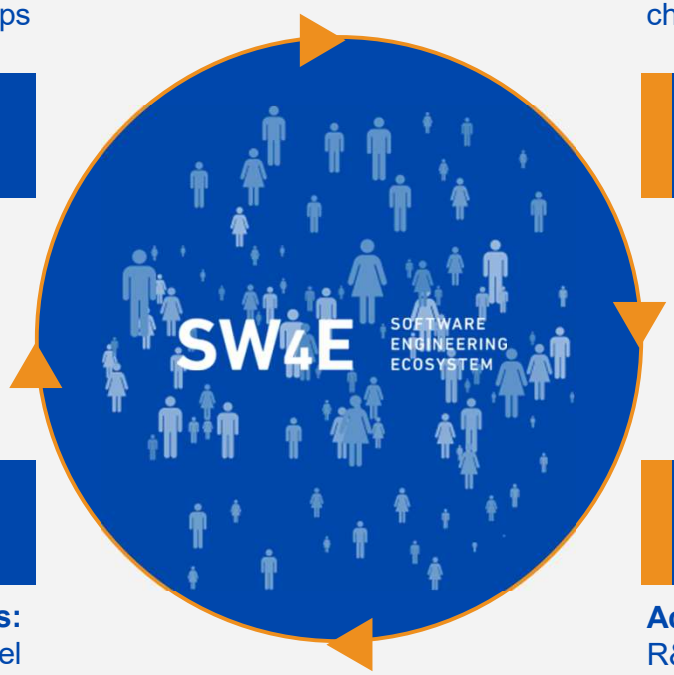
Operating model: SW4E management

Management board defines:
Vision
Mission & strategy
Roadmaps

Full-time ecosystem lead

Member roles:
Each member organisation will name their member to management board. Board selects chairperson.

Artificial intelligence working group



Research cooperation

Sustainability working group

International cooperation

Management board oversees:
Common operations model
Stakeholders
Stakeholder groups

New working groups based on member needs

Activities:
R&D&I programs, pilots and POC's
Common resources, test labs etc.
Skills, competence and capability development
Events, communication, promotion, member and research organisation networks

Q4US and AI driven code models

Q4US is participating actively in the **AI working group.**
They have successfully tested and implemented AI driven code review models and have shared their experiences and learnings to ecosystem members.

Sandun Dasanayake
CEO I Co-Founder

"It is a pleasure to share experiences with likeminded professionals in SW4E working groups. By sharing our learnings, trials and errors openly we work better as an industry. As a CEO I want to give my employees an opportunity to showcase their expertise and of course learn from others. This way I am able to support their professional growth through facilitated activities"

Significant improvements in work time savings for senior developers using AI-driven code reviews.

SW4E strengthens Kela’s way of innovation

KELA is a Finnish government agency responsible for administering social security benefits in Finland.
KELA's mission is to ensure basic economic security and promote the health and wellbeing of Finnish residents through these comprehensive social security services.

Timo Paananen
Technical lead
Innovation and growth unit of KELA

“We are part of SW4E because it helps KELA to develop and maintain our staff's skills, enhance market understanding, and improve risk management with up-to-date technology reviews.

SW4E broadens our perspective by introducing new people and ideas, fuels our ways of doing innovation in our organization. Additionally, it supports the competitiveness and export potential of the Finnish software industry”

KELA IT in numbers:

300+	900+	2,2M	136
Number of IT applications	Size of KELA´s IT staff	Digital customers	IT projects annually

How to get started?

Connect:
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SW4E SOFTWARE ENGINEERING ECOSYSTEM

1. Concretise interests and needs
2. Engage and participate
3. Innovate through collaboration
4. Grow business, faster time to market

Outcome:
Gain value from software engineering ecosystem

Dimecc

Co-creation company driving and supporting organisations in their digital transformation. Private public partnership

In a nutshell

900+ M€ of facilitated programs

31 M€ RDI program portfolio (2023)

Founded in 2008, 2 offices in Finland,Tampere (HQ) and Helsinki.

With 28 employees DIMECC involves over 2000 persons in co-creation activities.

Ecosystems portfolio:

ONE SEA Autonomous maritime ecosystem

FAME Finnish Additive Manufacturing Ecosystem

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FAMN Finnish Advanced Manufacturing Network

VAMOS AUTONOMOUS MOBILITY IN SMART SPACES

MEFI Metaverse Finland Ecosystem

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Thank you!

sw4e.fi