



ANNUAL REPORT 2023



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What is the industrial investment of our era?

Even in the middle of the recent pessimistic macroeconomic estimates and decreasing business trends the most innovative and determined players continue to outperform the market and create a positive outlook for themselves, their partners, and customers. They see challenging times as opportunities to break the old ways of working and push to find means to improve their performance over competition. For them, external bottlenecks and uncertainties in the business environment are good reasons to do something new and disruptive. They want to win, lead and drive, not just follow.

DIMECC's philosophy is to be slightly better every single day and every single year. A modest but continuous annual improvement of 2 per cent will lead into almost 50 per cent cumulative improvement in just 20 years. A 3 per cent annual improvement will reach the same goal in less than 15 years. In November 2023 DIMECC celebrated its 15th anniversary of such a work in practice.

In 2020 DIMECC's Board of Directors set us challenging growth targets. The idea was to triple DIMECC's program portfolio volume, revenue, and size of personnel by 2025, i.e. in 5 years. The starting numbers were: 9 M€ (portfolio), 1,5 M€ (revenue) and 9 (personnel). Year 2023 was the third year of the program, and the results look good. Our program portfolio volume exceeded 30 M€, so we have

already reached that goal – two years ahead of the schedule. Our revenue was about 3,5 M€ – highest in our 15-year history! – and the size of our personnel was 24. We are clearly on track.

In addition to the growth targets, we actively search for more EU-funding to our customers. In the 2010's, DIMECC's typical annual EU activity volume was about 50 k€ in a single project. In 2023, DIMECC was partner of six EU projects and in 2024 we most likely increase that number significantly. In 2024 we will pass by the 500 k€ annual EU activity volume with a target of one million euros in 2025.

The growth and successes in the early 2020s encourage us, but they also make us humble. They challenge us to continuously improve and develop our operations – and be slightly better every single day. I would like to thank all our customers, public funding supporters, shareholders, stakeholders, and our personnel for the excellent team spirit. A team is always stronger than its members alone.

Harri Kulmala, CEO



DIMECC operational model

Ecosystems

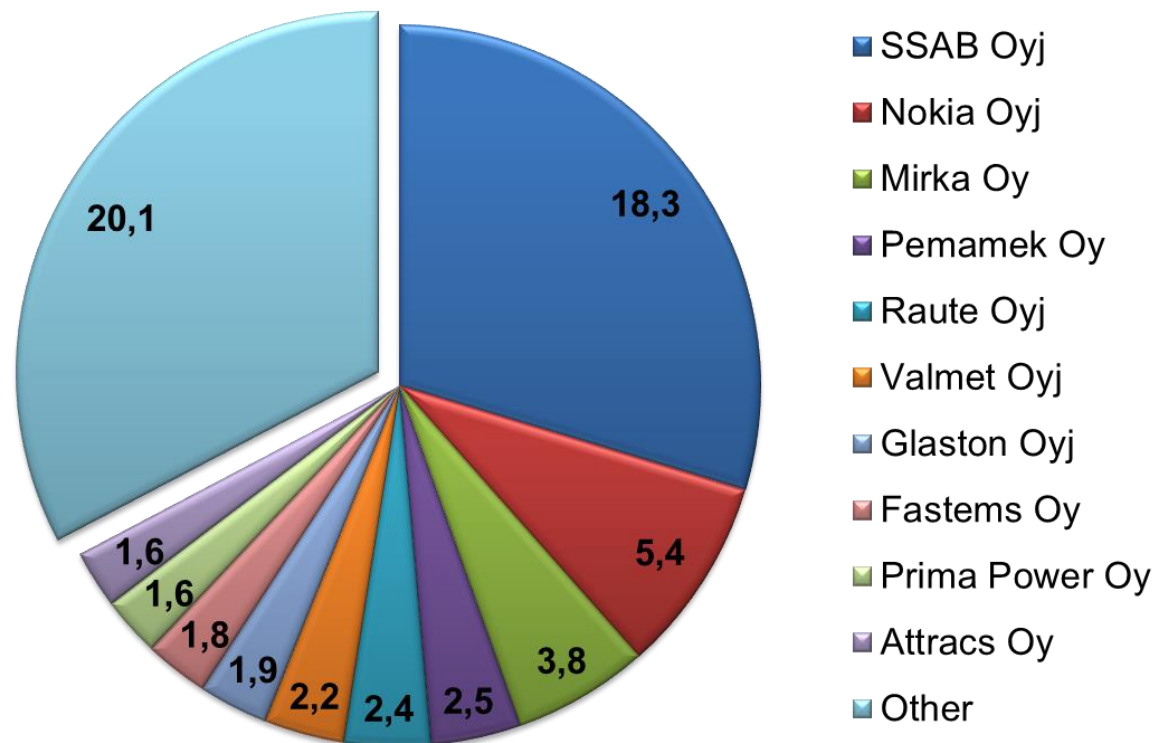
Programs and
projects

Co-creation
Services

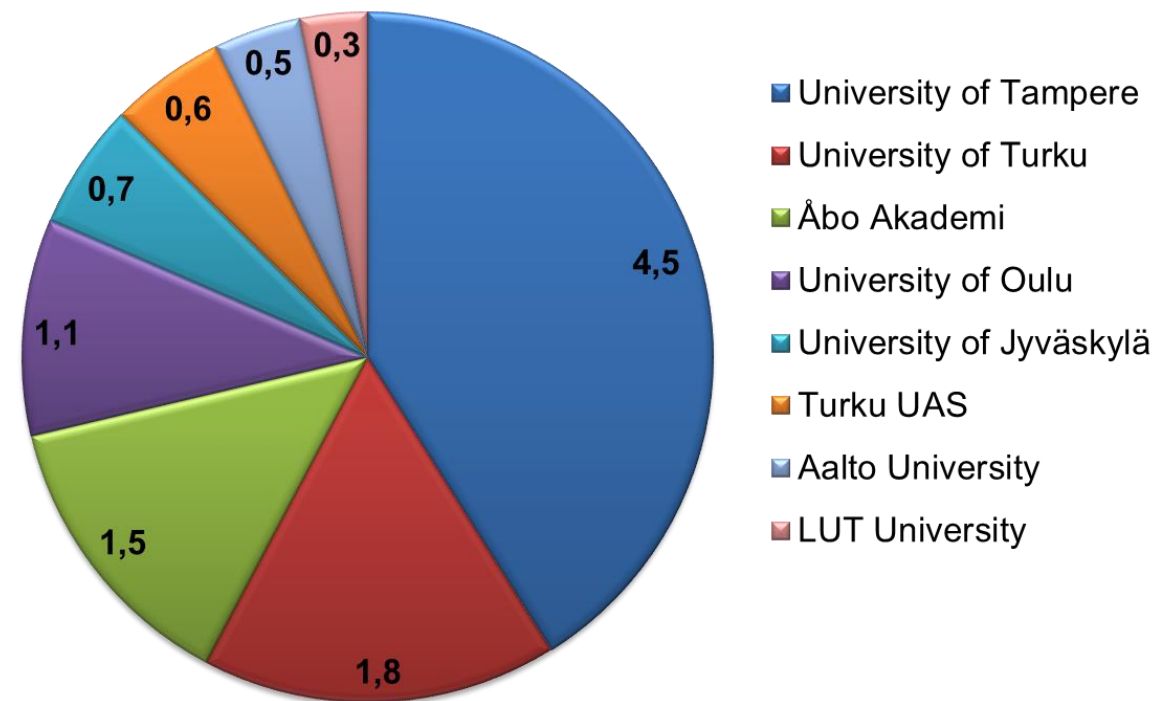
Networks

DIMECC Program portfolio

Private investment in programs, M€ (2023)

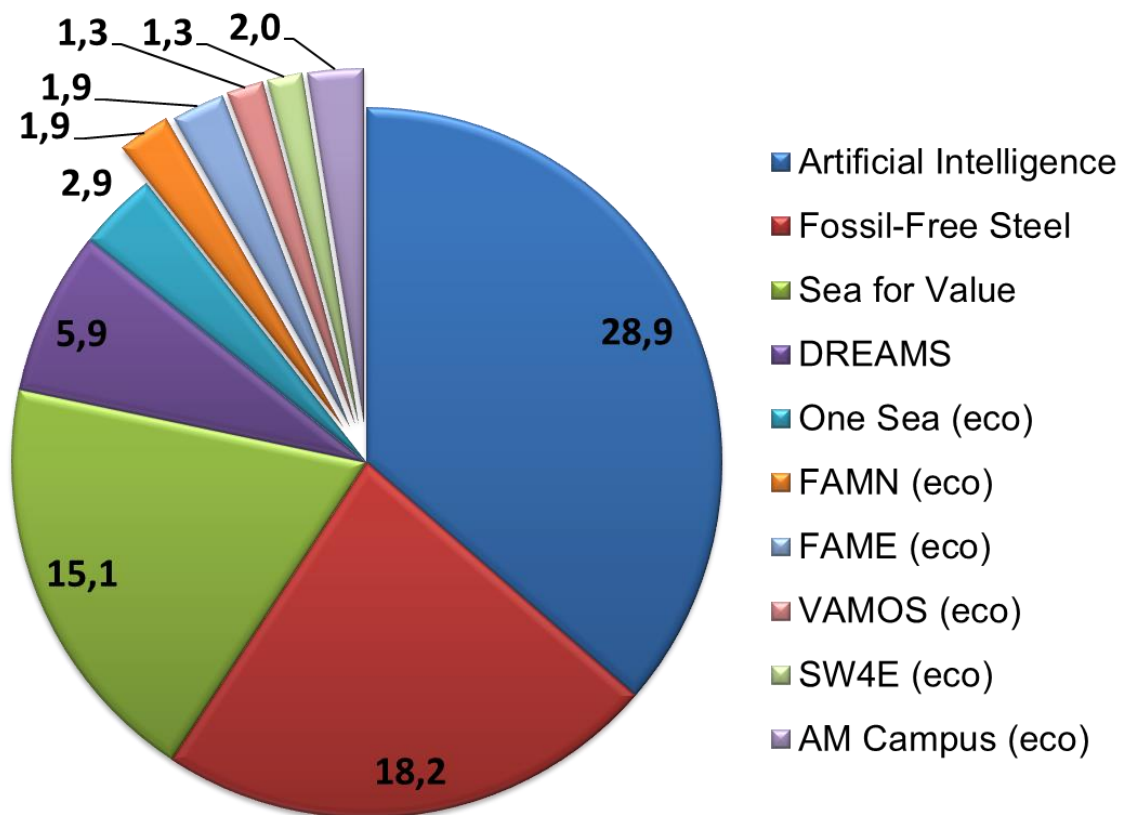


Research institute budgets, M€ (2023)

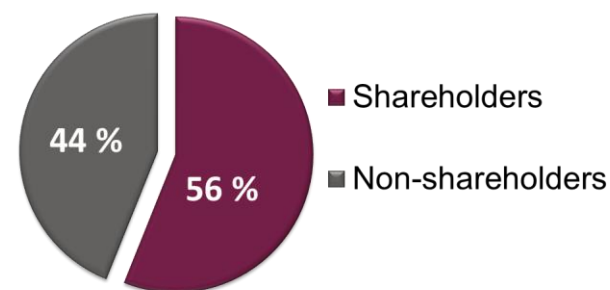


Budgetary division of program portfolio

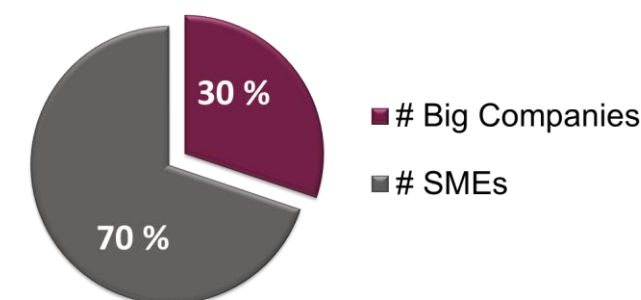
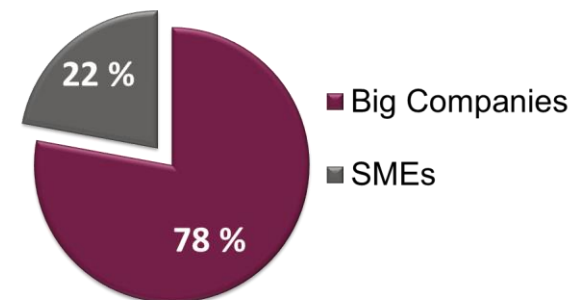
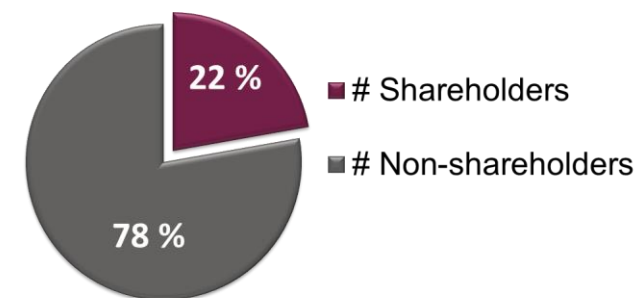
Program budgets, M€ (2023)



Share of program budgets



Number of companies



ONE SEA



BUSINESS
FINLAND

One Sea leads the way towards an automated and autonomous maritime transport system.

www.one-sea.org

DIMECC

One Sea Highlights 2023

Established in 2016, the One Sea ecosystem has significantly contributed to advancing autonomous maritime operations. It emerged from the vision of leading maritime industry companies that autonomous shipping is the future solution requiring global collaboration. The One Sea ecosystem, consisting of leading manufacturers, digital solution providers, and operators of automated and autonomous systems, was launched in 2016. The neutral operator DIMECC was selected to operate it, and the ecosystem received partial funding from Business Finland.

The technological development of autonomous shipping progressed rapidly from testing phases towards greater readiness for implementation and product market entry. In 2019, members of the One Sea ecosystem identified that the slowness of global regulation and standardization was the major impediment to advancing autonomous shipping. To drive this change, the One Sea association was established.

The association was ready to outgrow DIMECC's ecosystem model in 2023 and continue its global operations, promoting the realization of autonomous shipping and creating its prerequisites.

On December 18th, we celebrated One Sea being the second DIMECC ecosystem in a row to continue its operations without public funding.





FAMN
Finnish Advanced
Manufacturing Network

ABLOY **BECKHOFF** *Danfoss*

DELFOI **e**elekmerk **ELEMATIC**

8760 **Fastems** **FinnSonic** **HT LASER**

KONECRANES **KEMPPI** **NOKIA**

Prima Power **SIEMENS** **tietoenviro**

WÄRTSILÄ

**Technology Industries
of Finland**

FAMN improves the global competitiveness of industrial companies and accelerates their sustainable renewal and digitalisation.

www.famn.fi

DIMECC

FAMN Highlights 2023

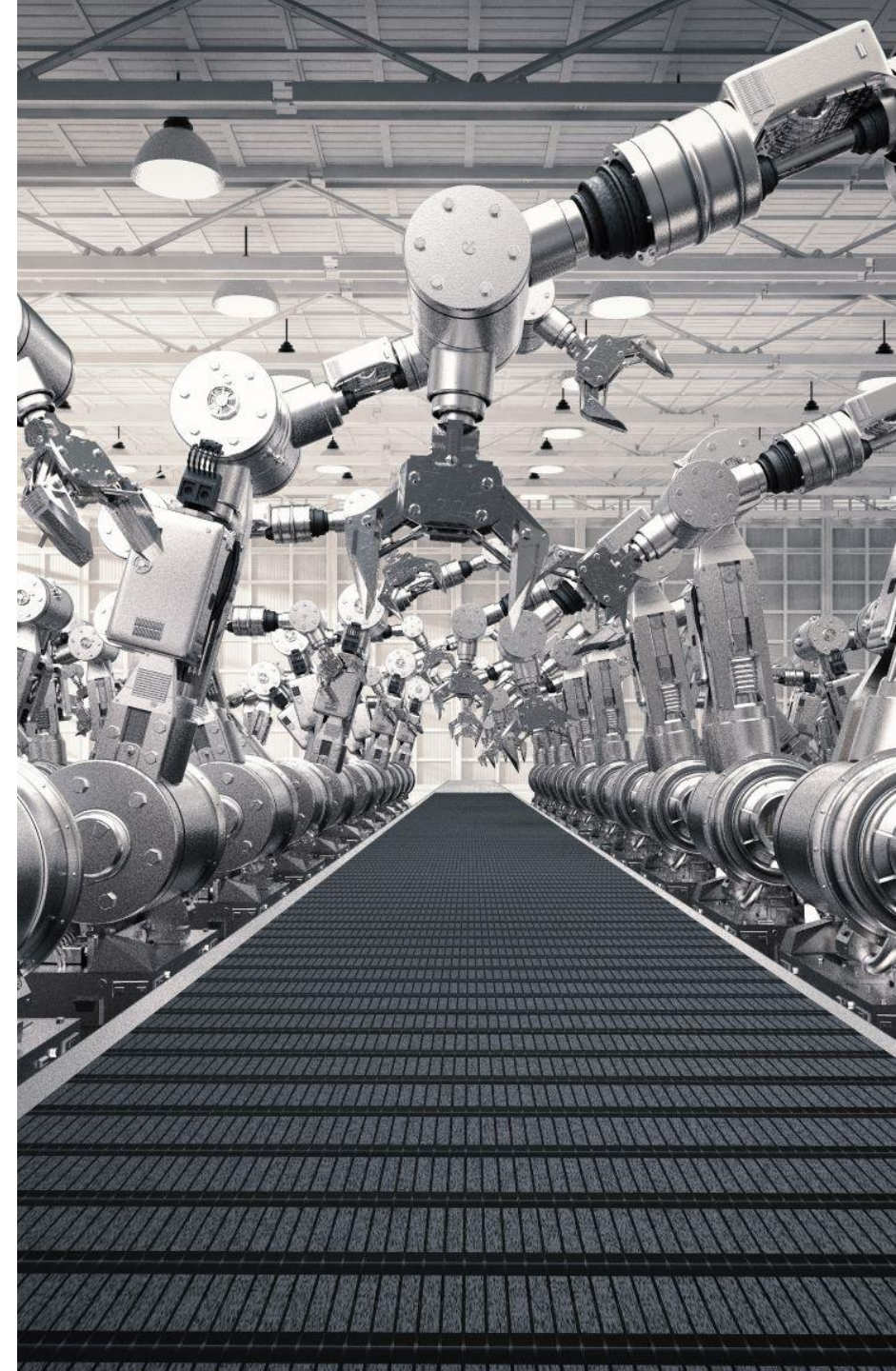
The Finnish Advanced Manufacturing Network (FAMN) is a company-led business-driven open ecosystem that was established in December 2021 together with the Technology Industries of Finland. FAMN was created by enlarging and enriching the Intelligent Industry ecosystem, that has been operated since 2017.

2023 was a busy year for FAMN with several activities e.g. Machine Learning Academy, Business Model Academy trainings and Data & AI accelerator were executed during 2023.

Information and knowledge sharing was one of the key topics during the year 2023 for FAMN. FAMN organized or participated in multiple seminars. Few examples: Megatrends seminar with Sitra and multiple Flash events, e.g. from EU Data act and sustainability regulations.

In addition, FAMN worked on the common manufacturing roadmap for Finland in cooperation with other ecosystem actors.

Two new RDI projects were prepared. During the end of the year, FAMN also welcomed several new members.



Finnish Additive Manufacturing Ecosystem FAME is an industrial ecosystem that increases the role of Additive Manufacturing in Finland and unleashes business potential in AM capabilities.

Vision:
Sustainable AM is Finland's competitive edge by 2030.

www.fame3d.fi/

FAME Highlights 2023

AM Campus operations commenced, and modern metal AM system (EOS M290) was leased. The first cases were printed.

Main partner with Danish AM Hub and Norwegian AM Cluster at Formnext23 international trade fair in Germany (world's largest AM trade fair).

Participation in Subcontracting trade fair in Tampere and Technology trade fair in Helsinki.

The largest Additively Manufactured Metal Structure (pressure vessel, see page 46) in Finland, was tested according the standards and test results were shared. Gained a great deal of interest internationally.

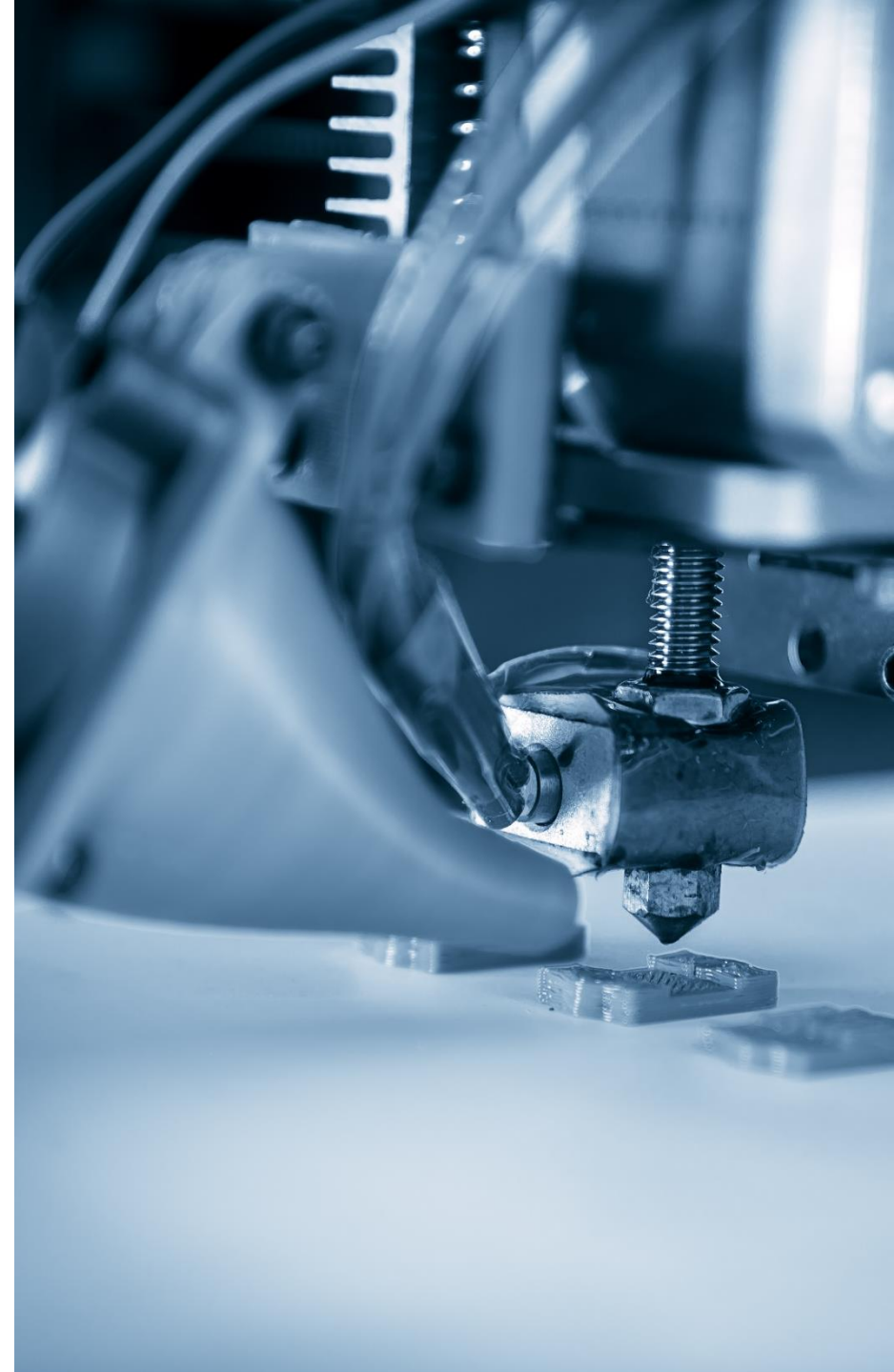
Strategy Days at Helsinki Q1 and FAME Days at Oulu Q4.

DREAMS RDI-project research mid-results shared, over 80 participants.

AMAze RDI-project (3,9 M€) application sent to Business Finland & WellDED RDI-project preparation started.

FAME AM training concept introduced, over 130 participants from industry.

14 new members joined FAME Ecosystem.





VAMOS brings trusted players together for implementing practical applications for moving people and things with better experience and efficiency.

VAMOS Highlights 2023

By the end of 2023, VAMOS has 22 active members. The ecosystem has organized many excursions in Finland (e.g. facilities of Posiva and Konecranes) and outside Finland, as well as internal and public events to foster direct interaction and collaboration between the member companies. VAMOS was also presented in 10+ public events and exhibitions to raise the visibility of its activities and members.

2023 was also an RDI-packed year. VAMOS is actively involved 2 projects focusing on developing 6G network for autonomous mobility use cases and mixed fleet management (12.5 M€). Funding for an EU project on the hardware abstraction layer for a European software-defined vehicle approach has also been granted (76,7 M€), while another co-innovation proposal on situational awareness of autonomous machines has been submitted (8,8 M€). The ecosystem also initiated a joint testing environment initiative, where we collected all the members' needs and benchmarked ideas on the existing test sites in Finland.

VAMOS has published its [first vision paper](#) to showcase how autonomous mobility and smart spaces improve our daily lives and fight against global challenges of climate change and growing population. Besides, the ecosystem aims to expand its network and influence internationally, e.g., through active participation in the European Automotive Cluster Network.



SW4E

SOFTWARE
ENGINEERING
ECOSYSTEM

M-Files.

Kela|Fpa 

INNOFACTOR

DEMOLA

boogie
software

BUSINESS
FINLAND

A”

Aalto University

 UNIVERSITY
OF TURKU



UNIVERSITY
OF OULU


UNIVERSITY OF JYVÄSKYLÄ



HELSINGIN YLIOPISTO
HELSINGFORS UNIVERSITET
UNIVERSITY OF HELSINKI

Defining the needs and challenges
of Software Engineering now and
in the future.

sw4e.fi

DIMECC

SW4E Highlights 2023

The share and importance of software in practically all products and services is growing rapidly. In addition, digital systems are becoming more and more complex. The SW4E Ecosystem responds to the challenges of growing complexity and demand by strengthening the know-how of software development methods, technologies and tools, and also culture and leadership. In 2023 the ecosystem faced the growing demand for several AI and Sustainability related themes.

The QLeap Project, working on software containers and pivoting the utilization of LLM's in container development, continued. Several publications, demos and proof of concepts were delivered as planned. The project is led by the University of Jyväskylä and involves Nokia, Tietoevry, Bittium, M-Files, Solita and Vaadin.

SWE4 Ecosystem initiated also the MAISA (Managed AI-Powered Software Innovations) Project. This Project involves ecosystem members Boogie Software, Demola Global and University of Oulu. LUT University and Tampere University, Bittium, Koivu, Siili, Vertex, Haltian, HeadAI and Netum are other participants. MAISA is related to Tietoevry Leading Company Project .

These Projects were set up based on the Roadmap work done together with the ecosystem Management Board.



Sea4Value: Smart Terminals – Smarter

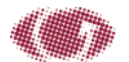
Schedule: 2021–2023

Volume: 9 M€



Smart Terminals – SMARTER project is part of the Sea4Value program, which focuses on the digitalization of port-to-port logistics chain. SMARTER has two main objectives:

- Reduction of emissions by optimizing port logistics. Ports are often located in existing city infrastructure with restricted possibilities of re-design without major investment. The port areas are typically also condensed with limited capacity. SMARTER seeks digital solutions to make notable difference in emissions by smarter logistics.
- Exceptional flow and experience for the passengers and cargo. The project creates replicable models for organizing the passenger and cargo logistics.



Programs & Projects

AISA – AI for Situational Awareness

Schedule: 2021-2024
Volume: 12,6 M€



AISA (AI for Situational Awareness) project focuses on taking AI-assisted situational awareness to the top of the industrial world.

The utilization of situational awareness created by artificial intelligence and versatile sensing – in particular, the processing of video, image and audio data streams using modern machine learning methods – are central to the AISA project.

Leveraging high speed edge computing and the ultra-low latency power of 5G networks will also ensure that industrial applications have rapid response times.

The three-year AISA project, which began in June 2021, is initiated by Nokia and facilitated by DIMECC.

The logo for Nokia, consisting of the word "NOKIA" in a bold, uppercase, sans-serif font.

The logo for Mirka, featuring the word "MIRKA" in a bold, uppercase, sans-serif font on a yellow rectangular background.

The logo for Valmet, consisting of the word "Valmet" in a bold, uppercase, sans-serif font next to a stylized green and white diamond shape.

The logo for INSTA, featuring the word "INSTA" in a bold, uppercase, sans-serif font with a blue dot above the "I".

The logo for TOPdata science, featuring the word "TOP" in a bold, uppercase, sans-serif font with a colorful circular graphic to its left, followed by "data science" in a smaller, lowercase, sans-serif font.

The logo for FICOLO, featuring a colorful geometric shape to the left of the word "FICOLO" in a bold, uppercase, sans-serif font.

The logo for Tampere University, featuring a stylized "TJ" symbol to the left of the text "Tampere University" in a lowercase, sans-serif font.

The logo for BUSINESS FINLAND, featuring the words "BUSINESS" and "FINLAND" in a bold, uppercase, sans-serif font.

Programs & Projects

Industry X

Schedule: 2022-2025
Volume: 16,3 M€



The manufacturing industry's requirements for production flexibility and autonomy are growing at an accelerating pace. Key technologies in the change are artificial intelligence, cloud services, edge computing and ultra-fast wireless communication connections (5G).

In the Industry X project, Nokia Technologies and seven industrial equipment suppliers - Fastems, Glaston, Pemamek, Prima Power, Raute, Vacon and Vaski - strengthen their international competitiveness with pioneer applications that utilize the latest developments in digitalization. The project's research institute partner is Tampere University.

The Industry X project, which began in 2022, is initiated by FAMN member Nokia and facilitated by DIMECC.



Necoverse

Schedule: 2023-2025
Volume: 5,5 M€



The Necoverse project aims at the development and utilization of new training, planning and operating environments in shipbuilding. The main part of the project is a metaverse, which creates shared interactive three-dimensional experiences with the help of virtual reality, augmented reality and videos. The virtual shipyard environment operating in the industrial metaverse offers new opportunities for many people, from interior designers to trainers of shipyard workers.

The Necoverse project is part of Meyer Turku's NEcOLEAP Leading company ecosystem, which aims to develop a climate-neutral cruise ship concept by 2025. In Necoverse, new collaboration tools are being developed for the Meyer shipyard, which improve energy efficiency in training, commissioning, planning, operation and maintenance.



DREAMS

Database for Radically Enhancing
Additive Manufacturing and
Standardization

Original schedule: 2022-2024
Updated schedule: 2022-2025
(1 year extension)

Volume: 6 Million EUR



The DREAMS project created a comprehensive and open material **database** for material mechanical properties by additively manufacturing and testing **10 000 metal test specimens** using Laser Powder Bed Fusion (**LPBF/M**) technology. The data bank will compensate for the lack of industry standards and facilitate the utilization of Additive Manufacturing of metals in the most demanding applications, which will also be studied in the project.

Part of the project consortium extended the project timeline with one year to complete the planned activities.

Research findings were shared during FAME days in Oulu with 95 attendees from FAME members.

CYIENT



Patria



BUSINESS
FINLAND

FFS Towards Fossil-free Steel

Schedule: 2021-2023
Volume: 10,7 M€

FFS Towards Fossil-free Steel

The Towards Fossil-free Steel research project supports SSAB's strategic goal of gradually transitioning towards fossil-free steelmaking by mapping the solutions and alternatives to replace fossil fuels with renewable energy in steelmaking.

The FFS project's goal is to determine solutions to produce green forms of energy, i.e. hydrogen, biochar and biogas - for the steel industry. In addition, the project will study the smelting of hydrogen-reduced sponge iron in an electric arc furnace, the manufacture of fossil-free lime and new solutions to utilize the by-products created in the steelmaking processes.

DIMECC provides SSAB with the management of research and development projects towards Fossil-free Steel production. FFS started in August 2021.

Project partners include: SSAB, Tapojärvi, Luxmet, Nordkalk, Ovako, Fortum, Valmet, University of Oulu, Åbo Akademi, VTT & other companies supporting the project are Andritz, ABB, and Finnsementti.

The logo for SSAB, consisting of the letters 'SSAB' in a bold, black, sans-serif font.

FOSSA Fossil-free Steel Application

Schedule: 2022-2023
Volume: 7,5 M€

FOSSA Towards Fossil-free Steel

FOSSA project aims to initiate the transition towards carbon neutral Finland and conforms to an essential part of the strategic research agenda (SRA) of the Association of Finnish Steel and Metal Producers. The main topics of the FOSSA project are fossil-free steels' value chain, breakthrough steels and steel applications, and virtual steel production.

DIMECC provides SSAB with the management of research and development projects to fossil-free Steel project, Fossa (Fossil-free Steel Applications) was started in January 2022.

Project partners include are SSAB Europe Oy, HIAB (Cargotec Oyj), Fortaco Oy and Indalco Oy. The supporting partners include Kemppi Oy, Ponsse Oyj, Rauma Marine Constructions Finland Oy, and Ramboll Finland Oy. Research partners are University of Oulu, Lappeenranta-Lahti Technical University, and Tampere University.

AdmaTranS4Mers



Schedule: 1.10.2021-31.12.2024
Volume: 5,6M€



ADMA TranS4Mers supports manufacturing SMEs in their digitalisation and encourages them to become Factories of the Future. This €5.6M H2020 project builds on the work of ADMA, the European Advanced Manufacturing Support Centre. The project will run until December 2024 and it is implemented by a consortium of 38 partners from the 27 European Union member states.

Through ADMA manufacturing SMEs have the possibility to get free consultation from trained transformers that will support the companies in performing a scan and assessing their performance over 7 different transformation areas. Based on the scan, an individual transformation plan will be made to support the company in its transformation journey. Companies can also apply for recommended services on the ADMA platform.

In 2023, 3 xChange events were organized by DIMECC to attract companies to join ADMA and share their experiences. With selected companies, scans and transformation plans were completed. The work continues in 2024, focusing on getting more companies to join ADMA, and supporting their transformation journeys.

ESCALTECH

Schedule: 1.3.2023-28.2.2026
Volume: 1,8M€



ESCALTECH

ESCALTECH focuses on providing companies in the fields of smart manufacturing, ICT, e-governance and smart mobility with customized support to help them overcome scaling-up challenges. The goal is to have altogether 90 companies in partner countries Finland, Estonia, and Latvia go through the program, resulting in at least 30 companies with a scaled up status. The ESCALTECH consortium consists of DIMECC (Finland), ITL (Estonia) and IT Cluster Latvia (lead partner). This Interreg Central Baltic funded project activities are based on companies' needs and feedback is collected after each session. In 2023, some trainings provided in the ESCALTECH context were

- Small talk training in Estonia
- Kick-off for Finnish ESCALTECH companies, Finland
- Let the numbers talk!, side event of Slush, Finland
- Go to Market and Positioning workshop, online

In Finland, more than 10 companies participated in the ESCALTECH activities in 2023. The work continues in 2024 to reach the KPI of 30 participating companies in Finland.

knowlEdge

(a.k.a “Towards AI powered manufacturing services, processes, and products in an edge-to-cloud-knowledge continuum for humans in-the-loop”)

Schedule: 1.1.2021 – 31.3.2024
Volume: 6,0M€

H2020, Grant Agreement 957331



The knowlEdge Project develops major innovations in the areas of data management, data analytics and knowledge management:

- A set of **AI services** enabling use of the edge-to-cloud computing continuum.
- A **digital twin** of the shop-floor for testing the AI models.
- A **data management framework** ensuring data quality, privacy, and confidentiality in a safe fog continuum.
- Tools for **Human-AI Collaboration** and **Domain Knowledge Fusion** for domain experts to inject their experience into the system.
- A set of **standardisation mechanisms** for the exchange of trained AI models from one context to another.
- A **knowledge marketplace platform** to distribute and interchange AI trained models.

The consortium consists of 13 partners from 7 EU countries, and its solution will be tested and evaluated in 3 manufacturing sectors. DIMECC is in charge of the project’s communication, dissemination, and standardization activities.

REBOOT SKILLS

Schedule: 1.1.2023-31.12.2025
Volume: 3,9M€



The aim of REBOOT SKILLS is to enable workers who are at present or who wish to be employed in the manufacturing sector to access advanced digital upskilling opportunities that can help them keep pace with the latest developments in Cybersecurity, Robotics, Artificial Intelligence (AI), the Industrial Internet of Things (IoT) and Additive Manufacturing (AM). The project brings together a novel mix of EU education providers and professional organizations to deliver a custom upskilling model of advanced digital skills-based through a portfolio of short training courses that will jointly empower workers and the manufacturing industry at this critical time for European manufacturing industry ecosystem.

In 2023, DIMECC has participated to the mapping of the industry's needs collecting data through e.g. surveys and interviews. Through its ecosystems and networks, DIMECC has been able to reinforce the collaborative effort around skills development in Finland, embracing synergies between stakeholders to bring stronger impact for the industry. The European collaboration between Finnish and Irish partners enabled the creation of a new training to introduce AM for the manufacturing industry. The course attracted more than 100 learners across Europe. DIMECC has also actively participated in the dissemination activities of the project both nationally and internationally. The work continues in 2024 where we will launch a dozen of short trainings in cooperation with national and European partners.

SusTool: 'Corporate Sustainability Reporting Tool'

Schedule: 1.1.2023-31.12.2025
Volume: 3,5M€



The SusTool project develops a sustainability reporting environment for SMEs that helps better align business performance with CSRD and the sustainability standards. In 2023, Dimecc Ltd focused on various tasks aimed at developing the methodology behind the tool. The involvement included:

- Participation in the methodology working group meetings, contributing to research, mapping, and conducting interviews. Involvement in the best practices working group, collaborating with Let's do it foundation (EE) to map sustainability reporting practices.
- Organizing awareness-raising campaigns, including roundtable events like the 'CSRD clinic' targeting ICT SMEs during MPD in June 2023. Dissemination and communication activities, including training sessions and knowledge transfer seminars for Finnish SMEs. (Held during Autumn 2023).
- Engaging with stakeholders in the corporate sustainability reporting field, including ministries, technology organizations, associations and companies.
- Collecting best practices in sustainability reporting, focusing on the ICT sector.
- Participation in training sessions with guest speakers from large corporations and SMEs to provide practical insights into sustainability reporting.
- Participation to COP28 in Dubai as part of the Estonian delegation.

3DTY

Schedule: 1.8.2023-31.7.2026
Volume: 3.2M€



3D printing of large structures is brought to the use of the manufacturing industry with a national collaboration project (3DTY).

The implementation of the project is carried out by the Additive Manufacturing Research and product development operators of Northern Finland (University of Oulu, Lapland Education Center REDU), Eastern Finland (University of Eastern Finland, Savonia University of Applied Sciences), Southern Finland (LUT University) and Western Finland (Tampere University of Applied Sciences). Innovation platform DIMECC Ltd's ecosystems FAMN (Finnish Advanced Manufacturing Network) and FAME (Finnish Additive Manufacturing Ecosystem) ensure the project's business impact. 3DTY includes twenty companies from the manufacturing industry around the country.

3DTY is part of the Renewing and competent Finland 2021–2027 EU regional and structural policy program. The support of the European Regional Development Fund (ERDF) has been granted by the South Savo Business, Transport and Environment Center (ELY).



**Euroopan unionin
osarahoittama**

PoDoCo – Post Docs in Companies



Post Docs in Companies, PoDoCo™ program, is a joint initiative of industry and foundations.

The aim of the PoDoCo program is to promote academic research supporting long term competitiveness and strategic renewal of Finnish companies, and the employment of young doctors in industry.

Collaboration is based on PoDoCo project that consists of two phases: research period and targeted research period (6-12 months each).

Research period is funded by a foundation and targeted research period by the company.

There are two application rounds each year: Spring (March 1st – April 15th) and Autumn (September 15th – October 31st)

www.podoco.fi/



PoDoCo highlights 2023

246 collaborative projects between companies and Postdocs in 7 years since 2015.

In 2023, 22 new PoDoCo projects were funded. PoDoCo plays a significant role in the employment of foreigners with doctoral degrees in Finland in Finnish companies, and in 2023 three out of four applicants had foreign background.



In DIMECC's 15th Anniversary Seminar, Professor Yrjö Neuvo (on the right) was in the audience listening to Dr. Toni Luomaranta, Lead Sustainability Activist at Origin by Ocean, who works on detoxifying the chemical industry by offering sustainable, algae-based alternatives. Luomaranta received the PoDoCo grant in 2022.



Academies



Business Model Academy (BMA) is a tailored competence development and upskilling training program for the Finnish industrial companies to build knowledge and skills on how to utilise new data-based business models.

During 2023 there was one execution of the BMA with five companies participating.



Machine Learning Academy (MLA) is a tailored competence development and upskilling training program for the Finnish industrial companies to build knowledge and skills on how to utilize Machine Learning and Artificial Intelligence in your company's operations.

During 2023 there was one execution of Machine Learning Academy (MLA).

Five manufacturing companies sent several people per company to participate in this MLA academy training.

Data & AI Accelerator

Designed for both more or less advanced companies, the **Data & AI Accelerator Program** makes the world of Data and AI easy to understand. It turns possible problems into real business chances through fun, interactive, expert-led sessions. It offers a structured, yet customizable approach to pinpoint key business opportunities, identify high-impact use cases, and steer clear of low-value or overly risky ventures.

In a span of 1-2 months participants take part in five hands-on workshops. Our seasoned consultants illustrate the ways in which Data and AI can enhance a business's value. Collectively, participants pinpoint the most promising opportunities, prioritize them, and ensure they align with a company's objectives. The Accelerator offers clarity, guiding participants on how to capitalize on beneficial opportunities while avoiding pitfalls.

In 2023, DIMECC organized two editions of the Program (Summer and Winter edition) to which participated successfully 8 companies.

MPD

mpdays.com



MPD is an international top level B2B summit, organized biannually in Tampere, Finland. MPD is an executive and visionary event for digital and manufacturing industries, researchers, and technology & service providers worldwide. The event brings together top management of manufacturing and digital business companies, internationally recognised experts in the field of digitalisation, and academia to discuss and represent best industrial practices and operational excellence, novel business concepts, as well as scientific and technological breakthroughs in the field. Company visits, side-events, meetings, and networking nourish potential for R&D&I collaboration over the borders and grow opportunities for new business contacts. MPD is a registered trademark of DIMECC. The MPD 2023 attracted 600 participants. The strategic partners of MPD 2023 were Beckhoff, Business Finland, Delfoi, DIMECC, FAME Ecosystem, Fastems, Siemens, Technology Industries Finland, Tampere University, and VTT. Each session and the whole seminar programme had a story line built on the overall theme of 'Sustainable and Resilient Growth'. Altogether 65 MPD partners were presenting and demonstrating their products and services at their stands.

Next MPD will be organized in June 4-5, 2025.

Demola



Demola is partly owned by DIMECC Ltd.

Demola Global helps businesses and organisations to explore future impacts and driving forces to build future-proof strategies. Since 2011, Demola has worked with more than 1,500 corporations, growth companies and public organisations.

The most significant business of Demola in 2023 took place in Japan, UK and Finland.

In 2023 Demola shifted the focus back to the homebase, building and supporting the Finnish innovation ecosystem. New Demola hubs were opened in Vaasa, Mikkeli and Turku. Together with companies, cities and governmental stakeholders Demola aims at running 1000 innovation teams yearly on the platform in Finland by 2026.

By building a bridge between the decision-makers of today and tomorrow, Demola aims for improved and more democratized ability to react to changes as a society.

www.demola.net

Finnish Industrial Internet Forum – FIIF

www.fiif.fi



FIIF is a company-driven match-making forum that boosts sustainable digitalization of companies and their businesses.

The main target of the FIIF is to showcase concrete initiatives and practical actions that turn digitalization visions into business, as well as ensure and enhance the competitive edge of companies.

During 2023, FIIF organized eight events covering the following topics: “AI Ambassador project”, “Machine Vision”, “XR in Industry”, “Industry 5.0”, “Autonomous Mobility in Smart Places”, “AI and the Power of Simulation”, “Leveraging ChatGPT and LLMs in Industry”, and “Private 5G and Edge”. There were in total 586 registered participants in these events. There were 367 different names in the registration lists coming from 163 organizations.

Seven issues of FIIF Newsletter and two FIIF Alerts were published. On December 31, 2023 FIIF had 140 partner organizations and 481 names on its mailing list.

Networks

High Level Forum



GIANT | HIGH LEVEL FORUM
Leading Innovation Ecosystems

High Level Forum is an international forum devoted to co-learning between the leading innovation ecosystems. It is managed by the Grenoble Innovation Campus GIANT (Grenoble Innovation for Advanced New Technologies).

The High Level Forum was initiated in 2012. In the Forum, high-performance city-based innovation ecosystems are present. Tampere is the Finnish city invited to attend the HLF among more than 30 internationally recognized cities in innovation. Harri Kulmala and Clémentine Arpiainen from DIMECC work at the HLF Steering Committee. DIMECC has in ten years brought Finns the opportunity to learn from the best by active participation in the Forum.

The goal of the High Level Forum is to share policies, strategies and experiences about innovation management and promotion between leading campuses, to encourage and strengthen collaboration between the world's most powerful innovation ecosystems, and to develop common initiatives for maximizing the social and economic benefits of innovation programs from the participating campuses.

DIMECC is active in international networks



Shareholders 2023

SHAREHOLDER	N. OF SHARES		N. OF SHARES		N. OF SHARES
Aalto-korkeakoulusäätiö	150	Kaakkois-Suomen ammattikorkeakoulu	12	Reaktor Innovations Oy	12
ABB Oy	120	Knowit Cloud Partnerships Oy	12	Sanoma Oyj	120
Andritz Oy	50	KONE Oyj	120	SSH Communications Security Oyj	12
Bittium Technologies Oy	120	Konecranes Oyj	120	Stiftelsen Arcada	9
Boliden Kokkola Oy	50	Kongsberg Maritime	50	Stiftelsen Svenska Handelshögskolan	40
Cargotec Oyj	120	Kumera Oy	50	Suunto Oy	12
Centria Ammattikorkeakoulu Oy	12	Lapin Ammattikorkeakoulu Oy	40	Tampereen Ammattikorkeakoulu Oy	40
CSC-Tieteen tietotekniikan keskus Oy	12	Lapin Yliopisto	24	Tampereen korkeakoulusäätiö	76
Digita Oy	52	Lappeenrannan teknillinen yliopisto	64	Technopolis Oyj	60
Elisa Oyj	120	Laurea Ammattikorkeakoulu Oy	52	Teknologian tutkimuskeskus VTT Oy	210
Oy L M Ericsson Ab	120	Medialiitto	12	Teleste Oyj	12
EXFO Oy	12	Metropolia Ammattikorkeakoulu Oy	52	Telia Finland Oyj	120
Fastems Oy Ab	50	Metso Oyj	120	Tieto Finland Oy	120
FIMA Forum for Intelligent Machines ry	50	Meyer Turku Oy	120	Tuotekehitys Oy Tamlink	64
Finn-Power Oy	50	Murata Electronics Oy	24	Turun Ammattikorkeakoulu	52
F-Secure Oyj	12	Nokia Oyj	120	Turun yliopisto	64
Haaga-Helia Oy Ab	12	Nokia Solutions and Networks Oy	84	Vaasan yliopisto	40
Helsingin yliopiston rahastot	24	Oulun yliopisto	64	Wapice Oy	50
Inno-W Oy	12	Outokumpu Oyj	120	Wärtsilä Finland Oy	120
Itä-Suomen Yliopisto	12	Outotec Oyj	50	Åbo Akademi	24
Juridiska Personen Åbo Akademi	40	Prizztech Oy	12	Älykkään liikenteen verkosto - ITS Finland ry	12
Jyväskylän ammattikorkeakoulu	12	Rautaruukki Oyj	120		
Jyväskylän yliopisto	52	Raute Oyj	50		

66 shareholders:



Board of Directors



**Karno
Tenovuo**
Chairman of the
Board
CEO, **Awake.ai**



**Jari
Still**
Founder
Still Ventures



**Tapani
Tilus**
CDO,
Raute Oyj



**Markku
Haakana**
Country Finance
Manager,
ABB



**Laura
Juvonen**
Senior Vice
President Strategy,
VTT



**Tero
Hottinen**
Head of Strategic
Technology
Partnerships
KONE

Deputies Jari Hämäläinen & Kalle Härkki

Board of directors was elected in the annual general meeting in April 26, 2023. The board had 8 meetings in 2023. In 2023, the remuneration paid to board members was 150€/meeting (200€ for the chair).

PricewaterhouseCoopers Oy, and Mr. Tomi Moisio as the auditor in charge, continued as the auditor of the company.

Management



Dr. Harri Kulmala
Chief Executive Officer

External positions in 2023:

- Member of The Royal Society of Arts, Manufacturing & Commerce
- Member of high-level group, EU ManuFuture technology platform
- Associate professor (docent), LUT
- Member of innovation and competitiveness council, Finnish Technology Industries
- Demola Global Ltd. member of the board
- Scouter Mobility Ltd. member of the board
- Linz Center of Mechatronics, member of strategic advisory board
- GIANT High Level Forum, member of steering committee



Risto Lehtinen
(M.Sc. Eng.)
Head of
PMO

External positions in 2023:

- Auditor for KOTEL r.y.



Tomi Kankainen
(M.Sc., M.A.)
Chief Business
Development
Officer

External positions in 2023:

- Demola Global Ltd. member of the board



Rauno Hatakka
(B.Sc. Eng)
Head of
Ecosystems

External positions in 2023:

- Artificial Intelligence 4.0 programme, Thematical Working Group Expert



Kari Muranen
(B.Sc. Eng)
Head of Sales

Personnel (Dec 31st 2023)



Clémentine Arpiainen
(M.Sc. (Pol. Sc.), M.Sc. (Int. Rel.), M.Sc. (Dev. Studies))
Disruptive Renewal Scout



Mrehan Elshehawy
(B.Sc. (Eng.), PMP®)
Project Manager,
Ecosystems



Medha Gupta
Scale-up Manager



Lisbet Frey
Project
Manager



Emilie Hachem
(B. Eng.)
Ecosystem Facilitator



Eetu Holstein
(M.Sc. Eng)
Ecosystem Lead



Heli Jauhiainen
(M.Sc.)
Executive Assistant



Antti Karjaluoto
(M.Sc. Econ.,
M.Sc. Admin.)
Disruptive Renewal
Officer



Kaisa Kaukovirta
(M.A., BBA)
Communications &
Marketing Manager



Ville Lämsä
(M.Sc.)
Manager, Project
Planning and
Preparations

Personnel (Dec 31st 2023)



Dr. Sini Metsä-Kortelainen
Senior Ecosystem Lead



Marika Moilanen
(BBA)
Manager, Finance



Dr. Arto Peltomaa
Program Manager



Doris Pryjma
(M.Sc. Eng)
Manager, EU Relations
& Collaboration



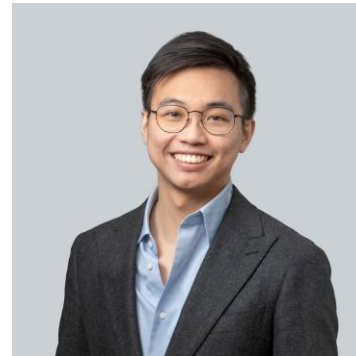
Dr. Sanni Siltanen
Senior Ecosystem Lead



Eija Syrjämäki
(B.Eng., M.Soc.Sc.)
Ecosystem Facilitator,
Project Manager



Dr. Seppo Tikkanen
Senior Ecosystem Lead



Phong Truong
(M.Sc. (Tech))
Ecosystem Facilitator



Verner Åberg
Senior Ecosystem Lead

12th DIMECC Fellow nominated

DIMECC Fellow is a public recognition to a person, who represents the official set of DIMECC values in force at the time of nomination and forwards these with his/her behaviour. DIMECC values consist of **openness & transparency**, **efficiency & effectiveness** in all activities, and expressed cooperation and **respect and recognition** of competence and expertise.

The person to be nominated as “DIMECC Fellow” must fulfil the following criteria:

- Many years of work for and publicly shown support to DIMECC Ltd. (no need to be formally DIMECC employee).
- Experienced by colleagues and others as a strong supporter for openness, transparency, and renewal.
- Effective and efficient work for the generic and overall success of ICT, manufacturing & engineering industries.
- Willingness and capability to combine scientific and practical interests.
- Positive and open mind towards new, radical, and non-traditional ways to organize R&D&I and management of these.



Business Executive Tapani Kiiski was nominated 12th DIMECC Fellow for his devotion to the company's principles and activities for 15 years.

DIMECC FELLOWS

		Nomination year
#1	Pentti Karjalainen, Professor, University of Oulu	2013
#2	Ilkka Niemelä, Director, The Federation of Finnish Technology Industries	2013
#3	Matti Sommarberg, CTO, Cargotec Oyj	2013
#4	Arto Ranta-Eskola, R&D director, SSAB	2015
#5	Ismo Vessonen, Senior Research Scientist, VTT	2015
#6	Janne Järvinen, R&D director, F-Secure	2017
#7	Markku Korkiakoski, Director, Sales and Business Development, Bittium	2017
#8	Sauli Eloranta, EVP, Rolls-Royce	2017
#9	Miia Martinsuo, Professor, Tampere University of Technology	2018
#10	Tomas Hedenborg, President & CEO, Fastems	2018
#11	Yrjö Neuvo, Professor, Aalto University	2018
#12	Tapani Kiiski, Business Executive	2023

DIMECC Highlights 2023

Seppo Tikkanen



Shaping the Future through Co-Creation – DIMECC's 15th Anniversary Seminar celebrated 15 years at the forefront of innovation, pushing the boundaries of collaboration and technology. Highlights included a panel discussion on the evolution of collaborative innovation and experts sharing the secrets behind breakthrough innovations.

Kari Muranen



The DIMECC Prize 2023 was bestowed upon Prima Power for its enduring collaboration in DIMECC's programs and ecosystems. "DIMECC cooperation and projects have had a significant impact on Prima Power's innovative product development and competitiveness," said Prima Power's Design Manager Esko Petäjä, who received the award from DIMECC's Program Manager, Seppo Tikkanen, and CEO Harri Kulmala.

Teemu Leinonen/LUT



The pressure vessel realized in cooperation between ANDRITZ Savonlinna Works Oy and the FAME Ecosystem was tested according to the pressure vessel standard EN 13445-3. It withstood the non-destructive and destructive tests carried out by LUT University better than expected. In the tests, the pressure was increased until the piece started to break. This happened at a pressure of 111 bar.

Key financial information

The financial year 2023 of DIMECC ended December 31st. Due to DIMECC's role as a non dividend sharing company, the key financial information is presented in short form and without traditional business performance measures.

Profit and Loss Statement	
Income	
Net sales	1 773 677,32
DIMECC Program management fees	366 000,00
Other income	1 285 361,07
Total Income	3 425 038,39
Expenses	
Materials & services	-333 596,18
Personnel costs	-2 166 259,46
Other expenses of operations	-904 115,32
Total expenses	3 403 970,96
Operating profit	21 067,43
Financial income	35 223,44
Profit of the year	56 290,87

Balance Sheet	
Assets	
Stocks, shares, and fixed assets	517 980,37
Long-term investments	3 002,65
Short-term receivables	1 963 214,23
Cash and bank balances	1 294 256,77
Total assets	3 775 451,37
Liabilities and shareholders' equity	
Restricted equity	1 146 500,00
Non-restricted equity	2 302 113,91
Net losses from previous years	-237 861,54
Net profit of the year	56 290,87
Liabilities	511 410,78
Total liabilities and shareholders' equity	3 775 451,37

Annual Report 2023

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2179030-4