



DIMECC

THE MOST EFFECTIVE
INNOVATION IN EUROPE

The most effective and efficient innovation in Europe.

DIMECC is the Finnish industry's answer and response to the digital revolution.

DIMECC produces innovations to boost Finnish economy and wellbeing.

DIMECC is an innovation ecosystem combining the industry's relevance and needs to research competence.

It is a limited company, and the most effective and efficient of its kind in Europe.

Effectiveness and efficiency have their origins.

DIMECC was built by combining two of the most efficient innovation platforms in Europe. These are manufacturing industry's FIMECC Ltd. and digital industry's DIGILE Ltd.

Their administrative costs have been only 3.5 percent. This is a European record.

Productivity equals efficiency.

Companies' productivity can be seen through the ROI multiplier. ROI, Return On Investment, means profit gained on capital invested.

The results calculated by the industrial companies themselves show that a euro invested in FIMECC Ltd. innovation programs has returned an average of 20 times. This is a uniquely high number. Transcendent productivity. The basic principle of DIGILE Ltd. has been the same. Now FIMECC and DIGILE are one. They are DIMECC.

Europe's most effective and efficient innovation. For Finland's benefit.

DIMECC.

fimecc + DIGILE = DIM+CC

“Chance favours the connected mind.”

STEVEN JOHNSON

“There's a way to do it better – find it.”

THOMAS EDISON

**“Move fast and break things.
Unless you are breaking some stuff
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ALBERT EINSTEIN

DIMECC. Digital, Internet,
Materials & Engineering Co-Creation.

DIMECC unites.



The best experts in Finland.



DIMECC unites.

We unite the best competence and knowledge.
The industry and the research. The physical and the digital.

We unite FIMECC Ltd. and DIGILE Ltd.
The most effective and efficient innovation networks in Europe grow now as a single company.

DIMECC is the digital future of industrial Finland.

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DIMECC is an answer to an unstoppable revolution. Digitalisation conquers and wins. Only those who with their actions say yes to digitalisation can join the winners. The fourth industrial revolution creates a lot of destruction. With DIMECC as the answer, Finland will join the winners. Let us turn destruction into creative.

We know that innovations are born most effectively and efficiently in networks. We know that the networks need to be both extensive enough and dynamically managed. We know that the best results are achieved with companies in the helm. We know, because we produce them.

Europe knows us. DIMECC is built from networks that the EU uses as examples of PPP activities and platforms. Networks, which the rest of Europe has copied. Good! European cooperation is imperative. DIMECC acts as a gateway to that, for Finland's benefit.

The increasingly competitive world is insecure, but full of opportunities. Insecurity in the midst of opportunities is understandable, but indecision is destructive. There is no time for waiting. DIMECC offers the best platform for new opportunities.

DIMECC is a platform from which Finland can lift off.

We combine the best experts to form an innovation platform for Finland's future. We create open-minded connections. Products and services are merging more and more in the digital world. Business models are at the core of success. The digital world creates equations we cannot yet even imagine. Everything speeds up.

This is why we need to be the fastest. Our motto is Ever Faster.

We speed up the idea's journey from idea to product. We boost production and logistics for the benefit of the environment. By giant leaps. We develop revolutionary models for the unprecedented management of enormous systems. We bring consumer experience to the core of strategy. We invent breakthrough materials.

We create supreme productivity to build wellbeing for the whole of Finland.

This book is words and ideas. They are important. The most important are the words and ideas that lead to actions. Let us get to work, together. Together, as the slogan for centennial Finland urges.

Our values are cooperation, trust and a genuine, ambitious aspiration for supreme, meaningful results. For the whole of Finland.

DIMECC is ready.

Tomas Hedenborg

Fastems Ltd., Group CEO
DIMECC Ltd., Chairman of the Board
Orgalime, President

Orgalime is the European manufacturing industries' association, whose member organisations employ 11 million people directly, and 20 million indirectly.

“Internet and new technology change society and economy as did steam power and electricity in their day.

The new era of supercomputers, intelligent networks and enormous mass data has also been called the fourth industrial revolution.

Industry is the backbone of Europe: 2 million businesses operate in the manufacturing industry field in the European Union, offering 33 million jobs. In addition, industry is a significant contributor to productivity growth...

Most EU countries have understood the importance of the digitalisation of industry.

Digitalisation has been implemented in, for example, FIMECC programs in Finland, which highlight the cooperation of the public and the private sector.”*

Andrus Ansip

Vice President for the Digital Single Market in the European Commission

*Aamulehti April 17, 2016.

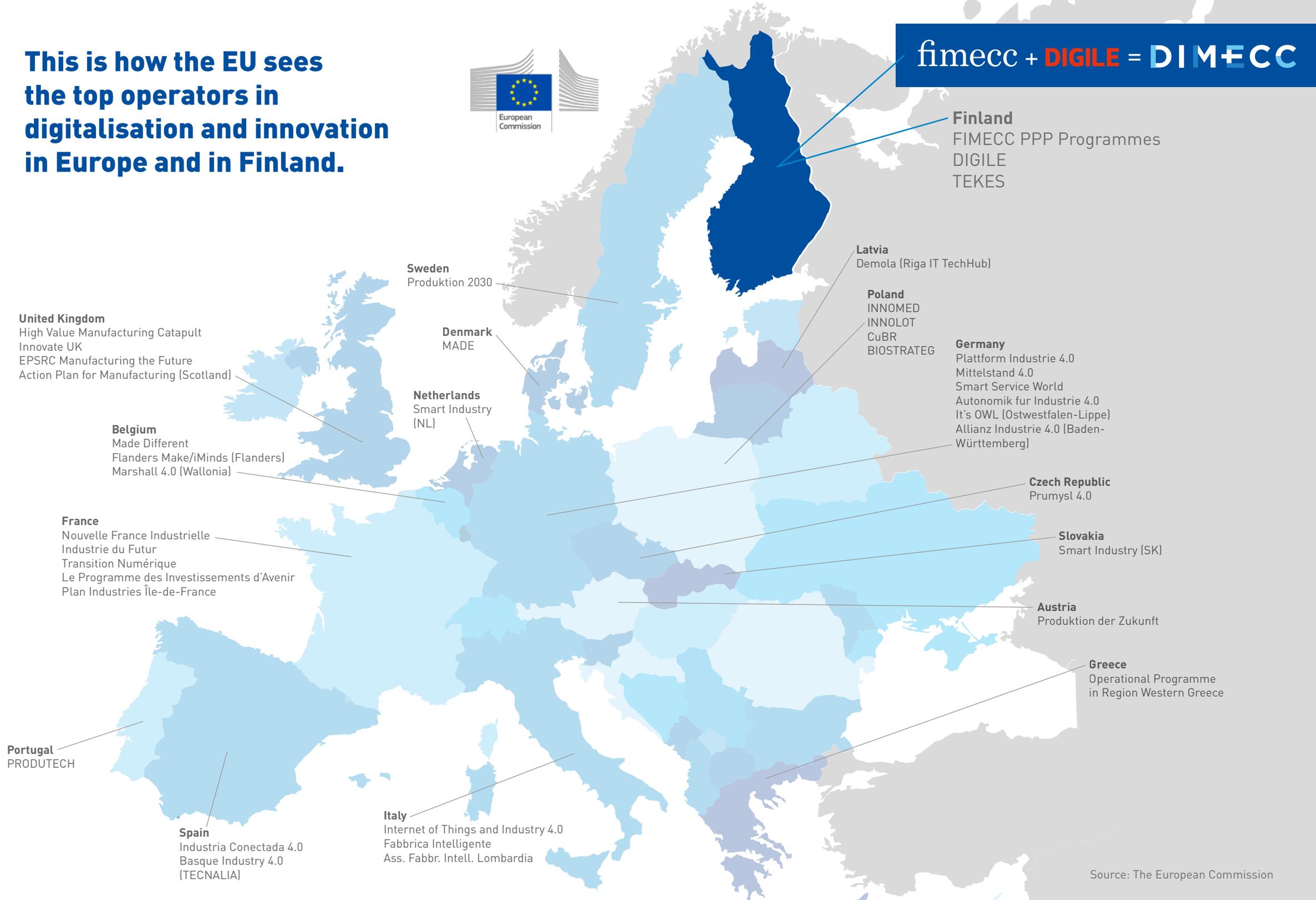
“Digitalisation has been implemented in, for example, FIMECC programs in Finland, which highlight the cooperation of the public and the private sector.”

DIMECC is known among European leaders.

This is how the EU sees the top operators in digitalisation and innovation in Europe and in Finland.



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“FIMECC was created for the needs of the manufacturing industry as an open innovation company and digital innovation platform, whose long-term strategy is to further competitiveness and fast commercialisation in the field.

The projects combine the competencies and knowledge of research institutions and private companies in a way, which cross-cuts scientific paradigms and branches of industry.

FIMECC ecosystems and activities have already created an estimated 2.4 billion euro business potential.”

Source: Ministry of Economic Affairs and Employment: Finnish Digital Ecosystems, Clusters and Initiatives.

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It is not surprising that DIMECC is known in Europe. The potential worth billions can be multiplied - everyone wants what DIMECC masters.

DIMECC is full of visions.

Visions turned into implementations and outcomes guarantee credibility.

The result has been eight years of transcendent productivity. The fruits are new visions to guide Finland's takeoff.

Ever more important, and more ambitious visions. The goals are set with high expectations.

The world record of 3D printing has been broken, broken by FIMECC.

The electricity meter was harnessed as caretaker for the elderly, with DIGILE as the facilitator.

The innovation, which removed 28 unneeded ships from the Baltic Sea and 300 trucks from Finnish roads. True? You bet. FIMECC.

Autonomous ships. Smart materials. Real-time forest resource data. Countless innovations and breakthroughs, either fully operational already, or shortly there.

Now DIMECC takes over the arena. With renewed strength, and ever more flowing vision.

Vision, which crosses borders, combines strengths, pilots the future, opens the eyes.

Vision makes things manifest. Hundreds and thousands of start-up dreams are in the womb and in the cradle.

Vision becomes reality with will and action.

DIMECC.

An opportunity the size of tens and tens and tens of billions.

An enormous amount of work – tons of jobs.

An opportunity for Finland.

An opportunity for Finns.

Our opportunity.

Revolutionary materials
via digitalised research:

**An enormous new potential
is materialising for the export industry**

Digitalised research radically speeds up the creation
of new and better materials.

With entirely new, extremely thin and hard coating,
friction can be reduced to a tiny fraction from previous.
For example, friction takes up one third of a car's
energy consumption. Thus the potential for both
the economy and the environment is enormous.

The potential created by new materials for the
Finnish export industry is estimated at a value of tens
of billions of euros. Material analysis and understanding
can, for example, halve the time it takes to get new
materials into production and to the market.
Lighter, more lasting and overall better materials
open massive opportunities for the improvement
of the competitiveness of Finnish industry.

Finnish top expertise in research and various business
sectors has already been brought together by FIMECC.

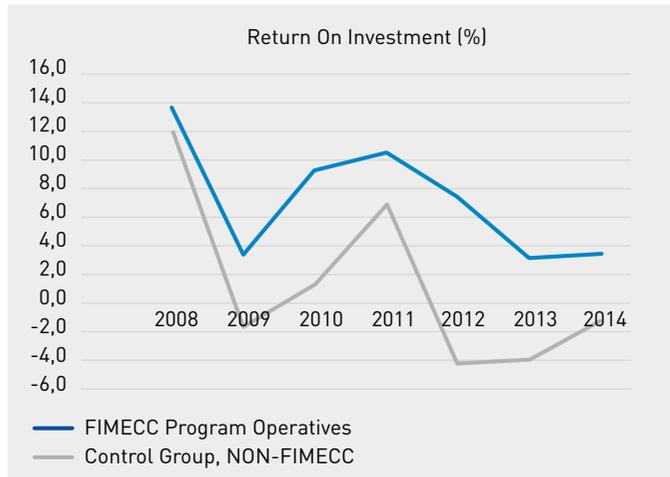
DIMECC will continue with the material research
programs, which FIMECC has successfully
implemented for several years. The top export
businesses and Finland's top researchers have
contributed to the programs.

FURTHER INFO: [DIMECC.COM](https://dimecc.com)

**A potential of tens of billions'
for the export industry – digitalised
research creates new materials
to revolutionise the competitive edge.**

FIMECC has produced decisively better profit, calculated with unbiased numbers.

Results:



Change 2009 – 2014	FIMECC Program Operatives	Control Group
Turnover	+28 %	-10 %
Turnover / Company	+16 %	-7 %
EBIT	+1823 %	negative → positive
Value Added	+14 %	-9 %
Value Added / Personnel Costs	+7 %	-2 %

Source: Statistics Finland, 2016

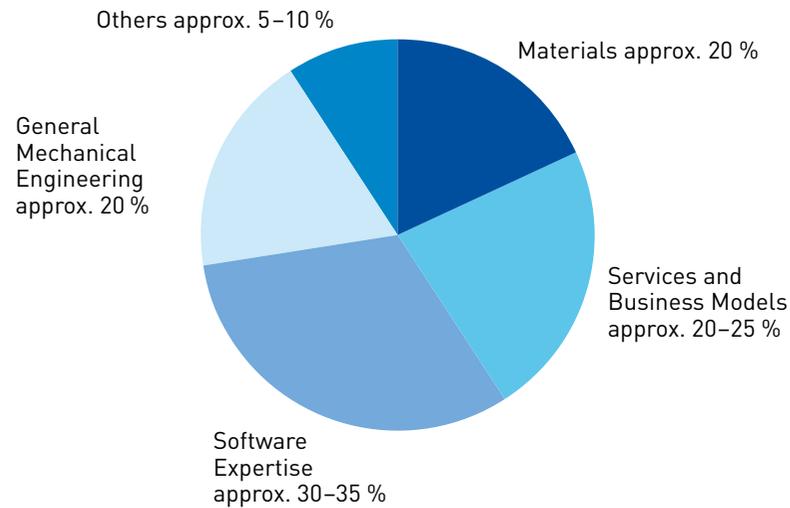
Compared Groups:

- FIMECC Program Operative Companies (approx. 200)
- FIMECC Program Participant Businesses in NACE Classification, which were NOT involved in FIMECC programs (approx. 11 000).

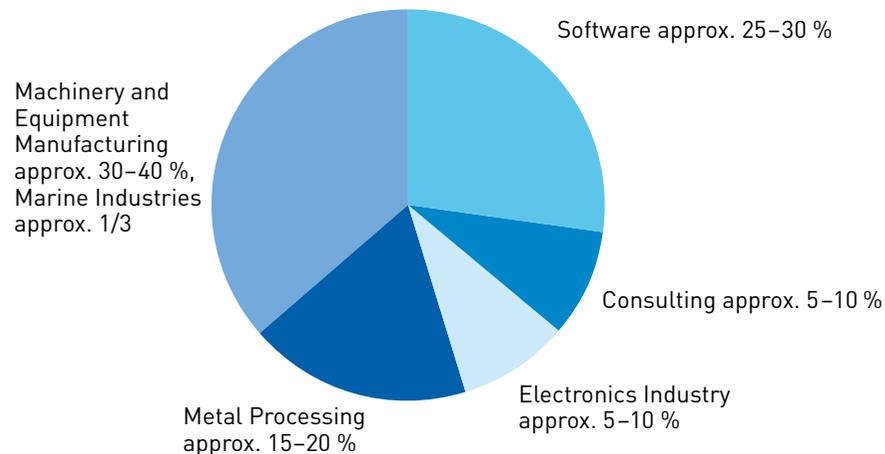
DIMECC is based on professionalism, whose higher productivity has been proven by work and results.

Research creates productivity

DIMECC Activities by Research Sectors:



DIMECC Activities by Technology Industries Sectors:



DIMECC aims at the front row in the global race for new breakthrough solutions. In the future we will operate in ways, which we cannot even imagine yet. The material and the immaterial will overlap in our digitalising world and DIMECC research programs.

HOW DOES DIMECC HELP?

The digital industry was lifted up by DIGILE, now DIMECC rises to the clouds:

Software expertise is the currency of success

DIGILE has been the Finnish digital industry's own innovation accelerator. Along with the tops of industry and cutting edge of research. Tens of companies, universities and communities.

The slowness and high cost of programming, alongside with the low quality of software, set up an important challenge that DIGILE took on. The software production was not cost-effective. There was a dire need for a productivity leap, and help came from DIGILE.

It became clear that a truly competitive software production requires working in the clouds. DIGILE created a platform for top expertise development. The cooperation network was built with the best experts in Finland both from industry and research.

The results of working in the clouds broke all records. The time needed for the development of release-ready software was cut from four months to three weeks. The speed increased 4–10 fold. The quality was greatly improved. Both the employers' and the customers' satisfaction increased. The companies grew radically faster.

The future is speed found in the clouds. DIMECC is the digital industry's thunderbolt and trendsetter par excellence.

Companies' savings added up to tens of millions of euros.

DIGILE exposed simultaneously the need for development in corporate strategy: along with software production also organisational efficiency must be maximised in the clouds.

The future work of DIMECC aims at the strategic co-creation of organisations, based on working in the clouds. Full-scale utilisation of the potential of the new technology gives industry the competitive edge needed.

FURTHER INFO: [DIMECC.COM](https://dimecc.com)

PPPP Not a Short But Growing Syllabus on Innovation Structures

DIMECC takes on a great responsibility. Two of Europe's most efficient innovation platforms have been merged into one, more integrative, more systemic platform. To lead industry into success, and Finland into a better state of wellbeing.

FIMECC and DIGILE have operated on a base known as PPP – Public Private Partnership. The leadership provided by the businesses has allocated resources with extreme effectiveness and efficiency to those exact targets that the industry needs, quality assured by top Finnish research. Financing has been provided by companies and government, in the spirit of PPP.

This model was copied from Finland to several European countries. FIMECC and DIGILE are European forerunners. They have created transcendent productivity with such low cost that most of Europe could only dream about.

DIMECC continues on from solid ground.

Ambitions are ever higher. The fourth P is emerging for centenarian Finland. People must be more widely integrated into open innovation cooperation. **People.** If the people are not worthy of taking part, who is? This is what DIMECC is working for. The work is just beginning.

Start-ups are a new leading potential. DIMECC is a huge opportunity for start-ups. Finland as such is a start-up in digitalisation. It is time for growth and decisions.

Centenarian Finland waits for, and deserves, results. Results are achieved by cooperation.

Without the government, industry lacks power.

Both the Government and Businesses Are Necessary

“As the economist Mariana Mazzucato has documented, if you look inside that iPhone, you’ll find that most of its major components (GPS, lithium-ion batteries, cellular technology, touch-screen and LCD displays, Internet connectivity) rest on research that was publicly funded or even directly carried out by government agencies.”

FOREIGN AFFAIRS

“The failure to recognise the role of the government in driving innovation may well be the greatest threat to rising prosperity.”

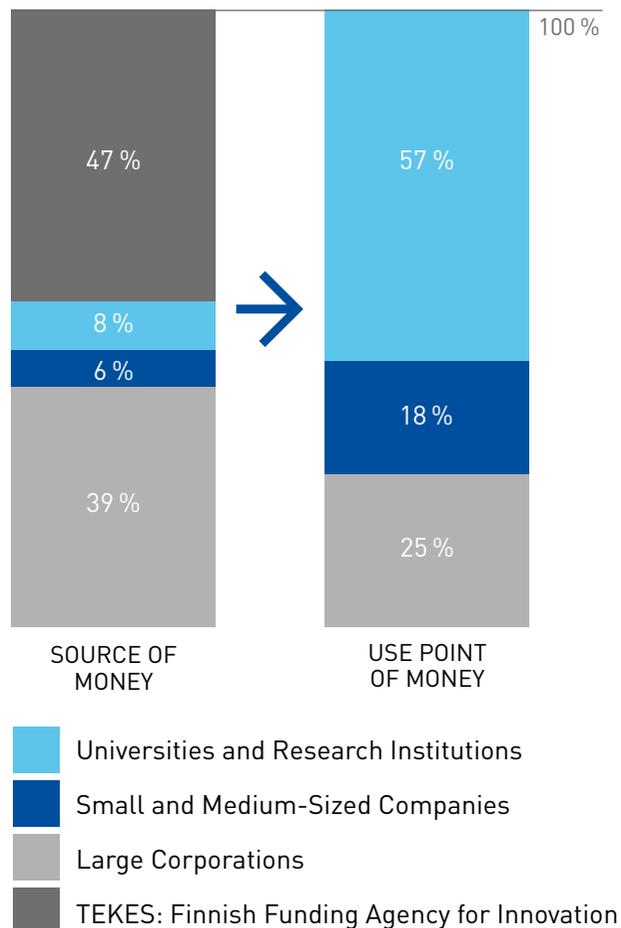
THE FINANCIAL TIMES

“Ms Mazzucato is right to argue that the state has played a role in producing game-changing breakthroughs, and that its contribution to the success of technology-based businesses should not be underestimated.”

THE ECONOMIST

marianamazzucato.com

FIMECC has provided a platform where large corporations have tripled the innovation capacity of small and medium-sized companies.



*In 2015 the SME sector used over 11 million euros of all innovation funding, 7 million of which was provided by large corporations. FIMECC funding in total was 62 MD.

DIMECC continues the work, which crucially improves the prospects of SME companies. Innovation provides a remarkable opportunity for the whole of Finland. DIMECC offers a gateway to a whole new kind of leap for Finland and for businesses of all sizes.

80 % of Finnish export travels by sea:

Über of the Seas accelerates exports into the digital age

Über of the Seas is based on the best Finnish innovation expertise. FIMECC and partners have created the basis for the most efficient and environmentally friendly maritime logistics system.

The solution is platform economy, überisation, a complete revolution in maritime logistics. Costs can be significantly cut even in short term. Logistics costs constitute 10–40 % of export industry costs and those can be cut even by 30 % with Über of the Seas. Ships spend 40 % of their time in ports loading and unloading, and travel empty 40 % of the time due to the lack of suitable cargo.

Finland has every prerequisite to become the forerunner of maritime logistics – and consequently to create radically better competitiveness for industry. 80 % of Finnish export travels by sea.

Finland is usually the ship's furthers port, with harsh, extreme weather conditions and strict emission regulations. Here lie the roots for Finnish logistics expertise.

On the FIMECC platform 10 organisations, companies and universities both from Finland and abroad, such as from the United States, have succeeded in creating the world's most efficient and environmentally friendly maritime logistics system.

DIMECC continues with the program that foresees a minimum of hundreds of millions, if not billions, cuts in costs, and significantly improves the competitiveness of Finnish export industry.

FURTHER INFO: [DIMECC.COM](https://dimecc.com)

Export-driven Finland needs a digital age tugboat also for maritime logistics.

DIMECC offers a channel for saving billions of euros in export costs.



HOW DOES DIMECC HELP?

DIMECC builds bridges for postdocs from academia to industry. PoDoCo – Post Docs in Companies – is a program in which any company and any one who has now or will soon have a doctoral degree can participate.

In Finland only one in five postdocs goes to work in the private sector. PoDoCo strives to increase this percentage, which in many competitor countries is double.

PoDoCo consolidates the long-term strategic goals of high-tech companies and the abilities of young postdocs.

PoDoCo program links together young postdocs and business with a two-phase program: first the young postdoc dives deep into a given problem with foundation funding, and continues further study of the subject guided by the company's needs and funded by the company.

PoDoCo is a DIMECC registered trademark.

FURTHER INFO: PODOCO.FI

DIMECC does work that benefits all. The industry needs postdocs and the postdocs need industry – this is proved by hundreds of PoDoCo applications.

IT IS

TIME

TO BEGIN.

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DIMECC Ltd. is an innovation platform for Finland’s digitalising economic life. We combine the know-how of over 400 organisations and over 2000 people. Via the international PPP platform our customers create interdisciplinary and inter-industrial innovations and create new business out of them. The efficient DIMECC co-creation methods shorten the turnaround of creating new business by combining the resources and know-how of leading companies and research institutions. Where leaders and winners meet – DIMECC.

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DIMECC.
The Most Effective Innovation In Europe.

Supremely Cost-Effective.
Transcendentally Productive.
Indispensably Visionary.