

What is the impact in R&D&I in EU?

Dr. Harri Kulmala CEO, DIMECC Ltd.

OECD, Paris, June 14th 2017



There are three generic routes* for science to make an impact in society in large:

- 1. Dissemination of research results
- 2. Cooperation and collaboration in doing things and carrying out research
- 3. Competent people move around

*International Evaluation of the State of Science and Research in Finland, 2016, Academy of Finland





DIMECC Small Advanced Economies Initiative

- Collaboration of seven advanced economies of similar scale population: Ireland, New Zealand, Finland, Israel, Denmark, Singapore, later joined by Switzerland
- Broadening the Scope of Impact: Defining, assessing and measuring impact of major public research programmes, with lessons from 6 small advanced economies" (2015)



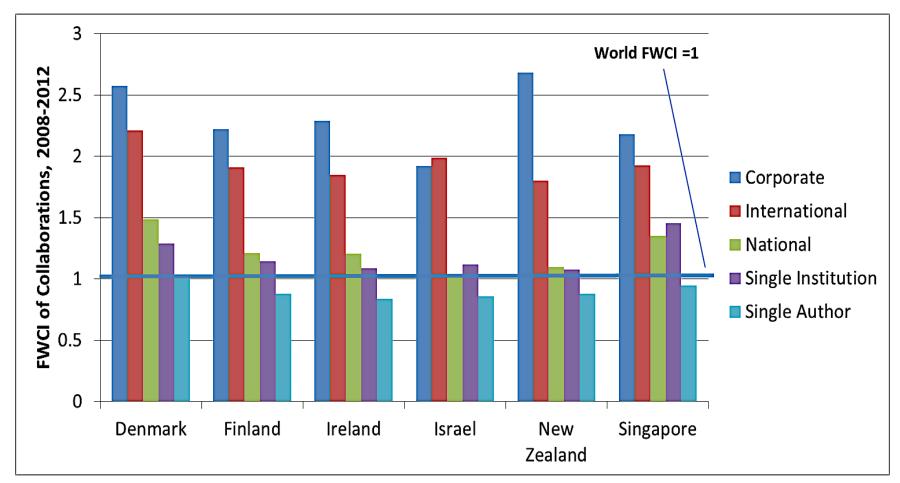
Collaboration with industry and internationally enhances the quality of published scientific research

Provocation:

Do you want to have bad quality research and non-science?

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Let's fund single beneficiaries, standalone academics, and free-thinkers with no-one pressing towards high performance.



Graph source: Prof. Mark Ferguson, President, Science Foundation Ireland: 'Small Advanced Economies Initiative' using the Elsevier SciVal Scopus database of published papers.

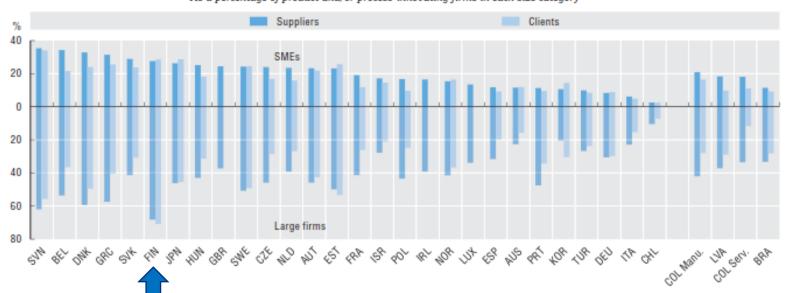
Firms collaborating on innovation with higher education or research institutions, by firm size, 2010-12

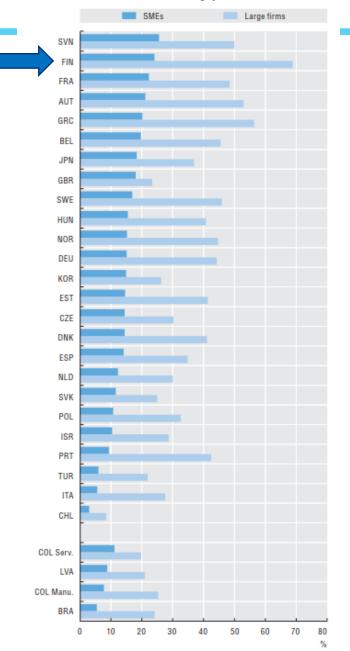
As a percentage of product and/or process-innovating firms in each size category

Heterogenouos consortia are needed to maximize the impact of the R&D investments – Finland used to be the leader in integrating large firms exactly during the years when Finland invested most in EU in collaborative industry-academia cooperation (PPP). (Source: OECD statistics)

Firms collaborating on innovation with suppliers and clients, by firm size, 2010-12

As a percentage of product and/or process-innovating firms in each size category



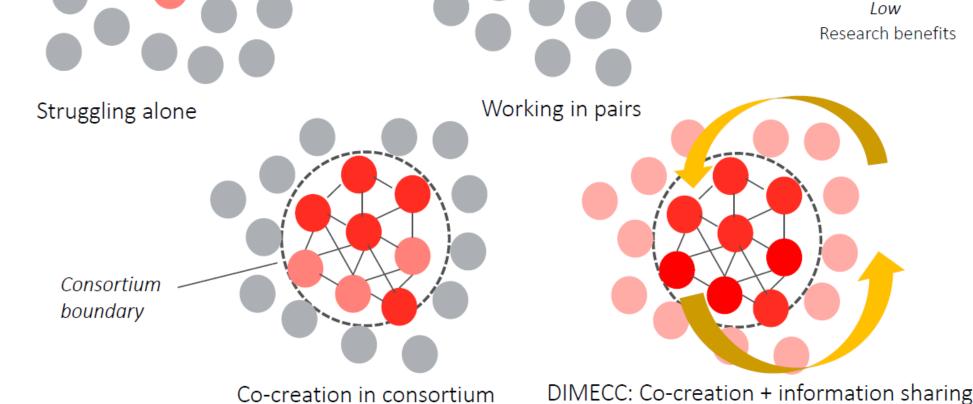


The value of DIMECC innovation platform:

- It is not connected to any specific project, time, or theme.
- It evolves according to the needs of participants and creates consortiums on a continuous basis.
- It supports

 participants
 independently from public funding decisions and policies.

Operating models in research















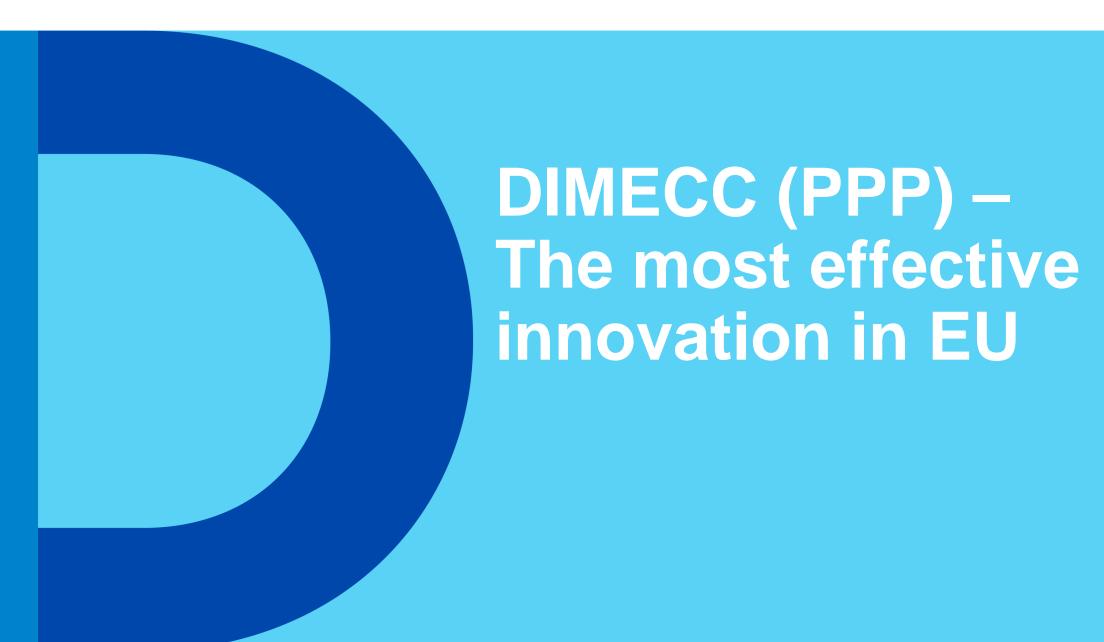












Shareholders











































































































































Vision:

DIMECC is the leading co-creation platform for digital transformations.

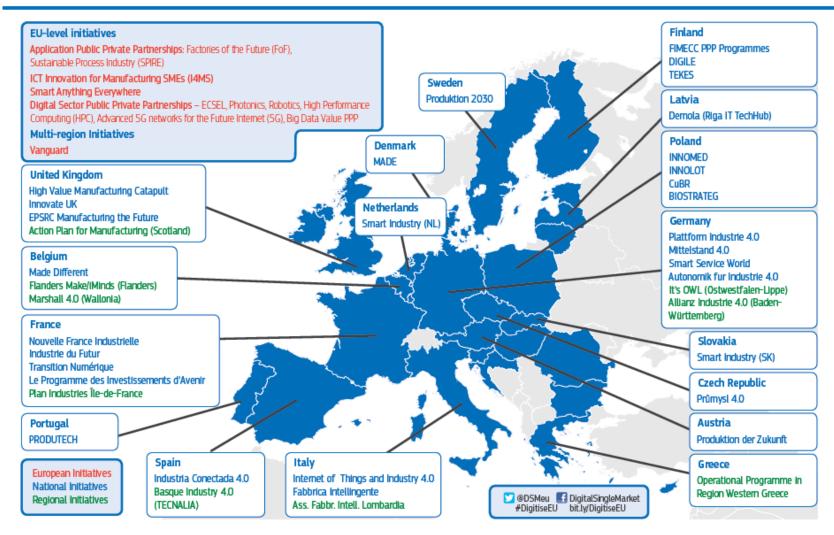
Where Leaders and Winners Meet - DIMECC

DIMECC in numbers

- Measured business potential of 5.3B€ (2017)
- 400+ customers
- 2000+ R&D&I professionals
- 3000+ publications
- 10+ co-creation facilitators
- 10+ program managers
- 69 shareholders organizations
- 200M€+ new program volume ready to be launched

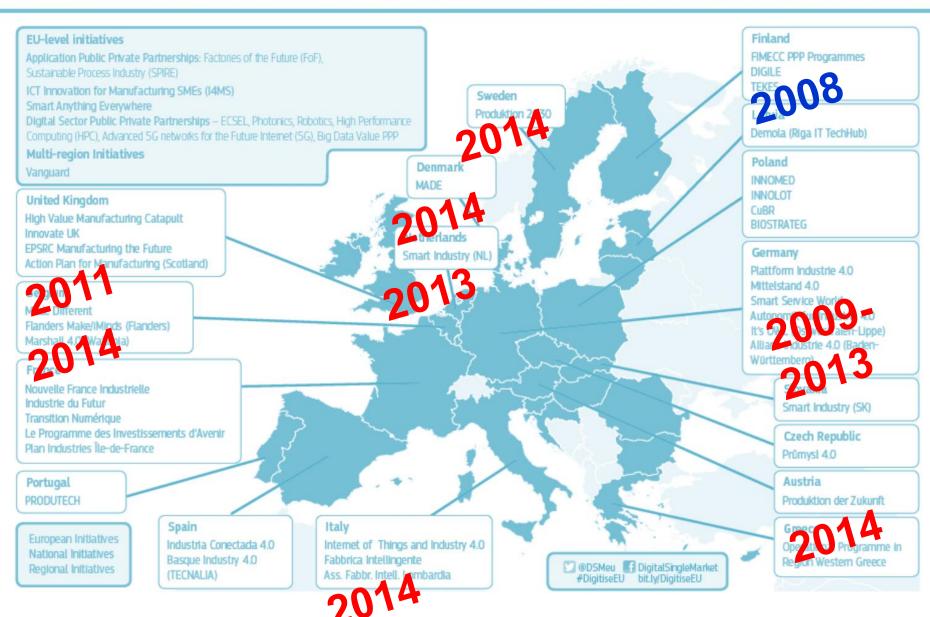
In EU, the digitalization of manufacturing industry is carried out through PPP structures and innovation ecosystems





DIMECC is the "mother" of these PPP structures!

EU has "copied"
DIMECC
operational
model to almost
all countries.



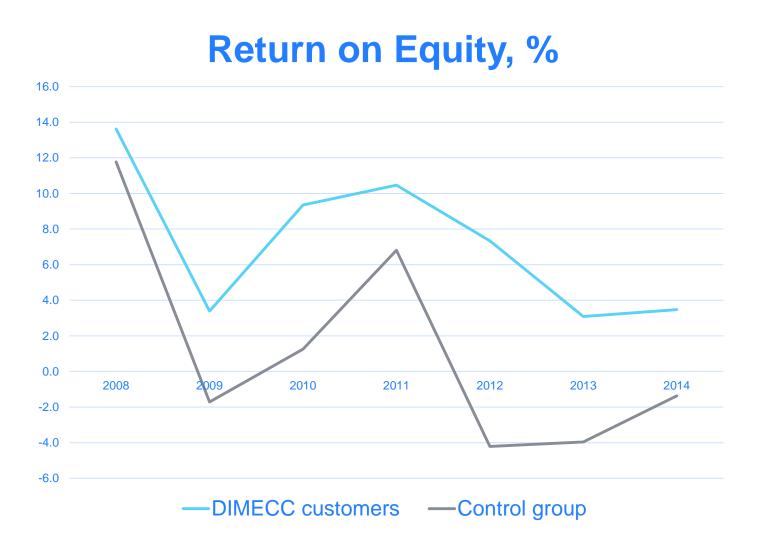
"[Numbers and figures] equal with the story according to which DIMECC has significant positive impact among it's customers and in mechanical engineering industry in large."

Dr. Petri Rouvinen, CEO, ETLA-Tieto Oy

Change from 2009 to 2014	DIMECC's customers	Comparison group (Technology industries, TOL classification)
Turnover	28 %	-10 %
Operating profit	1823 %	negative → positive
Value added	14 %	-9 %
Value added/personnel costs	7 %	-2 %
ROE-%	2 %	negative → negative
Turnover/Company	16 %	-7 %

(Source: Statistics Finland 2016)

DIMECC Impact: DIMECC customers significantly outperform the others



(Source: Statistics Finland 2016)



Co-creation includes much more than research!

Co-creation services:



Read more

- 1. MPD™
- 2. PoDoCo™
- 3. Demobooster™
- 4. NSF Centers (2)
- 5. Innovation Camp
- 6. EIT Raw Materials KIC
- 7. China-Finland ICT Alliance
- 8. Smart Tampere Industry leadership
- 9. Advanced Manufacturing in USA Growth Program



Tampere, Finland | May 29-31, 2017

Towards Outcome Economy

Manufacturing
Performance Days
2017 (MPD 2017)
is an international
top level B2B summit
which will be organized
for the sixth time on
May 29–31, 2017 in
Finland at Tampere
Hall, number one
Congress Centre
in Finland.





