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— Finnish Metals and Engineering
Competence Cluster

FIMECC Oy

Finnish Metals and Engineering Competence Cluster

Facts & figures, 6/2010

Shareholders

Institutions

- ▶ Hanken School of Economics
- ▶ Helsinki School of Economics
- ▶ Helsinki University of Technology
- ▶ Hermia Oy
- ▶ Lappeenranta University of Technology
- ▶ Laurea Univ. of Applied Sciences
- ▶ Metropolia Univ. of Applied Sciences
- ▶ Tampere University of Technology
- ▶ University of Art and Design Helsinki
- ▶ University of Jyväskylä
- ▶ University of Oulu
- ▶ University of Vaasa
- ▶ VTT Technical Research Centre of Finland
- ▶ Åbo Akademi

Industry

- ▶ ABB Oy
- ▶ Andritz Oy
- ▶ Boliden Kokkola Oy
- ▶ Cargotec Oyj
- ▶ FIMA ry
- ▶ Finn-Power Oy
- ▶ Konecranes Oyj
- ▶ KONE Oyj
- ▶ Kumera Oy
- ▶ Metso Oyj
- ▶ Outokumpu Oyj
- ▶ Outotec Oyj
- ▶ Rautaruukki Oyj
- ▶ Raute Oyj
- ▶ STX Europe Oy
- ▶ Tieto GMR Oy

Strategic research themes:

Outcomes

SB Service Business (open systems & processes)

High performance
service concepts

UE User Experience, Usability & Industrial Design

Outstanding
user experience

GN Global Networks (supply & demand chain mgmt)

Efficient and flexible
network structures

IS Intelligent Solutions (products & processes)

Leading solutions
to pioneering
customers

BM Breakthrough Materials (materials & processing)

New materials that
create new markets

Strategic research themes & program coverage:

Launched in 2009

To be launched in 2011

Program idea

SB

FutIS: Future Industrial Services
(service design & production)

UE

UXUS: User experience in complex systems

GN

I&N: Project business & decentralized innovation

GP4Variants: Series production network management

IS

EFFIMA: Energy efficiency of machines

ELEMET: Energy efficient metal processes

BAT: Future Automation Systems

FAMOUS: Future Worksites

Manufacturing technology

BM

LIGHT: Product structures and material properties

DEMAPP: Wear, corrosion, high-low temperatures, friction

ACTIFUN: New functional materials

Volume data

- ▶ Current volume of the six launched programs
 - 185 M€, ca. 1 900 person years
 - Growth: 28M€ (2009), 42M€ (2010), 54M€ (2011)
 - 85 companies (including 40 SMEs)
 - 15 universities & research institutes
- ▶ Objectives before 2012
 - 300M€ program base
 - To double the R&D intensiveness of metals and engineering sector (*until 2015*)
 - To create international innovation platform

Launched Programs

- ▶ **Innovations & Network**
 - About 47 M€, 2009 – 2013
- ▶ **EFFIMA** - Energy & life cycle cost efficient machines
 - About 41 M€, 2009-2014
- ▶ **ELEMET** – Energy & life cycle efficient metal processes
 - About 35 M€, 2009 – 2014
- ▶ **LIGHT** – Light and efficient solutions
 - About 20 M€, 2009 – 2013
- ▶ **DEMAPP** – Demanding applications
 - About 33 M€, 2009 – 2014
- ▶ **GP4Variants** - Global processes for high variety products
 - About 25 M€, 2009 – 2014

Programs to be launched 2010 →

- ▶ **UXUS** - User experience, usability & industrial design in complex systems
 - 2010 - 2014, 15 M€
- ▶ **FutIS** - Future Industrial Services
 - 2010 - 2015, 20 M€
- ▶ **ACTIFUN** - New active and functional materials
 - 2011 - 2015, 20 M€
- ▶ **BAT** - Business power from new automation technology
 - 2011 - 2015, 20 M€
- ▶ **FAMOUS** - Future autonomous machines and safe worksite
 - 2011 - 2015, 20M€
- ▶ **Manufacturing technology**
 - 2012 - 2017

Contact

▶ Office

- CEO: Harri Kulmala +358 40 840 6380
- CTO: Seppo Tikkanen +358 40 840 6427
- Exec. assistant: Marika Moilanen +358 40 840 8790

▶ Program Managers:

- Innovations & Network: Matti Nallikari, STX, +358 40 540 5214
- LIGHT: Tapani Halme LUT +358 40 486 9890
- ELEMET: Jarmo Söderman ÅA +358 40 501 7231
- EFFIMA: Ismo Vessonen VTT +358 50 355 6812
- DEMAPP: Markku Heino Spinverse +358 40 719 1221
- GP4: Katri Valkokari VTT +358 40 847 9352

▶ www.fimecc.com