

**fimecc**Finnish Metals and Engineering  
Competence Cluster

## Creating innovations and breakthroughs together

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### FIMECC Ltd.

- ▶ FIMECC Ltd. is private owned company that coordinates company driven research programs in the field of mechanical engineering and metals
- ▶ The platform that FIMECC implements is a national public-private partnership called: **Strategic Centre for Science, Technology and Innovation** - In Finland we called it **SHOK**

## Strategic Centre for Science, Technology and Innovation

- ▶ 6 Strategic centres operating in different field
  - Forest Cluster Ltd. (Wood, pulp, paper)
  - RYM Ltd. (Built Environment)
  - TiviT Ltd (Information and communication industry and services)
  - Cleen Ltd (Energy and environment)
  - SalWe Ltd (Health and Well being)
  - **Fimecc Ltd.**( Metal products and mechanical engineering)
- ▶ Each should reach 40 - 70 M€ annual research base

## Strategic Centre for Science, Technology and Innovations - SHOK

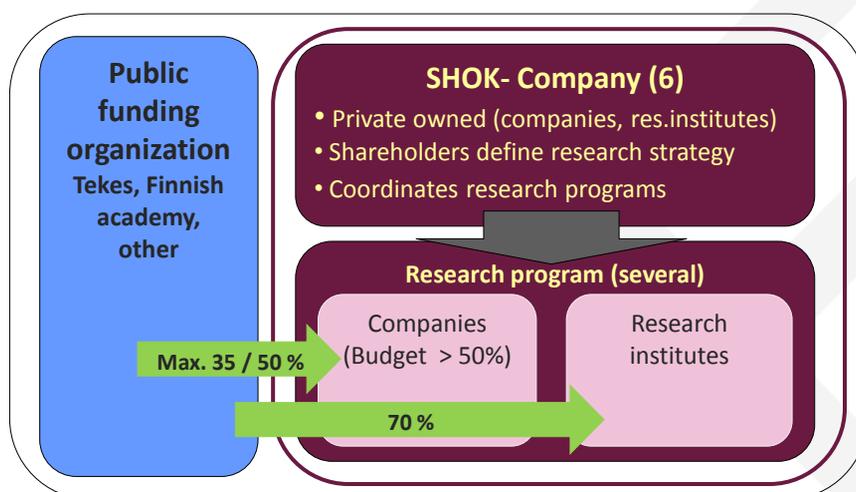
### Goals at state level

- ▶ To strength existing knowledge in already important fields
- ▶ To create new areas of expertise
- ▶ To speed up innovation activity
- ▶ To seek world-class expertise and global breakthroughs
- ▶ To make Finland an attractive partner for research development and innovation

## Strategic Centre for Science, Technology and Innovation – SHOK

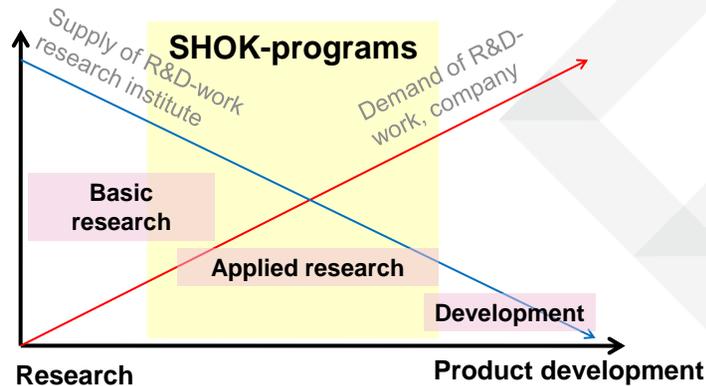
- ▶ Offer for research institutes and companies **new way to cooperate** and perform long term research
- ▶ Deep cooperation between parties is the key point
- ▶ Centre's the strategy has been written by companies and research institutes **together** and it will be implemented through research programs
- ▶ Aim is to create research results that are used in product development in companies

## Strategic Centre for Science, Technology and Innovation – SHOK



## SHOK – Programs

### Supply and demand meet in SHOK programs



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## FIMECC – Program – Facts

- ▶ Program budget: 3 – 10 M€/year and duration: 4 – 5 years
- ▶ 5 - 30 Companies, 3 – 10 Research institutes
- ▶ About 50% of program costs are created in companies
- ▶ Maximal public funding at program level 60%
- ▶ Programs are prepared and realized together
  - Companies and research institutes
  - Program participants create consortium
  - Program results **are shared free of charge among participants**

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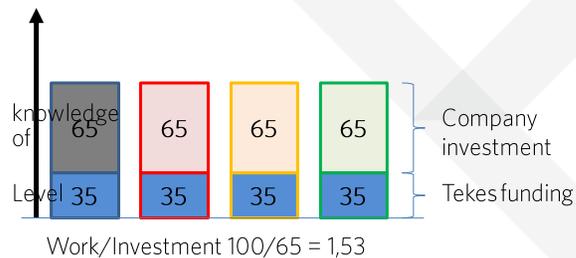
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## SHOK-Programs-Benefits

How it was before and still is in many cases

- ▶ Companies do things alone with research institutes
- ▶ Research institutes do same things for different companies

Each company does research work alone or buys it from research institute, Research institute similar work

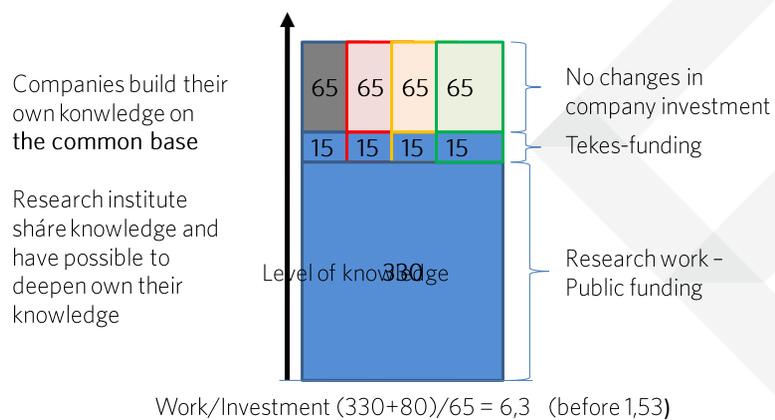


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## SHOK-Programs-Benefits

Effective research work in SHOK-programs



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## SHOK- Programs conclusion

Supply and demand meet in SHOK-Programs  
Concentration on strategic areas – base for the future innovations  
Programs are open for all  
Open innovation – Sharing of results  
In SHOK-programs ROI is higher

## FIMECC Ltd.

- ▶ FIMECC Ltd. is private owned company
- ▶ Coordinates company driven research programs in the field of mechanical engineering and metal products , **scope on strategic applied research**
- ▶ Goal is to create top research results that can be used in product development in companies and to deepen cooperation between companies and research institutes

## FIMECC – How it works ?

Shareholders of the FIMECC Ltd. define the research strategy that contains now 5 focus areas

Strategy is realized through research programs

- ▶ Research work is done in companies and in universities
- ▶ Research programs are both public and private funded
- ▶ Shared IPR - All program results are shared among participants

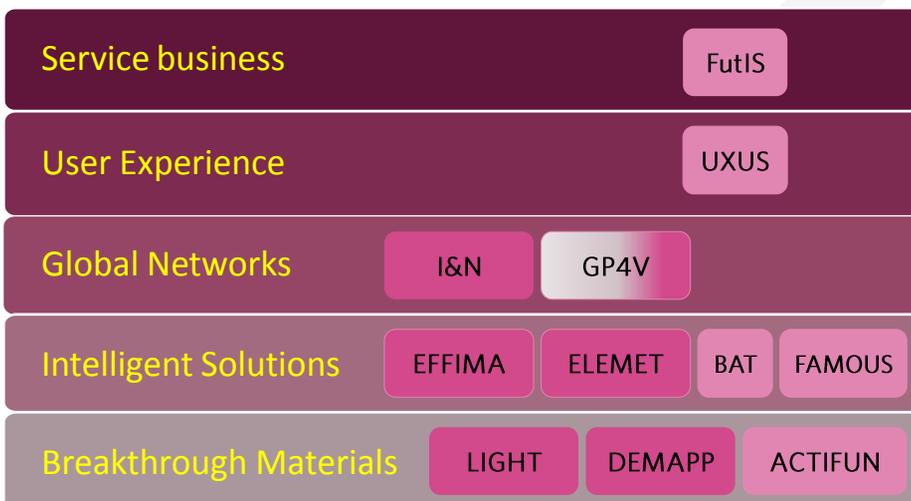
## Shareholders of FIMECC Ltd.



## FIMECC-strategic themes



## FIMECC-strategic programs



## FIMECC – Program facts

Total budget of on-going programs **185 M€**

- ▶ Companies 58%, Research institutes 42%

### **90 Companies participate**

- ▶ About 50% of them are SMEs
- ▶ 85% of them are non-Fimecc shareholders

15 Research institutes

## FIMECC – Programs after the first year

New era of research programs has begun

- ▶ Cooperation increased remarkably
  - International cooperation will be increased
- ▶ Programs grow – New companies join
- ▶ Concept has shown its strengths – New programs are planned because of industrial interest

**fimecc**

— Finnish Metals and Engineering  
Competence Cluster

**We boost strategic research - together**

[www.fimecc.com](http://www.fimecc.com)