

Tekes – as an Agent of Change in the Finnish Innovation Ecosystem

**Visita de la delegacion del Partido
EAJ-PNV**

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Tekes**

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Content

- | **Finland's Innovation Ecosystem and Tekes**
- | **Finland's competitiveness**
- | **Finland's National Innovation Strategy**
- | **Tekes strategy focus areas and implementation**
- | **Future challenges**

Tekes – in brief

- State agency under the Ministry of Employment and Economy
- key player implementing national innovation policy
- Over 0,5 BILL. EUR annually – tax payers money
- Personnel 360 - in Helsinki, abroad and regionally
- Funding R&D&I -projects
- Planning and funding Tekes' programmes
- Networking – regional - national – global
- Activating
- Open and confidential communication with companies
- Customers:
 - Companies (start ups, smes, large)
 - Universities, research institutes

Tekes strategy in a nutshell

The basis

Mission statement

Tekes boosts the development of Finnish industry and the service sector by technological means and through innovation.

This will renew the economy and increase added-value, productivity and exports, thereby creating employment and enhancing wellbeing.

Values

Tekes and its staff value and aim to promote the wellbeing, vision, trust, cooperation and development of society, customers and colleagues



Core activities

Core processes

Strategy

Foresight, evaluation and innovation research

Strategy creation and communication

Customerships

CR management and new client acquisition

Activation projects and tailored offerings

Marketing communication

Programmes

Tekes programmes

Strategic Centres for Science, Technology and Innovation

International cooperation initiatives

Funding

Special innovation funding

Funding for public research

R&D funding for companies

Resources

- | 536 + 30 million euros
- | Personnel 284 + 89
- | 6 overseas offices

The goal

Objectives

Strong knowledge base on important areas of R&D and innovation

Focus during strategy period:

- | Internationality of innovation activities
- | Strong and networked Strategic Centres

Productivity and renewal of industries

Focus during strategy period:

- | Young innovative companies
- | Growth companies

Combining economic growth with the wellbeing of people and the environment

Focus during strategy period:

- | Sustainable energy economics
- | Quality health care service system
- | Regional vitality

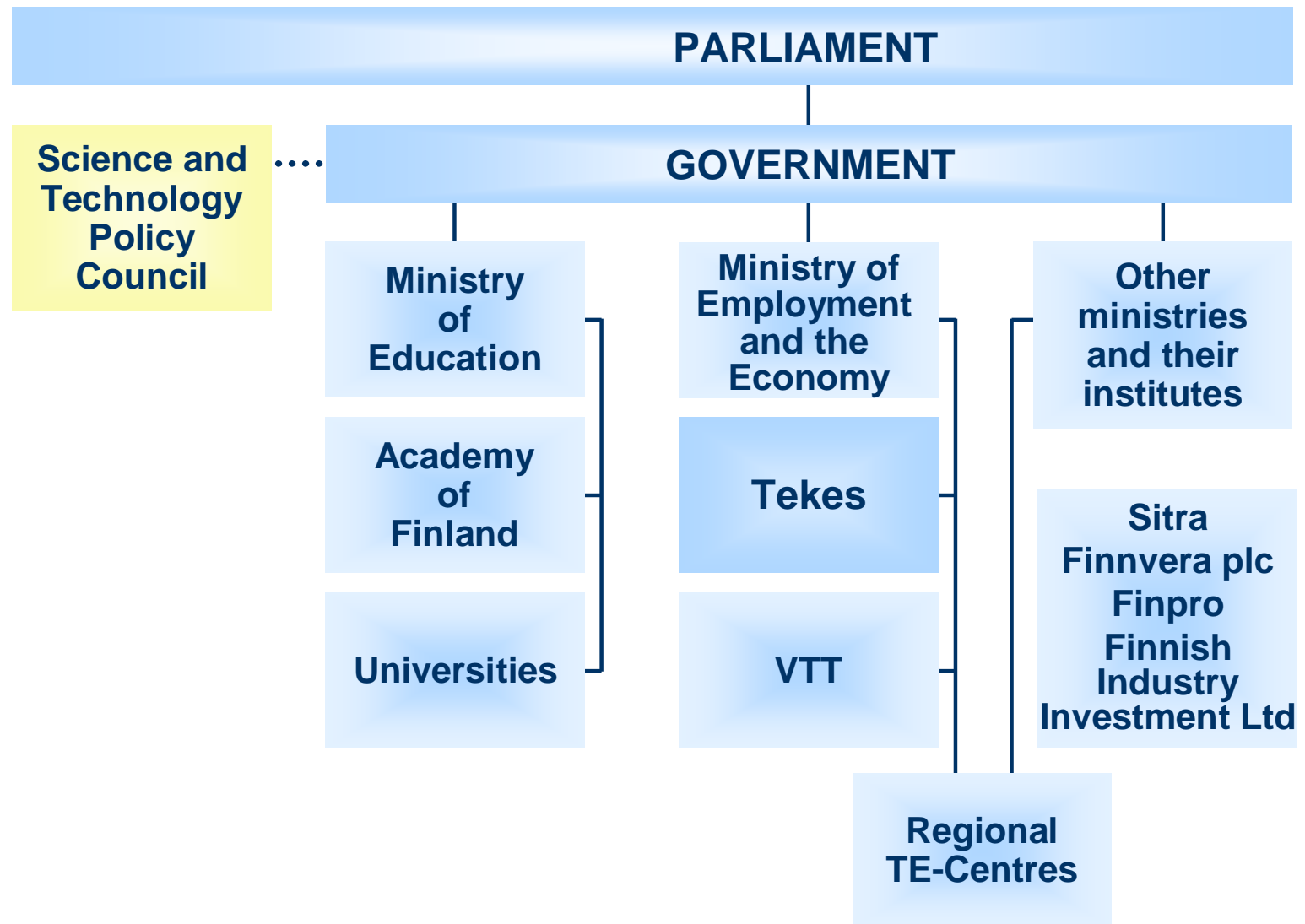
Vision

Tekes is a leader in boosting innovation.

Main messages:

- **Active period in science, technology and innovation policy in Finland since early 1980'ties**
 - **Growing investments in R&D&I – good results**
 - **Dynamic innovation ecosystem**
 - **Active private – public dialog on all levels**
- **Content of innovation is widening**
- **Global communication and cooperation – growing importance**
- **Tekes – key player in Finnish innovation ecosystem**
 - **Strategy**
 - **Funding and services**
 - **Tekes programmes**
 - **Strategic Centres for Science, Technology and Innovation**
 - **Global cooperation**

Public sector activities of R&D&I in Finland

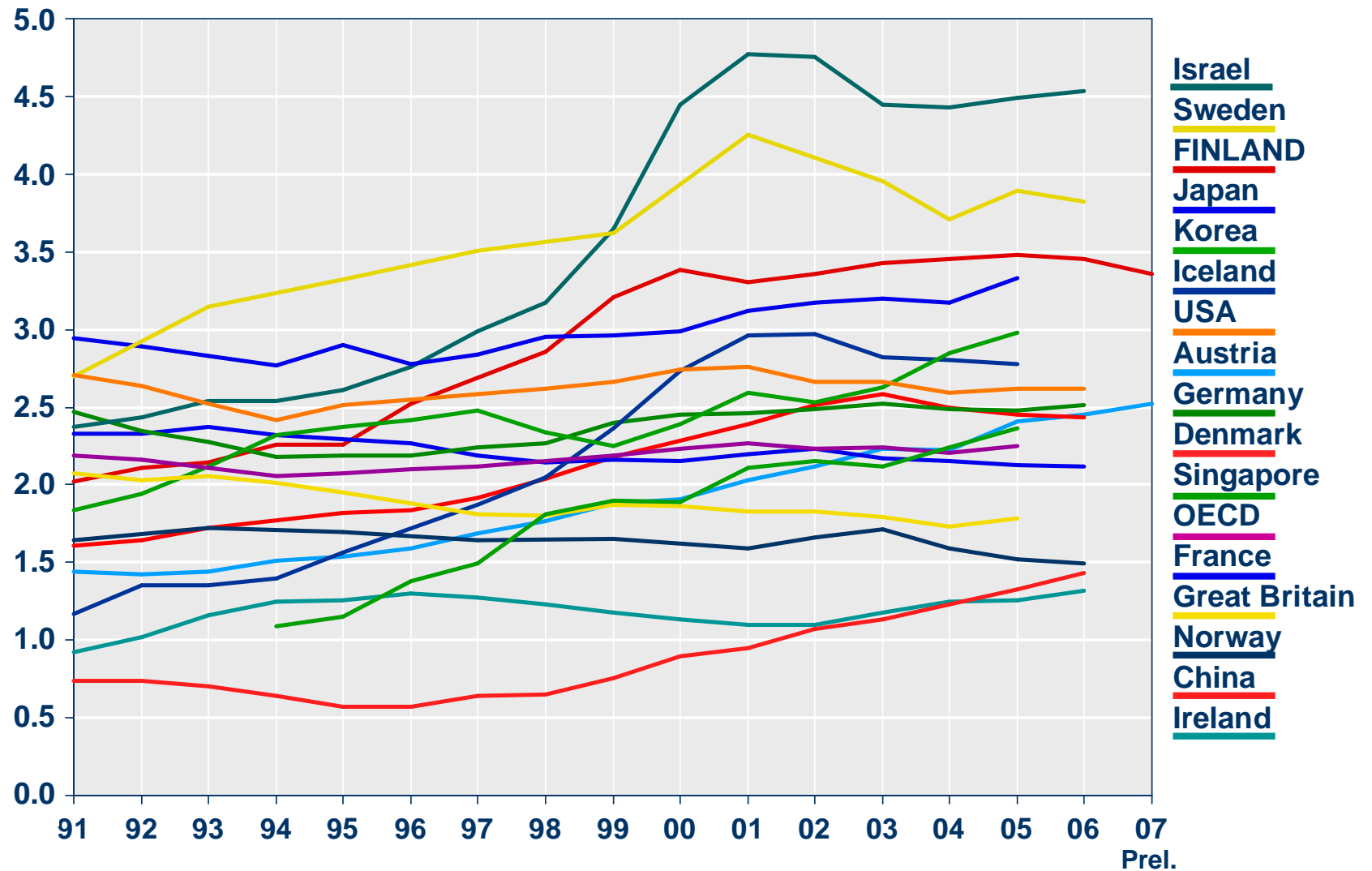


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R&D investments in some countries

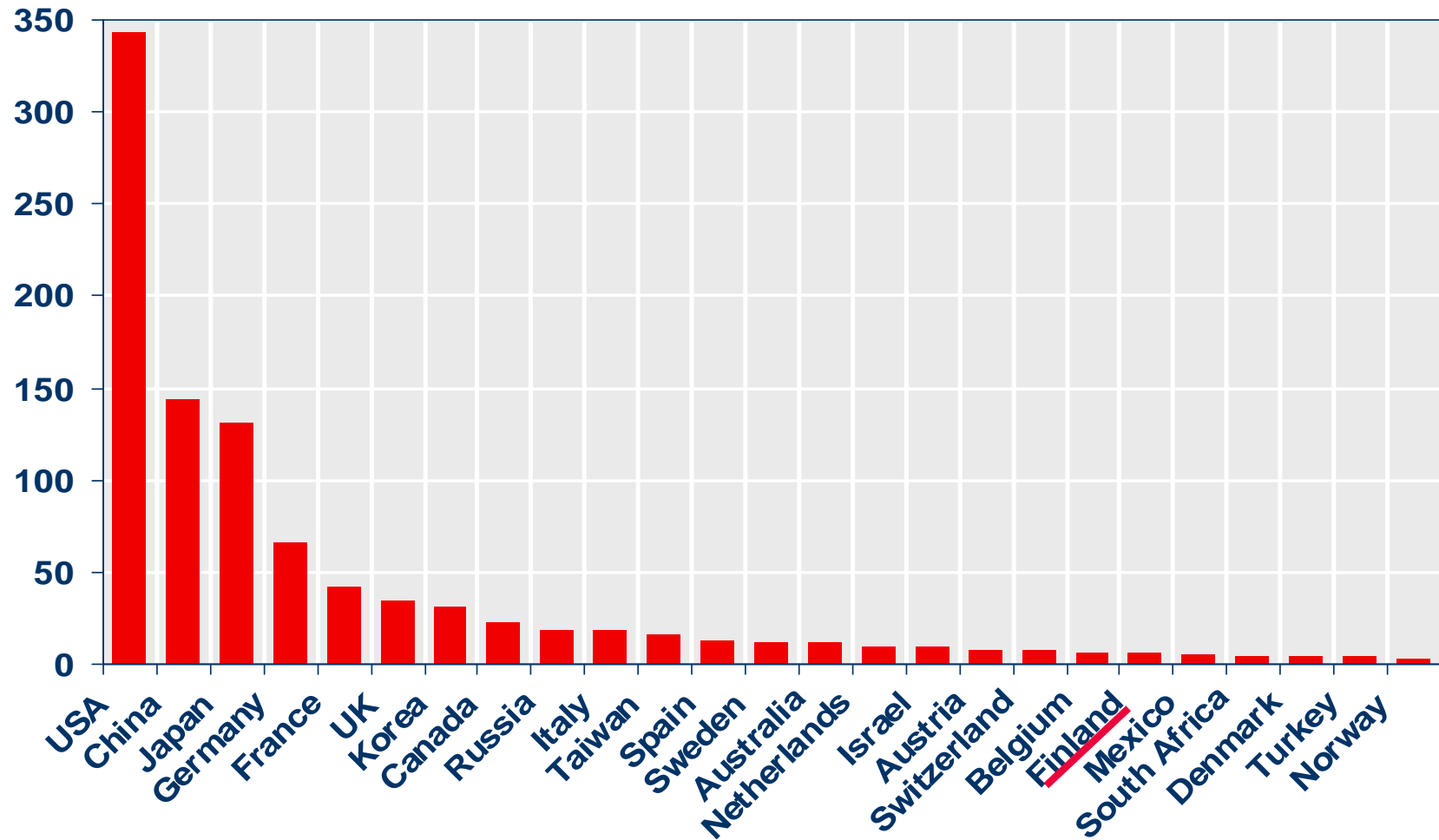
Percentage
of GDP



Sources: OECD, Main Science and Technology Indicators
and Statistics Finland

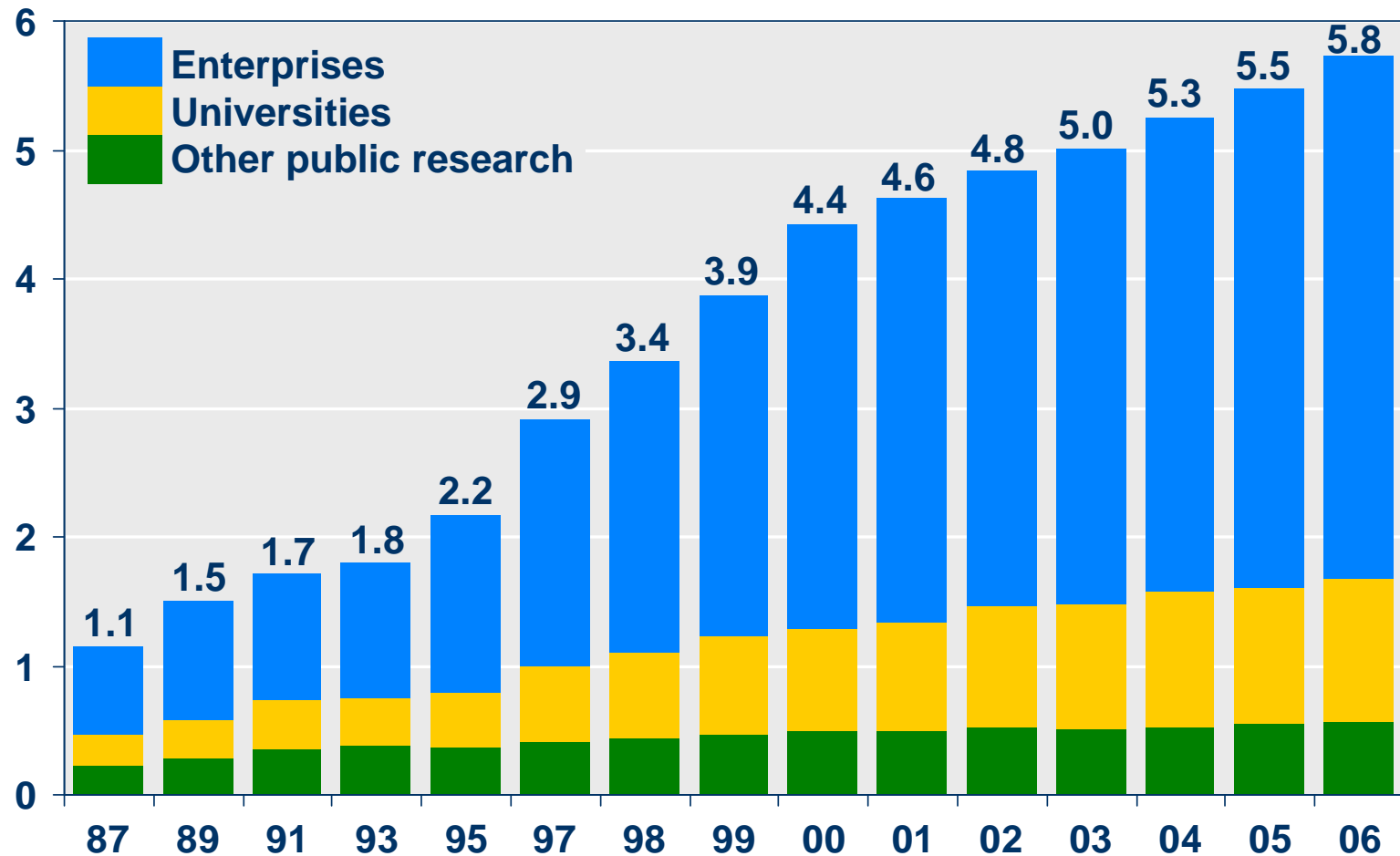
Global R&D leaders are outside Europe...

Gross domestic expenditure on R&D
Billion current USD 2006 (ppp)



R&D investments in Finland

Billion euros



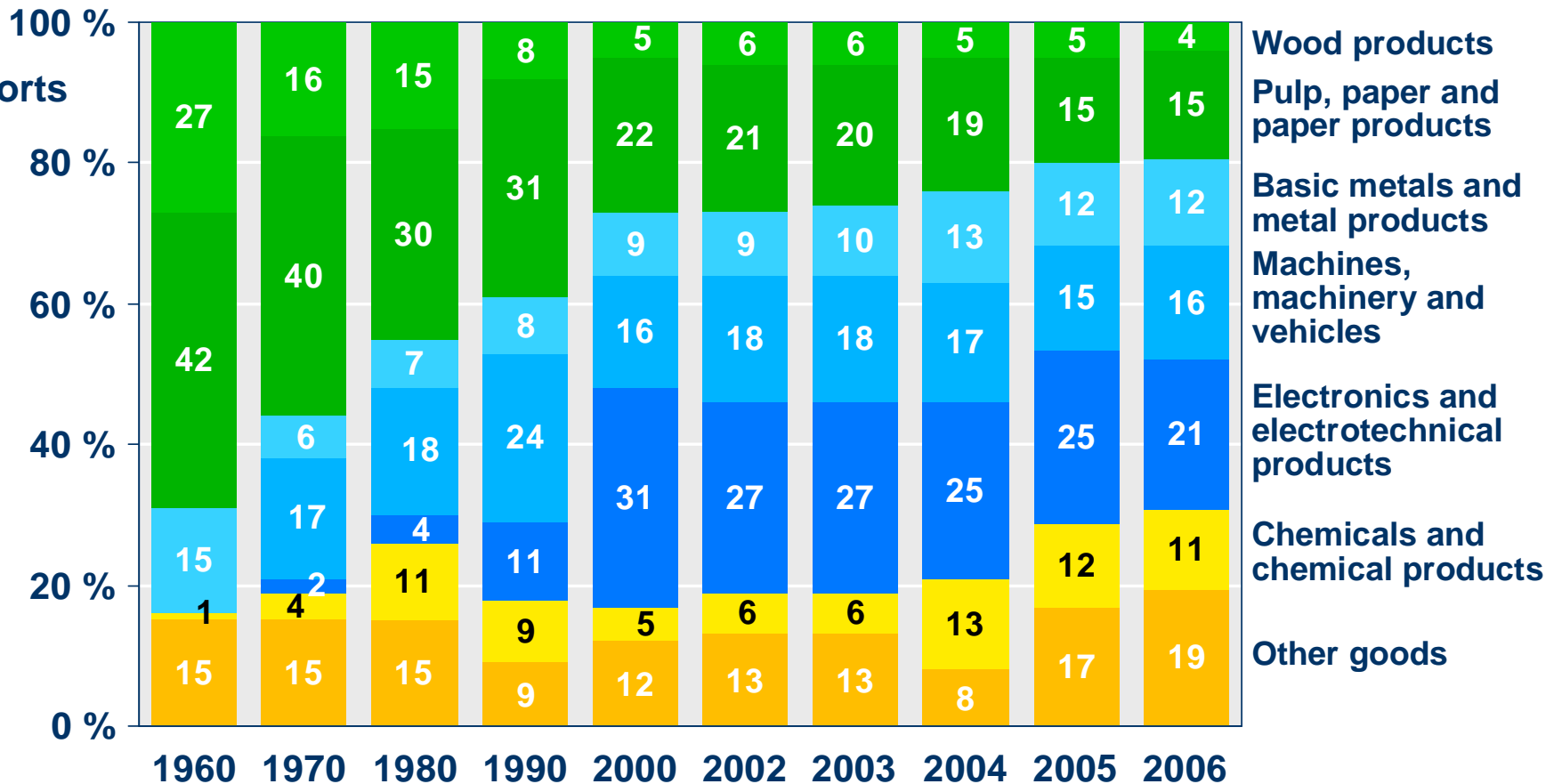
High investments in innovations in Finland.

There are clear results:

- | The structure of industries has changed strongly towards knowledge intensive sectors (1980-2005)
- | GDP growth figures and productivity growth relatively good
- | High tech exports has grown
- | Patenting is active
- | Competitiveness scoreboards rank Finland high

Finnish exports of goods

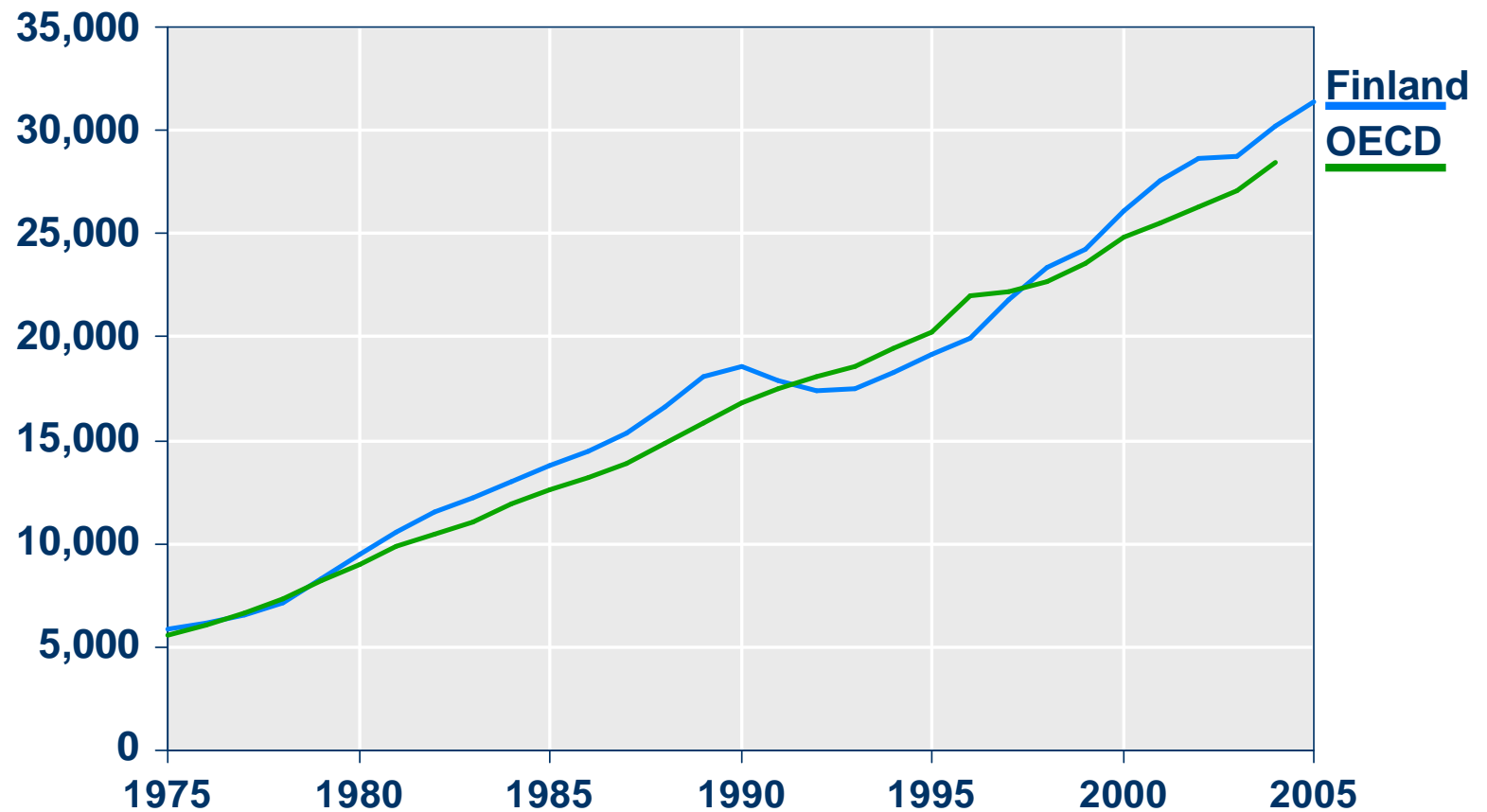
% of total exports
of goods



GDP per capita

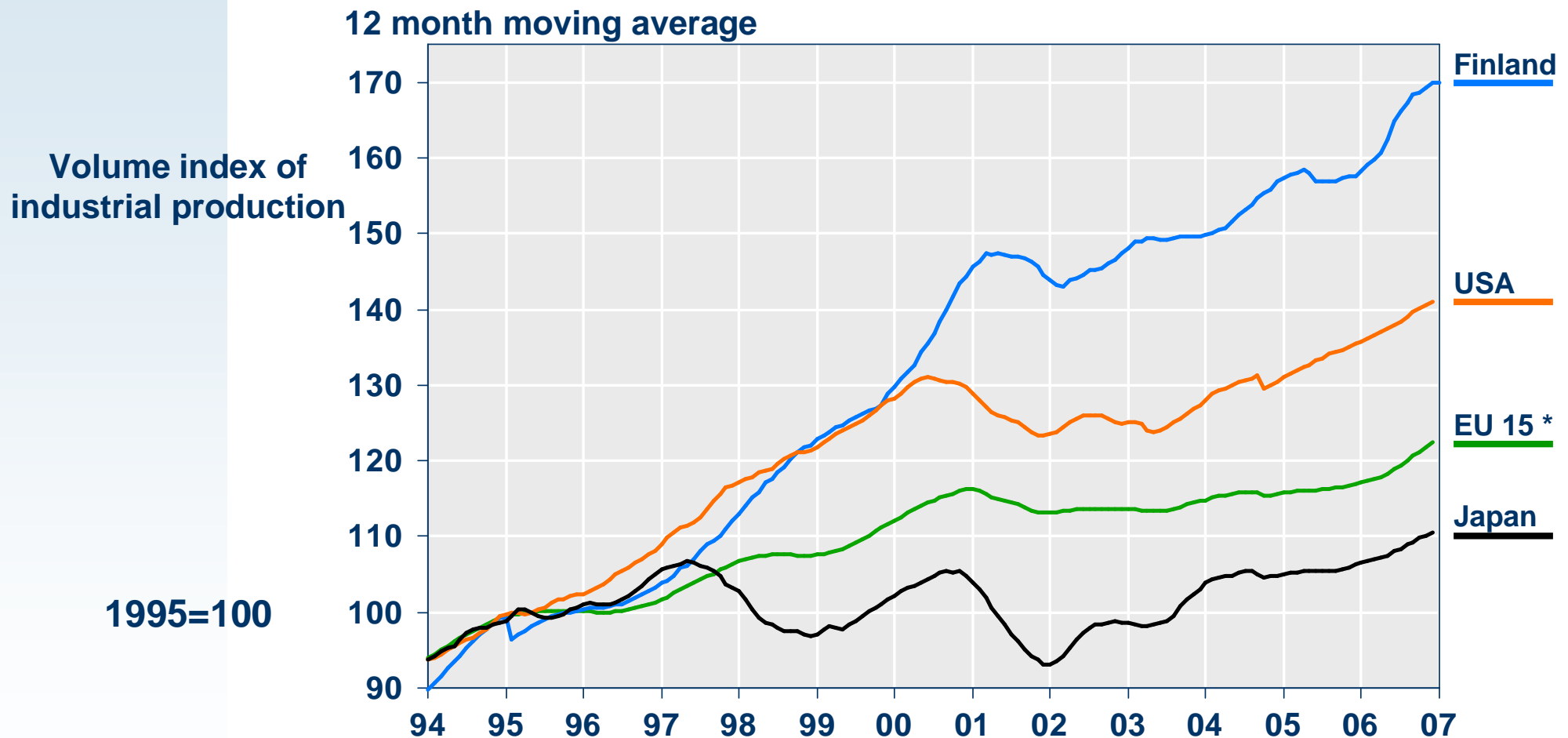
GDP in Finland has grown at a rate faster than the OECD average both before and after the recession.

USD in current prices and PPPs



Figures for Finland according to new calculations from Statistics Finland.

Growth of Industrial Production



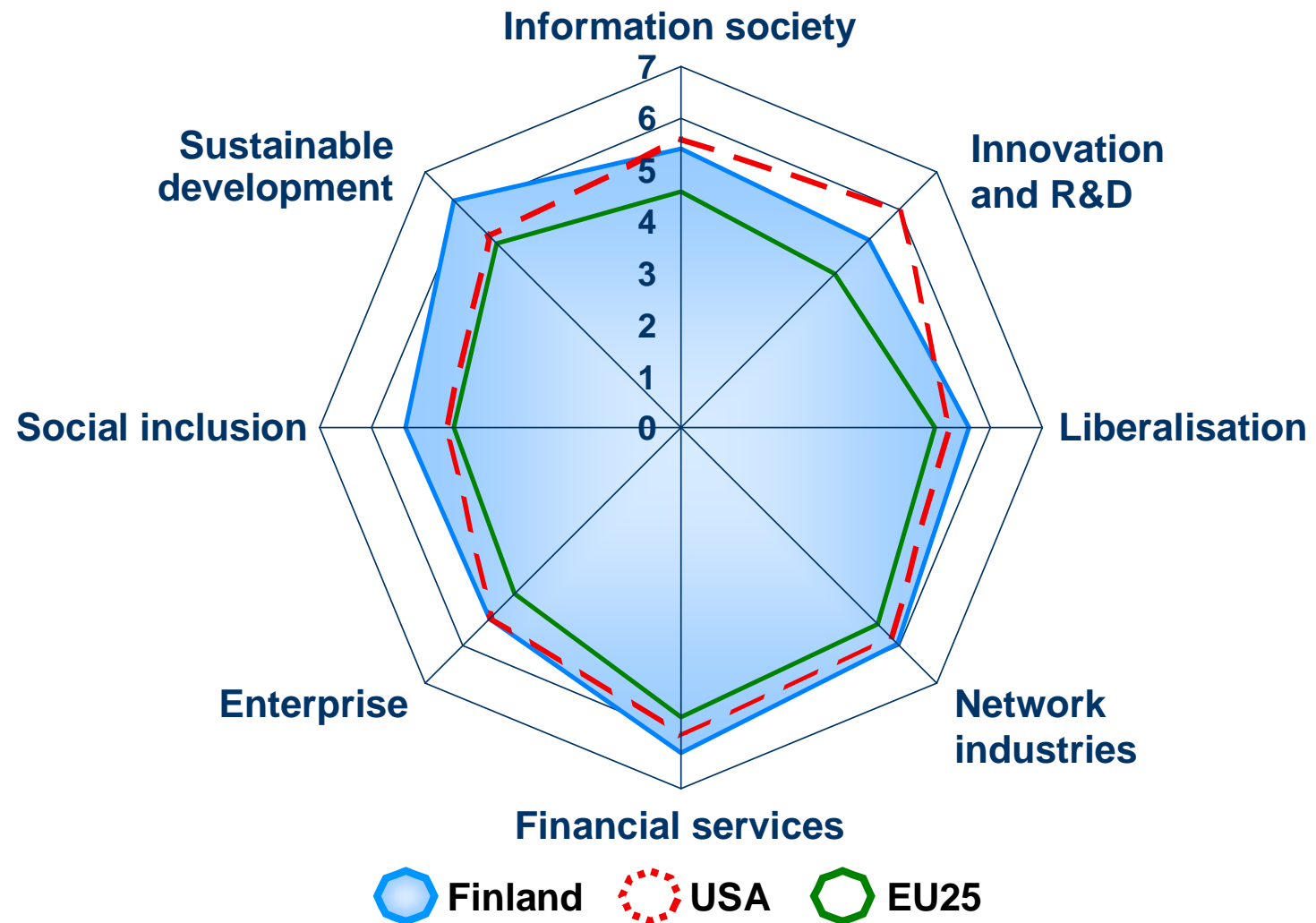
* Until 2006/5 EU15, since then EU 13.

Source: Statistics Finland

DM 36097, 36054 and 218475
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Country performance: Finland

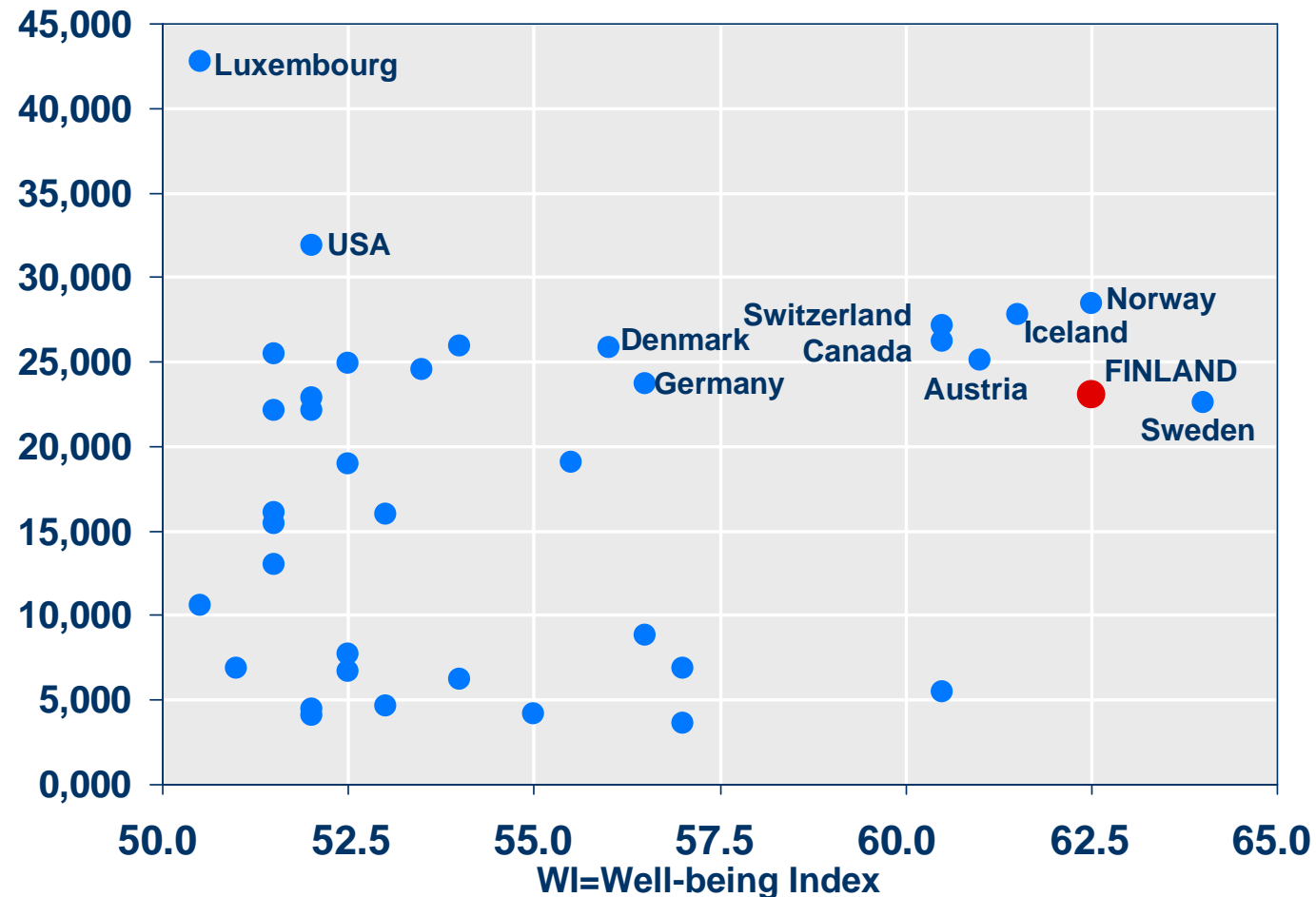
The Lisbon Diamond



GDP and the Well-being Index

Finland has had better success than other industrialised nations in combining higher income levels with well-being.

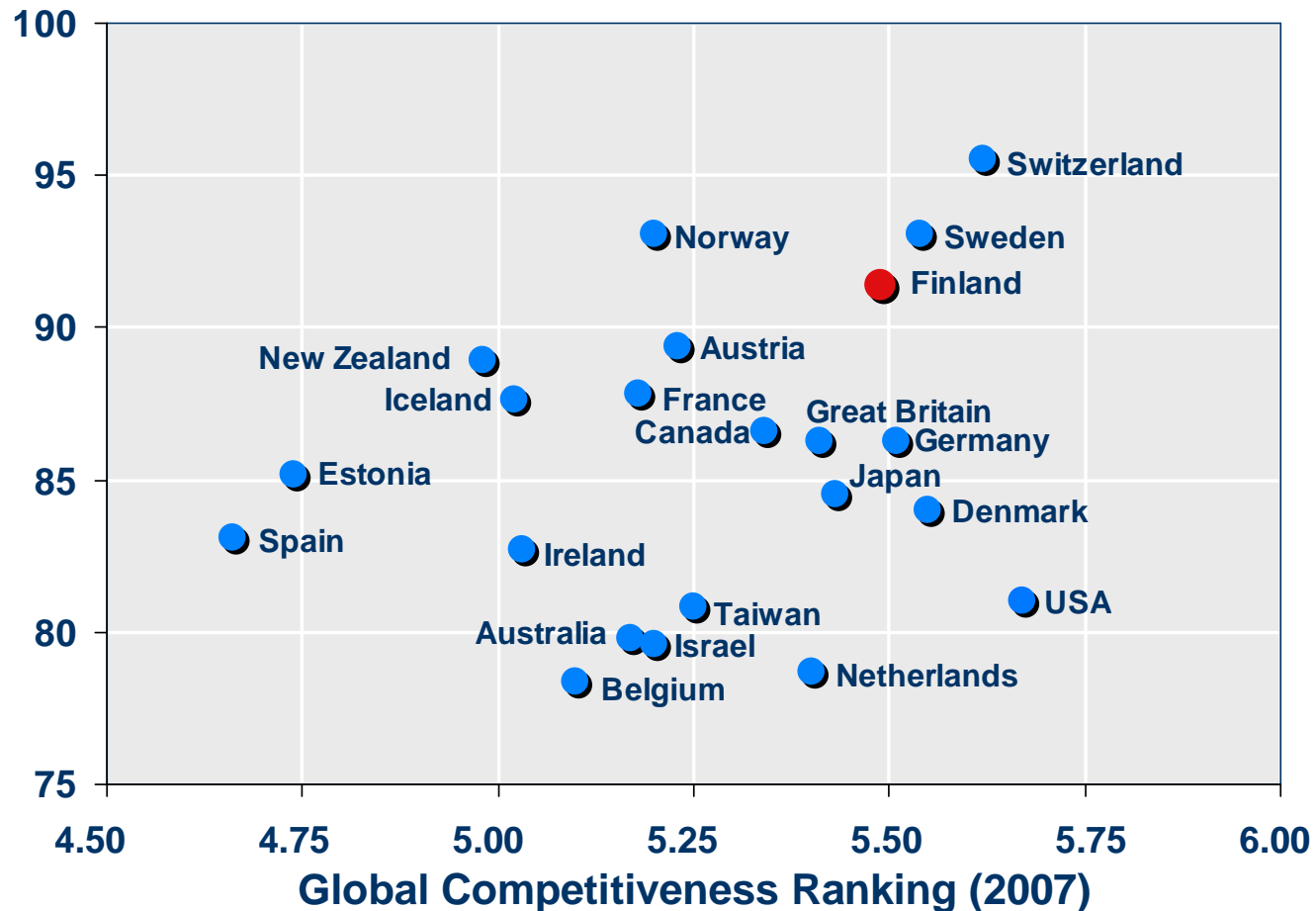
GDP per capita in 1999, (corrected for purchasing power) in US dollars



Environmental quality and growth competitiveness

In Finland, investment in the quality of the environment and competitiveness complement one another.

EPI-Index *(2008)



* EPI = Environmental Performance Index

Sources: WEF: Global Competitiveness Report 2007-2008 and
Yale and Columbia universities: Environmental Performance Index 2008

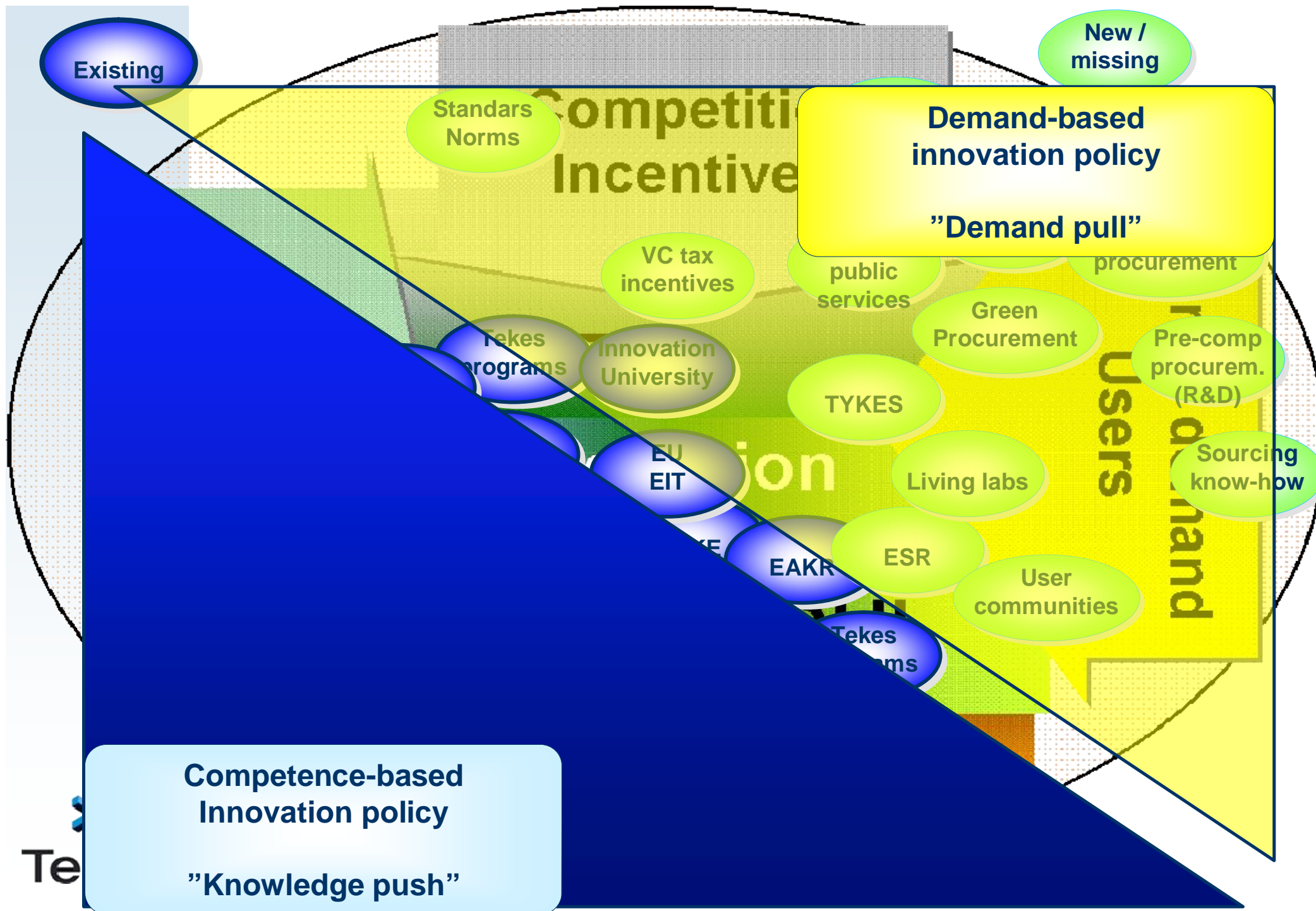
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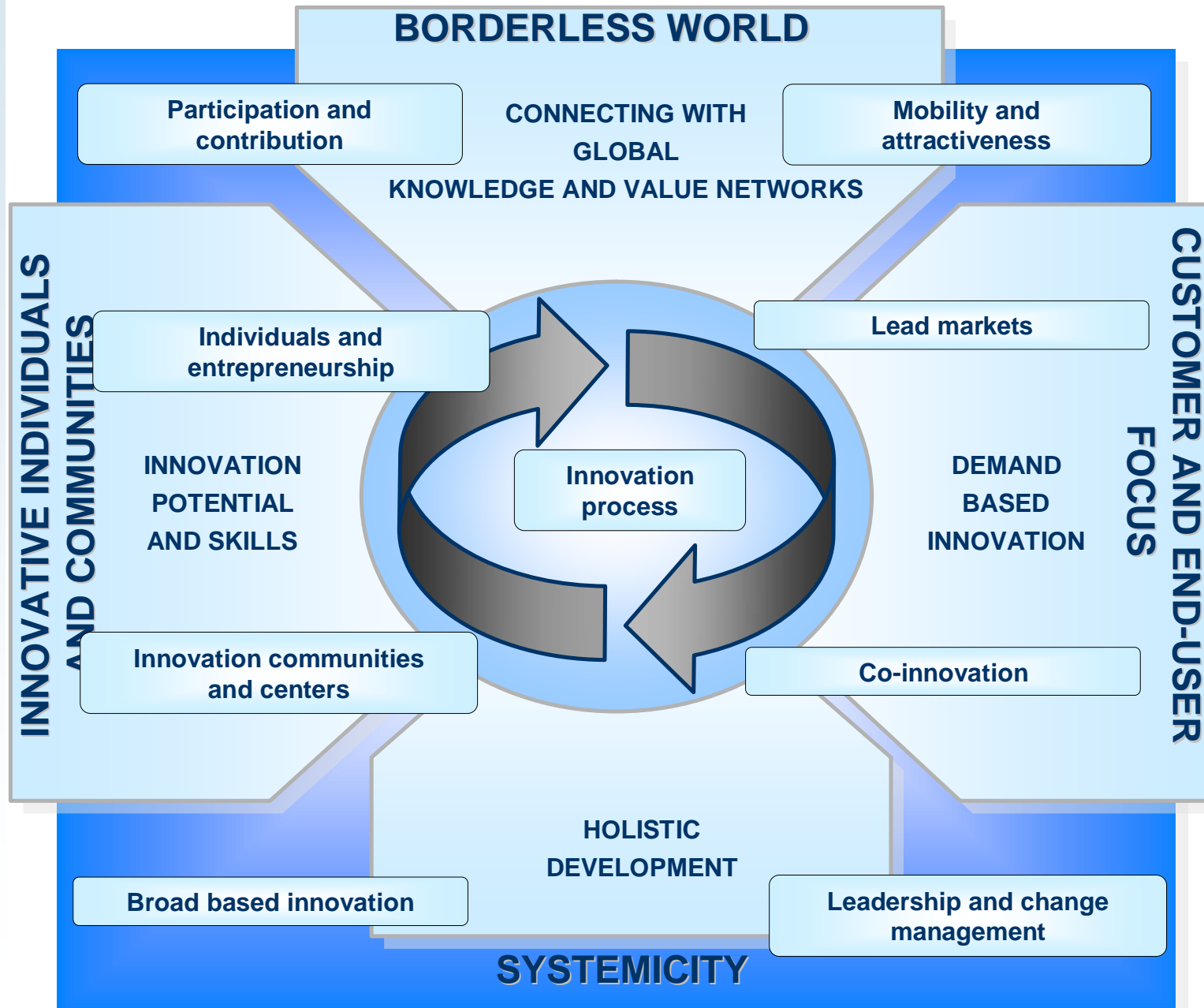
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National Innovation Strategy

- | A new national strategy was prepared by the Ministry of Employment and the Economy according to Prime Minister Vanhanen's Cabinet Programme
- | The task was to:
 - create preconditions for a broad-based innovation policy in the Finnish society (re-conciliate the promotion of innovation activities with various policy sectors as a coordinated entity)
 - ensure global competitiveness of the Finnish innovation ecosystem
 - promote the creation and introduction of innovations
- | The aim was to define the policies and choices that renew and will make the Finnish innovation ecosystem one of the best in the world in 2015
- | Was published in June 2008



Key strategic choices and focus areas



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Tekes strategy focus areas



www.tekes.fi/eng/tekes/focusareas2008.htm

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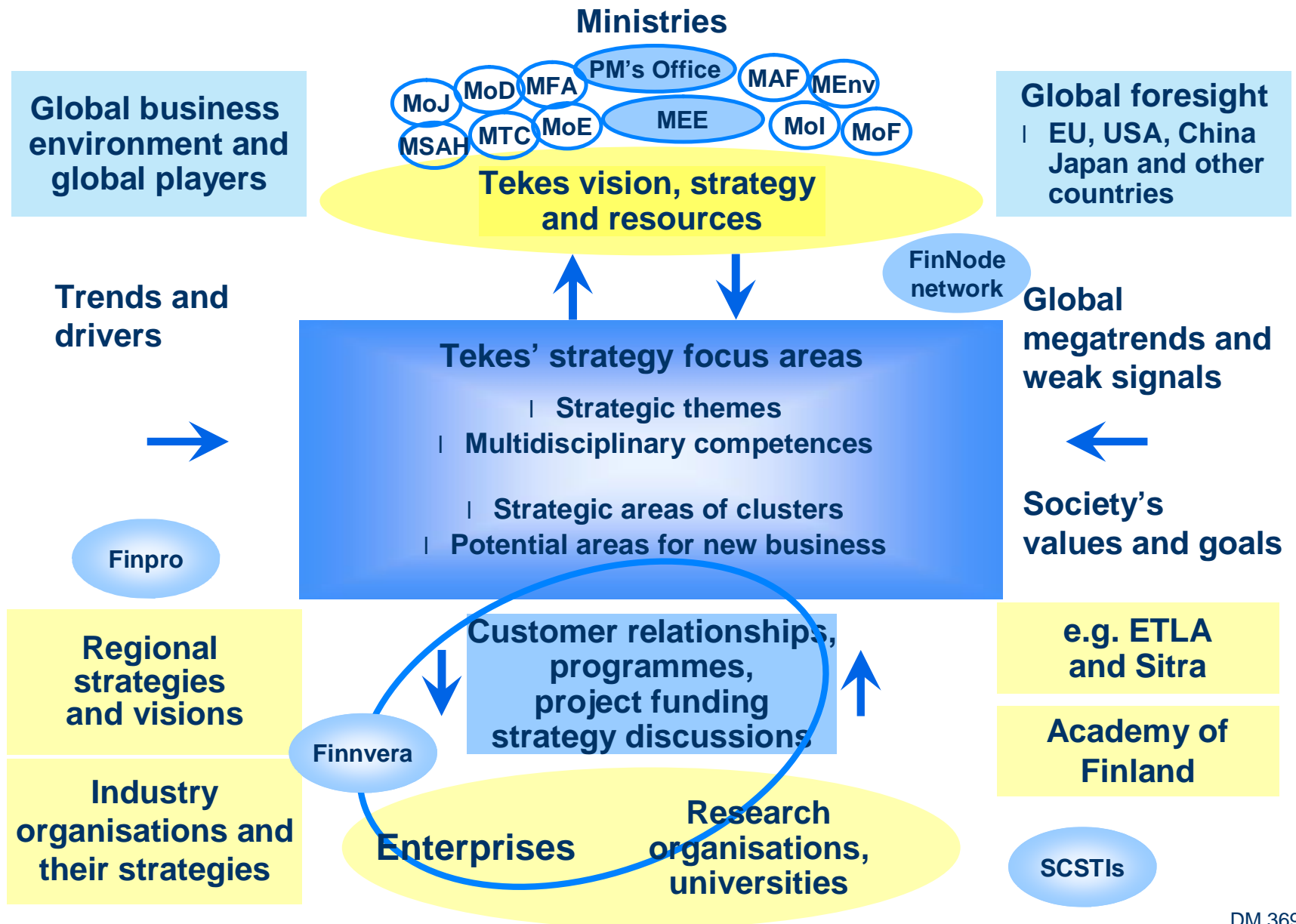
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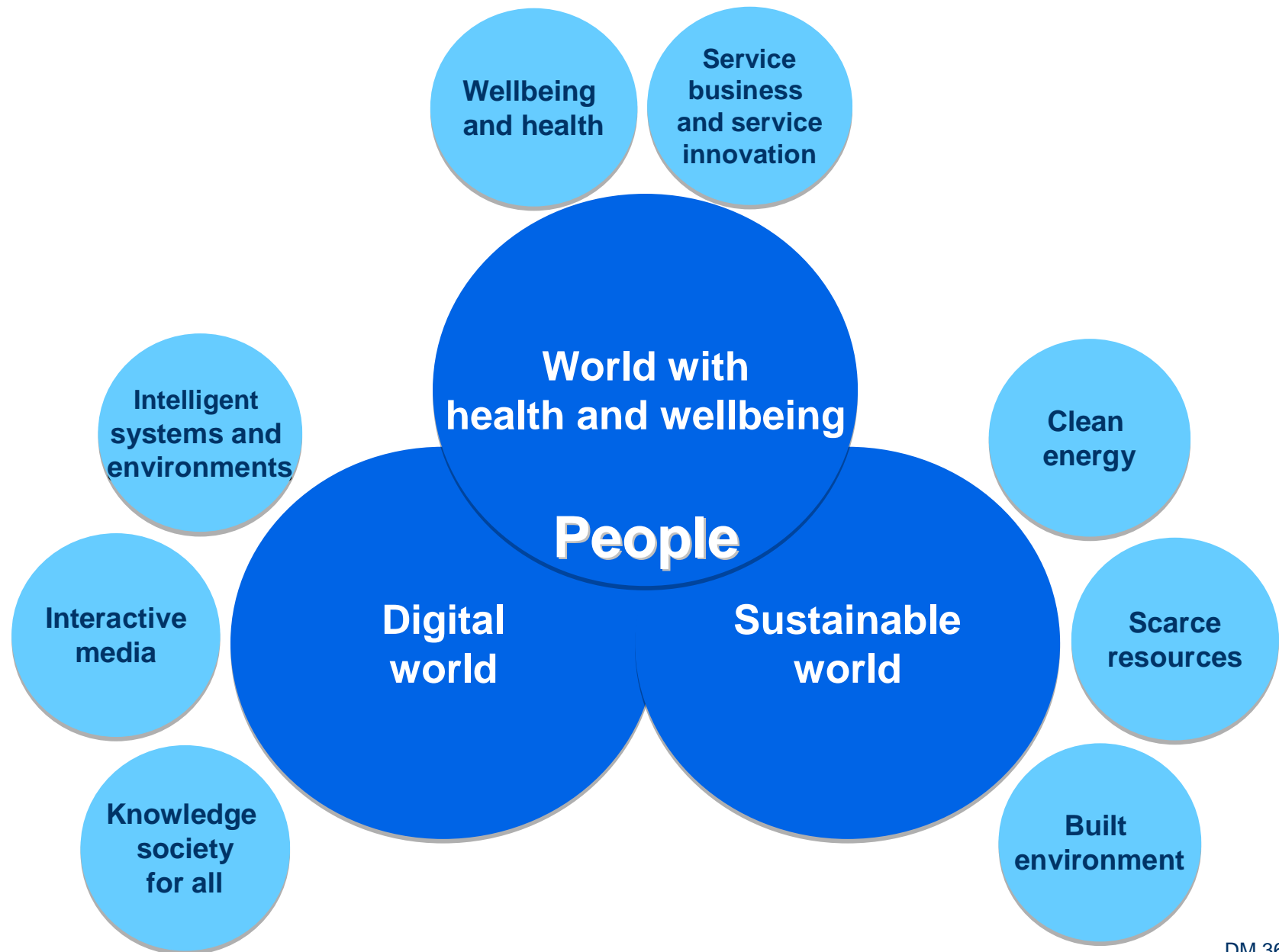
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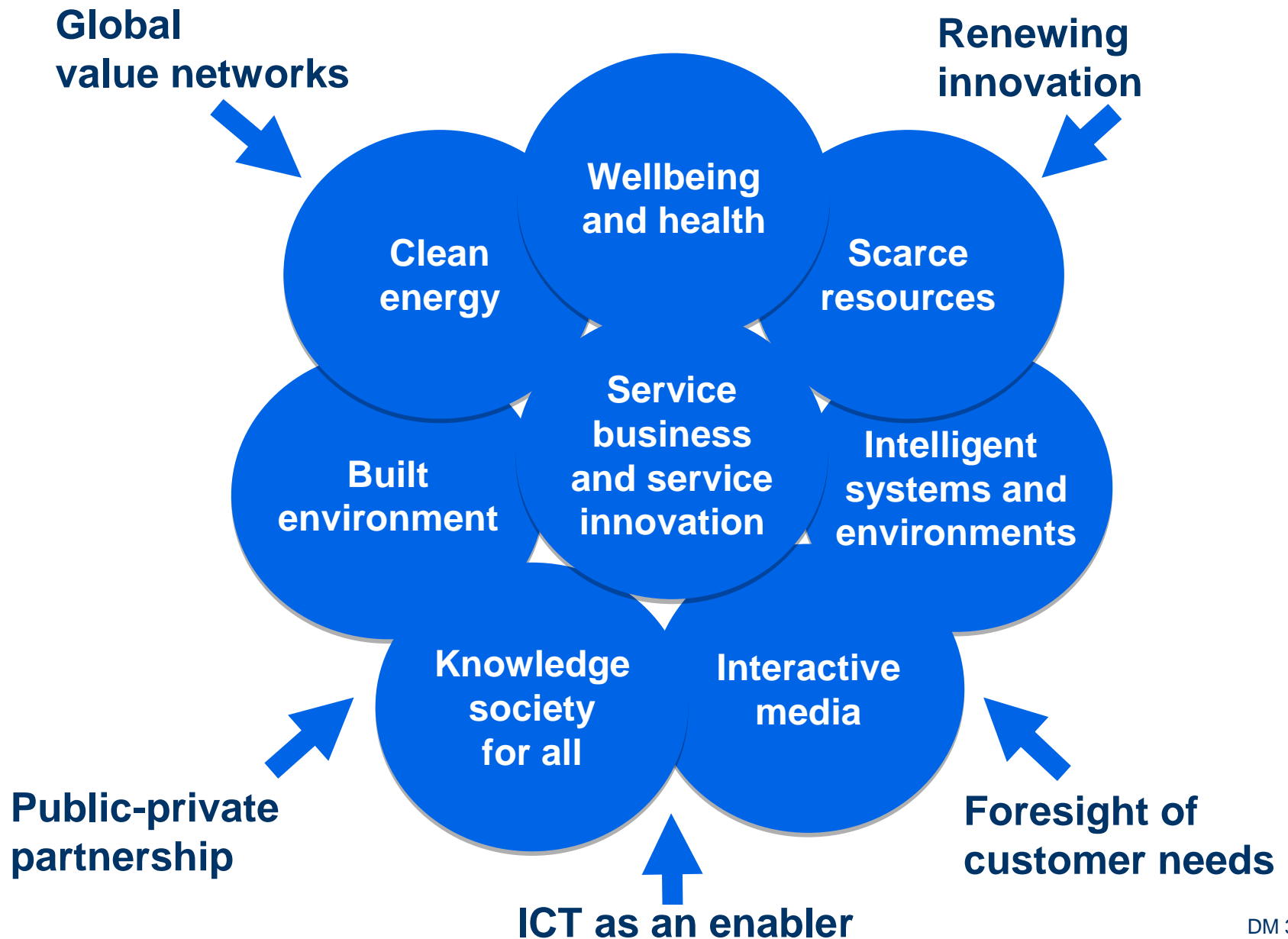
The interface of Tekes' strategy focus areas



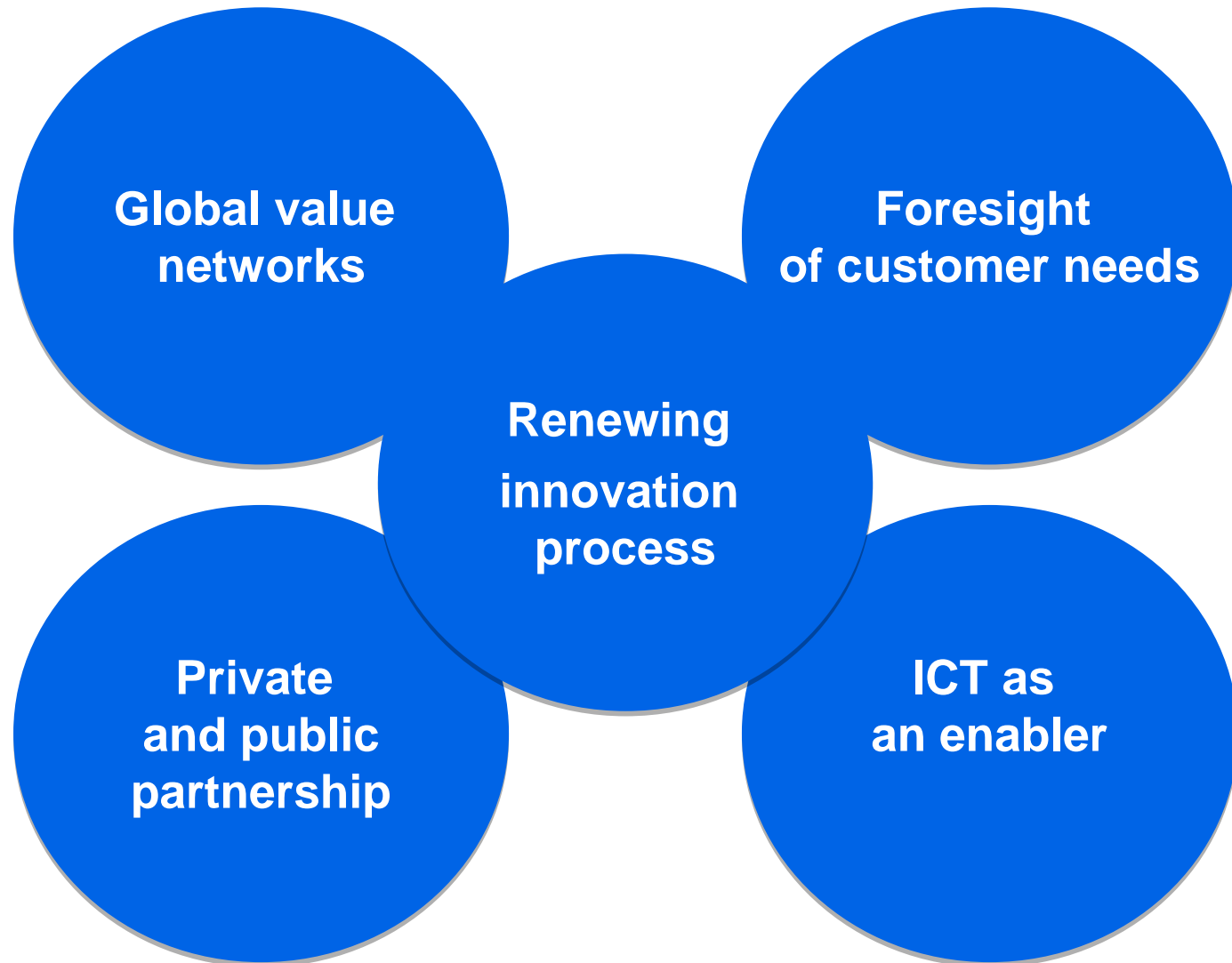
Interaction and integration



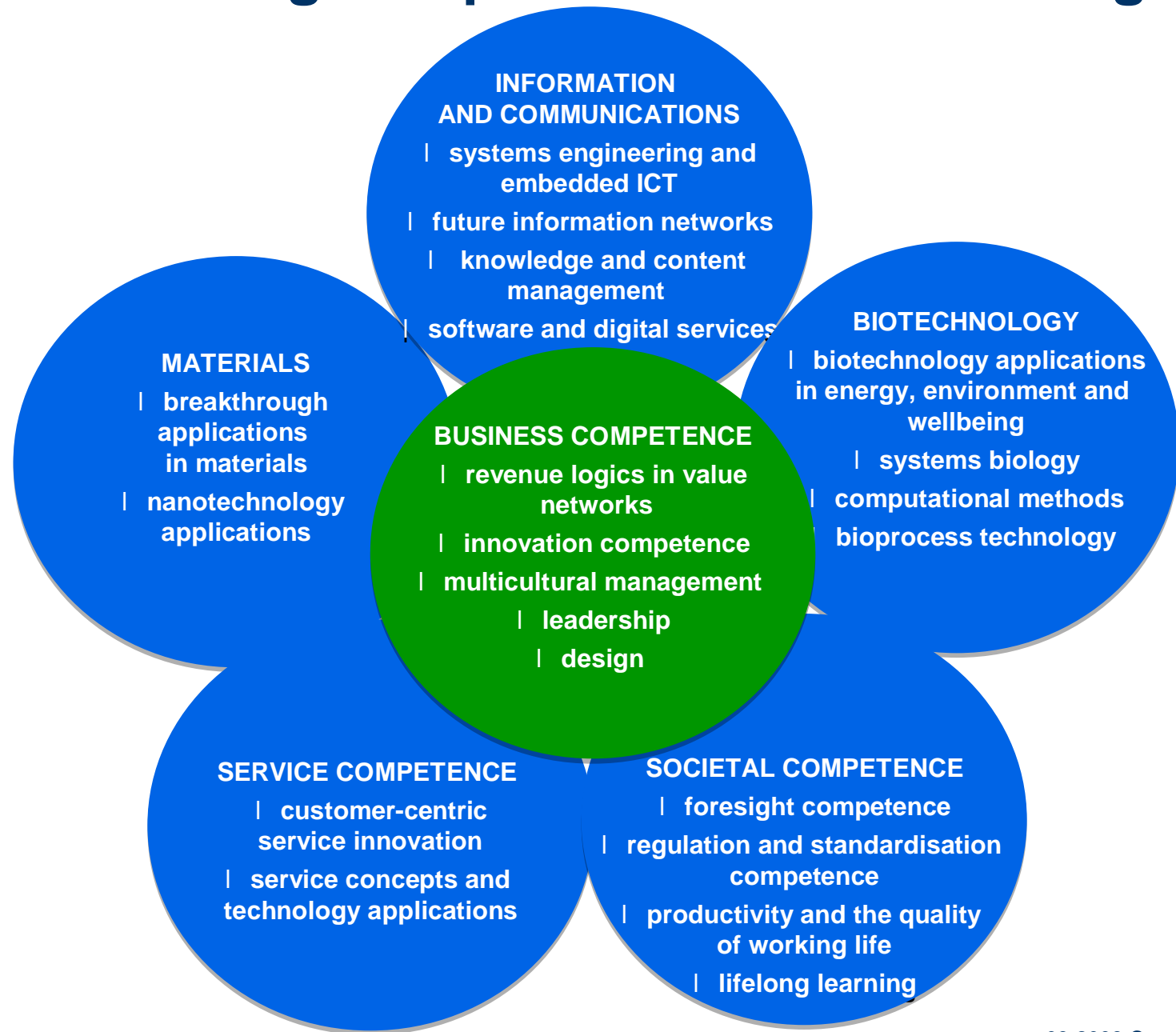
Themes and practices



Priorities in renewing practices



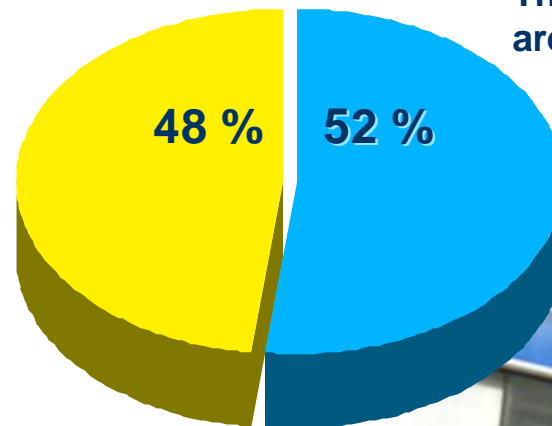
Crosscutting competences and technologies



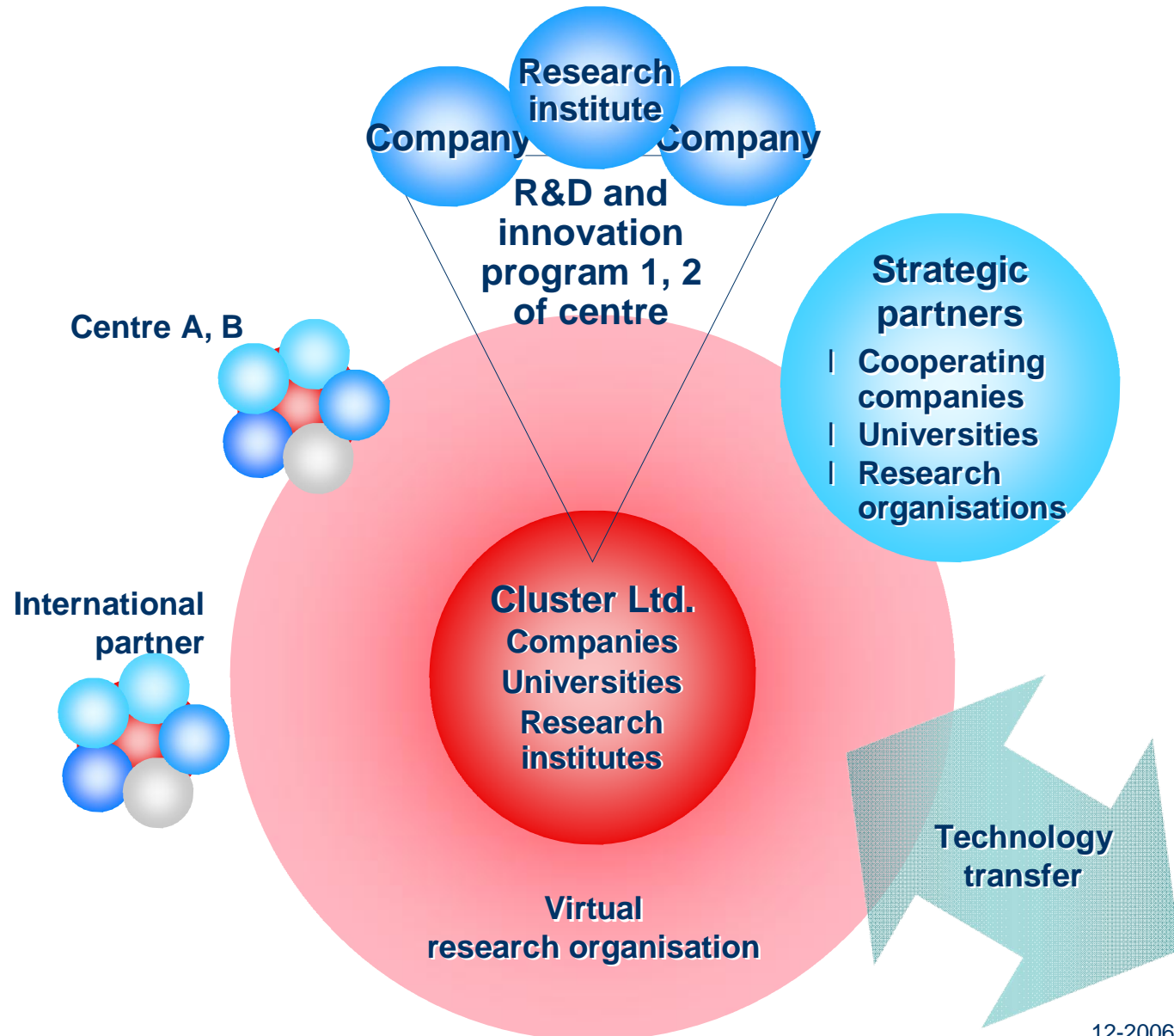
Programmes are Tekes choices for the greatest impact of R&D&I funding

| In 2007, 48% of the funding granted by Tekes was channelled via the programmes.

| The rest of Tekes funding is granted to projects that are outside the programmes. The focus areas of these projects are not generally restricted



Strategic Centres for Science, Technology and Innovation



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The Innovation University

- | **A full merger of three existing universities to Aalto University**
 - Helsinki School of Economics
 - Helsinki University of Technology
 - University of Art and Design Helsinki
- | **The goal for the new university is to be one of the leading institutions in the world in terms of research and education in its own specialised disciplines by 2020**
- | **Operation will start in August 2009**
- | **One of the flagship projects in the extensive higher education reform being implemented by the Ministry of Education, which will increase the financial and administrative autonomy of the universities**

Future Challenges

Drivers for renewal

- | (rapid) changes in global economy and value networks
- | Population development
- | Environmental issues, resources, energy
- | Evolution of cultures, values, lifestyles

Challenge areas: high-growth companies, entrepreneurship, service business

Finnish investment in R&D&I amounts to less than one percent of global investment. Finland must make strategic choices as to the sectors in which it wants and can be the best in the world.



Thank you!

www.innovaatiostrategia.fi/en/overview
www.tekes.fi/eng/tekes/focusareas2008.htm
www.innovaatioyliopisto.fi/info/en