



Conference 2011



Conference under the
patronage of the Polish
National Contact Point for
Research Programmes
of the EU



**Let's Construct Europe's Future
With Innovative Buildings and Infrastructures
*Construction and Societal Challenges***

**Radisson Blu Centrum Hotel - WARSAW
04 / 05 October 2011**

TeKes in the Finnish innovation system – encouraging change in construction

Tom Warras, TeKes
Warsaw, 5 Oct 2011

Tekes's mission statement

Finnish Funding Agency for Technology and Innovation

- Tekes is the main public funding organisation for research, development and innovation in Finland.
- Annual budgets over 600 million euros for project funding.

Mission statement

- Tekes promotes the development of industry and services by means of technology and innovations.
- This helps to renew industries, increase value added and productivity, improve the quality of working life as well as boost exports and generate employment and wellbeing.



Research funding in Finland

Tekes – Funding Agency for Technology and Innovation

- Public funding R&D and innovation
- Research Programmes co-funded with industry
- 9 programmes touching construction

Research council Academy of Finland

- Public scientific funding
- Numerous Research programmes
- 1-2 in the construction sector

Rym Oy Strategic Centre for Science, Technology and Innovation for Built Environment

- Mostly private sector
- 3 R&D Programmes
- Subsidized by Tekes

Relevant research programmes in Finland

Tekes – Funding Agency for Technology and Innovation

- Each programme 80 M€ (5 years)
- Spaces and Places
- Built Environment
- Sustainable community
- Safety and Security

Research council Academy of Finland

- Research programme for Housing
- Call for projects 2011

Rym Oy Strategic Centre for Science, Technology and Innovation for Built Environment

- Re-engineering the building process
- Energizing society
- Indoor climate



Our strategic priorities for 2012 and onwards

Smart cities Intelligent environments

- Planning has started concerning future actions in the smart city context:
 - ❑ Smart energy systems and sustainable material economy
 - ❑ Safety and security of the living environment which makes good use of digital systems
 - ❑ User-oriented products, services and processes



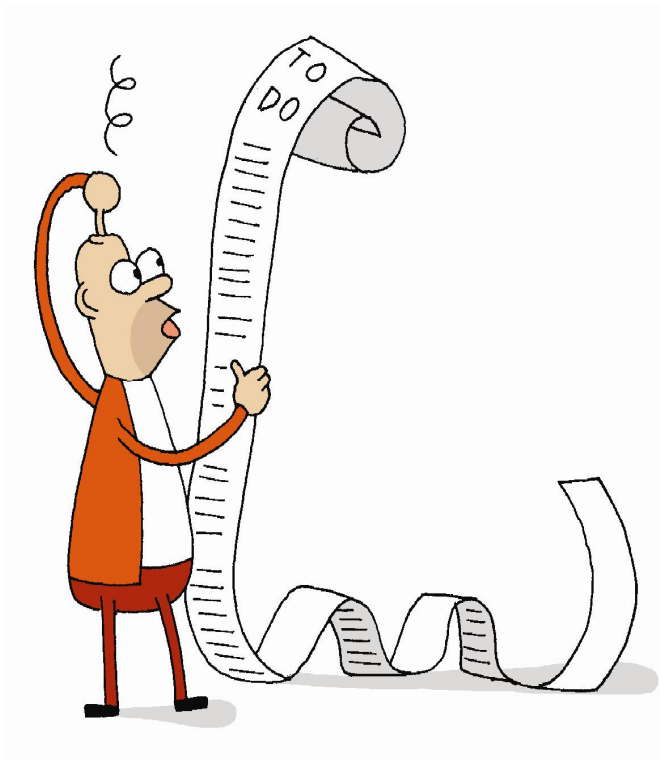
Growth and
wellbeing from
renewal




Tekes

Built Environment Programme

- The research programme allocates Tekes funds 37 mio€ 2009–2014 on developing user-oriented construction business and the conditions for it. The owners and the industry complement with an equal share.



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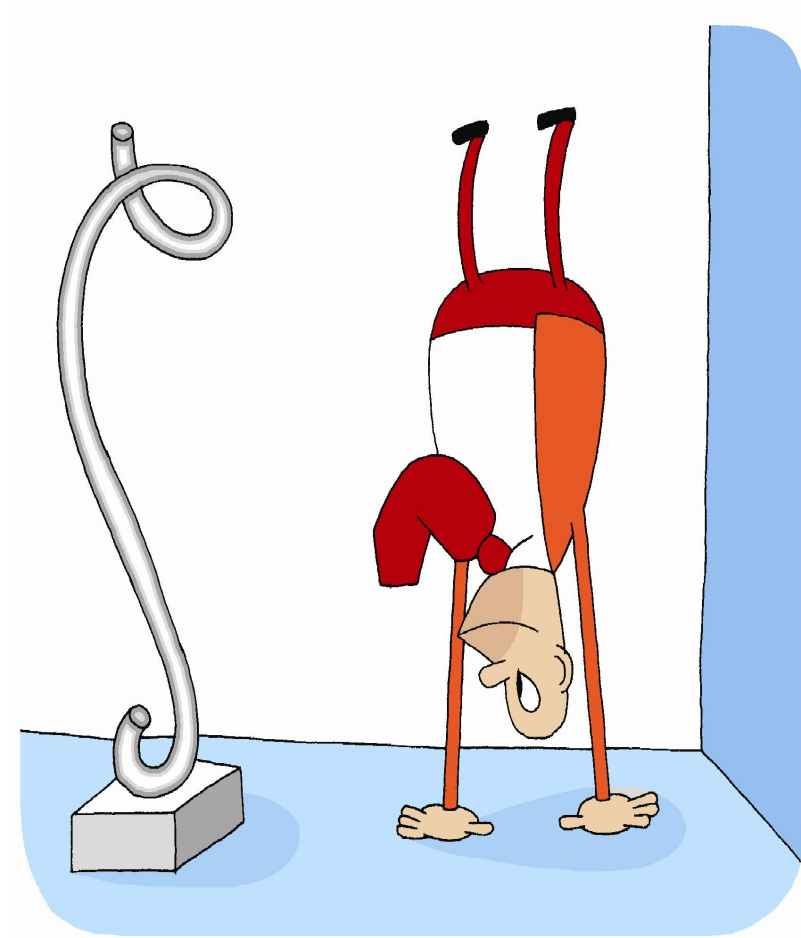
Goal: To develop the serviceability of the built environment by responding to the needs of users

Stakeholders: private and public sector in the field of building renovation and refurbishment, wellbeing services and infrastructure.

Demonstrations: the owner involves service providers, designers, contractors to renew the processes (health care, dwellings for elderly, city development)

The R&D Programme as an enabler for change

- Towards construction as a service industry
- Towards new business potential
- Towards a customer centric approach, co-creation and engagement
- Towards change management
- To meet the great challenges of society



Vision for the Built Environment

- A 2020 vision for the industry, the owners, the organisations and people working and living here
 - The built environment is sustainable, and its processes of investment, maintenance and care have a life cycle focus
 - Collaboration cross the sectors is reality
 - The built environment is seen as a framework for good life and construction as a tool for change
 - Construction is service oriented

Trends – already visible

New communities
for living – public
and shared space

Multiuise of
spaces: living,
work, services

Living as service –
more than an
apartment

Neighbourhood
services, near
production

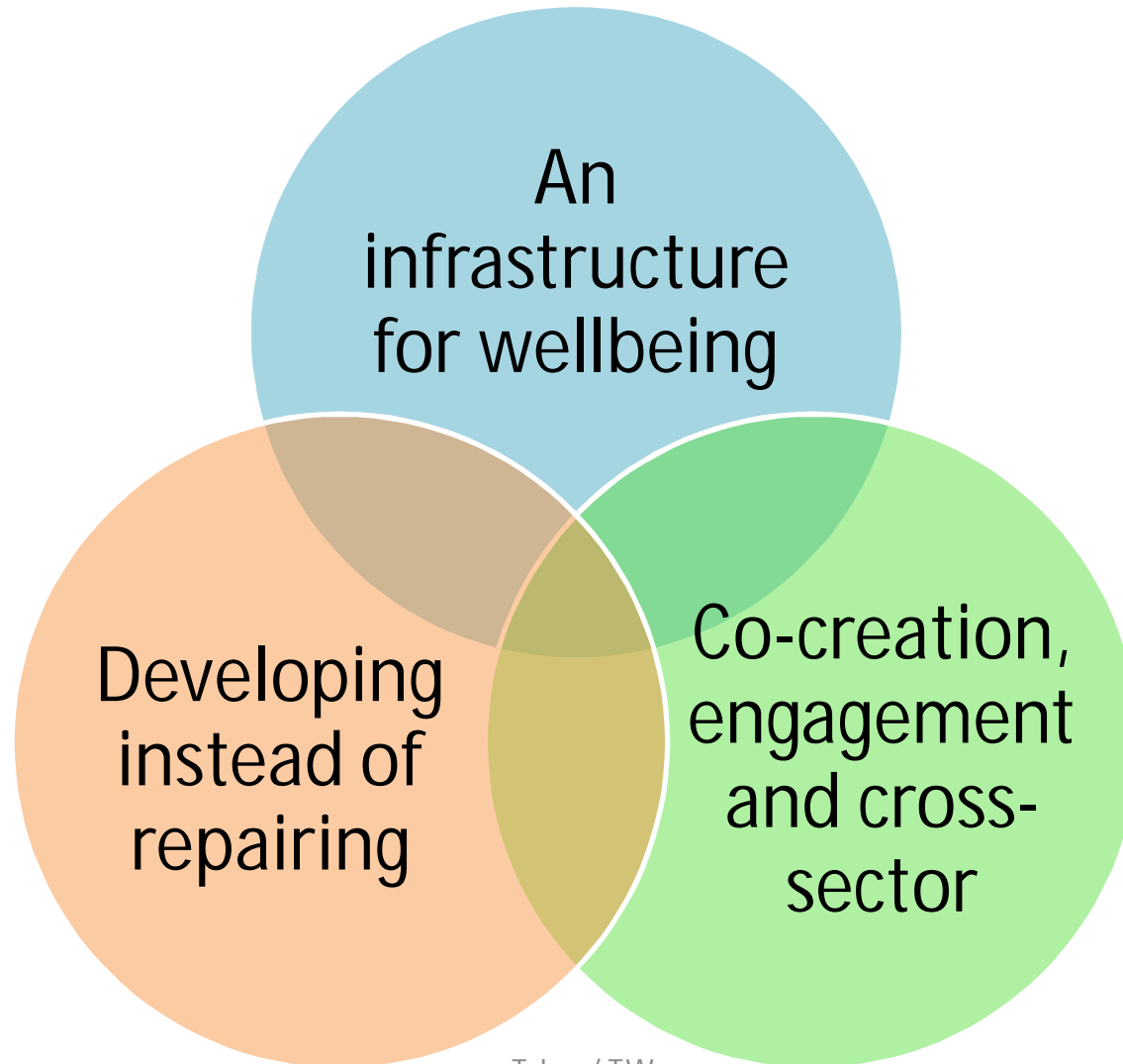
Lifestyles, free
time, wellbeing,
slow

On-line
management of
infrastructure

Cross-sectoral
processes

Innovation
challenges in the
public sector

Roadmap for renewal of the built environment sector



Programme actions for the built environment



- Creation of multi-stakeholder development environments
- The calls for projects encourage a holistic approach and require consortia
- Owners as motors for renewal establish development projects and they get Tekes funding for their efforts (applies also for public owners ie municipalities, hospitals)
- Participation of designers, contractors, tenants, and users in open innovation platforms
- The demonstration areas or constructions are chosen to promote the European policy goals of energy saving, reduction of climate change impacts and limiting congestion.

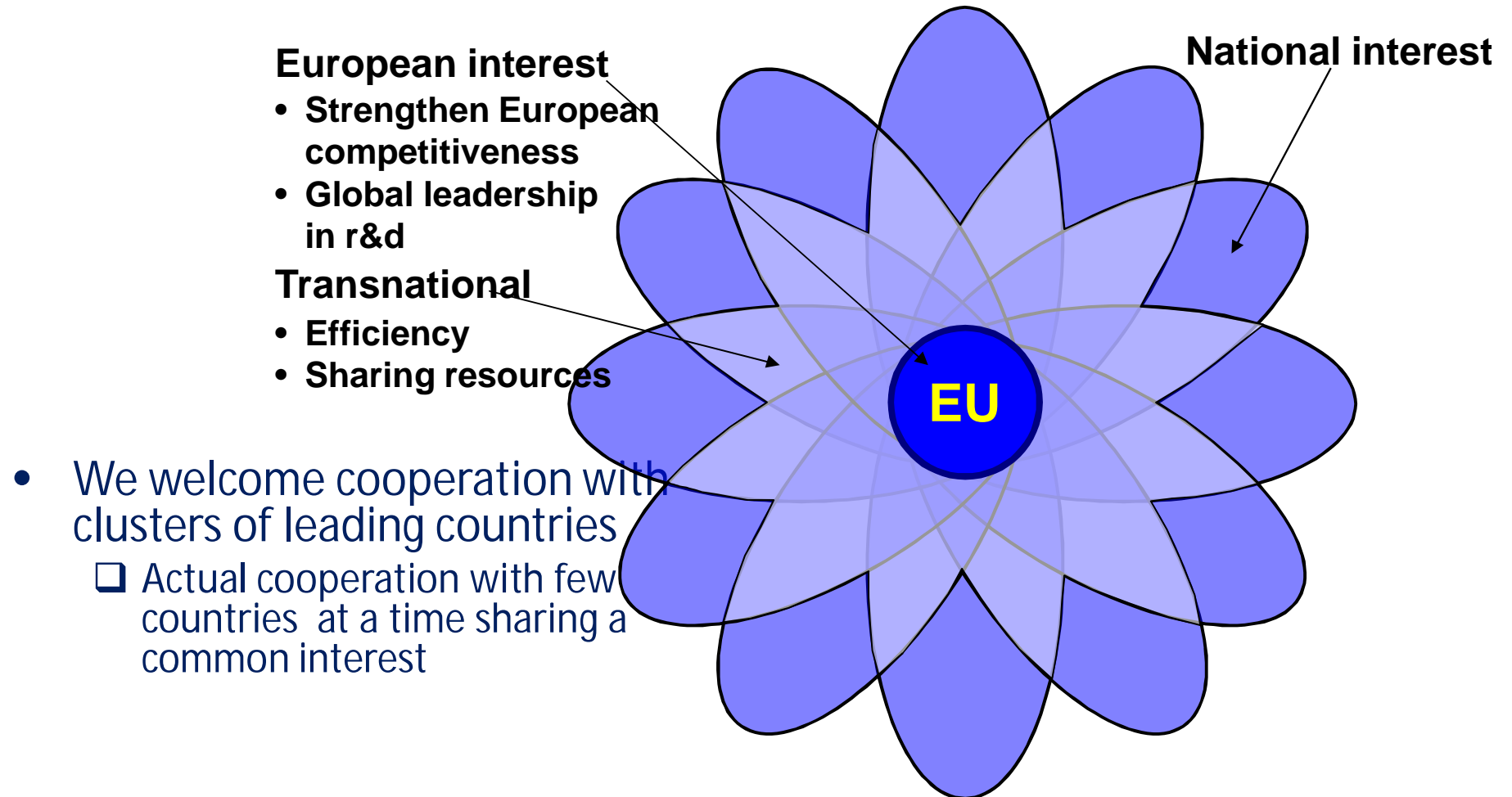
Programme actions for European collaboration

Rhetoric questions:

- What do we expect from joint actions?
- What do we expect from transnational collaboration?
- What are we prepared to fund?
 - And how much?
 - Which parts of the innovation chain?
- Which topics are interesting?
- How would we like to cooperate?



Programme actions for European collaboration



Programme actions for European collaboration

- We welcome an Innovation Platform for the development and exploitation of new technologies and competences
→ generation of innovations
- We would like to invest in innovations by funding leading cities, owners, companies and multidisciplinary research
- We welcome cooperation with clusters of leading countries
 - ❑ Actual cooperation with few countries at a time sharing a common interest
 - ❑ End users should be involved, e.g.. cities and communities





Thank you!

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