From regional clusters to innovation platforms

- OPEN INNOVATION PLATFORMS AS POLICY TOOLS FOSTERING THE CO-CREATION AND VALUE CREATION IN A KNOWLEDGE TRIANGLE

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Tampere - growing and the most attractive region in Finland

People
500,000 + inhabitants – the most desired place to live in Finland

R&D&I
Centre for leading edge research and education, 5-7 % of GDP in R&D, ~ 40,000 students, new united university to be established in 2018

Business

Leisure
Positive flow of congresses, museums, events, theatre, music, sport…
Decoupling of regional RDI investment and growth

GDP and R&D expenditures
Tampere region, index series, year 2000=100

Innovation profile Tampere / Finland in 2009

Applications for patents / 1000 inhabitants
Fast growing enterprises (2010)
Foreign students, % of all students
Doctoral graduates, % of population aged over 15 yrs

Tekes RDI funding* / GDP
Personnel in R&D, % of employees (2009)
R&D funding / GDP (2009)
R&D funding of corporations, %

Tampere Region
Finland

* Tekes – the Finnish Funding Agency for Technology and Innovation
Pathway to smart specialisation in Tampere Region – regional cluster policy programmes 1994 - 2013

- Tampere Centre of Expertise I 1994-1998
- Tampere Centre of Expertise II 1999-2006
- eTampere 2001-2005
- BioNext 2003-2010
- Creative Tampere 2006-2011
- Tampere Centre of Expertise III 2007-2013

Towards more resilient innovation profile

- Tekes RDI funding* / GDP
- Personnel in R&D, % of employees (2009)
- R&D funding / GDP (2009)
- R&D funding of corporations, %
- Doctoral graduates, % of population aged over 15 yrs
- Applications for patents / 1000 inhabitants
- Fast growing enterprises (2010)
- Foreign students, % of all students

* Tekes – the Finnish Funding Agency for Technology and Innovation
Open innovation platforms – novel funnelling of the innovation flow since 2009

INPUT

Knowledge creation
Basic research
Translational research

INTERACTION FIELDS

Education / Human resources
Human networks
Networks of funds
Regional clusters
University - business collaboration
IP strategies
Co-creation processes

OUTPUT

Jobs
Wealth creation
Commercialization
New products & services
New markets
Companies

Platform = “a set of stable components that supports variety and evolvability in a system by constraining the linkages among the other components”

Principle 1: Create new combinations of knowledge
Principle 2:
Move faster in value creation

*Chinese are cranking out a device much faster than the time that it takes us to polish a PowerPoint presentation”*
(Mr Stephen Elop, ex-CEO of Nokia)

Idea → Demonstration → Prototype → Market entry

Principle 3:
Make it very affordable to start

Not €

But €
Elements of an Open Innovation Platform

Open innovation platform is an environment, technology, system, product or service which

- is systematically accessible for third party developers and value creation and
- creates mutual benefits for users through network effects of participation
AER Regional innovation award 2010
The Best Summer Job 2011 in Finland
Baltic Sea Region Innovation award 2012
Nokia Foundation Award 2013
Innovation platform policy vs. cluster policy

Trad. cluster policy
- Local universities and corporations as drivers
- Mobilization of networks to create R&D projects
- Selection and funding of best "product" projects
- Public sector = funding

Platform policy
- Communities, talents and ecosystem orchestrators as drivers
- Creation of attractive environments to "try out new stuff"
- Capability building and management of "cloud of trials"
- Public sector = platform provider + co-creator + innovative customer
Open Innovation Platforms
The open innovation platform as
an approach to city development

HANDBOOK
for developers

MIKA RAUNIO
NADJA NORDLING
TAINA KETOLA
JUKKA P. SAARINEN
ANNIINA HEINIKANGAS

"It is not the strongest of the species that survives, nor the most intelligent, but the most responsive to change." - Charles Darwin

Thank you.

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