# The transition of innovation policy to system innovation policy in Finland

STRATEGIC CLUSTER POLICIES FOR NEW GROWTH

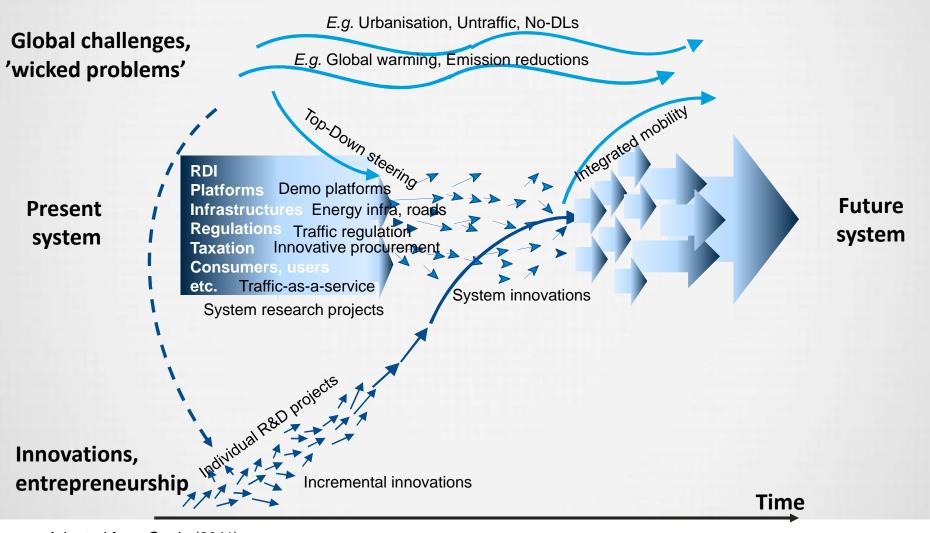
SHAPING STRATEGIC PARTNERSHIPS FOR THE TRANSFORMATION OF OUR ECONOMIES

Monday 12 May, 13.00 to 18.00, Brussels

Raine Hermans, PhD, Adj. Prof. Head of Strategic Programs Tekes

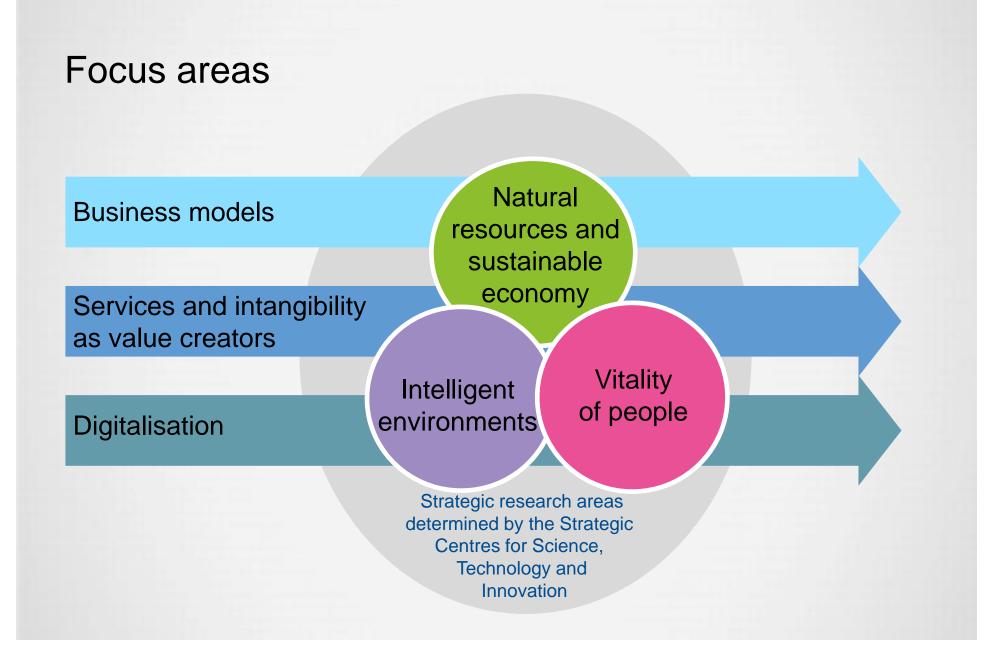


#### Systemic innovation based on economic transformation



Adopted from Geels (2011)







#### Mobility-as-a-service (NMT 2.0 $\rightarrow$ GSM 2.0)

Our vision is to enable a seamless and efficient flow of information, goods and people. By this end, new integrated mobility service solutions will be launched, based on standardized open interfaces.

It is almost impossible to achieve because transport system inefficiencies are presently business for many organisations and industries, many old jobs will become unnecessary although many jobs are created, and we are acting in cilos.

Precedents of this idea include Kutsu+, Autolib, Über, TaxMobil, Suica, Pasmo-cards, Orum.

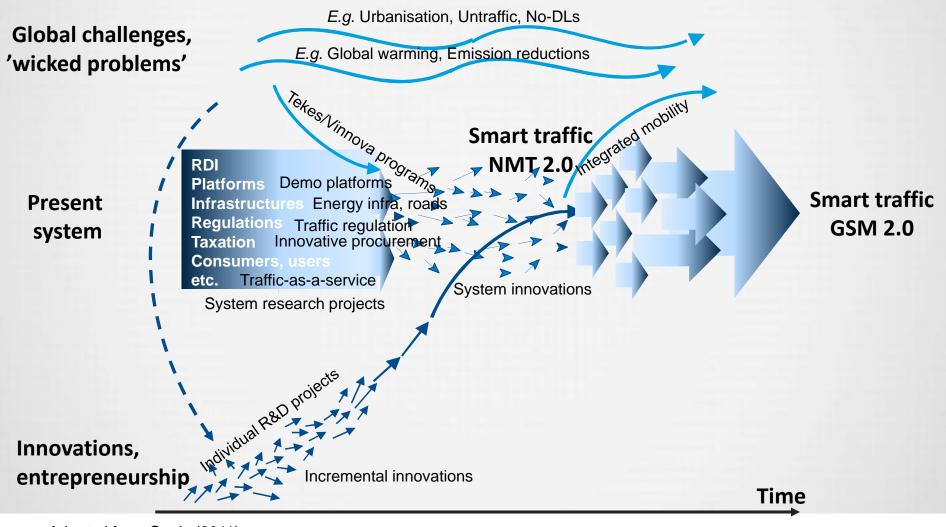
We will make this vision real by the end of 2016, by working with the following kinds of organisations:

- Companies that are willing to operate in open ecosystems,
- Regulators that enable operations in open ecosystems,
  Payers of transport services that need to save 50% of the costs,
- Users that prefer high quality services (matching to the budget constraint),
- Research institutions that help us to see the forest out of individual trees.

The timing is right today due to technology and information potential, supportive international regulations (e.g. emission restrictions), and the economic reality that compels us towards the change.



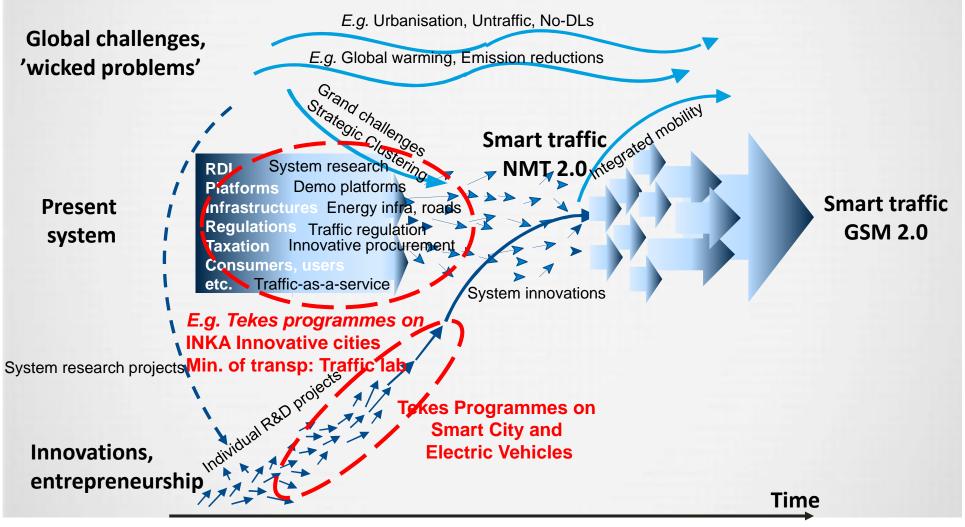
#### Mobility-as-a-service: from Nordic countries to global markets



Adopted from Geels (2011)

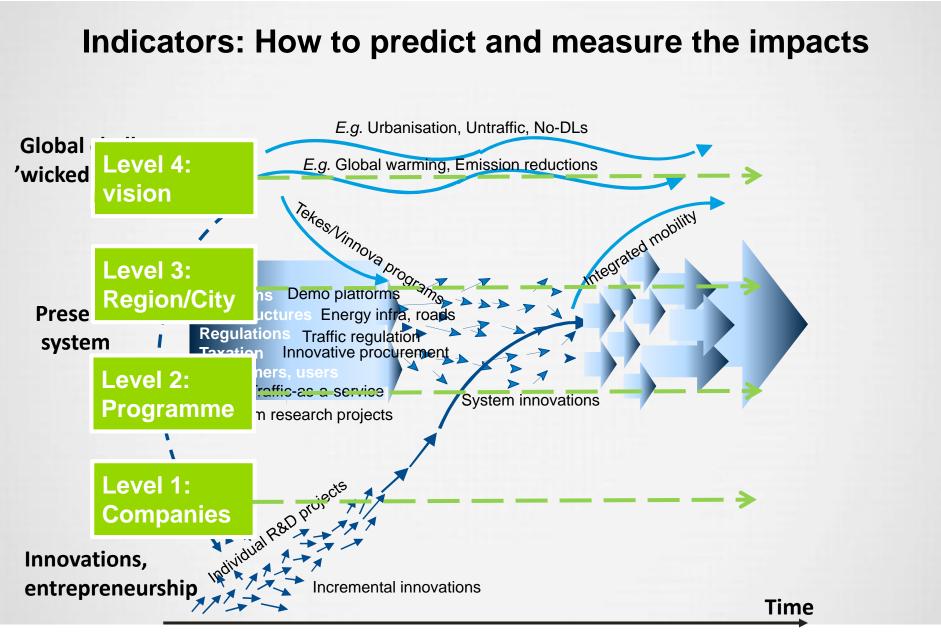


#### Mobility-as-a-service: from Nordic countries to global markets



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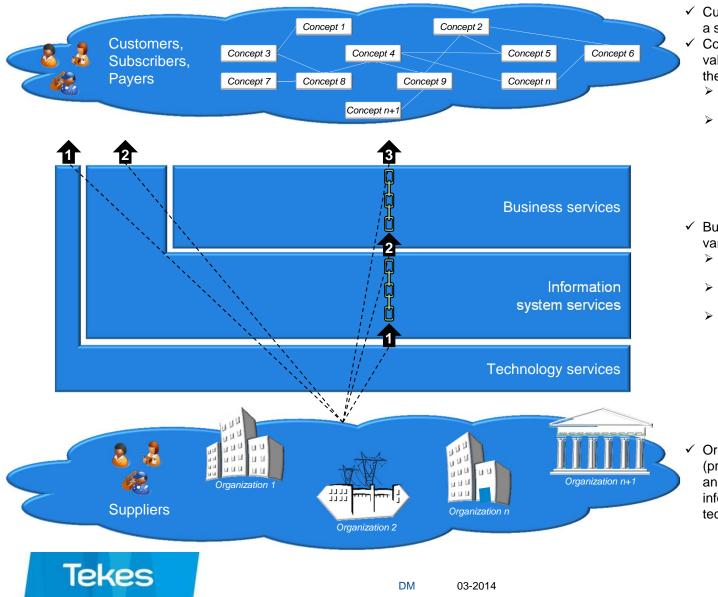




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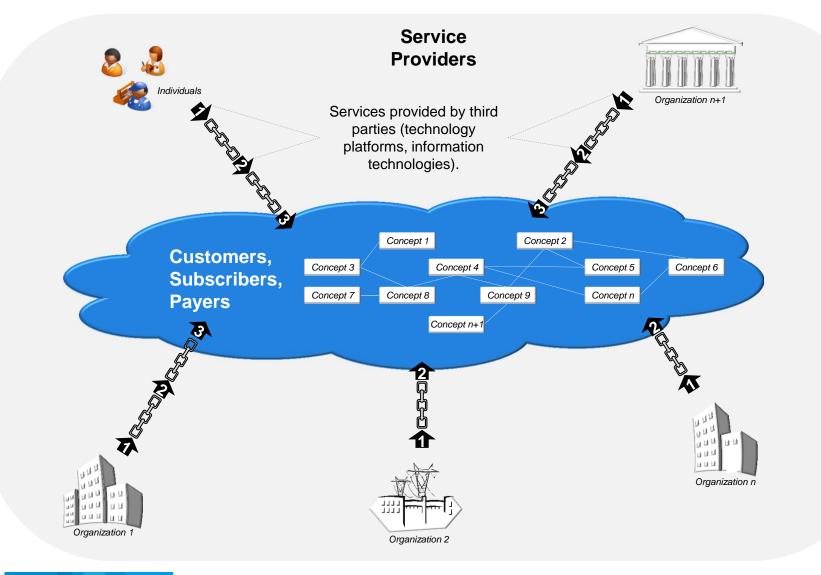
## Illustration of Mobility as a Service Ecosystem



- Customers and their expectations as a starting point.
- ✓ Common understanding about values and concepts (i.e. speaking the same language)
  - Capability to handle interoperable concepts together.
  - Forms "Innovation platform" for new business models and services.
- ✓ Business model formulated by various organizations.
  - Value and service networks formulated by various organizations.
  - Value and service network related governance models.
  - Service driven leadership and management practices.

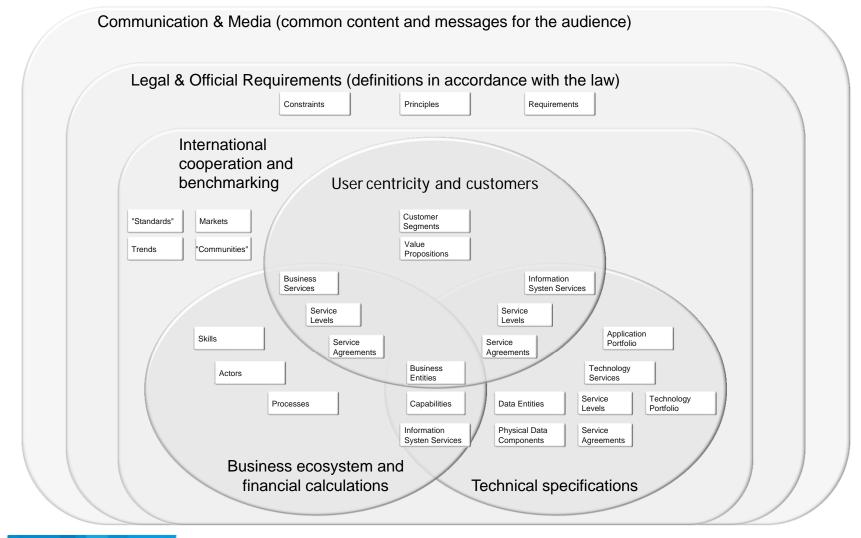
 ✓ Organization related activities (processes, development activities) and resources (personnel, information technology, other technology) behind services.

#### Customer Focused – Customer in the Middle



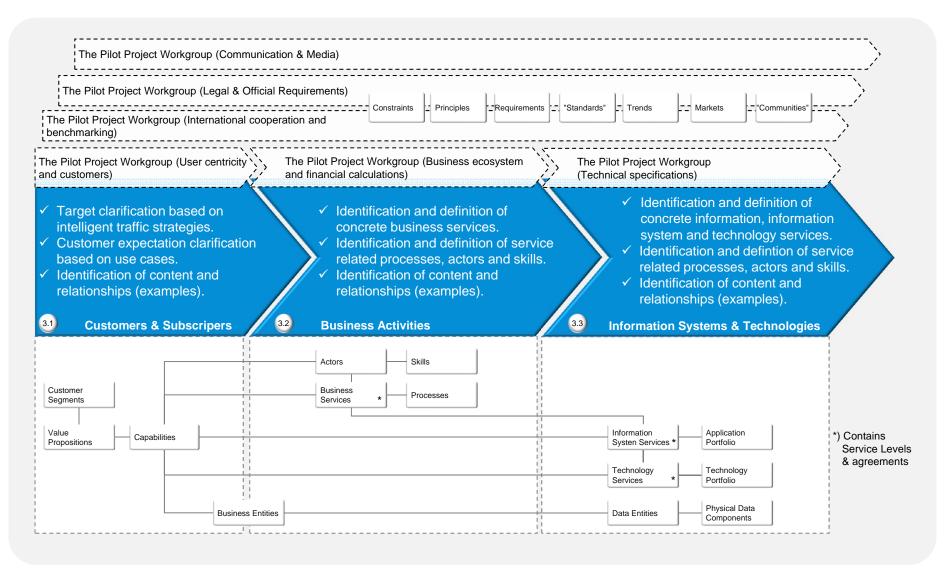


## Content illustration of The Pilot Project Driven by Ministry of Transport and Communication



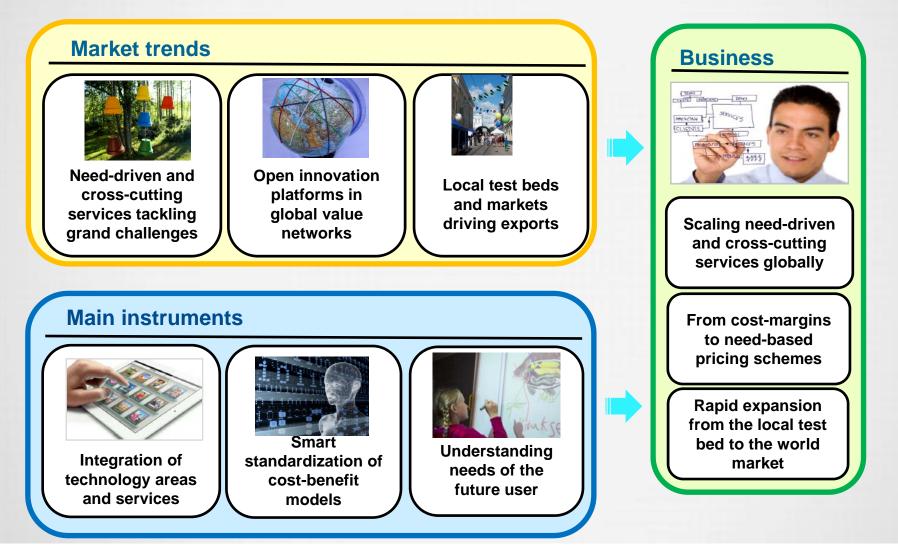
Tekes

# Approach – Definition of MaaS Ecosystem





#### Services and Intangible Assets Creating Value in Tekes Programs



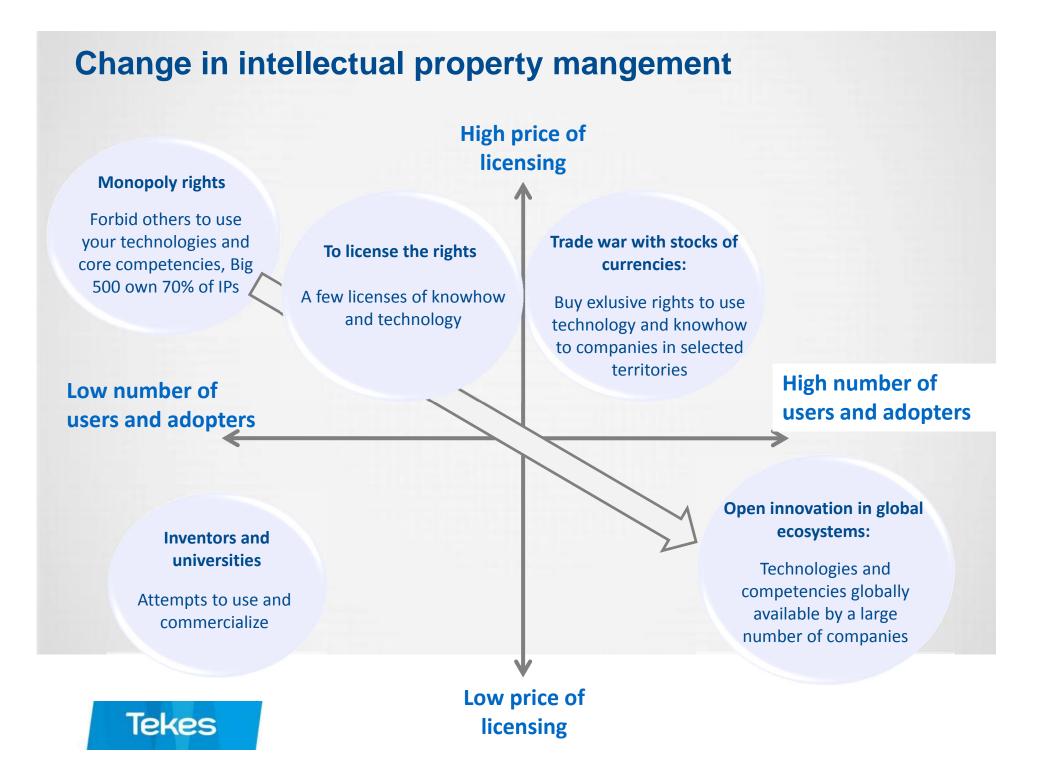


## Change of the global value chains

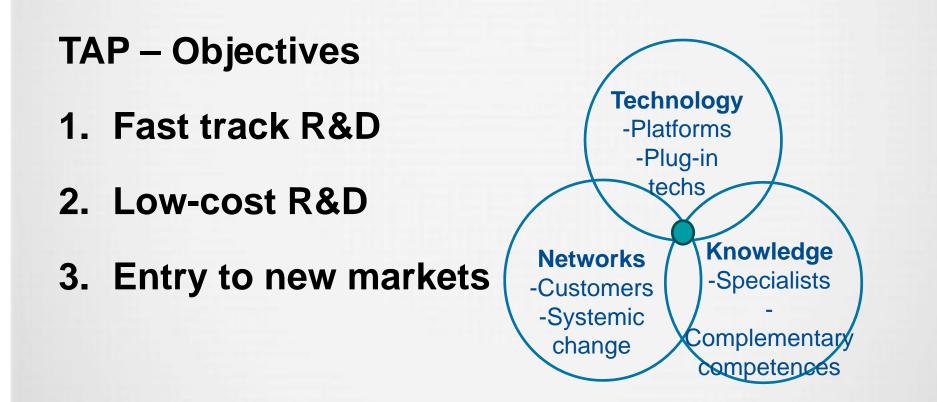
# Case: Tekes Technology and Ecosystem Access Program (TAP)

Raine Hermans, PhD, Adj. Prof. Services and intangibles





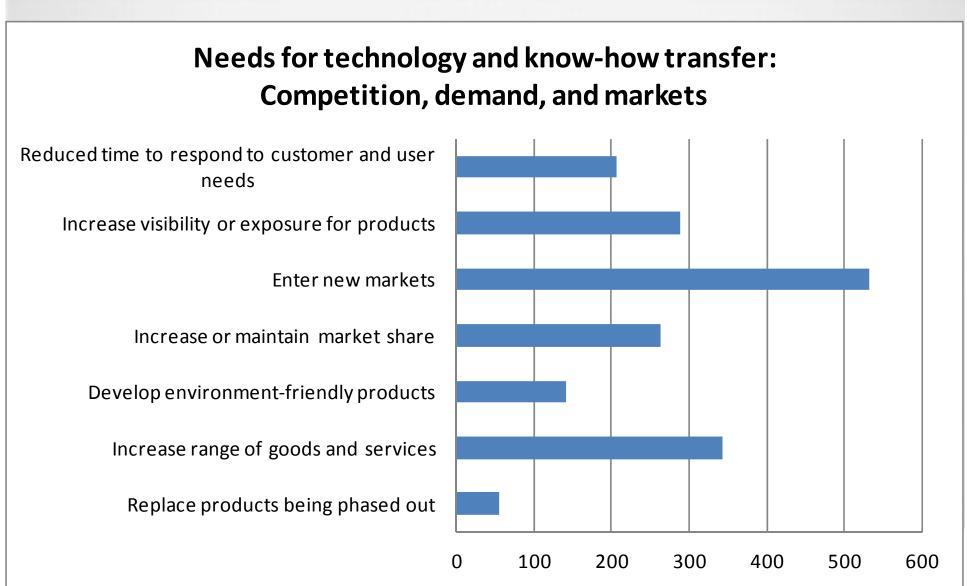
# Technology and Ecosystem Access Program (TAP)



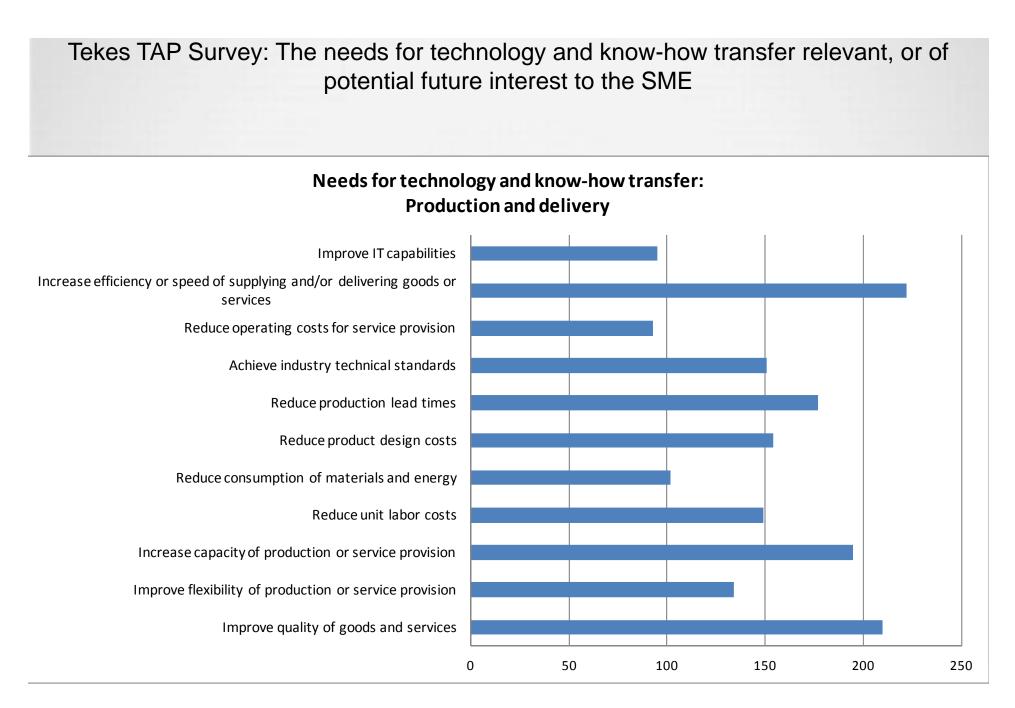


Modified from Edvinsson and Malone 1997

Tekes TAP Survey: The needs for technology and know-how transfer relevant, or of potential future interest to the SME





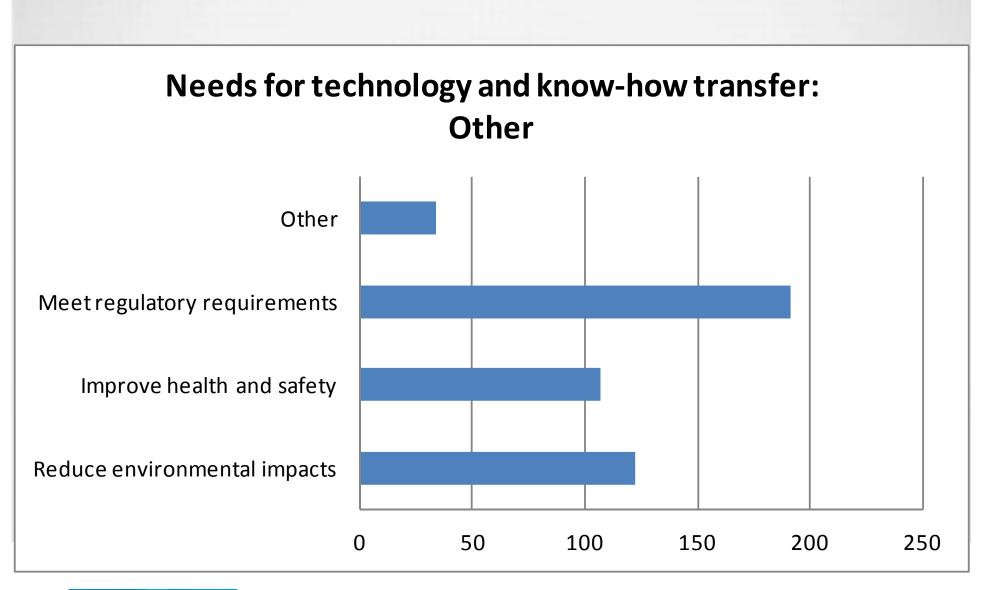




Tekes TAP Survey: The needs for technology and know-how transfer relevant, or of potential future interest to the SME Needs for technology and know-how transfer: Workplace organisation Improve working conditions Develop stronger relationships with customers Increase the ability to adapt to different client demands Increase sharing or transferring of knowledge with other organisations Improve communication and interaction among different business activities 0 50 100 150 200 250 300 350 400

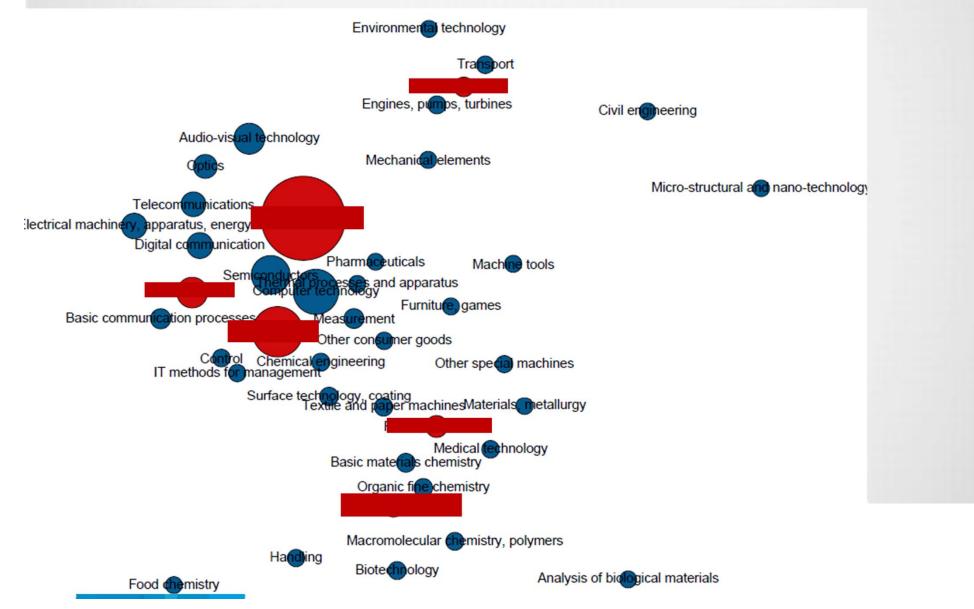


Tekes TAP Survey: The needs for technology and know-how transfer relevant, or of potential future interest to the SME





# Initiative to open innovation platform with some multinationals: year 2005 – IPC patent classes



#### Matching needs and technology supply: SME needs in TAP and patents in open innovation platform TOP 20

