# **Central Finland**

### The Region of Knowledge, Skills, Entrepreneurship and Quality of life

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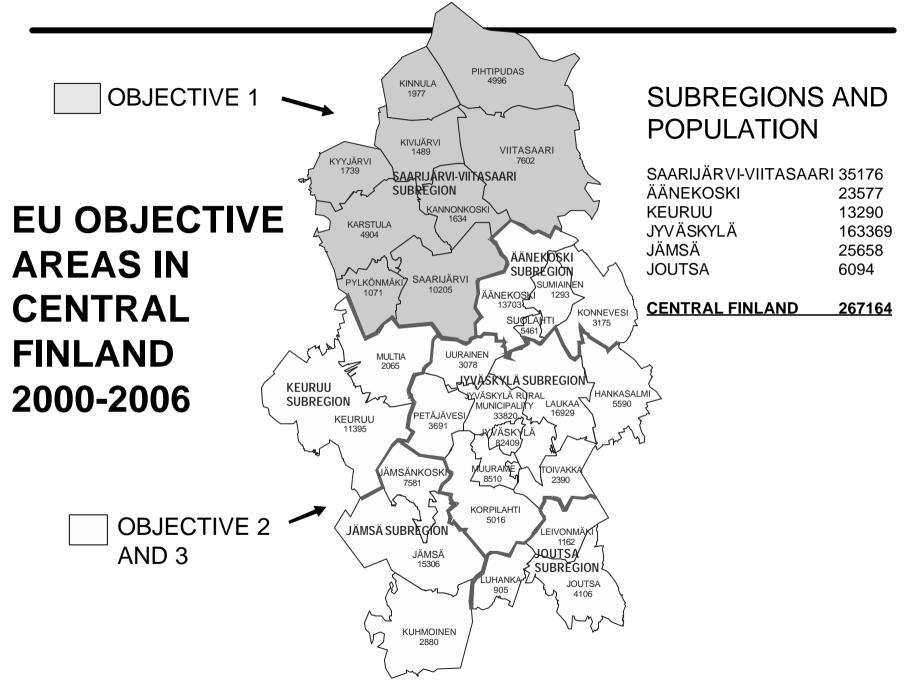
## **Central Finland in figures**

- Population 267 200
- Total area 19 400 km<sup>2</sup>
- Water area 3 100 km<sup>2</sup>
- Mean temperature 2,6 °C
- Rainy days 12/year
- 6 sub-regions
- 30 municipalities



## Regional Profile Share of figures in Finland

- Population 5,1 %
- Enterprises 4,4 %
- GDP 4,2 %
- Unemployed 6,1%
- Employment
  - Agriculture 5,8 %
  - Manufacturing 5,2 %
  - Construction 4,7 %
  - Private Services 3,9 %
  - Public Sector 5,0 %



### **Employment and Enterprises 2005**

Employment		Enterpresis Premises
<ul> <li>Agriculture and Forestry</li> </ul>	6000	434
Mining of Minerals	250	102
Industry	22500	1342
Electricity and Water Maintenance	750	86
Construction	6600	1526
<ul> <li>Trade, hotel and catering</li> </ul>	13500	3155
• Transport, storage, telecommunicat	1285	
<ul> <li>Financing and Insurance</li> </ul>	1100	174
<ul> <li>Services for Enterprises</li> </ul>	10500	2054
Public Service	35900	1643
Others	210	
	104900	11801
		(10769)





## Central Finland knowledge based strengths

- Environment
- Energy
- Engineering and technologies
- E-learning
- Education
- Entrepreneurship

# Taking Charge of Regional Development



#### **Creation of the Development Strategy**

- Goverment budget and regional funding
- Objective 1 Programme
- Objective 2 Programme
- Objective 3 Programme
  - Regional Rural Programme
  - Centre of Expertise Programme
- Community Initiatives
  - Development Themes

#### EU FUNDING OBJECTIVES 1, 2 AND 3 IN CENTRAL FINLAND Knowledge based Priorities and Implementation



EU funding+National public financing (State) All: 75 559 416 €

> 1. Information technology and citizens skills; 14 320 704; 19 %

9. Professionals, tacit knowledge and change in the communities ; 5 227 711; 7 % 2. Partnership of education and work; 13 139 242; 17 %

3. Competitiveness anddevelopment of business lines;4 563 736; 6 %

8. Centre of Expertise and new growing businesses ; 6 634 450; 9 %

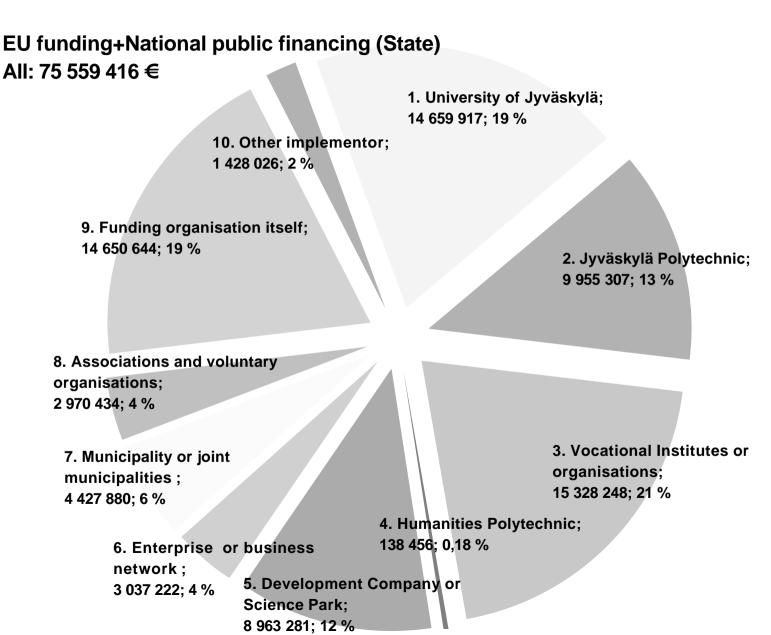
> 7. Culture, Creative services and entrepreneurship ; 2 082 400; 3 %

> > 6. Human resources, equality and empowerment;13 537 255; 18 %

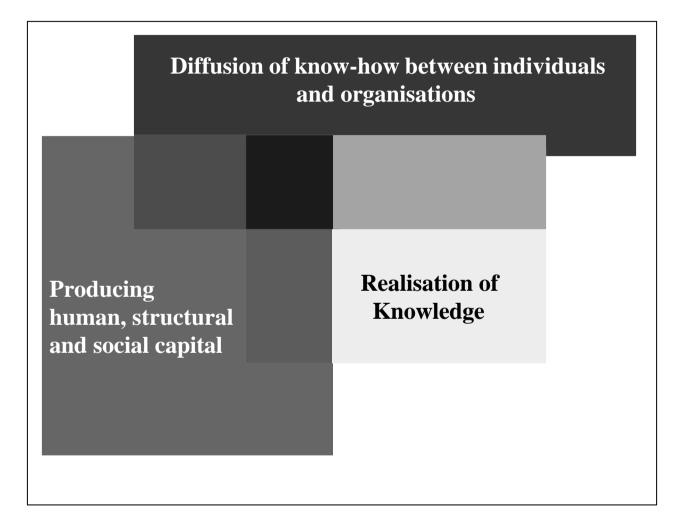
4. Entrepreneurship and SME development; 14 642 556; 19 %

5. Rural area knowledge and new business ideas; 1 411 364; 2 %

#### EU FUNDING OBJECTIVES 1, 2 AND 3 IN CENTRAL FINLAND Knowledge based Priorities and Implementation



### Figure 1 The key processes of learning region

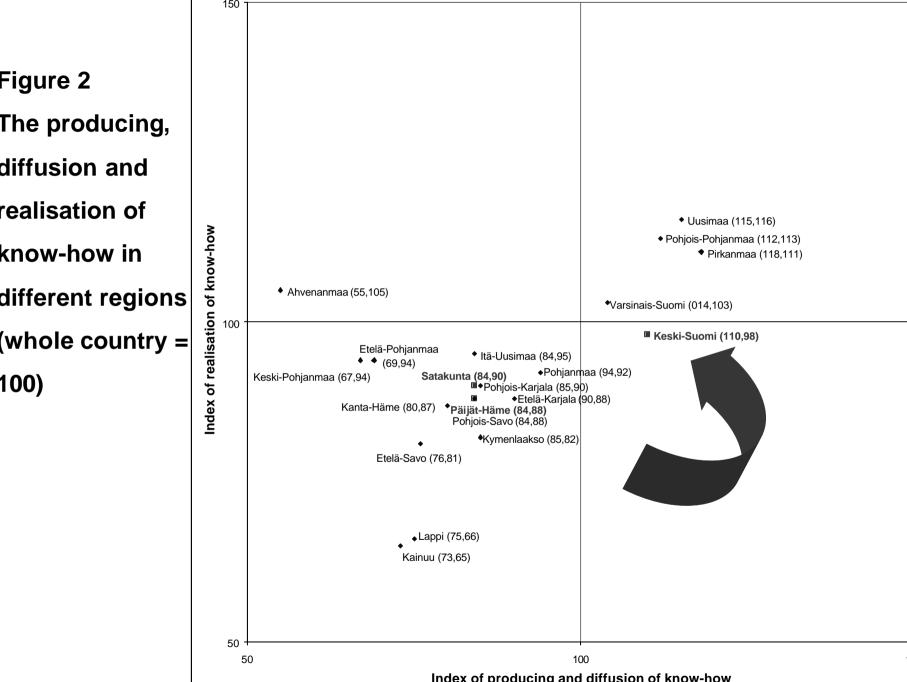


# The determinants of index of producing, diffusion and realisation of know-how (Figure 2)

- Passed degrees in different levels of education (Statistics Finland)
- R&D investments per value added (Statistics Finland)
- Patents per stock of firms in regions (Statistics Finland)
- Employment in clusters related to labour work in regions (ETLA)



- Population density (Statistics Finland)
- Stock of firms (Statistis Finland)
- Value added per stock of firms (Statistics Finland)
- Value added per capita (Statistics Finland)
- Employment rate (Statistics Finland)
- Unemployment rate (Statistics Finland)
- Educational level (Statistics Finland)
- Efficiency of regional economies and production factors (Susiluoto & Loikkanen, 2001)



# Learning region

- •Vision for the Future
- Strategic co-operation
- •Regional economy and educational structure
- •Forecasting the future
- Action plans in the sub-regions
- •Managing changes focusing resources
- •Networking for learning and innovations
- •Life long learning personal paths
- •Evaluation of projects and development

### Important for us



### THE DEVELOPMENT OF EDUCATION FOCUS IN EU-PROGRAMMES

#### **BASED ON PARTNERSHIP**

- curriculum supporting knowledge and growth in enterprises
- joint learning and training programmes for different organisations
- using and developing e-learning
- the development of educational organizations
- strengthening the co-operation (communication) between working life and training organizations
- including the elements of entrepreneurship to all training in different levels of education
- forecasting the needs of labour, skills and education
- understanding entrepreneurship and contributing the positive attitude and motivation

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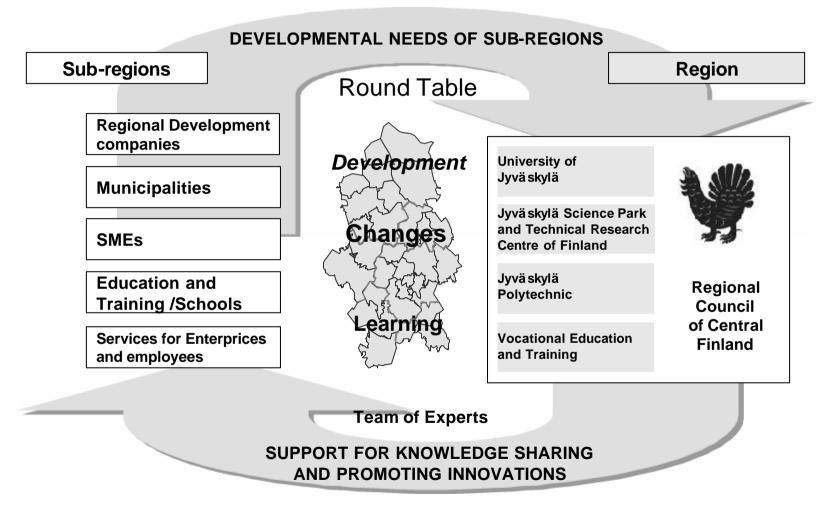
# **Educational organisations**

Organisation	Number of organisations	Students, pupils
Basic education Schools	212	30530
Upper secondary Schools	27	5865
Vocational institutes and Vocational Schools	3 5	Studying for degrees Young 6667 Adults 6285
Jyväskylä Polytecnic Humanites Polytecnic	1 1	7924 130
University of Jyväskylä	1	15000
Adult training	All organisations	37000

Budget for education 500 M€, EU funding 15 M€/year, Employees 10000 in the work of education and training

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# Regional learning and innovation networks in Central Finland



#### THE ELEMENTS OF LEARNING ENVIROMENT IN THE NETWORKS - Education and Training

Schools, institutes, educational organizations

Joint actions in Sub-regional development

Learning in jobs - co-operation with working life

Voluntary learning communities

**E-learning** 

# Discussing about the competence

- Working professionally through results
- Seeing facts and using methods/processes
- Learning by experiences
- Mastering information
- Evaluating and seeing the "whole picture"
- Communicating, networking and co-operating
- Having self-confidence and commitment
- Seeing to the future and having visions

# Idea of the Centre of Expertise Programme

# To utilise top level knowledge and expertise

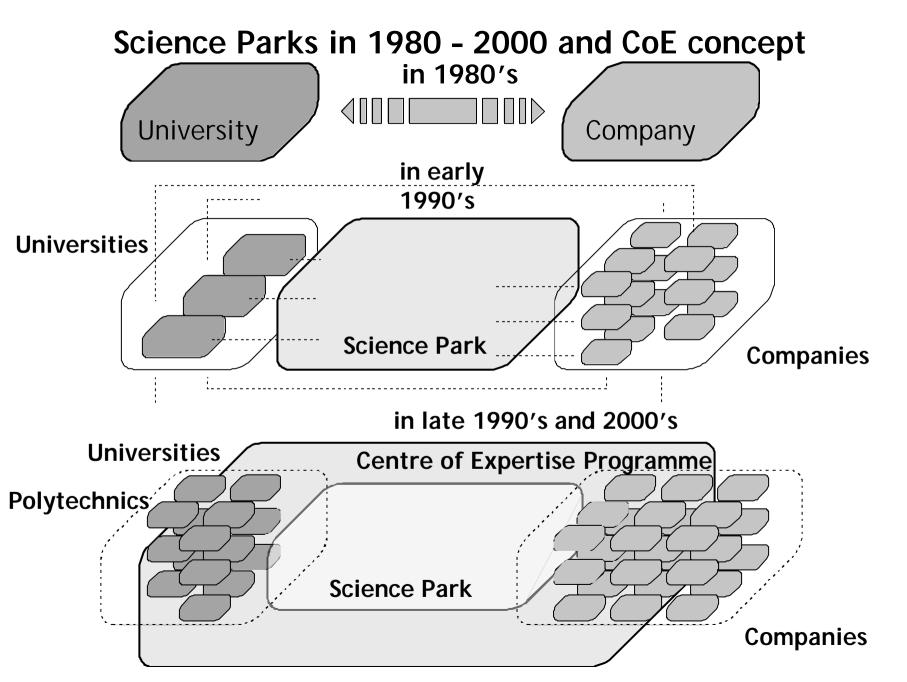
# as a resource for business operations, job creation and regional development



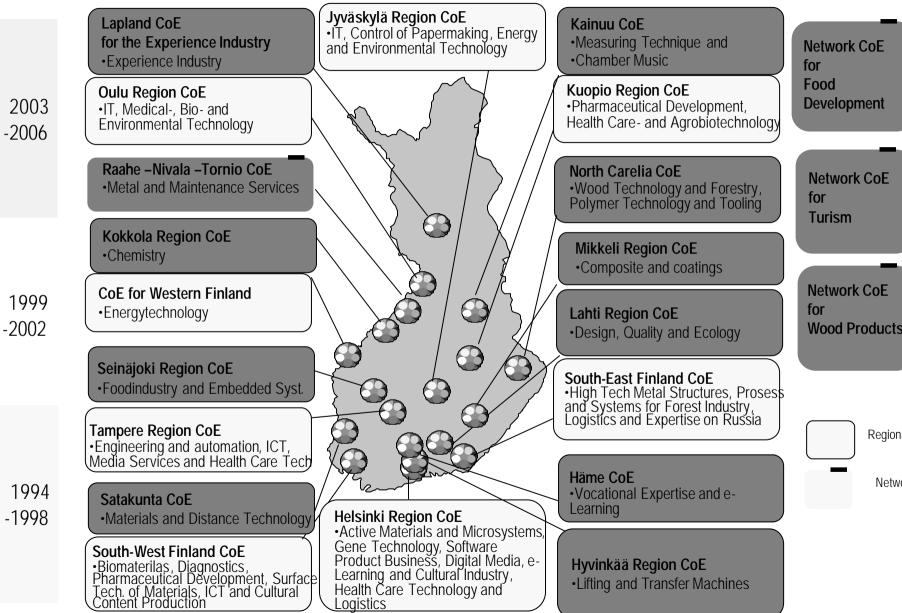
### Key actors of the Finnish innovation system

**Finnish Industry Invest in Finland** Private investments **Investment Ltd** in innovatio Sitra Finpro Investors EU structural funds **Business Angel** for innovation **Finnvera** Association Companies Invention **Regional Councils Research institutes** Key actors **Regional TE-Centres** of the Finnish Universities **Polytechnics** Centres of Expertise novation system Academy of Finland **Technology Centres Tekes Ministry of Education** Other ministries Ministry of Trade and Industry The Science and **Technology Polic** Council Investments in different sectors National public investment in innovation and know-how like environment, health and traffic

Source: Tekes



### Period Centres of Expertise 1994-2006



## Concept for the Centre of Expertise Programme

### Competitive tendering basic funding (catalytic) and status G

- basic funding (catalytic) and status Goals
  critical mass through specialisation and
- critical mass through specialisation and clustering
- focusing on world class excellence
- co-operation
- pooling of resources

### National Co-ordination

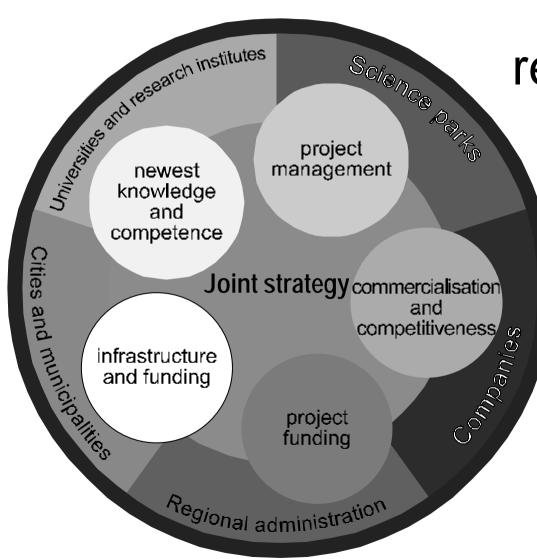
Tools

- Committee
- National Development Project (FISPA)

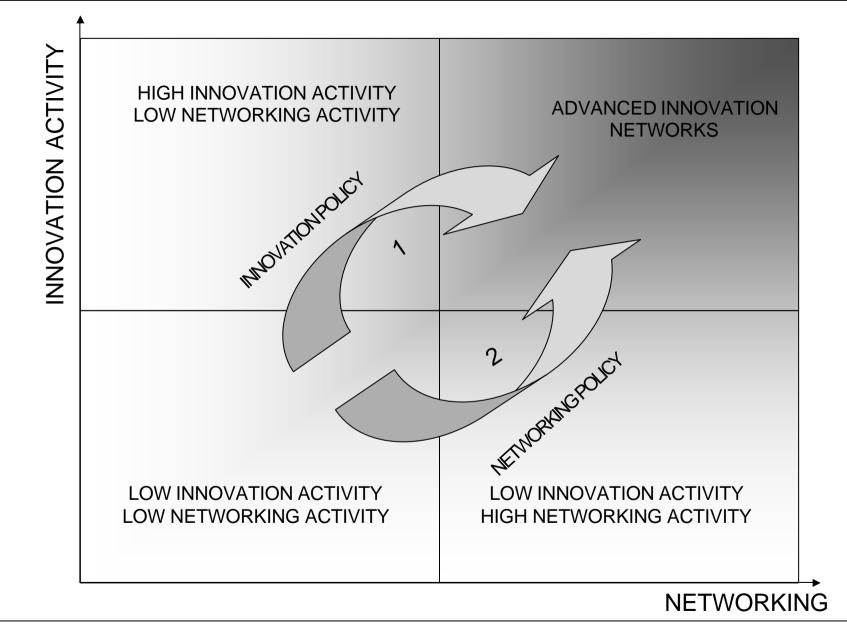
### **22 Regional Programmes**

- •Joint strategy for business development
- •Needs of companies and local innovation system
- •High quality business services
- •Regional co-operation and project implementation
- •Science parks as an operational environment

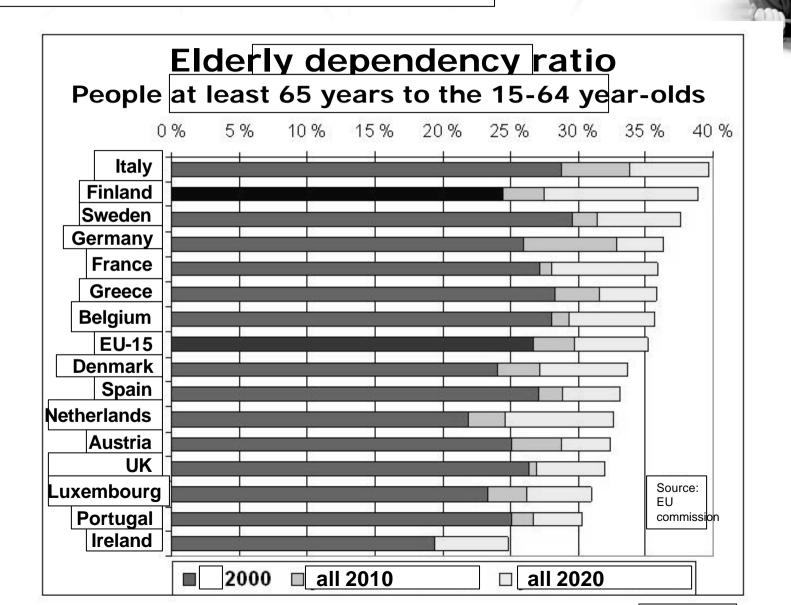




# Partners at regional level



#### Figure 3 Policy interventions supporting innovation networks

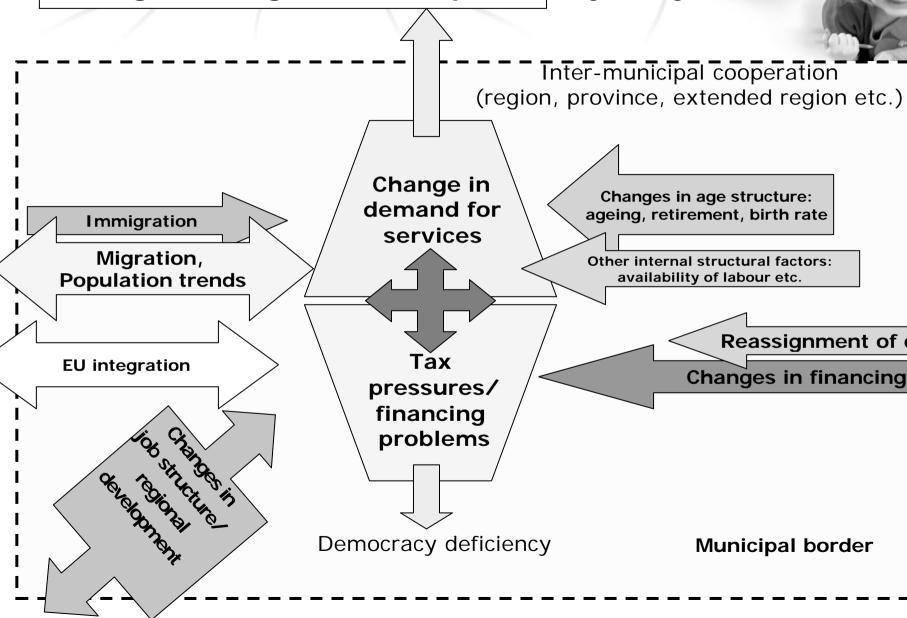


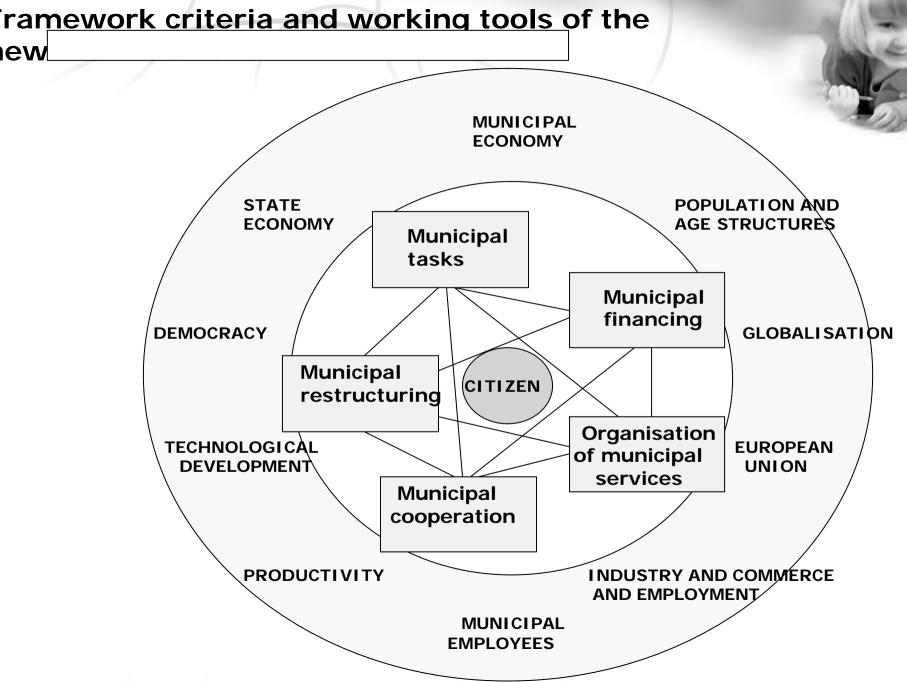
# Effect of population factors on the demand of basic services (Index 2005=100)

				Party	
	Changes % in year			-11	
Expenditure, million €					
2003	2005	2010	2020	2006- 2010	2011- 2020
5368	100	97	95	-0,5	-0
65	100	99	102	-0,1	0
3134	100	93	92	-1,4	-0
528	100	104	92	0,8	-1
1136	100	102	92	0,3	-0
505	100	102	92	0,3	-0
5914	100	104	117	1	
3853	100	104	109	0,6	0
2061	100	105	130	1,7	1
4051	100	111	135	2,1	1
1928	100	99	101	-0,2	0
723	100	116	149	2,9	2
541	100	113	139	2,5	2
859	100	109	128	1,7	1
	million € 2003 5368 65 3134 528 1136 528 1136 505 5914 3853 2061 4051 1928 1928 723 541	Expenditure, million €         2003       2005         5368       100         65       100         3134       100         528       100         1136       100         505       100         505       100         505       100         505       100         505       100         505       100         505       100         505       100         505       100         505       100         100       100         101       100         102       100         103       100         102       100         103       100         104       100         105       100         105       100         541       100	Expenditure, million €       Z003       Z005       Z010         2003       2005       2010         5368       100       97         65       100       99         3134       100       93         528       100       104         1136       100       102         505       100       102         505       100       104         3853       100       104         2061       100       105         4051       100       99         723       100       116         541       100       113	Expenditure, million €         Image: Constraint of the symbol         2003         2005         2010         2020           5368         100         97         95         95         95         95           65         100         99         102         3134         100         93         92           528         100         104         92         92         92         92           505         100         102         92         92         92         92           505         100         102         92         92         92         92         92           505         100         102         93         130         93         93         93	Expenditure, million €ZZZ20032005201020202006- 201053681009795-0,56510099102-0,131341009392-1,4528100104920,81136100102920,3505100102920,3505100104117138531001041090,620611001051301,740511001111352,1192810099101-0,27231001161492,95411001131392,5

Source: Ministry of Socia

#### Challenges facing the municipalities by the year 2015





### Portfolio of projects: **Development of businesses**

Product development New companies Commercialisation, business expertise Other business orientated training

#### Strengthening know-how

Special expertise of research- and education units Structure of education (professors etc.)

### **Development of innovation systems**

Cooperation and cluster based actions Research and feasibility studies Common training and seminars R&D -services Databases and other information services Development of CoE -functions

## Selection criteria

Knowledge and know-how

- connections to available top knowledge (research, education, production)
- usability of top knowledge from a business point of view
- international scope
- regional infrastructure supporting the programme Effectiveness
- effects on existing business operations and the transformation of knowledge into an actual product
- effects on new business operations
- effects on employment and regional development
- effects on human resources
- effects on innovation structures
- effects on networking and clusters
- effects on the attractiveness of the region
- **Organisation and commitment**
- operative organisation and administration
- financial plan and its volume
- operative resources
- regional commitment Innovation ability
- new operative models and projects