



Värmland Smart Specialisation

Anders Olsson, Manager of Smart Specialisation

OECD 14-Region Study 2004 - 2007

Higher Education and the Regions: Globally Competitive, Locally Engaged

Strengthen the role of Karlstad University.

Contract - the region and the university.

Strengthen link between clusters and research.

Develop a few internationally strong research areas.



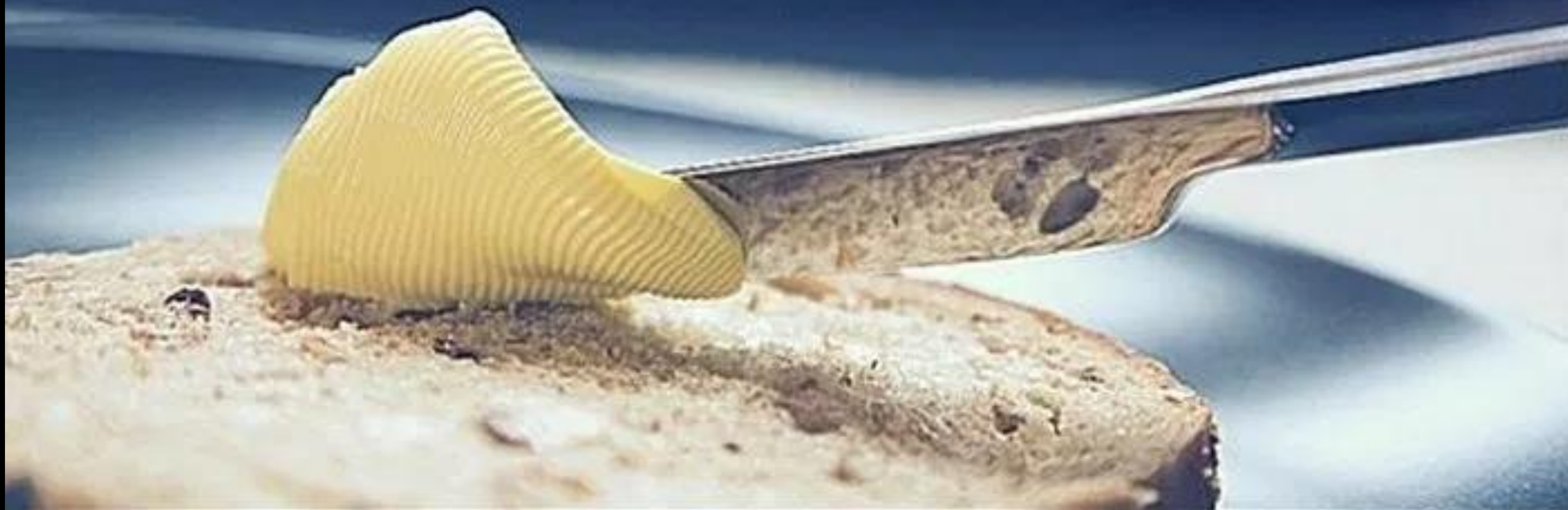
15
JUN
2006

Financial crisis 2008



Spread

TOO THIN?



A large, diverse crowd of people of various ages and ethnicities, all smiling and cheering with their hands raised in the air. The scene is filled with energy and excitement. The text 'EDP Entrepreneurial Discovery Process' is overlaid in the center of the image.

EDP Entrepreneurial Discovery Process

Smart specialisation is a modern innovation and research strategy based on two main components.

1. An honest evaluation of the region's strengths and weaknesses.
2. A process that is conducted in close cooperation with regional stakeholders.

What is smart specialisation?

The objective is smart, sustainable and inclusive growth.

It will be achieved through regional mobilization behind the most promising areas of innovation, entrepreneurship and growth and by taking care of skills and other resources.

The selected areas should have the potential to be competitive.

In order for the strategy to be long-term and to be able to choose the right areas / specializations, take into account the trends that exist.

Smart specialisation is characterised of

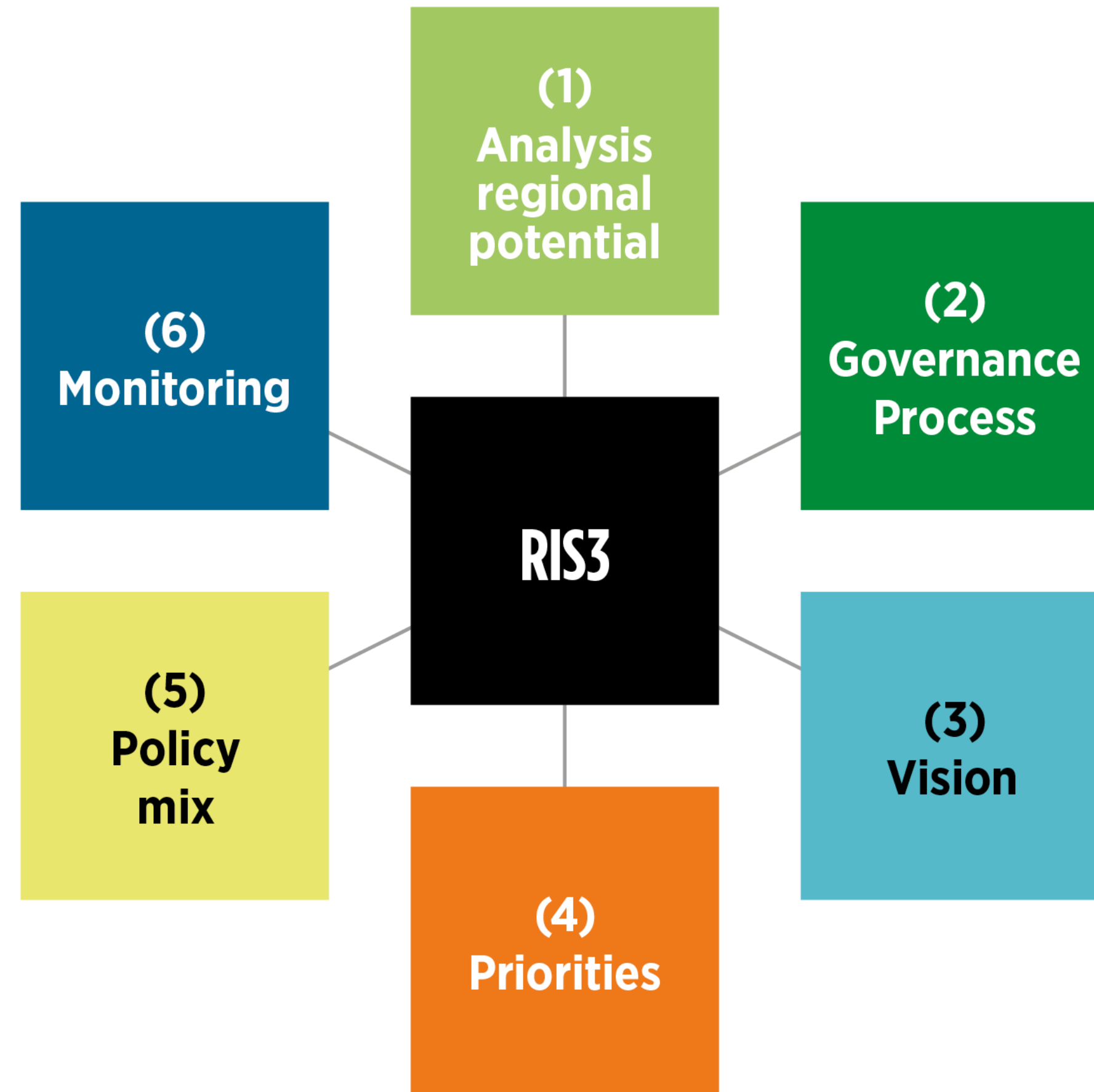
- a place-based approach
- the identification of strategic areas for intervention
- both the analysis of the strengths and potential of the economy
- and on an Entrepreneurial Discovery Process (EDP) with wide stakeholder involvement.
- a outward-looking and embraces a broad view of innovation including but certainly not limited to technology-driven approaches,
- it is supported by effective monitoring mechanisms.

A good recipe for smart specialization!

- Involve people from different parts of society
- Starting from large and strong industries
- Add something new, for example from other industries or from research
- Formulate a vision for the new area
- Mobilize around the vision
- Do a lot of efforts to support development in the new area in different ways
- Always look for new opportunities related to the new area

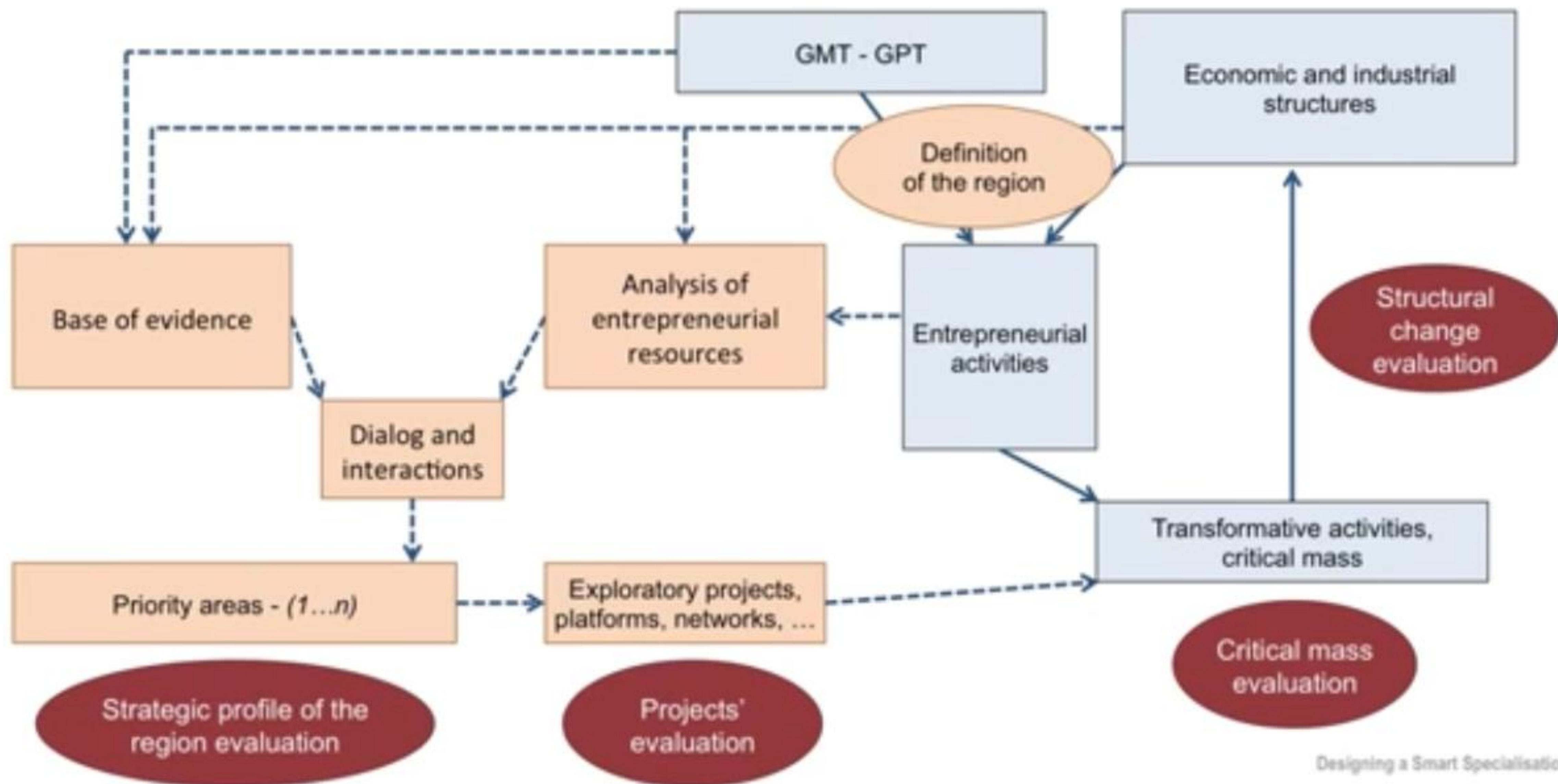
Common recipes to fail with smart specialization

- Focus on existing industries.
- Focus on major thematic areas such as biotechnology, environment, health, ICT ...
- Focus on strong research environments without linking to business
- Recycle existing cluster programs



RIS3-process 6 steps

Monitoring and evaluation concept







SMART SPECIALISATION PLATFORM

European Commission / Smart Specialisation Platform / [Home](#)

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[S3 Platform](#)

[Sections](#)

[Tools](#)

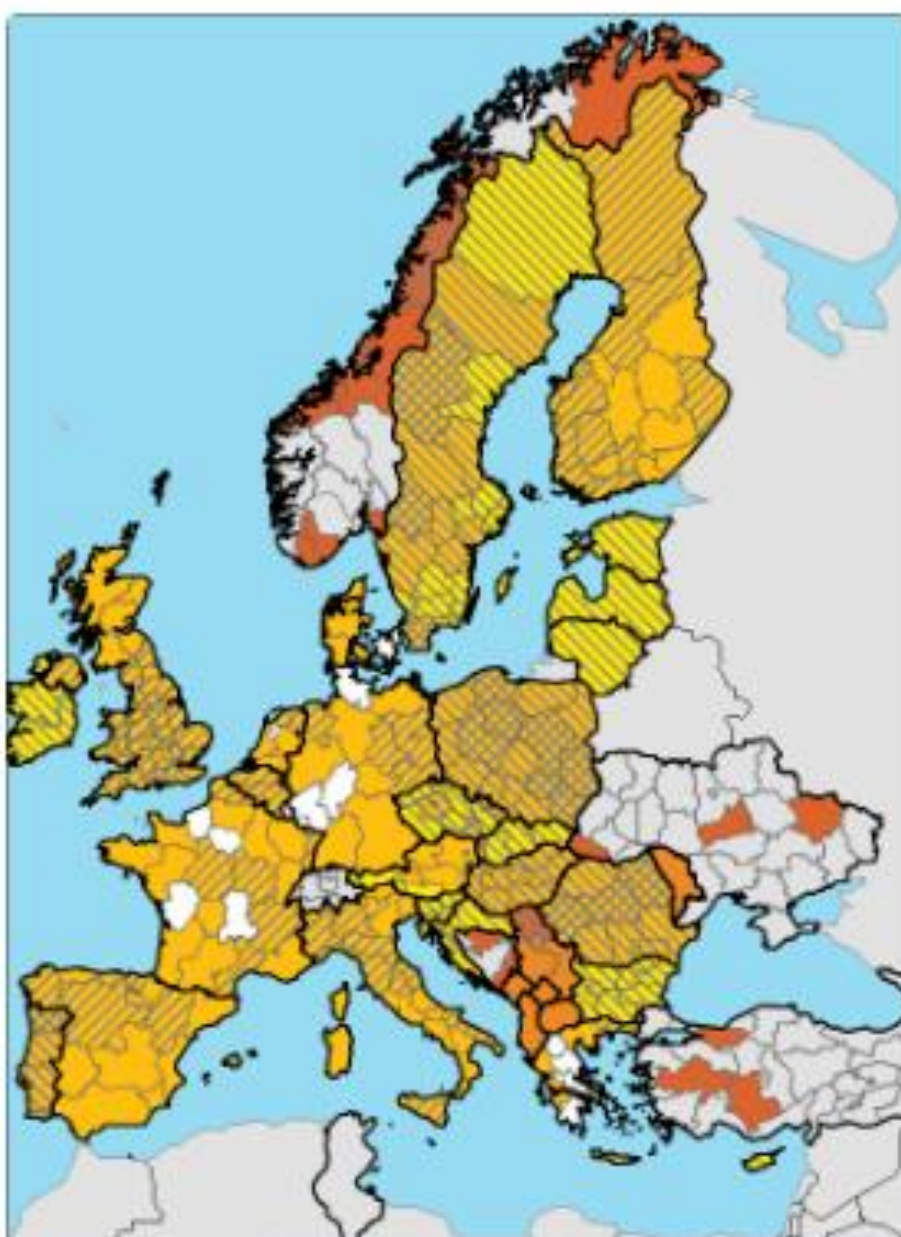
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SAVE THE DATE!

Three thematic platforms and 28 interregional partnerships together in the S3 Thematic Platforms Conference and Meetings, Bilbao (ES) 27-28 November



What we can do for you

The S3 Platform provides advice to EU countries and regions for the design and implementation of their Smart Specialisation Strategy (S3):

- Provide guidance material and good practice examples
- Inform strategy formation and policy-making
- Facilitate peer-reviews and mutual learning
- Support access to relevant data
- Train policy-makers



Thematic
Platforms

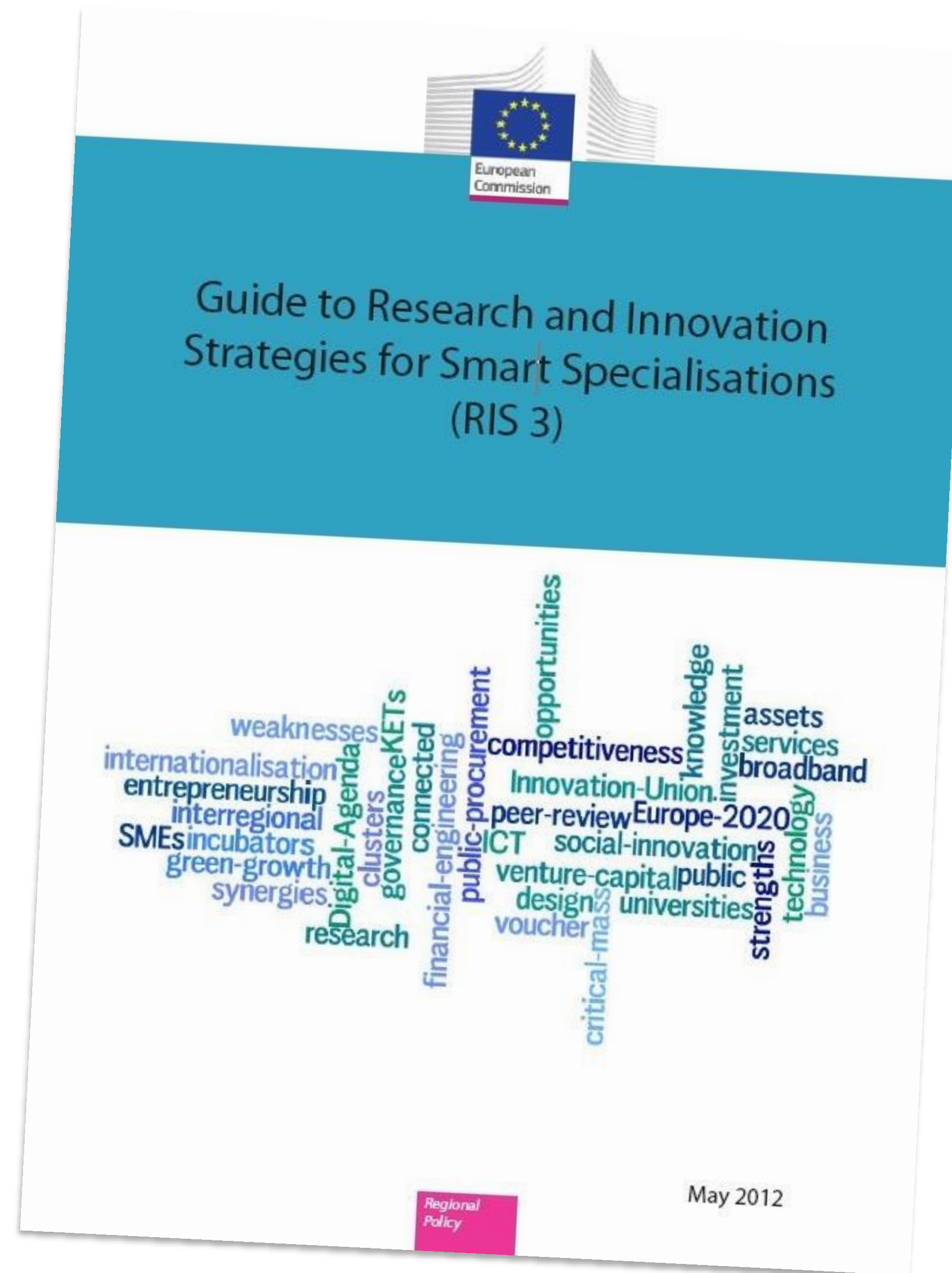


Guidance



Targeted
Support

The RIS3 Guide

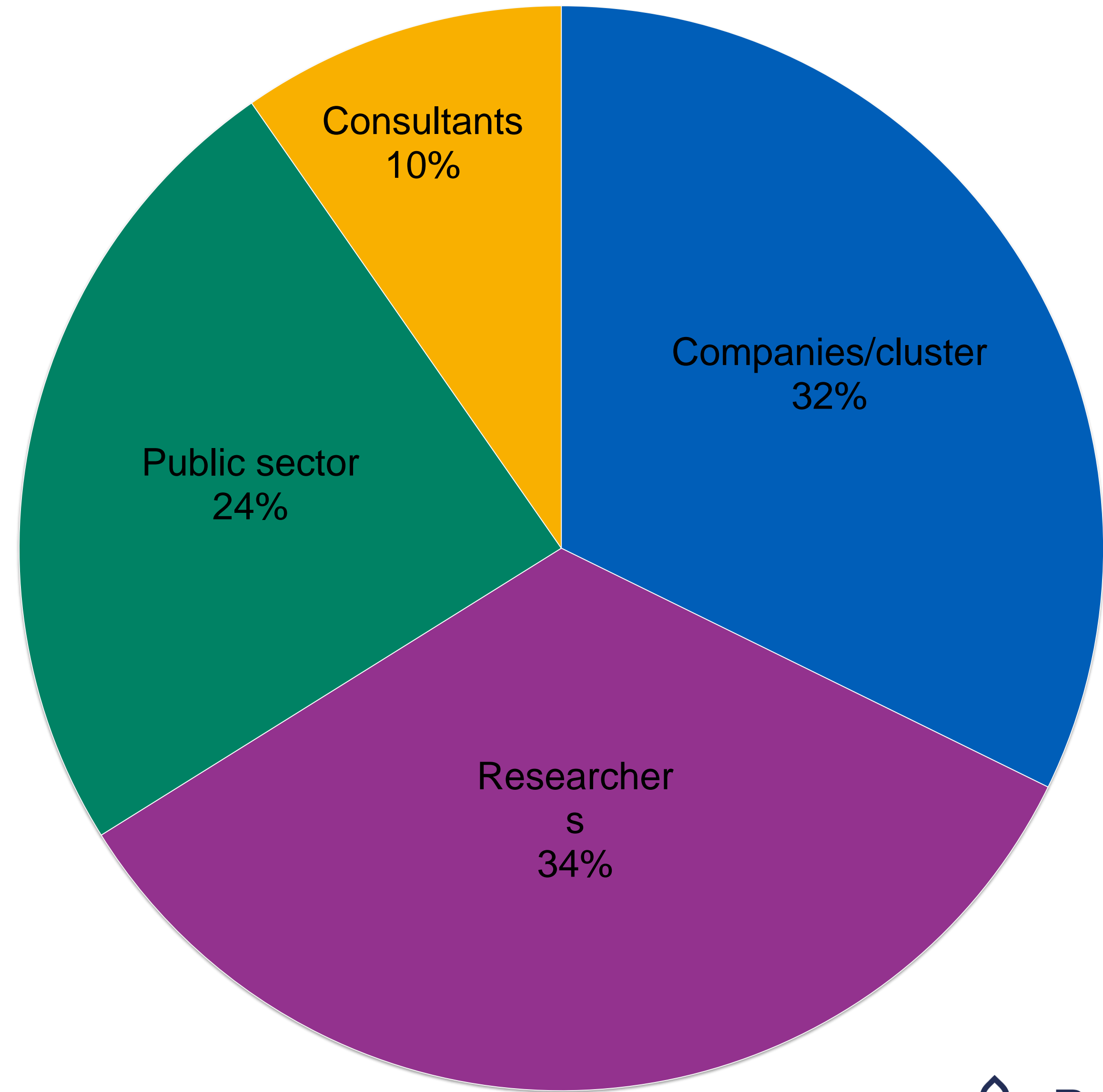




The Värmland R&I Smart Specialisation Strategy

Anders Olsson, Manager of Smart Specialisation

Participants in the RIS3 planning process



Five working groups

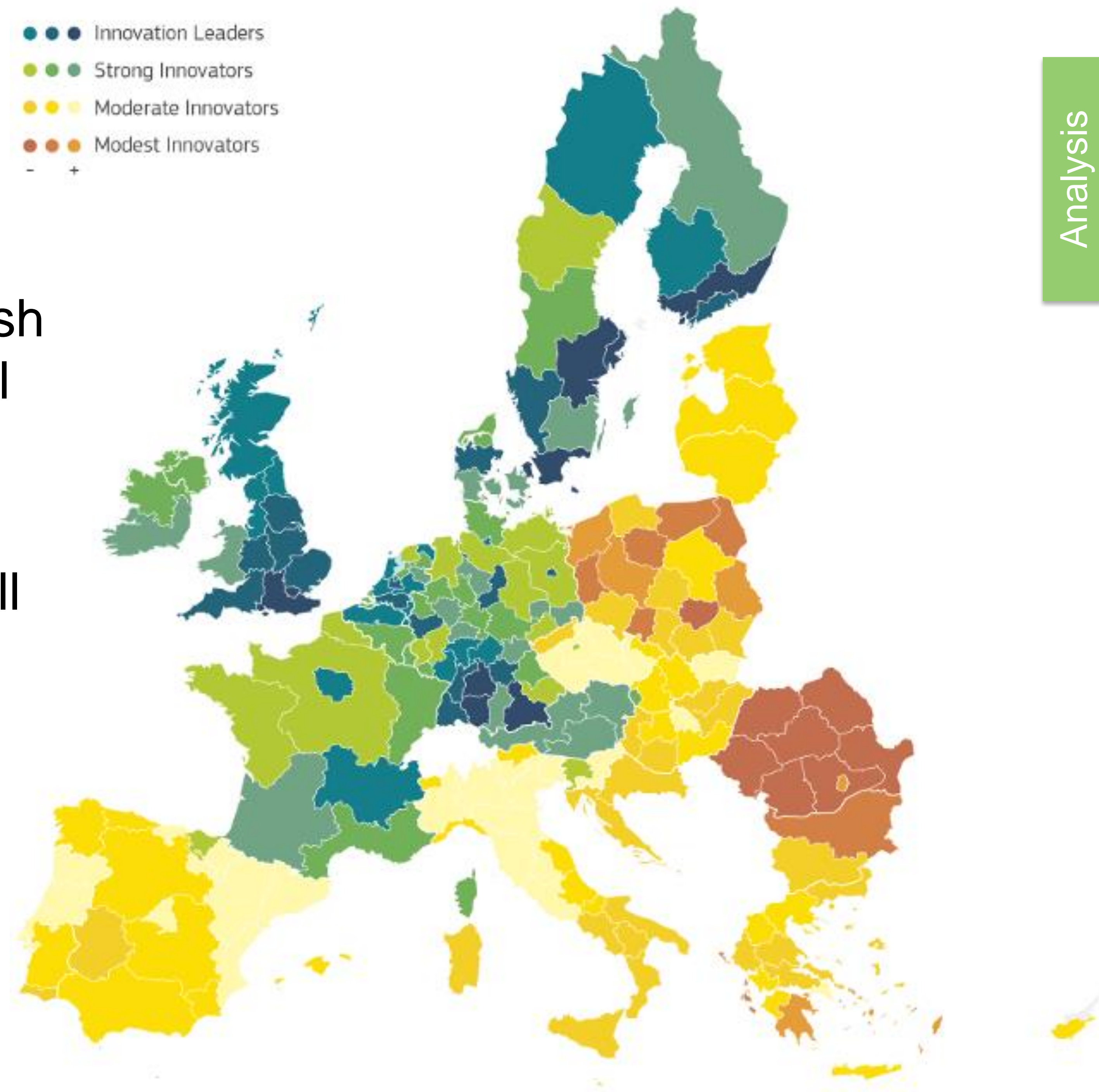
40% women
60% men

In total 60 persons

Innovation in Värmland

Innovation strength is low in a Swedish context as Sweden is an international leader in the area.

The region's innovation system is well developed but the outputs are (still) comparatively weak.



"Very strong" in the paper, pulp and packaging and tissue.

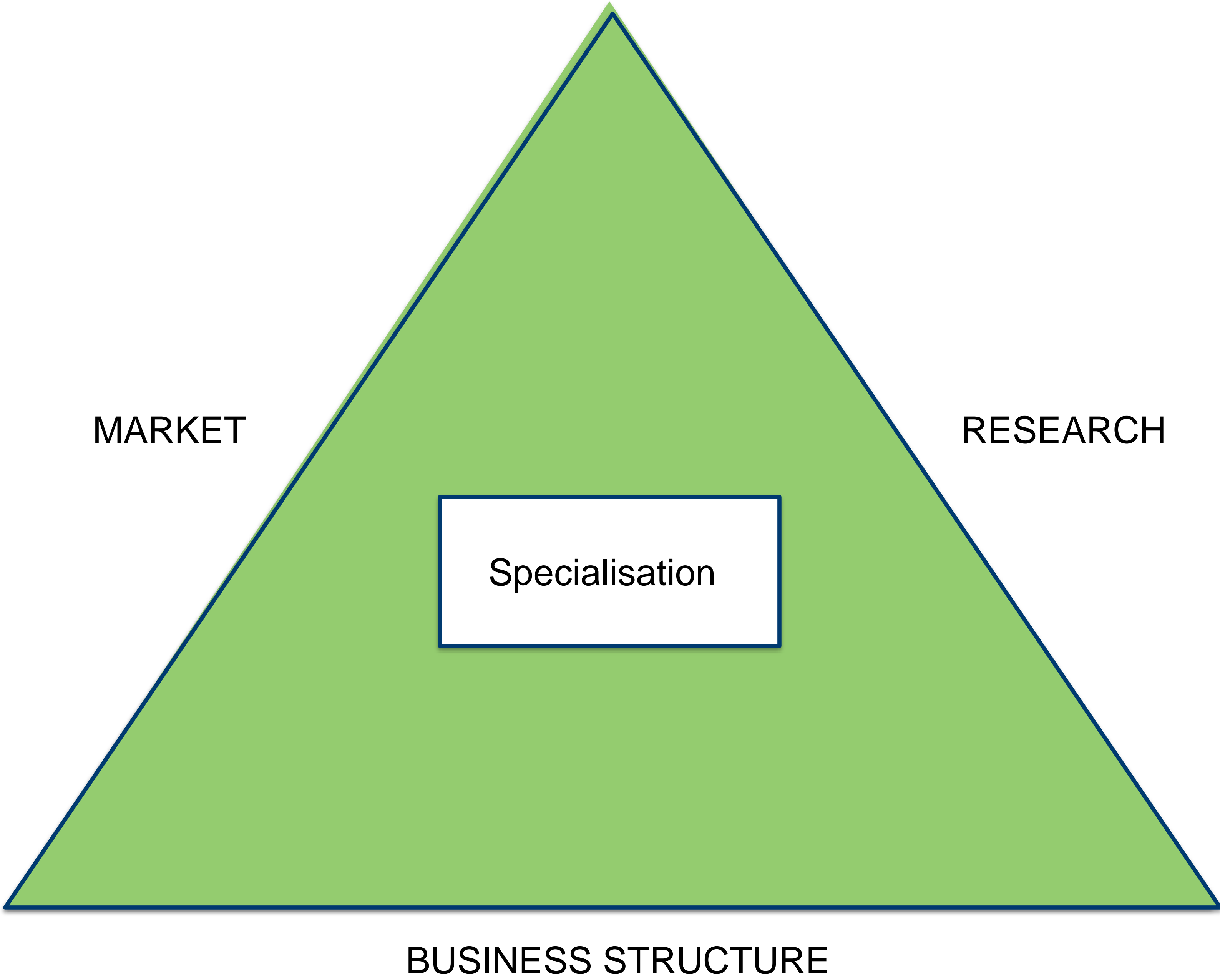
– Have no equivalent elsewhere in Europe.

Steel and engineering. Promising related to environmental technology.

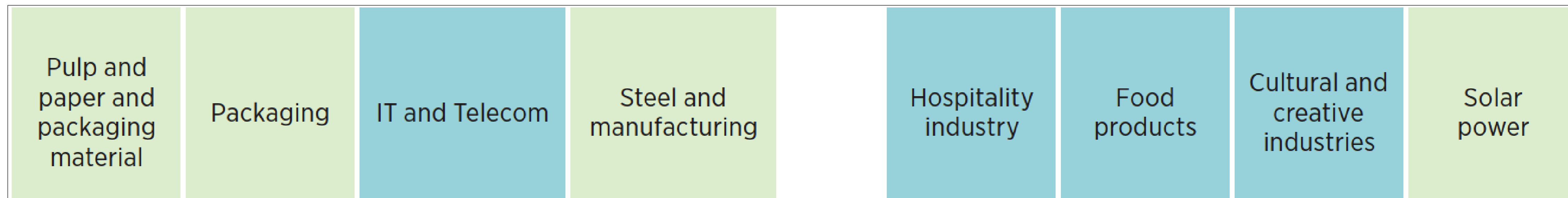
Solar power has great potential for development. Must find a niche to tackle international competition.

IT has an interesting cutting edge related to health and service innovation.

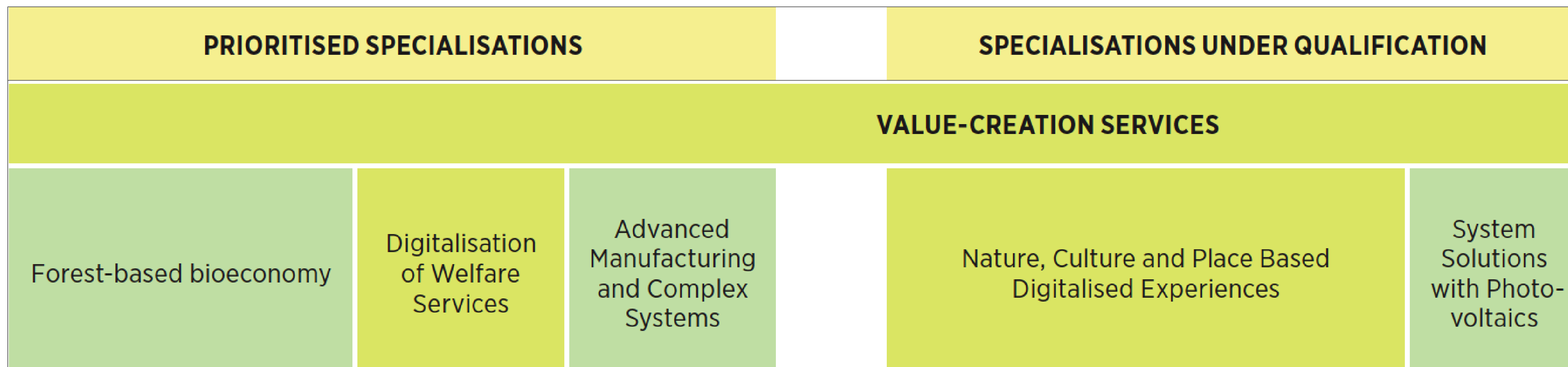




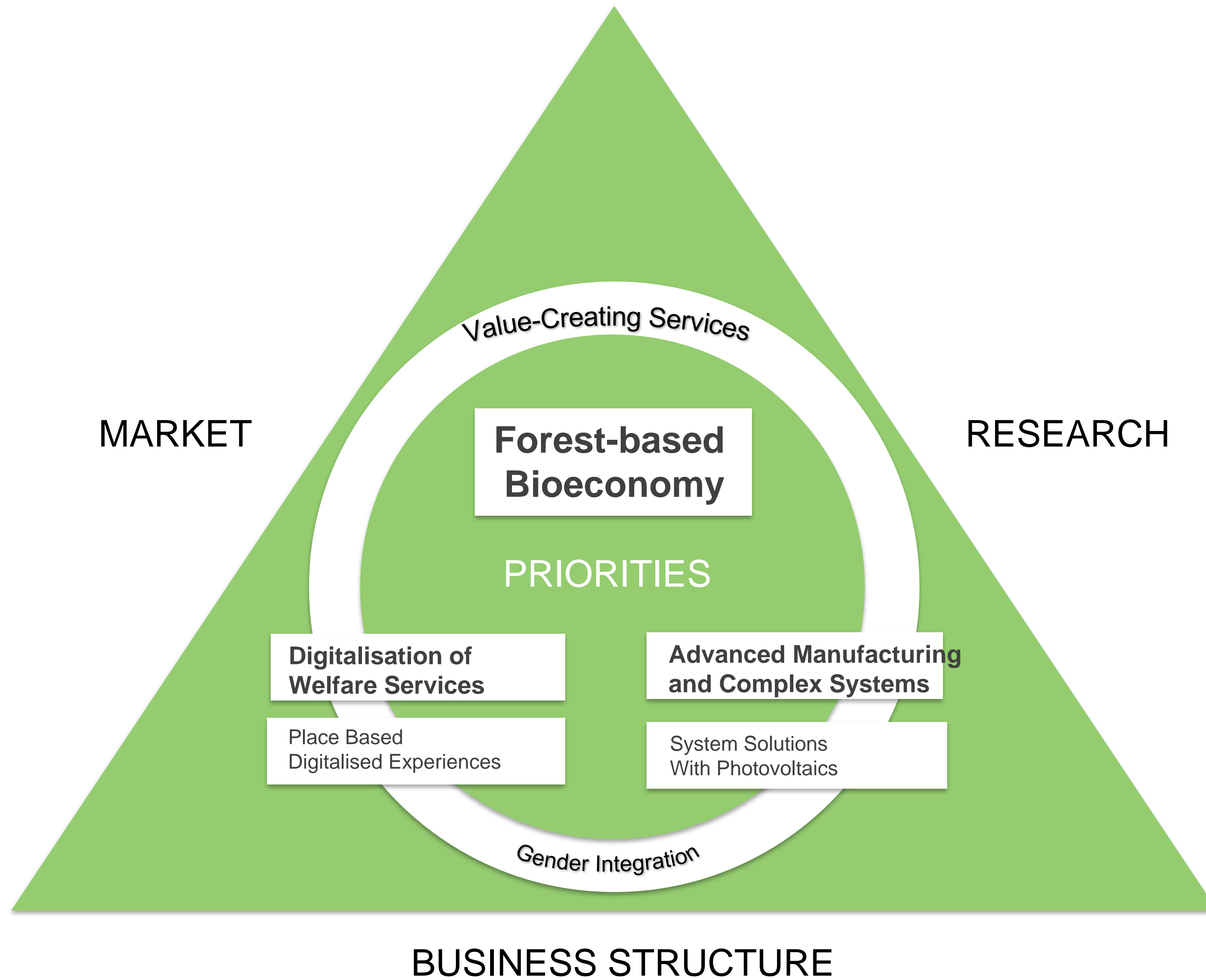
Strong areas



Smart specialisation



	FOREST-BASED BIOECONOMY	DIGITALISATION OF WELFARE SERVICES	ADVANCED MANUFACTURING AND COMPLEX SYSTEMS	PLACE BASED DIGITALISED EXPERINCES	SYSTEMS SOLUTIONS WITH PHOTOVOLTAICS
CRITICAL MASS	4 000 anställda i pappers- och massabranschen.	2 000 anställda inom IT	> 10 000 anställda inom stål- och verkstadsindustrin	3 000 anställda inom besöksnäringen.	Okänt antal anställda. Ca 50 företag är medlemmar i GEC
INNOVATIVENESS	Åtta forskargrupper på Kau. Ett institu Två större privata forskningscentra. Fossilfri barriär.	Tre forskargrupper, varav en excellent miljö på Kau. Två institut.	En stark forskargrupp. En centrumbildning. En universitetsfilial. Minst ett större privat forskningscenter.	Forskare på Kau, framförallt inom en institutiion (Geomedia)	Två forskargrupper, en excellent och en stark.
REGIONAL ORGANISATION	Värmlandskluster	Värmlandskluster	Värmlandskluster	Klusterorganisation men ej ett Värmlandskluster	Klusterorganisation men ej ett Värmlandskluster
INTERNATIONALISATION	Företag agerar på världsmarkanden. Visst internationellt samarbete för klusterorganisationen	Från norska marknaden för så väl klustret som företagen.	Företag agerar på världsmarkanden. Visst internationellt samarbete för klusterorganisationen	Företag agerar på närmarkanden i Nordeuropa. Samarbete med Norge för klusterorganisationen	Norgesamarbete. Export till Afrika.
MEETS SOCIETAL CHALLENGES	Bioeconomy, food security, forestry, clean and efficient energy, resource efficiency.	Health, demographic change and wellbeing Inclusive Secure societies - protecting freedom and security of Europe and its citizens.	Secure, clean and efficient energy, but oil...	Utvecklar turism med tanke på fler av samhällsutmaningarna.	Secure, clean and efficient energy;
ENTREPRENEURIAL DYNAMIC	Vinnväxt - entreprenöriell upptäckande process.	Tillväxt i antal företag. Söker affärsmöjligheter via tematiska satsningar och norgemarknaden.	Sökande efter nya konstellationer för nya värdeerbjudanden mha kompetenskartläggningar.	Hög tillväxt i antal företag.	Stort antal innovationsprojekt. Nya företag i ung bransch.
GENDER	Mansdominanta. Har jobbat med jämställdhet.	Vård och omsorg har många anställda kvinnor Compare jobbar med jämställdhet.	Mansdominanta. Har jobbat med jämställdhet.	Många turismföretag attraktiva för kvinnor.	Mansdominerat. Ungt har inte hunnit jobba med jämställdhet.



Why gender integration?

- Gender mixed groups result in higher firm performance and higher effectiveness.
- A diversity of competences provides bigger interfaces with different parts of society.
- An equal representation of women and men increase the rate of innovation.

Gender integration

Specific challenges and actions from specialisation:

- Digitization of welfare services.
- How to encode the male-dominated manufacturing industry?
- Gender research: studying and intervening.

SMART SPECIALISATION À LA VÄRMLAND

01

Värmland's Research and
Innovation Strategy for

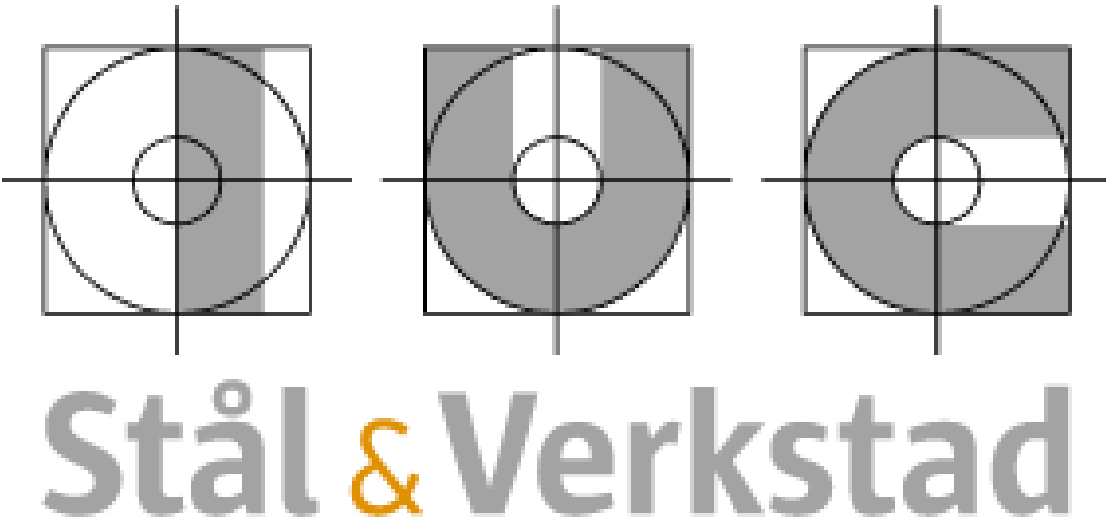
*Smart
Specialisation
2015–2020*



Smart ways to organise and develop existing regional assets in order to create value for users and society.

Specializations are both about what we are good at, and what we're good for.

Clusters as engines in the Entrepreneurial Discovery Process



VINNÄXT

Peak Innovation
TOURISM SPORTS OUTDOOR

TRIPLE
steelix
Industrial Region

Robotdalen

PAPER
PROVINCE

DIGITALWELL
ARENA

smart
textiles

KLIMATLEDANDE
PROCESSINDUSTRI

URBANMAG
INNOVATING UTILITY SYSTEMS

ProcessIT
Innovations

FRAMTIDENS
BIORAFFINADERI

fiber optic valley

GEO LIFE
REGION

UPPSALA BIO

Automation
Region

VISUAL
SWEDEN

Agtech 2030

SMART
HOUSING
SMÅLAND

Two out of
seventeen
Vinnväxt
winners from
Värmland

10 years of
funding

For Region Värmland it's important that Karlstad University is internationally strong, with excellent research and with a strong sense of the place.



Karlstad University

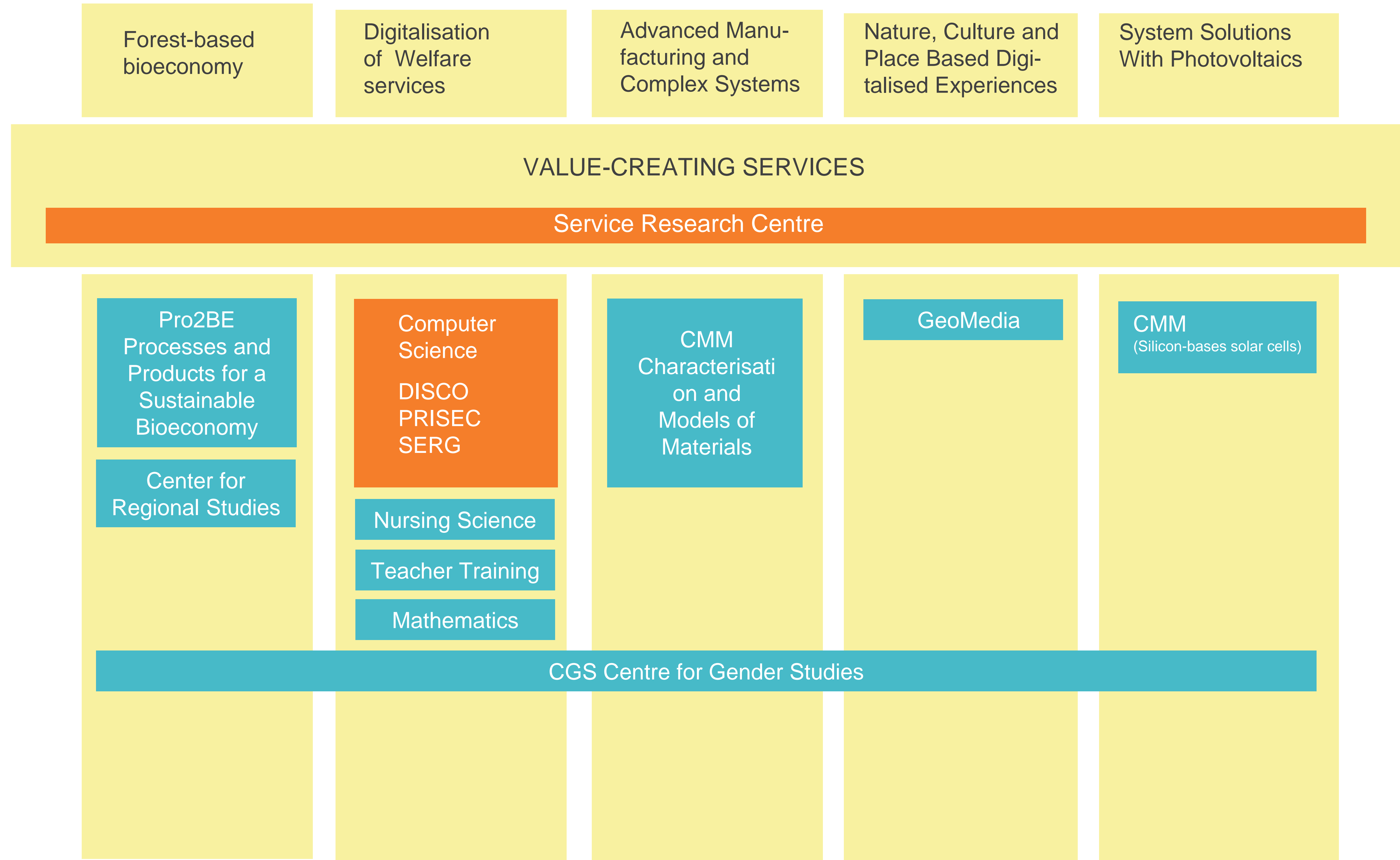
a partner in RIS3





The Academy for Smart Specialisation

SPECIALISATION WITH CLUSTER ORGANISATIONS AND INNOVATION PLATTFORMS





**AKADEMIN FÖR
SMART SPECIALISERING**



Forest based bioeconomy

**– the highest prioritised specialisation of
Värmland's Regional Smart Specialisation**

Progress last five years

- Big investments in the industry
- Good growth and great profitability
- 2 Vinnväxt vinnare up and running
- Forest industry research at Karlstad University gathered in one research group
- RISE Bioeconomy and Servicelabs
- Innovation Park established
- Värmland EU Office in Brussels – mission Smart Specialisation
- Business Värmland Etableringsfrämjare
- Inkubator Sting Bioeconomy
- Testbeds
- Gender integration
- 70 million Canada dollar investments in Forest based Bioeconomy



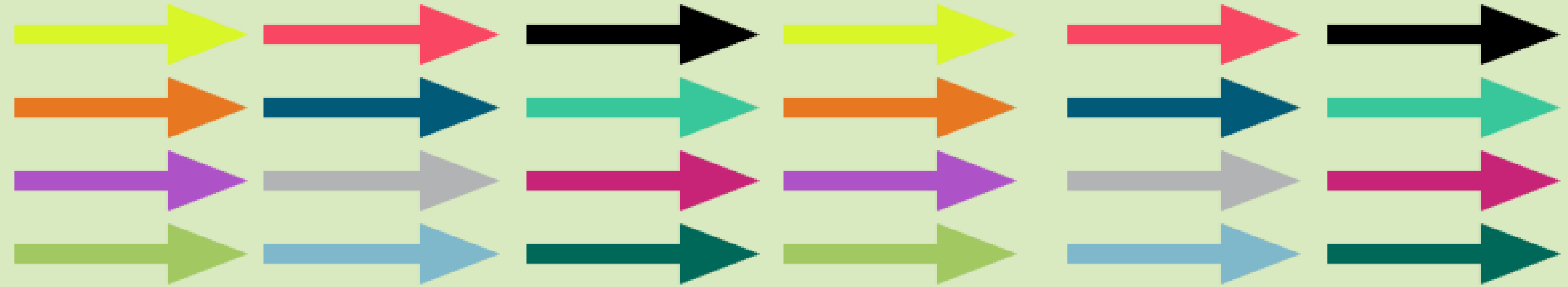
One million cubic meters

Värmland:

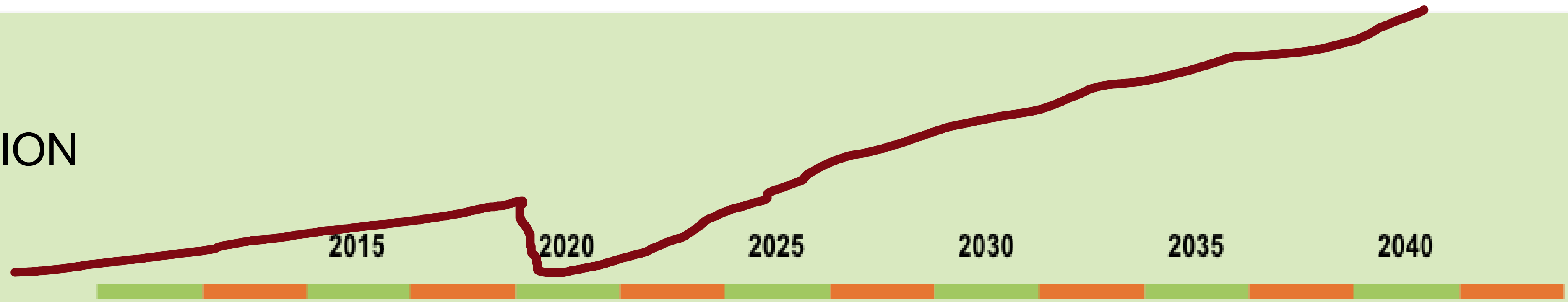
- Annual growth is 8 million cubic meters
- Annual harvesting is 6 million cubic meters
- Annually produced, 1.8 million tonnes of pulp and 1.6 million tonnes of paper

THREE SUCCESS FACTORS FOR SMART SPECIALISATION IN EU REGIONS

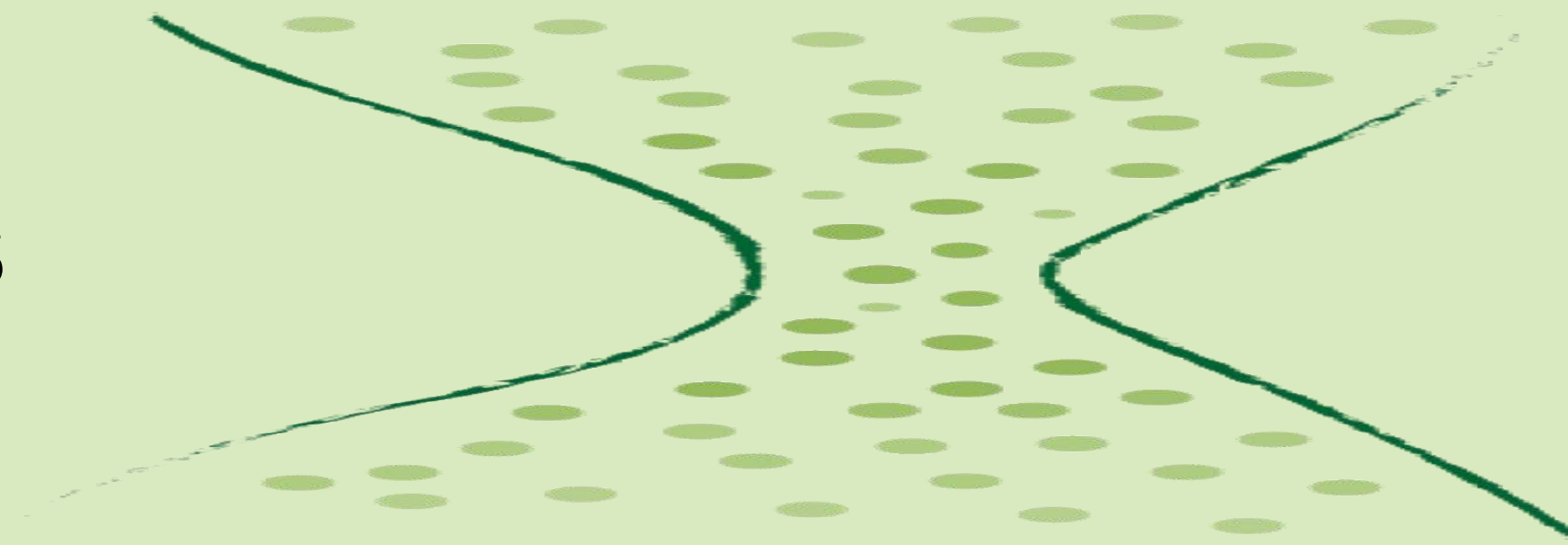
CRITICAL MASS



TRANSITION



NATIONS



MAINSTREAM SMART SPECIALISATION



ec.europa.eu/regional_policy/smart_specialisation