

Emplnno RIS3 presentation Satakunta

”Research and Innovation Strategies for Smart Specialisation”

Seinäjoki meeting 9.10.2018

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October 2018

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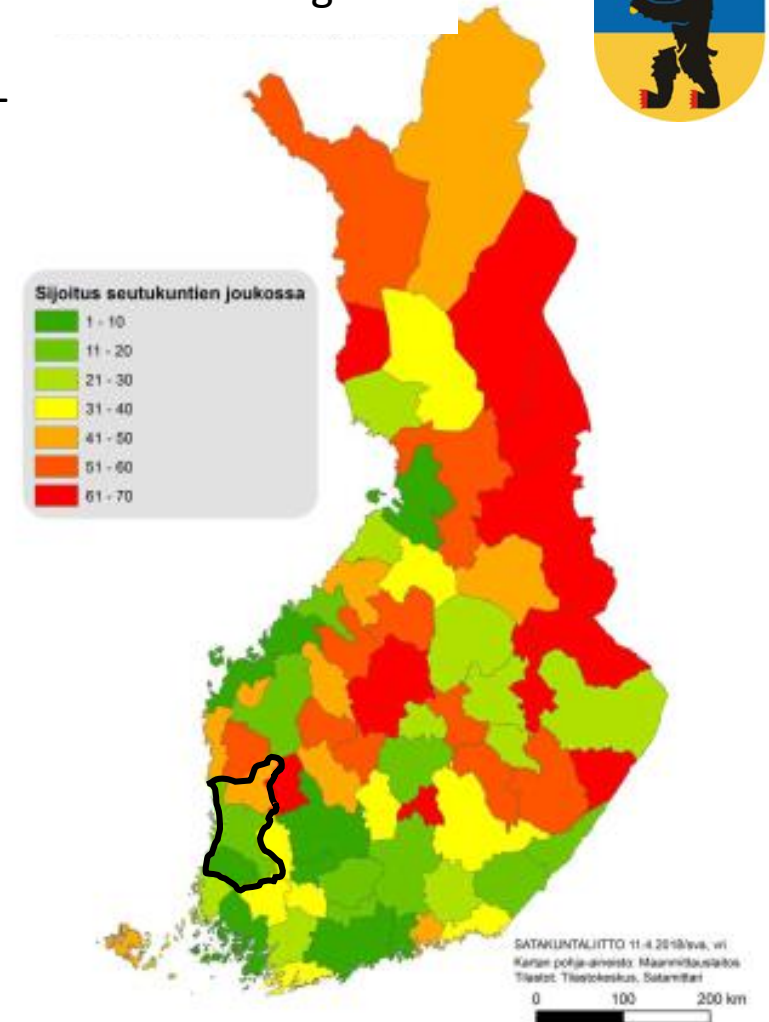
Satakunta Region

- 224 000 inhabitants, 10 000 students, 4 units for higher education
- Strong industrial culture
- Metal processing is local specialty (Cu, Co, Ni, Au, Ag, REE-processing)
- First-in-Finland: LNG import terminal in Pori (2016)
- First-in-the-world: Offshore wind farm in icy conditions (2017)
- **ENERGY**
- **MARITIME**
- **INDUSTRIAL RENEWAL:**
 - Circular Economy
 - Robotics, Automation, AI → **ROBOCOAST Digital Innovation Hub in EU**
 - Metal Cluster (non-ferrous metals) is preparing for boom in battery production
- Industrial jobs 20% (Finland 13%)
- Industry 27 % of GDP in region (20 % in Finland)

Competitiveness of Finnish Regions

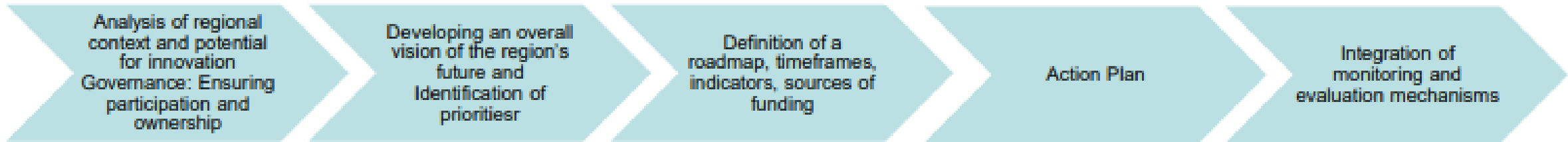


Green+++
Yellow 0
Red - - -



RIS3 in Satakunta Region

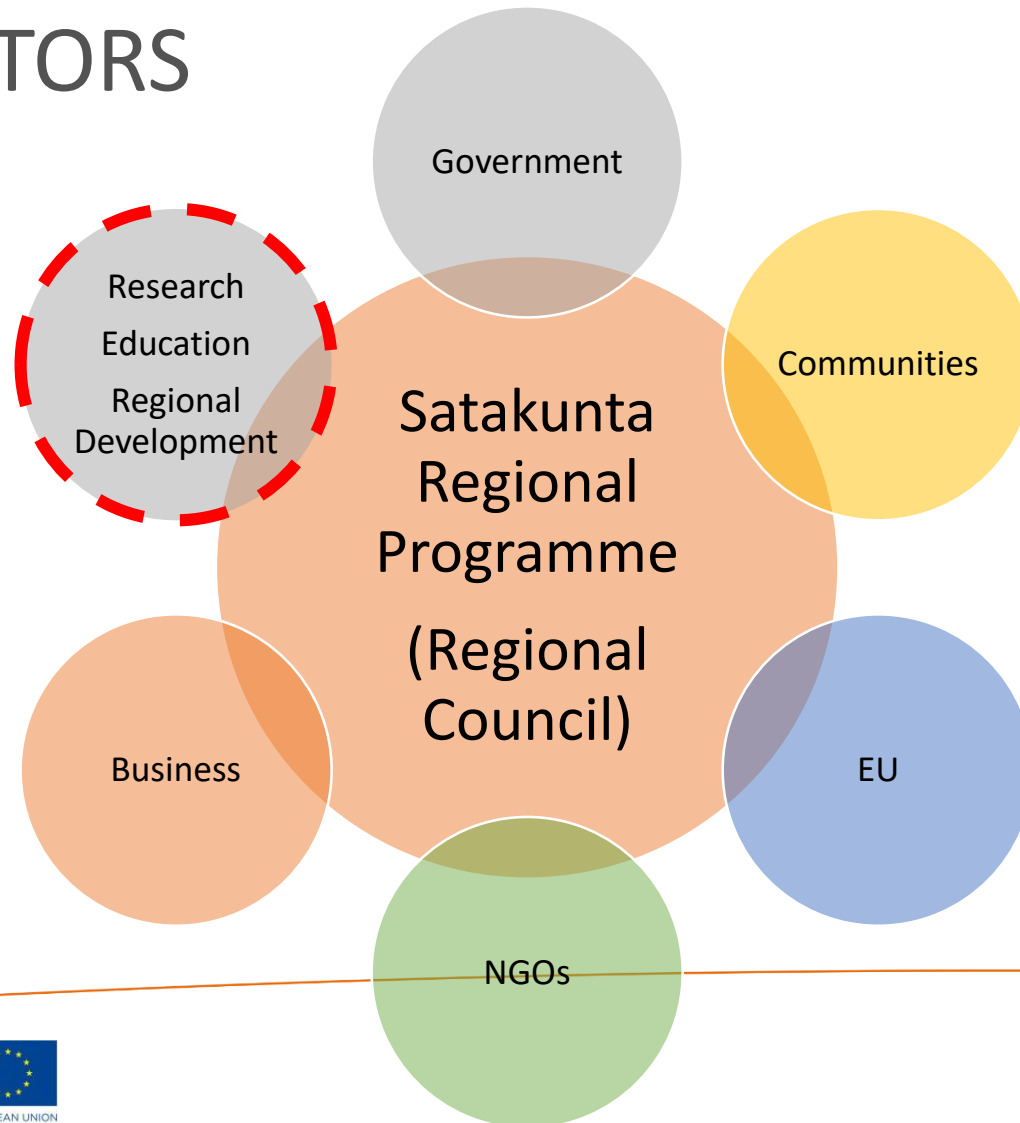
- Regional program 2014-2017 was prepared based on principles of smart specialisation (S3)



- Since then, smart specialisation has been a key framework for regional development.
- Themes and priorities were updated for regional programme 2018-2021
- Thematic forums were updated 2018
- Due to rapid pace of development and change, the concept of KETs (Key Enabling Technologies) was introduced.
- Documentation for RIS3: Regional Programme, Future Handbook, Implementation plan, Satakunta Industrial Growth Programme

RIS3 in Satakunta Region

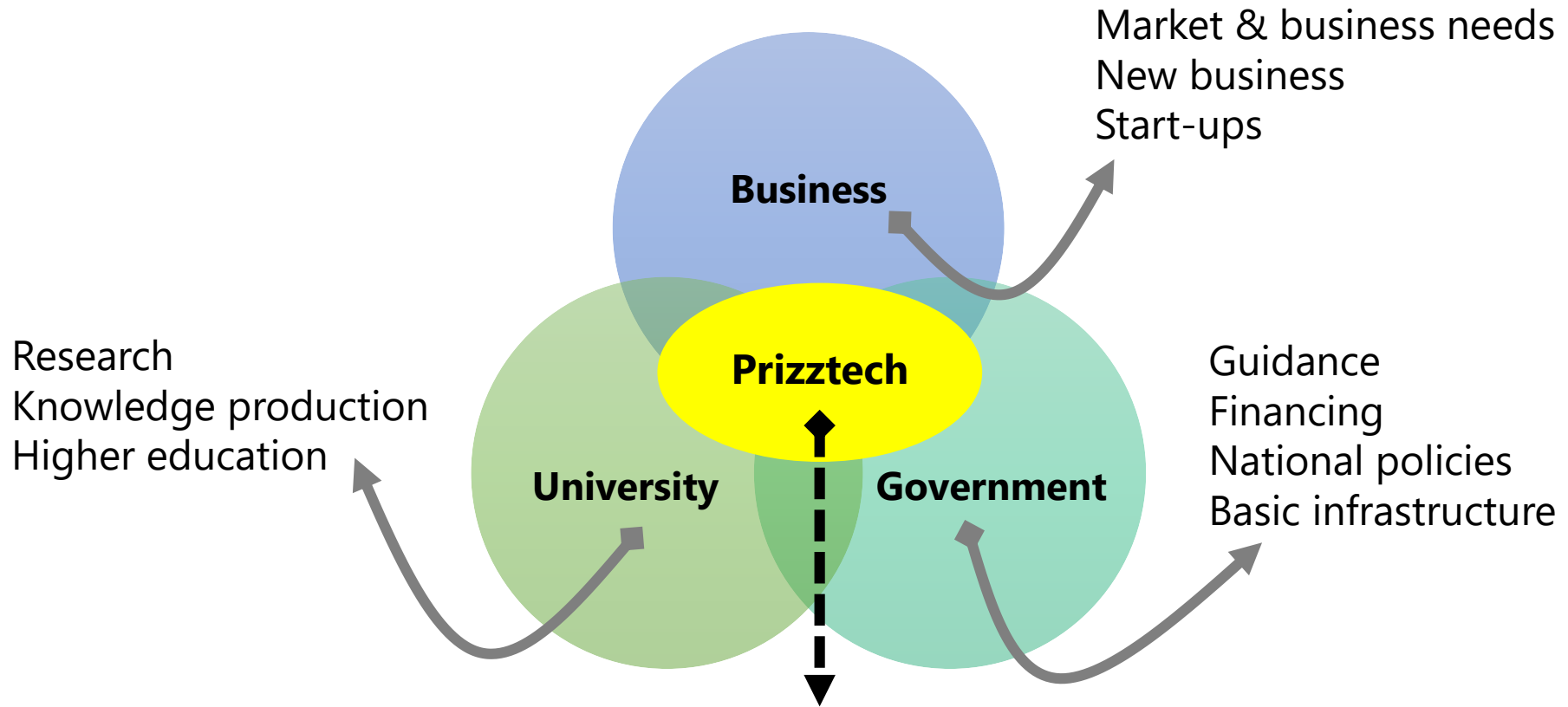
ACTORS



FORUMS:

- Future forums/ 1 year
- RDI forum / 2-3 year
- Thematic forums
- Feedback and comments for Regional Programme

Regional Innovation System - Satakunta




OUR MISSION:
NETWORKING
RDI-ACTIVITIES

REGIONAL DEVELOPMENT
PUBLIC-PRIVATE PARTNERSHIPS








RIS3 in Satakunta region





RIS3 in Satakunta

RESEARCH & INNOVATION STRATEGIES FOR SMART SPECIALISATION

PURE VITALITY:	PEOPLE ORIENTED SOLUTIONS:	ENCOURAGING COMMUNITY:
 <p>Industrial modernisation</p>	 <p>Attractiveness, wellbeing</p>	 <p>Entrepreneurship</p>
 <p>Energy Bio- & Circular Economy</p>	 <p>Safety, accessibility</p>	 <p>Social inclusion</p>
 <p>Blue Growth</p>		

KET (Key Enabling Technologies)
Automation, robotics, data-analytics, AI, 3D, Well-being technologies

Regional Programme 2018-2021 Priority	Smart specialisation focus 	Description
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PURE VITALITY



Industrial modernisation

Satakunta region has a wide and strong automation and robotics cluster: In the field of automation and robotics technology expertise and in particular software competence are emphasized. Robocoast cluster is also internationally connected and recognized having tight cooperation contacts both in Europe and China. Automation, robotics and AI are key cross-cutting issues fostering region's competitiveness and growth, today and in the future.

Energy

Satakunta promotes versatile energy expertise and training as well as business. Developing energy-efficient solutions for energy and environmental technologies in the industry and promoting their implementation are also core issues. The production, use and related entrepreneurship of renewable energy will be promoted. The region's energy expertise strengthens smart specialisation and opportunities for growth.

Bioeconomy and circular economy

Satakunta region's industrial symbiosis create opportunities for industrial transition to energy and material-efficient and low-carbon way of acting. Exploitation of industrial and primary production side streams can produce new products and innovations, bio-based raw materials and processed products for other industry. Promoting the circular economy requires cooperation and commitment of the actors as well as development of know-how.

Blue growth

The South-West maritime cluster has a versatile know-how and a large number of diversified marine industries, predominantly shipyards and subcontracting companies. In Satakunta region there is blue growth potential alongside the marine industry and technology, in water tourism and marine welfare services, fisheries, aquaculture and energy. The region's blue growth expertise reinforces smart specialisation and opportunities for growth.

S3 Implementation

Two cases of implementation:

- GasEconomy
- RoboCoast



S3 Implementation: case GasEconomy

The driver for the change: LNG import terminal in Pori 2016, (decision 2014)

The Regional Council of Satakunta (FI) was in charge of the preparation of the regional S3. To that end, strategic regional platforms were established around selected priorities. These platforms set reference criteria for actions and project development within smart specialisation areas. Regional developers are called to pick up one of the chosen themes and then build an articulated project.

For instance, Prizztech Ltd, under the theme “Bio-economy” developed the initiative “Gas economy” focusing on building:

- Bio-power plants for waste water treatment plant
- Biogas production plants in rural areas
- Biogas filling stations for road traffic.

When a new action is planned, the following set of requirements must be addressed by the developers/initiators:

- Is there a new idea linked to the S3?
- Is it possible to find linkages between this domain and the one of the regional smart specialisation platforms?
- Is there already program-level activity linked to this idea/Is there a new idea linked to the S3?
- Is it possible to find linkages between this domain and the one of the regional smart specialisation platforms?
- Is there already program-level activity linked to this idea/ domain?
- Are there other projects which this idea can benefit from?

Outcome: 5-10 projects, local cluster of companies, “Strategic Plan for Gas Economy in Satakunta Region” (2018)



S3 implementation: case ROBOCOAST

European Commission / Smart Specialisation Platform / Tools / Digital Innovation Hubs



Digital Innovation Hubs

Search
Enter any search term

Countries
None selected -

Evolutionary Stages
1 selected -

Technical Competences
None selected -

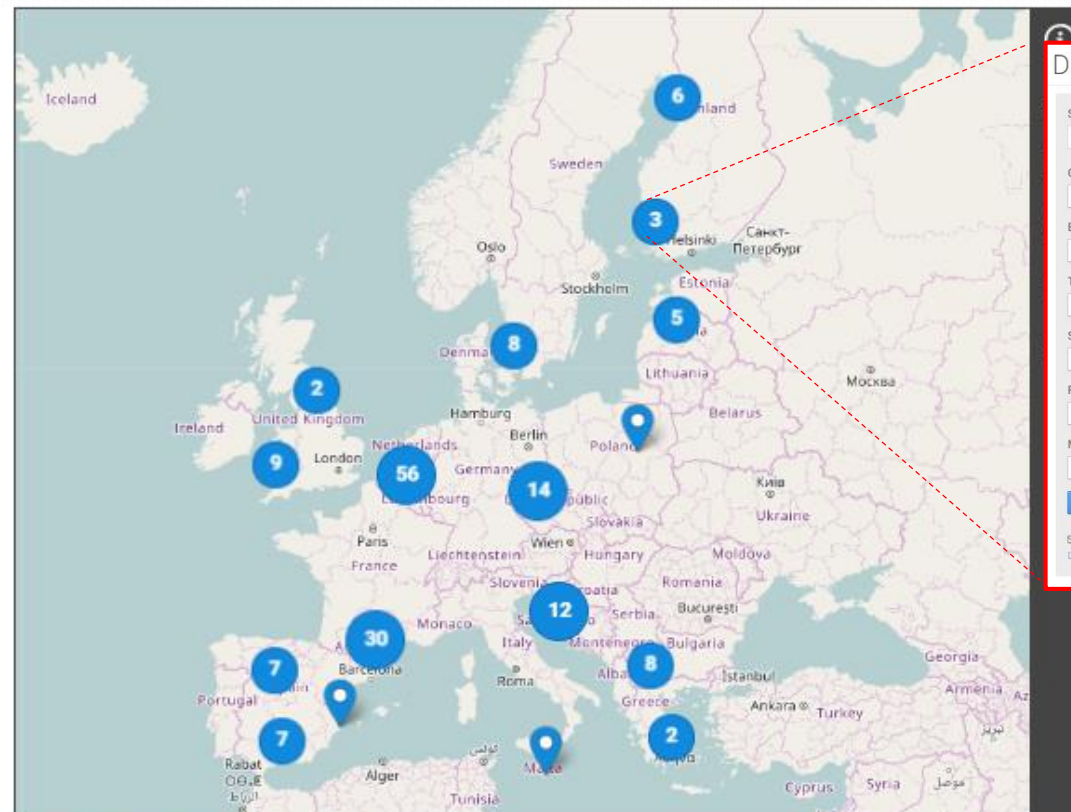
Services Provided
None selected -

Focus on TRL
None selected -

Market sectors
None selected -

SEARCH

Contact us in the following email: JRC-B3-DIH@ec.europa.eu



Digital Innovation Hubs

Search
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Countries
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None selected -

SEARCH

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ROBOCOAST

General Information

Evolutionary State: Fully operational

MORE DETAIL

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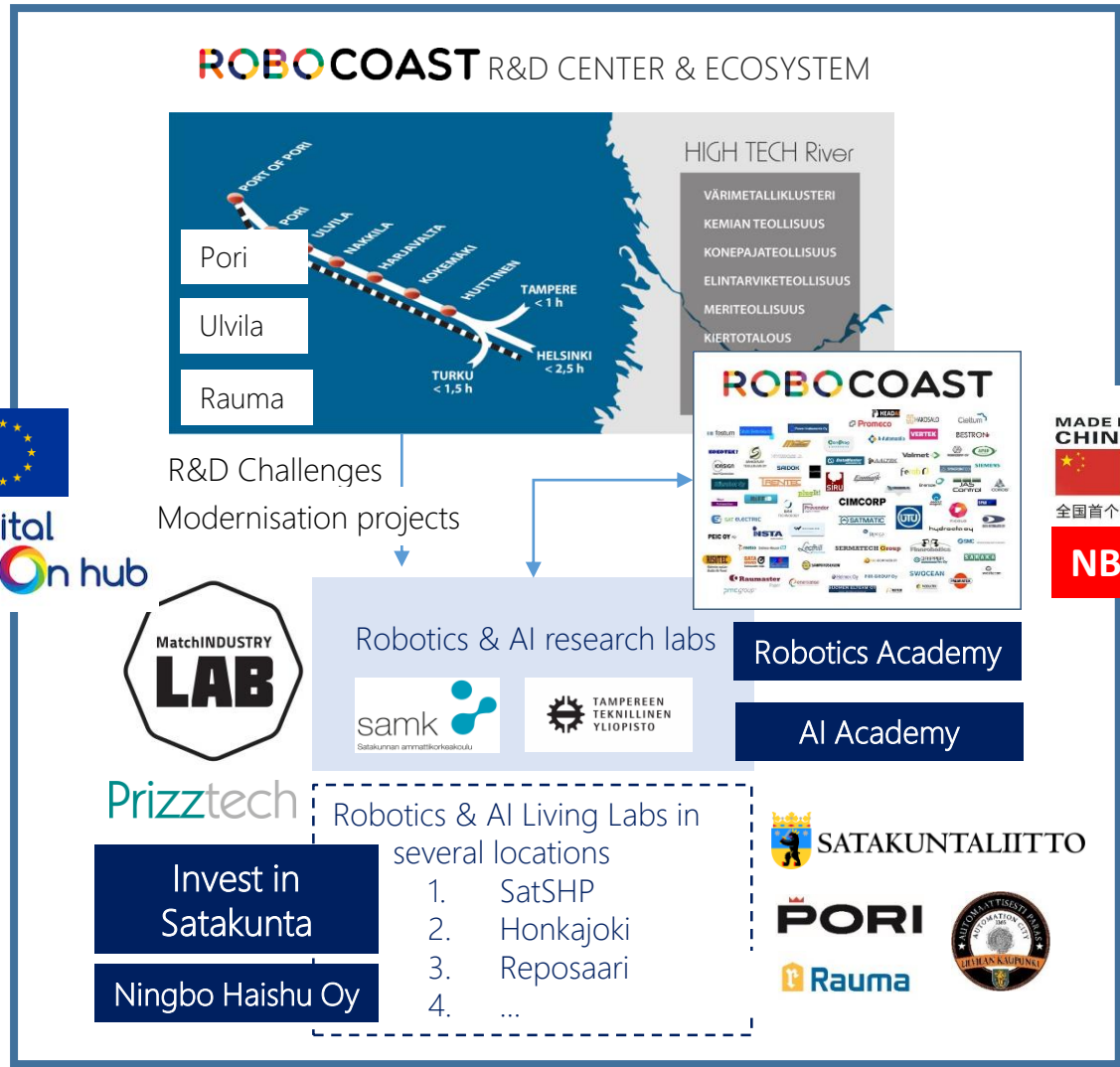
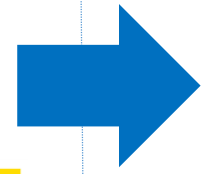
S3 implementation: case ROBOCOAST

Robocoast Ecosystem 2020...

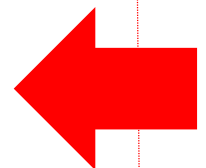


R&D challenges in global companies

Robocoast provides fast lane to international companies to the first biggest internal market - China



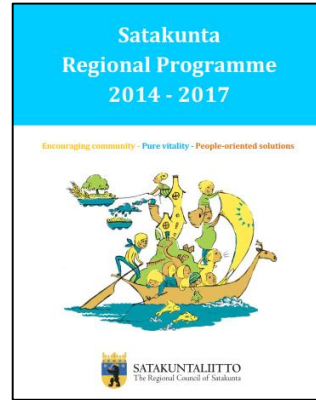
MIC 2025
Modernisation challenges



Robocoast is a HUB to European markets as Chinese companies modernize their production and products

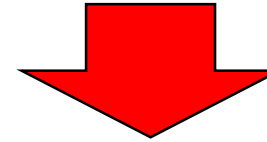


Regional strategies

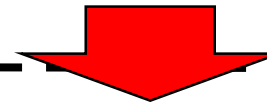


Satakunta Regional
Programmes
&
RIS3

STRATEGY OWNER

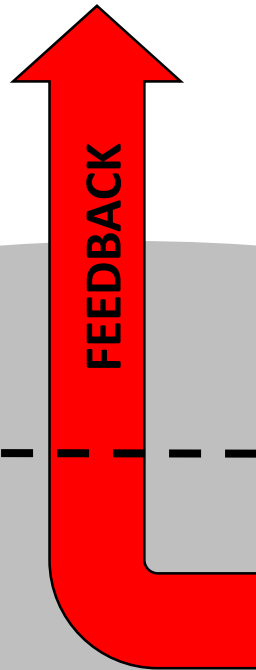
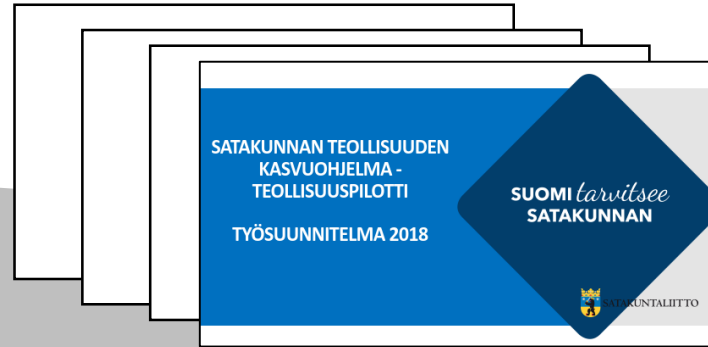


Working Programmes,
e.g. Industrial Pilot
Programme for
Industrial Renewal &
Growth



Strategy
Implementors'
strategies
e.g. Prizztech Ltd's
strategy

STRATEGY
IMPLEMENTOR



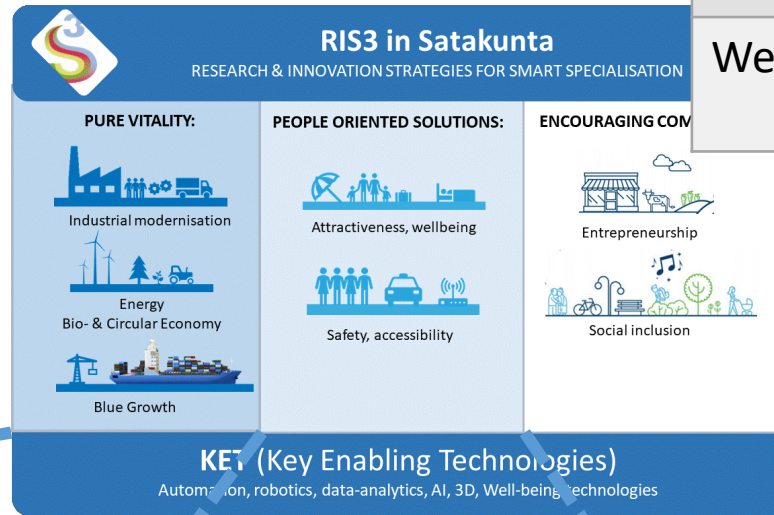
COMPANIES



Monitoring, indicators

- Peer review for 2014-2017 Regional Program
- Feedback:
- Indicators:

Peer review 2014-2017 programme	
Strengths	Preparation process, themes are based on regional strengths, stakeholder engagement, impact on stakeholders' strategies
Weaknesses	If themes give guidelines to funding, what is the impact of funded projects?



Diversity of economic structure
Export % of economy
Share of renewables %

Number of students
Number of new companies
Number of tourists
Number of required labour recruited abroad

% of entrepreneurs
% employment
% young people employment

Summary

- RIS3 is valuable tool, and it provides communication platform for regional development
- It builds bridge between strategy owner and implementor
- It is difficult to understand
- Company involvement should be developed
- Monitoring is difficult

Next steps

- Build stronger linkages between RIS3 and project work
- Communicate RIS3 to SMEs
- Cluster development: Battery ecosystem, Offshore wind power cluster, Circular Economy

Thank You!

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