

21.5.2019

# SHARING BEST PRACTICE TO IMPROVE WATER QUALITY

22 MAY 2019

*Satu Vehreävesa*  
*Director, Regional Development*



## POHJOIS-SAVO REGION

### Population

250 000

### Total area 20 366km<sup>2</sup>

waters 18%

forest 66%

### Municipalities

18

### Largest towns

Kuopio 120 000

Siilinjärvi 22 000

Iisalmi 21 500

Varkaus 21 000

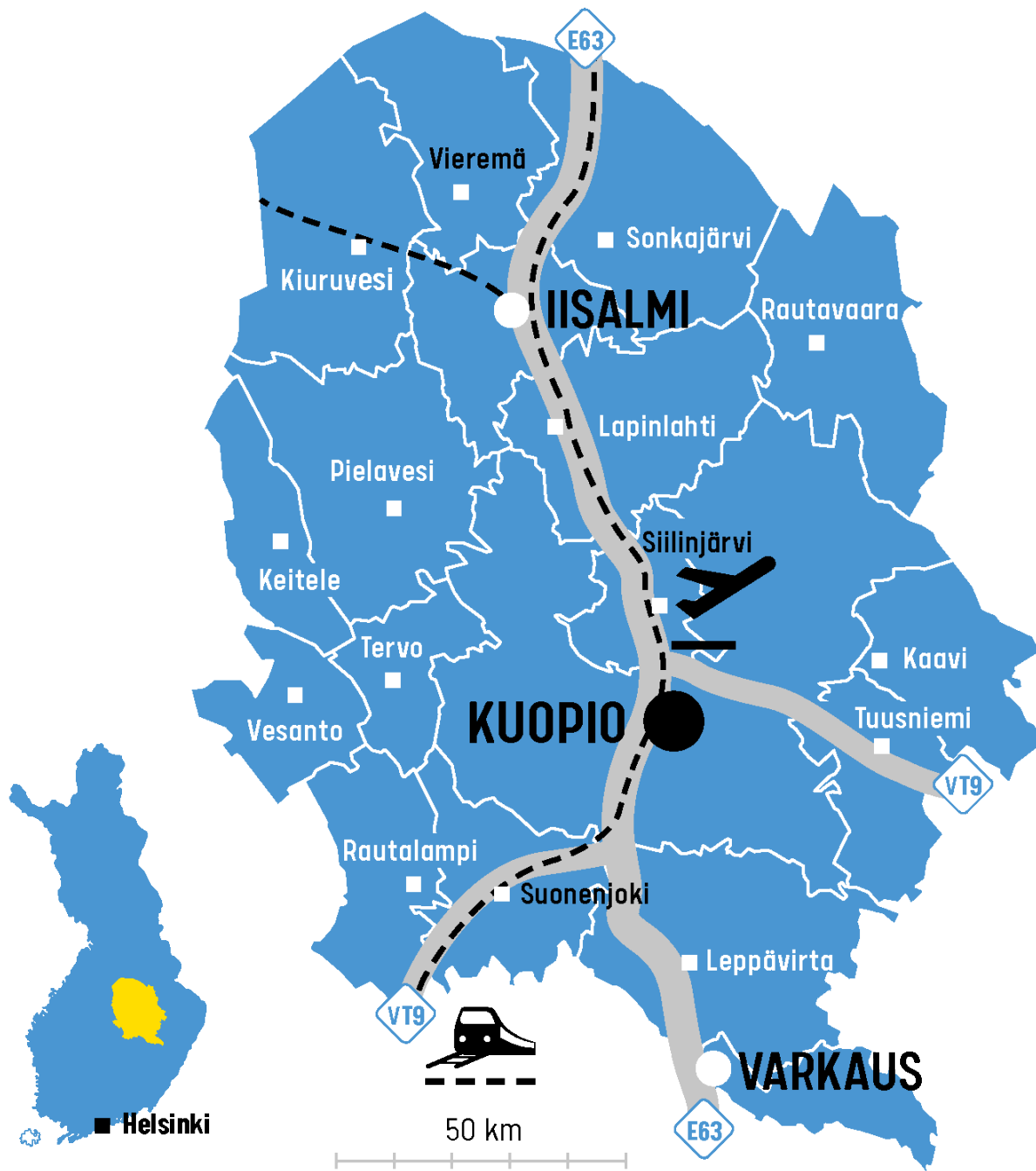
### Travel times Kuopio - Helsinki



4 hours

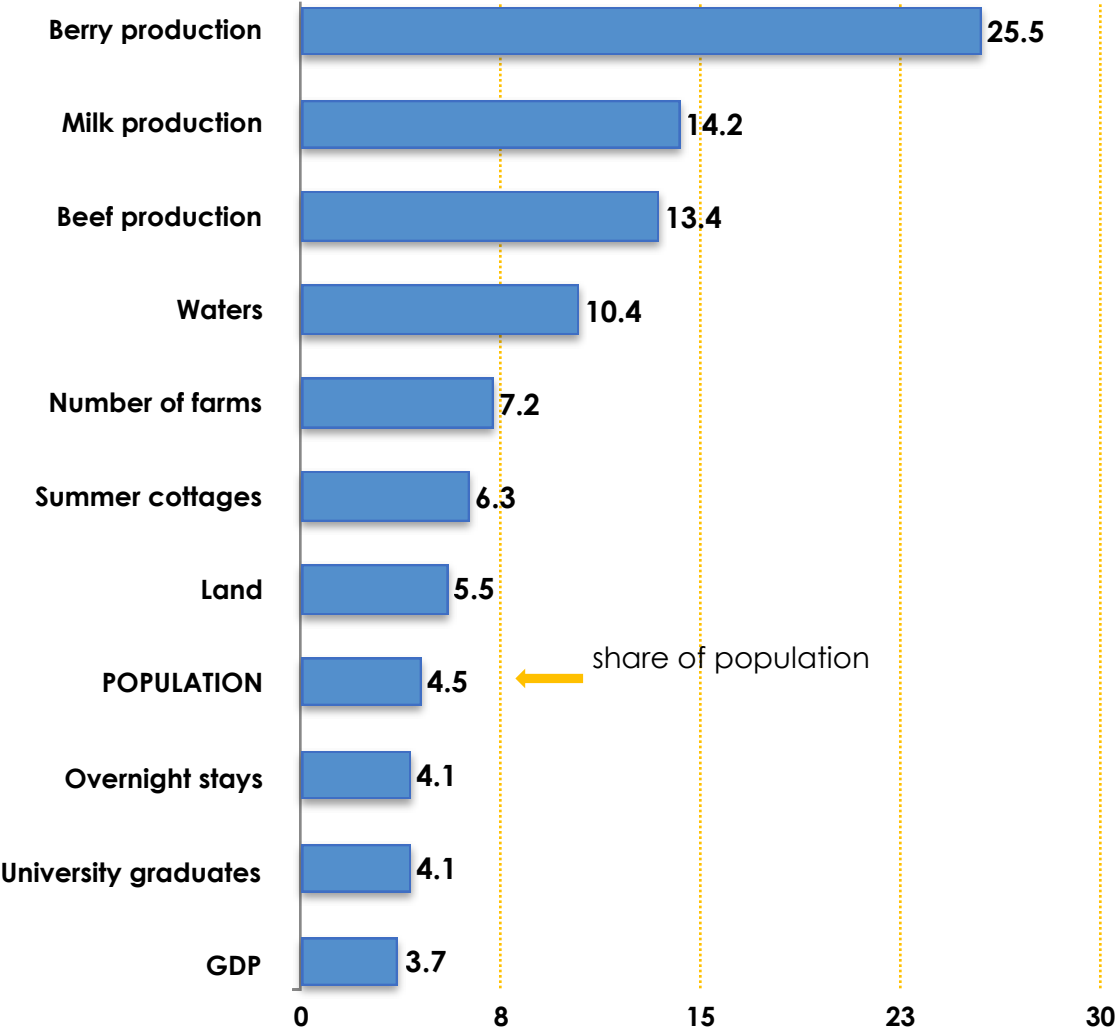


50 minutes



# REGIONAL PROFILE OF POHJOIS-SAVO

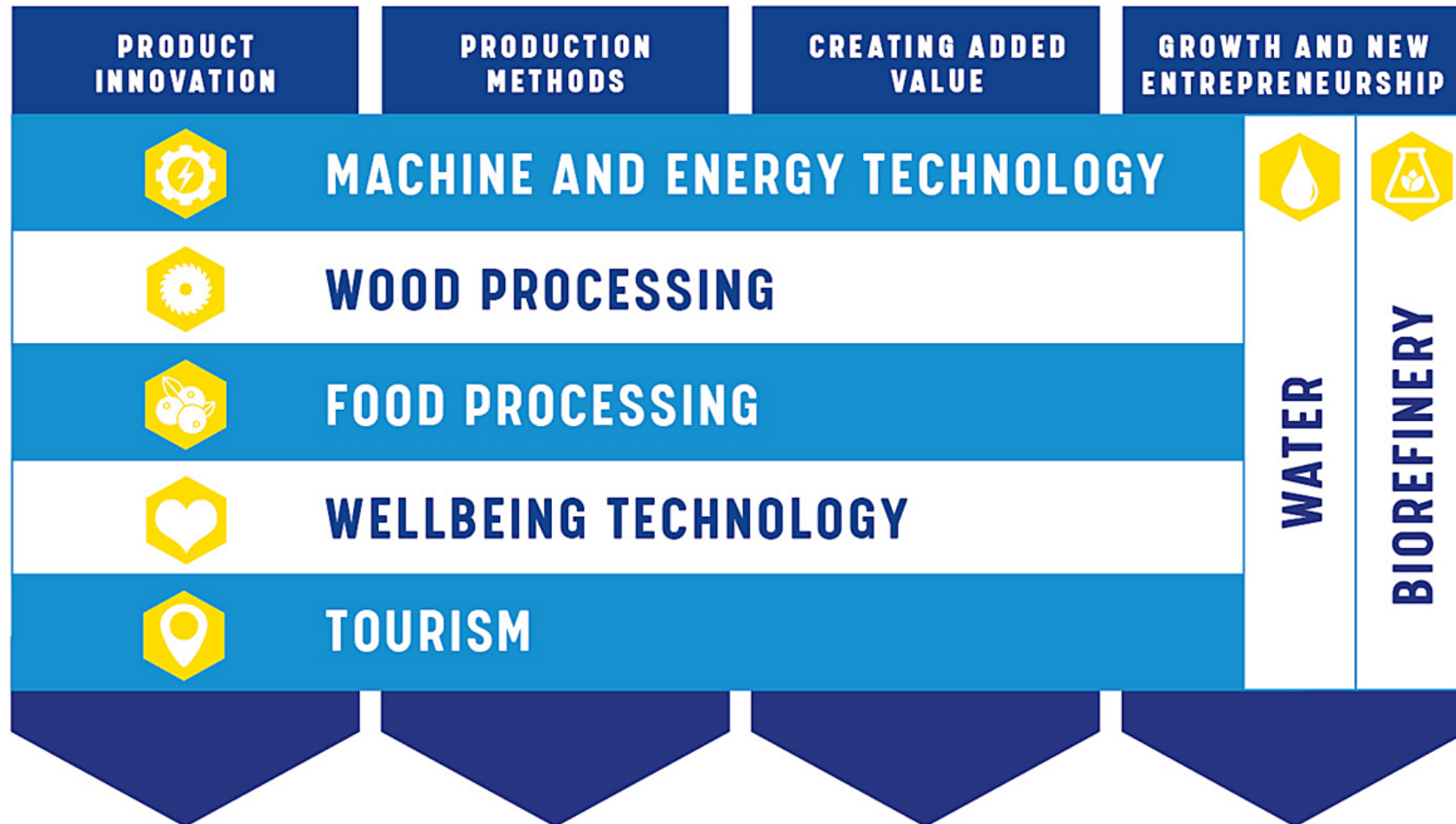
(percentage of Finland)



GREATEST BRANCHES OF INDUSTRY POHJOIS-SAVO (turnover)		
	(EUR millions)	% of Finland
metal and metal products	1304	2,2%
wood and paper	932	4.2%
food and beverages	538	5.1%



# SMART SPECIALISATION IN POHJOIS-SAVO REGION



# THE SMART SPECIALIZATION STRATEGY OF POHJOIS-SAVO

	PRODUCT INNOVATION	PRODUCTION METHODS	CREATING ADDED VALUE	GROWTH AND NEW ENTREPRENEURSHIP
MACHINE AND ENERGY TECHNOLOGY	<ul style="list-style-type: none"> <li>➤ Fast product development with customer and manufacturing network</li> <li>➤ Profitability</li> </ul>	<ul style="list-style-type: none"> <li>➤ Productivity, Quality, Lean, Management of production network</li> <li>➤ Producibility and serviceability</li> </ul>	<ul style="list-style-type: none"> <li>➤ Customer-oriented and superior service concepts</li> <li>➤ Life cycle services</li> <li>➤ Energy efficiency</li> </ul>	<ul style="list-style-type: none"> <li>➤ Start up partnership with big companies</li> <li>➤ Growth and financing of small businesses</li> </ul>
WOOD PROCESSING	<ul style="list-style-type: none"> <li>➤ New products</li> <li>➤ New products with bio-processing</li> </ul>	<ul style="list-style-type: none"> <li>➤ Productivity and capacity increase</li> <li>➤ Logistics</li> <li>➤ Measuring technology</li> </ul>	<ul style="list-style-type: none"> <li>➤ Wood construction</li> <li>➤ Wood market development</li> <li>➤ Energy fund for domestic raw materials only</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pulp investment and pulp / processed products</li> <li>➤ Utilization of condensate water and sludge</li> </ul>
FOOD PROCESSING	<ul style="list-style-type: none"> <li>➤ Health and delicatessen demand (milk, berry and fish products)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Productivity and efficiency in grass, dairy, beef and berries farming</li> </ul>	<ul style="list-style-type: none"> <li>➤ Customer-oriented operation</li> <li>➤ Traceability</li> <li>➤ Use of intelligent packaging</li> <li>➤ Recycling of nutrients</li> </ul>	<ul style="list-style-type: none"> <li>➤ Investments</li> <li>➤ Retention of milk production volume</li> <li>➤ Export</li> </ul>
WELLBEING TECHNOLOGY	<ul style="list-style-type: none"> <li>➤ Well-being technology</li> <li>➤ Innovative and personal medicines</li> <li>➤ Contract Research Services</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lean, automation, robotics, sensors, software, artificial intelligence and logistics</li> </ul>	<ul style="list-style-type: none"> <li>➤ Service concepts, health promotion and effectiveness</li> <li>➤ Energy Efficiency of real estate</li> </ul>	<ul style="list-style-type: none"> <li>➤ Personal health monitoring technologies and services</li> </ul>
TOURISM	<ul style="list-style-type: none"> <li>➤ Product packages</li> <li>➤ Int. product packages</li> <li>➤ Nature, event and content travel</li> </ul>	<ul style="list-style-type: none"> <li>➤ Commercialization</li> <li>➤ Methods of cooperation</li> </ul>	<ul style="list-style-type: none"> <li>➤ Int. marketing, especially China</li> <li>➤ Digitalization</li> <li>➤ Social media channels</li> </ul>	<ul style="list-style-type: none"> <li>➤ Internationalization</li> <li>➤ Visit Finland cooperation</li> <li>➤ Nature tourism Concepts</li> </ul>
WATER AND BIOREFINERY (Cross-cutting themes)	<ul style="list-style-type: none"> <li>➤ Multidisciplinary solutions for water, industrial and agricultural water processes</li> </ul>	<ul style="list-style-type: none"> <li>➤ Monitoring and optimization of water and cleaning processes</li> <li>➤ Digital Services</li> </ul>	<ul style="list-style-type: none"> <li>➤ A technology and development center R &amp; D services for companies</li> </ul>	<ul style="list-style-type: none"> <li>➤ Energy efficiency, decentralized energy production and reduction of emissions</li> </ul>

# SMART SPECIALIZATION

## TOTAL REGIONAL FUNDING 2014–2017 | 102 M€ \*)

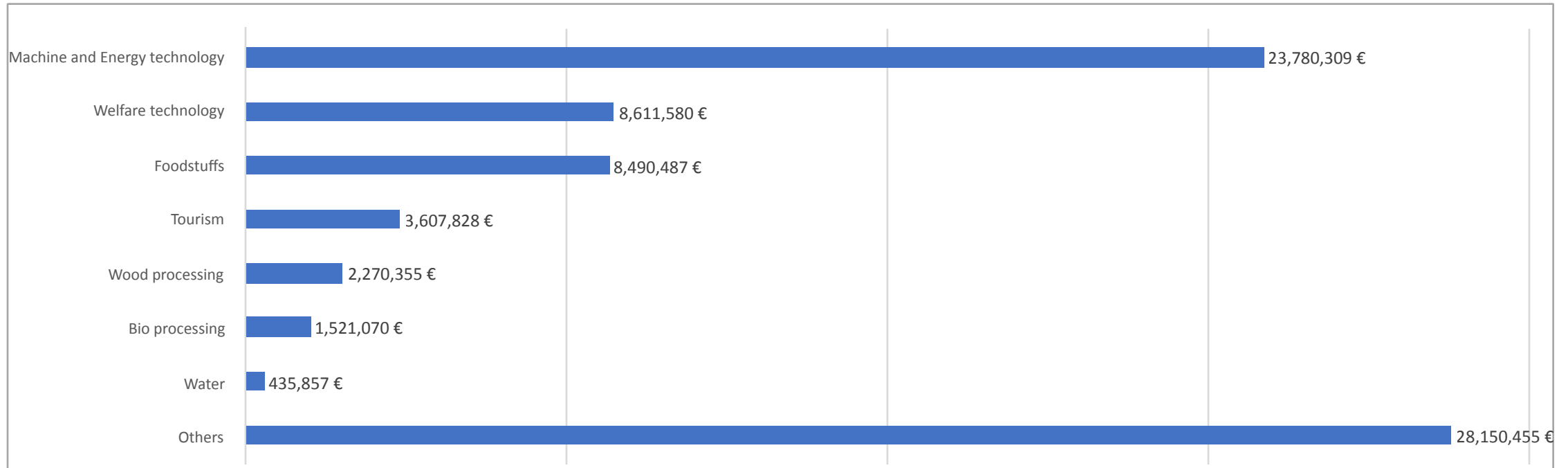
Innovation priorities

Current Leaders	Machine and Energy technology	28,6 M€	(28,1%)
	Wood and Bio Processing	21,4 M€	(21,9%)
	Foodstuffs	20,9 M€	(20,5%)
New and promising	Health Cluster	22,3 M€	(21,9%)
	Water and Air	8,7 M€	(8,5 %)

\*) 67 M€ focused on other industries

# Smart Specialisation in Pohjois-Savo region's total fundings in year 2018

## (finance range €77 million)



**63 % of finance is directed to Pohjois-Savo region's Smart Specializations choices.**