



Baltic Sea Science Day 2019

23 February 2019



Prospects for Smart Specialisation Strategies

Rectors' Panel

Indriķis Muižnieks, Rector, University of Latvia

- Professor at the Department of Microbiology and Biotechnology
- Research focus on plasmid and virus replication fidelity, enhancement of immune response by microbial glycoproteins

Charter: Comprehensive, Research Oriented, National

Slogan

Scientiae et Patriae

Vision:

Innovative and efficient research university

Mission

To back the development of the Country.
Providing internationally competitive higher education, fostering science, nurturing Latvian language and culture, and promoting intercultural communication through versatile research activities, study programs and innovation projects.

Legal status: derived public body (similar to municipalities)

Key Player in National HE&R League

13 faculties, 2 colleges, 16 research institutes

18% of the total student number in Latvia* 17 100 in 2017

27% of res. active PhD or equiv. degree holders in Latvia 1 100 in 2017

21% of total HE degrees awarded in Latvia*

28% of Master degrees awarded in Latvia*

40% of Doctoral degrees awarded in Latvia*

29% of total Scopus or WoS records from Latvia*

67% of research articles in Scopus or 58% in WoS*

80% of research articles in Q1 or Q2 journals in WoS * av. 2014-2017

Tiit Land, Rector, Tallinn University

- Professor in Neurochemistry and Neurotoxicology,
- Research focus on molecular mechanisms in iron metabolism and inflammatory processes; their role in neurodegeneration, including Alzheimer's disease

Kalervo Väänänen, Rector, University of Turku

- Professor in Anatomy and Cell Biology,
- Research focus on bone metabolism

Rimantas Jankauskas, Vice-Rector & Pro-Rector for Research, Vilnius University

- Professor at the Department of Anatomy, Histology and Anthropology
- Research focus on Human Osteology, Paleopathology, Forensic Anthropology

Wolfgang Schareck, Rector, University of Rostock

- Professor in Vascular Surgery and Transplantation Surgery
- Research focus on pancreas and kidney surgery and transplantation technologies

Igor A. Maksimtsev,

Rector, Saint Petersburg State University of Economics

- Professor of the Department of World Economy and International Economic Relations
- Research focus on conceptual and methodological foundations of trade and economic cooperation between Russia and the European Union countries

Tālis Juhna,

Vice-Rector for Research, Riga Technical University

- Professor in Water Supply and Engineering Systems
- Research focus on water and food safety issues, energy retrieval from sewage and renewable resources

RIS concept as developed by OECD.

Typical priorities:

- Enhancing regional R&D and innovation capacities in line with regional economic development objectives.
- Stimulating innovation in SMEs by promoting university-enterprise cooperation networks.
- Promoting entrepreneurship and new firm creation by fostering the creation of new firms from universities.
- Improving human capital for innovation by developing curricula tailored to the innovation system needs not only science and technical aspects but also in management of innovation.

Europe 2020 strategy (2010),
“Innovation Union” flagship initiative

Regional Innovation Strategy for Smart Specialization (RIS-3)

A comprehensive innovation strategy to enhance Europe's capacity to deliver smart, sustainable and inclusive growth highlighting the concept of smart specialisation as a way to achieve these goals.

Four 'Cs' for RIS-3

- **Choice:** limited number of priorities – avoid duplication and fragmentation in the ERA – concentrate funding sources.
- **Competitive Advantage:** mobilise talent by an entrepreneurial discovery process.
- **Connectivity:** develop clusters for cross-sector links driving specialised technological diversification – match what you have with what the rest of the world has.
- **Collaborative Leadership:** innovation systems based on public-private partnership – platform to give voice to unusual suspects.

Priorities in various RIS-3

	Hel	StP-LR	EE	LV	LT	MV
ICT/Digitalisation	+		+	+	+	+
Health/Biotech	+	+	+	+	+	+
Smart Materials/Eng	+	+	+	+	+	+
Energy/Climate	+			+	+	+
Food/Bioeconomics		+	+	+	+	+
Transport/Mobility		+	+		+	+
Human Potential	+	+			+	

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Entrepreneurial discovery process

- Interactive bottom-up process in which participants from different environments (policy, business, academia, etc) are identifying potential opportunities.
- Integration of entrepreneurial knowledge fragmented and distributed over many sites and organisations, through the building of connections and partnerships.
- Opening up of a new domain of opportunities (technological and market), potentially rich in numerous innovations.

<http://s3platform.jrc.ec.europa.eu/>

Proposed topics for discussion

- RIS-3 priorities vs. mission and strategy of the university
- Entrepreneurial discovery concept in the academic environment
- Unity vs. uniqueness in the development of the university
- Experience in public-private partnership, instruments to promote “unusual suspects” in academia



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