

# Smart Specialisation Strategies implementation: priorities, related policies & impact assessment - POLAND

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# Smart specialisation in Poland



» **Healthy society** medical engineering technologies, biotechnologies

» **Agri-Food, Forestry-Timber and Environmental Bioeconomy** bio-food and forest products

» **Sustainable energy** low-emission, smart and energy-efficient construction industry

» **Natural resources and waste management** modern technologies for sourcing, processing and use of natural resources and the production of substitutes

» **Innovative technologies and industrial processes (in horizontal approach)** multi-purpose materials and composites of advanced properties, including nanoproceses and nano-products



## Healthy society

NSS 1 – Healthy society

## Agriculture and food bioeconomy, forest based and environmental economy

NSS 2 – Innovative technologies, processes and products of agriculture and food and forest based sector

NSS 3 – Biotechnological and chemical processes, bioproducts and products of specialist chemistry and environmental engineering

## Sustainable energy industry

NSS 4 – High-efficiency, low carbon, integrated systems for generation, storage, transmission and distribution of energy

NSS 5 – Smart and energy-efficient construction

NSS 6 – Environment friendly transport solutions

## Circular economy – water, fossil raw materials, waste

NSS 7 – Circular economy – water, fossil raw materials, waste

## Innovative technologies and industrial processes (horizontal approach)

NSS 8– Multifunctional materials and composites with advanced properties including nanoproceses and nanoproducts

NSS 9– Sensors (including biosensors) and smart sensor networks

NSS 10 – Smart networks & information & communication technologies

NSS 11 – Printed, organic and flexible electronics

NSS 12 – Automation and robotics of technological processes

NSS 13 - Photonics

NSS 14 – Innovative creative technologies

NSS 15 – Innovative maritime technologies for specialized vessels, maritime and offshore structure and logistics based on the sea and inland waterway transport

# Stocktaking of national/regional priorities & linkages with policy measures

## Constant revision & improvement of smart specialisation strategy in Poland

### Entrepreneurial discovery process

Smart Labs & Business Technology Roadmaps

Engaging stakeholders in Working Groups on NSS

### Monitoring & evaluation system

Statistical data aggregated on national and regional level, presented via interactive, visualizing monitoring tool

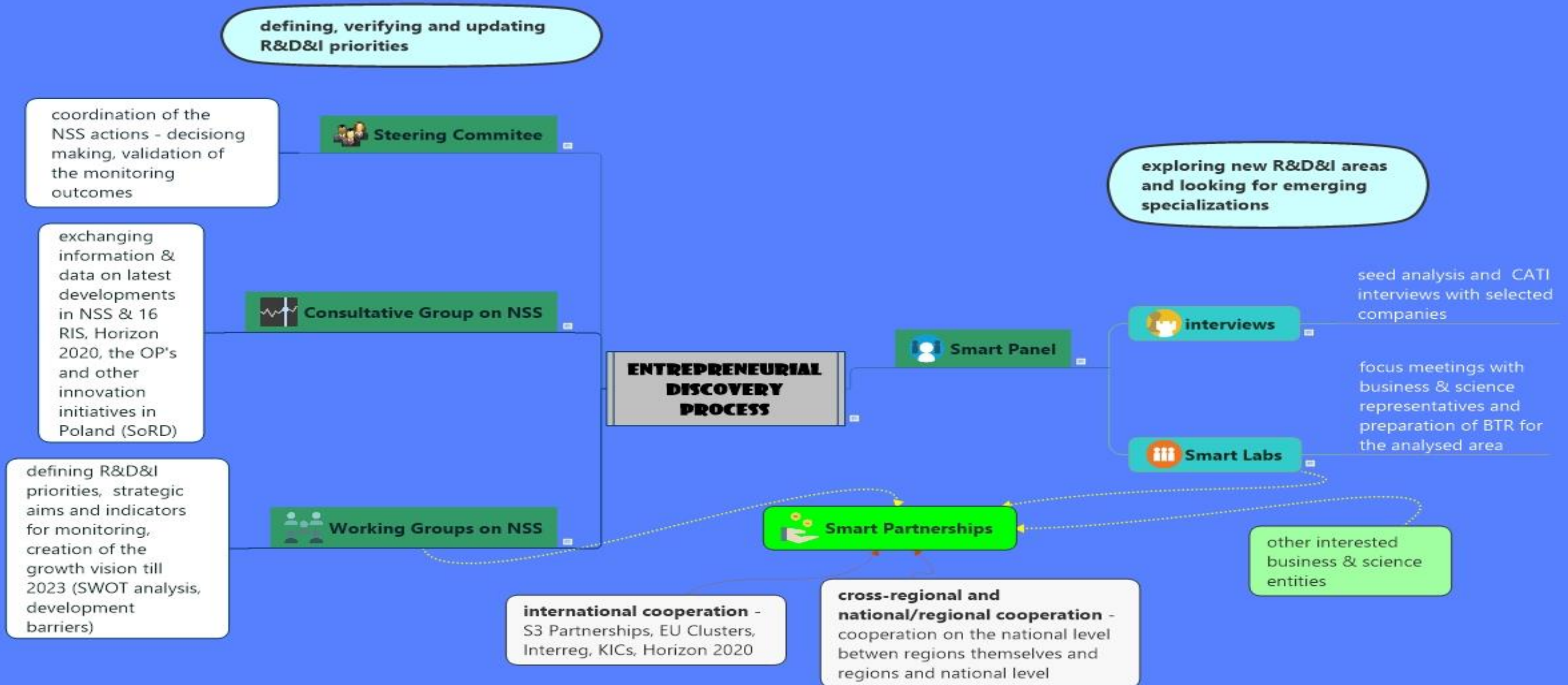
Analysis on industrial, technological and innovative policies (i.a. foresight, trend analysis) as well as sectoral analysis on barriers, stakeholders' needs

### International & regional collaboration

Smart Partnerships in the national/regional areas of S3



# Monitoring system on NSS - the role of monitoring bodies, data collection methods





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# Main innovation policy schemes – coherence between the S3 priorities and related policy measures

**16 Regional  
Operational  
Programmes**

**Operational  
Programme  
Smart Growth**



**NSS as the entry criteria for  
receiving co-funding of  
innovative projects  
(OP SG I, II, IV axes)**

**Additional points for  
entrepreneurs' projects  
in the NSS areas  
(OP SG III axe)**

# Operational Programme Smart Growth (9,7 bln EUR)

## Start-up



- 1) Starter
- 2) BizNest
- 3) ScaleUp
- 4) Innovation Loan Fund
- 5) BRIDGE Alfa

## R&D



- 1) R&D projects
- 2) R&D centres

## Implementation of R&D results

- 1) IPR protection
- 2) Business support institutions services
- 3) Technology Transfer support

## Production



- 1) Commercialisation of R&D results
- 2) Technology credit
- 3) Innovation guarantees

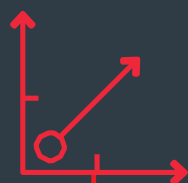
## and beyond



- 1) Export promotion
- 2) Entering stock exchange



# Boosting the S3 impact



Concentrating public intervention on **R&D&I priorities**



A strong push to fit R&D&I into a **broader development strategy** of the country / region (DIH, Industry 4.0, circular economy roadmap)



Better **knowledge** of public administration about **market** and its different actors, and thus **more mature evidence-based policy**



Counteracting information asymmetry through interacting, building networks and animating **dialogue** within and across different sectors and environments



Better regional/ international **cooperation**



**Risk attitudes** /Stimulating companies operating in a certain areas to engage their resources in R&D&I and thus to build their competitive advantages on knowledge and technology





# Critical junctures on the road ahead

Lack of sufficient data -  
collected statistical data  
**do not fit** smart  
specialization  
nomenclature and have  
to be adjusted  
(NACE – NSS)

**Information on progress and  
results** have to be **processed  
and exchanged more  
effectively** and **data made  
more open and accessible** (the  
user-friendly platform are  
under construction)

Better information and  
promotion policy - a **need for  
an easier and better  
targeted communications** on  
NSS policy and performance  
in terms of style,  
content and channel  
(action plan of campaign)

Thank you  
for your attention



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