

# Addressing the Czech mission-oriented approach to solving societal challenges through RIS3

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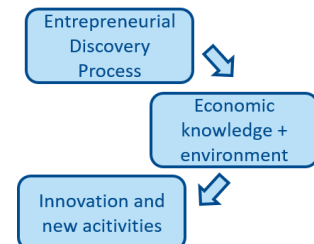
MINISTRY OF  
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Digital economy and Smart  
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# Why Smart specialization?

- ➔ A widely used concept of supporting research, development and innovation in EU countries
- ➔ Goal: smart (intelligent) use and development of the potential of a given country or region towards creating a long-term competitive advantage based on knowledge and innovation
- ➔ The essence of smart specialization:
  - ▶ Concentrate all available resources (material, human and financial) only on a **few priority areas** where the given state/region is able to achieve significant change
  - ▶ A continuous „entrepreneurial discovery process" focused on discovering **new business opportunities** and directing activities to increase competitiveness



**Evidence-based policy: Analysis of country/regions strengths, potential of knowledge capacities, ability to respond to current trends etc.**

# Czech National RIS3 Strategy priorities

## Horizontal priorities

Response to generic / horizontal problems of the RD&I system in the CZ in key areas of change

**Horizontal RIS3 strategic and specific objectives for key areas of change:**

- **Business RD&I**
- **Public R&D**
- **People and smart skills**
- **Digitalization**

## Vertical thematical priorities

### Domains of research and innovation specialisation

Combination of technological specialization in cross-cutting technologies such as KETs and absorption capacity for new knowledge and R&D in the application sectors results:

- Specific RD&I topics
- KETs applications
- Relevant topics from the area of social sciences

## 9 thematical domains



# Global societal challenges

Pollution



Ageing



Wastes



Drought



Attacks



...

- ➔ They threaten the entire planet
- ➔ They affect every region, city, municipality
- ➔ They concern each of us



# How to solve global societal challenges?

## Current practice

- ➔ Isolated measures - have only a limited effect
- ➔ Each researcher/innovator solves only his partial problem
- ➔ Groups of solvers do not know about each other



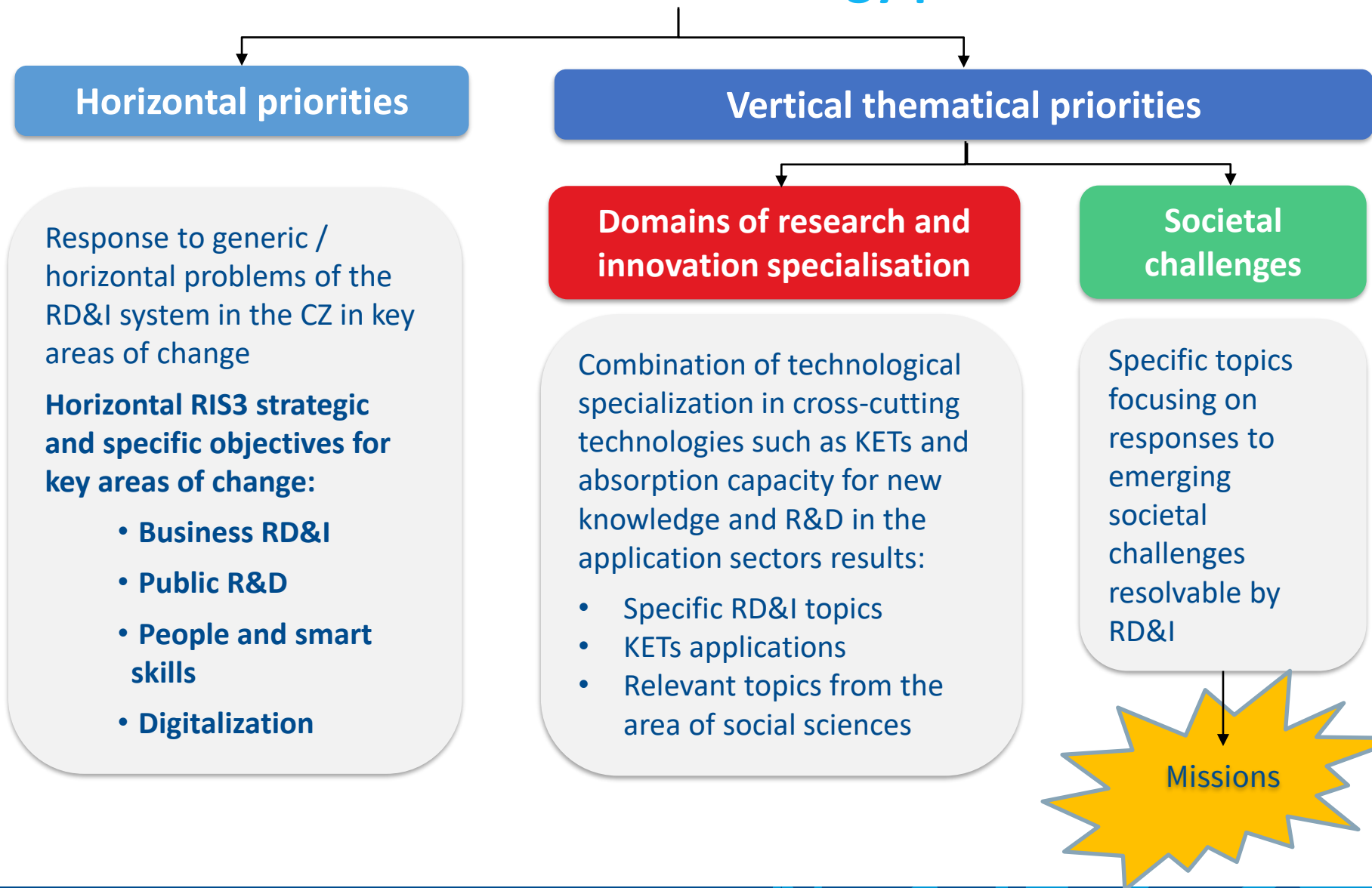
(Operational) programmes + National programmes

## Target state

- ➔ Interrelated measures with a comprehensive effect
- ➔ Researchers/innovators connect and solve the problem together
- ➔ Groups of solvers create networks and exploit synergies



# Czech National RIS3 Strategy priorities



# Mission-oriented approach

- ➔ Offers comprehensive solution to a certain societal challenge
- ➔ Based on cooperation, interdisciplinarity and the involvement of not only technical and technological innovations, but also societal innovations
- ➔ The Czech Republic has decided to respond to two social challenges (corresponding with particular SDGs)
- ➔ They reflect urgent challenges from the Czech Republic point of view
- ➔ Their selection was supported by EDP
  - Primary analysis of national strategies and objectives approved by the Czech government
  - Discussion in expert teams (researchers, technology developers, innovators, academia, policy makers, opinion makers, funding providers ...)
  - Brainstorming, topic clustering, generalization...
  - Elaboration of mission concept, wording of mission objectives and R&I topics



New RD&I topics from expert workshops

Topics R&I in key and emerging technologies					
NIP I.*	KETs	KETs	KETs	KETs	
NIP II.	KETs	KETs	KETs	KETs	KETs
NIP III.*	KETs	KETs	KETs	KETs	
NIP IV.	KETs	KETs	KETs	KETs	
NIP V.	KETs	KETs	KETs	KETs	KETs
NIP VI.*	KETs	KETs	KETs	KETs	
R&D Strategic Topics (ST) in application sectors					
NIP I. *	ST	ST	ST	ST	
NIP II.	ST	ST	ST		
NIP III.*	ST	ST			
NIP IV.	ST	ST	ST	ST	
NIP V.	ST	ST			
NIP VI.*	ST	ST	ST		
Humanities, arts and social sciences (HASS) topics					
NIP I. *	HASS	HASS	HASS	HASS	
NIP II.	HASS	HASS	HASS	HASS	
NIP III. *	HASS	HASS	HASS	HASS	
NIP IV.	HASS	HASS	HASS	HASS	
NIP V.	HASS	HASS	HASS	HASS	
NIP VI.*	HASS	HASS	HASS	HASS	

\*NIP consists of two specialization domains

# MISSION CARD

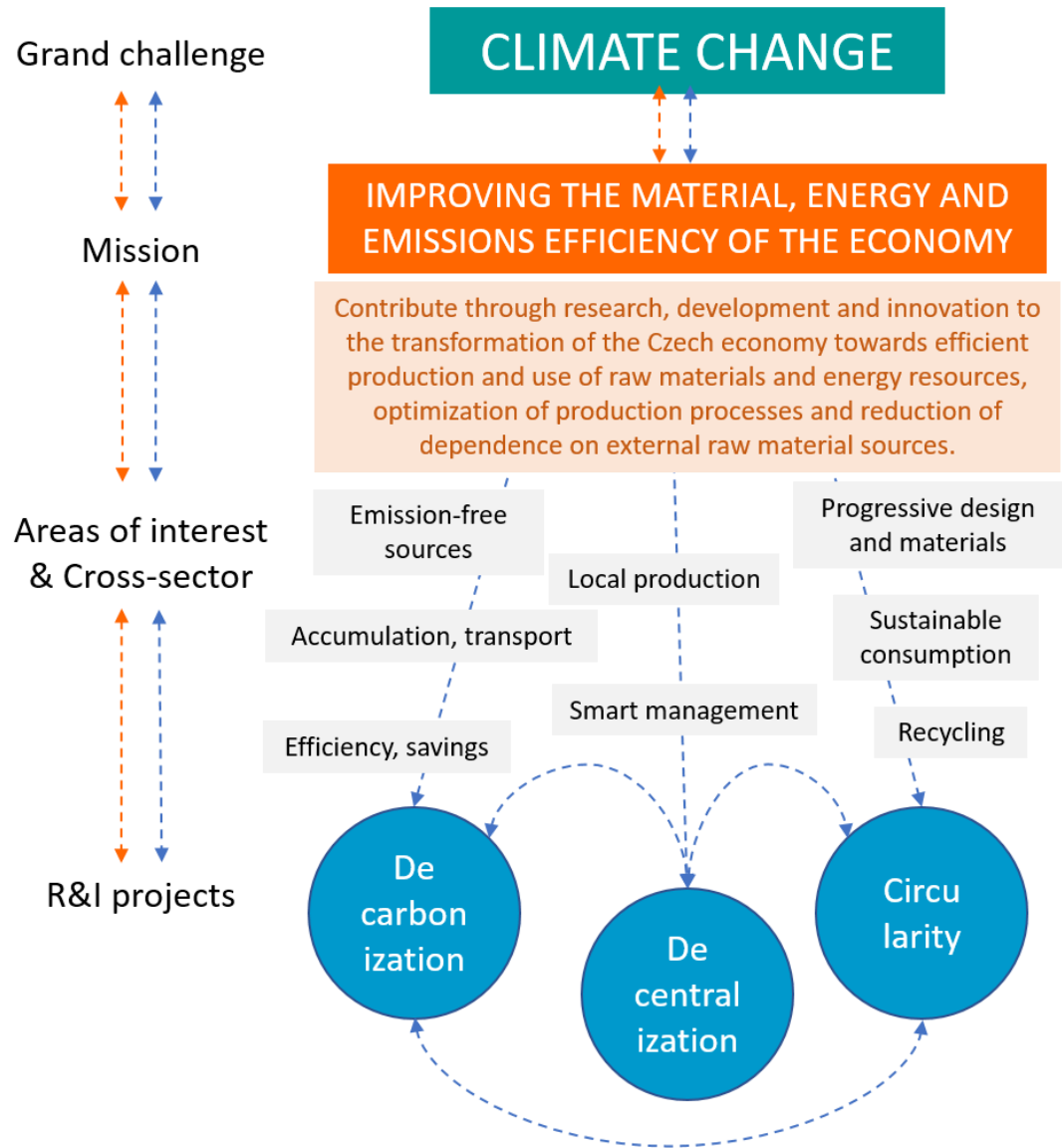


- EXISTED / NEW TOPICS
- TIME
- TARGET / INDICATORS
- FUNDING





# National RIS3 mission „Efficiency...“

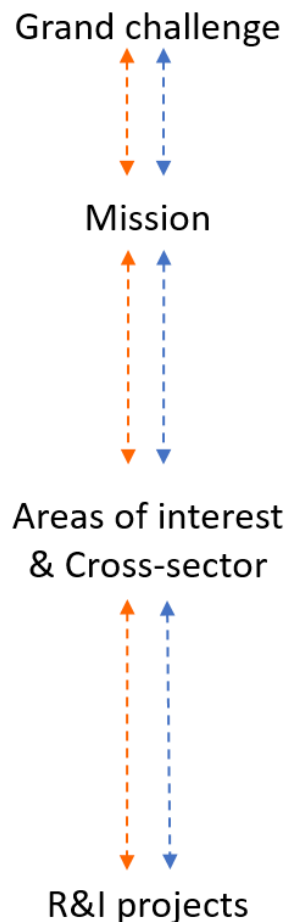


More about this RIS3 mission on the [portal www.ris3.cz](http://www.ris3.cz)

# National RIS3 mission „Resilience...”

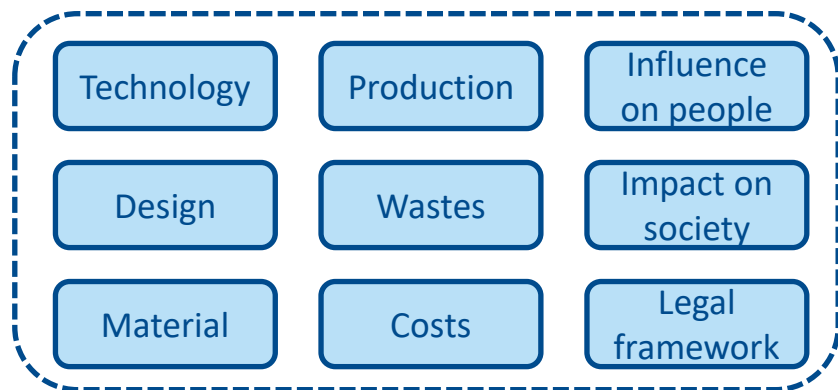


More about this RIS3 mission on the [portal www.ris3.cz](http://www.ris3.cz)



# Can mission change the innovation policy?

- ➔ Missions bring a new perspective to research and innovation
- ➔ They overcome the isolation of individual research teams and innovation adoption
- ➔ They also offer the opportunity to concentrate limited funds from various sources to address current needs
- ➔ While the domains of specialization solve the transition in a specific thematic area, the mission addresses one specific problem that intersects across different areas.



# What's next?

- ➔ We are now at the beginning, in the experimental stage
- ➔ We have designed RIS3 missions and we are working on implementation, monitoring and evaluation setup
  - We are discussing with funding authorities to support mission as much as possible – we aim at maximizing the number of funding providers
  - Together with JRC we are designing the monitoring and evaluation of missions
- ➔ Yet there are some questions that need to be clarify
  - What should be the governance of such a RIS3 mission?
  - How should regions be involved in RIS3 missions? How should cooperate with national level?





Thank you for your attention



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