# S3 Mission: Reflection of current progress

MLE on EU missions implementation at national level:

Mission portfolios

Prague, 23 November 2023



#### 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

Societal challenges

Specific topics focusing on responses to emerging societal challenges resolvable by RD&I

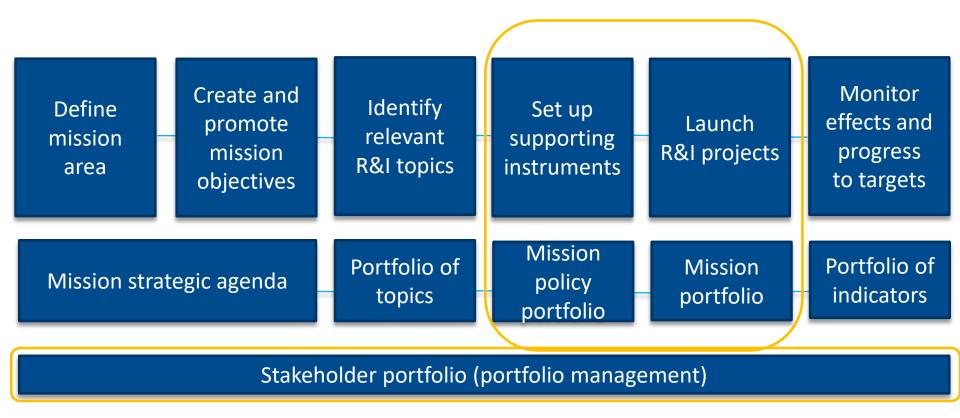
S3 Missions

#### Missions – a new element to support sustainability

- Seeking a new approach to research and innovation policy "via addressing societal challenges"
- → Focus on sustainability pilot project with JRC "Alligning smart specialization with transformative innovation policy" (2023)
- → Interdisciplinary and multi-ministerial approach
- One possible future trend in the allocation of EU R&D&I funds
- Concentrating funds from different sources to support research and innovation and their coordinated use to solve the problem
- Key inputs from the regions in defining and implementing missions

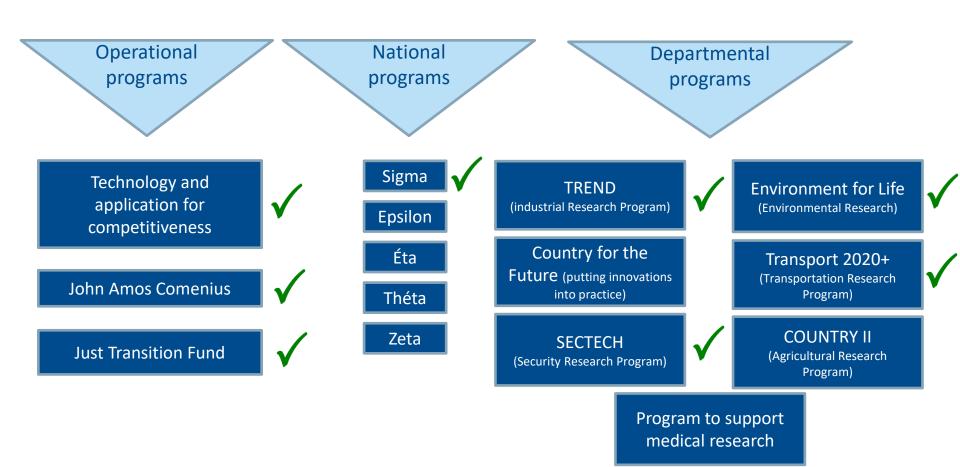


#### Developing S3 missions



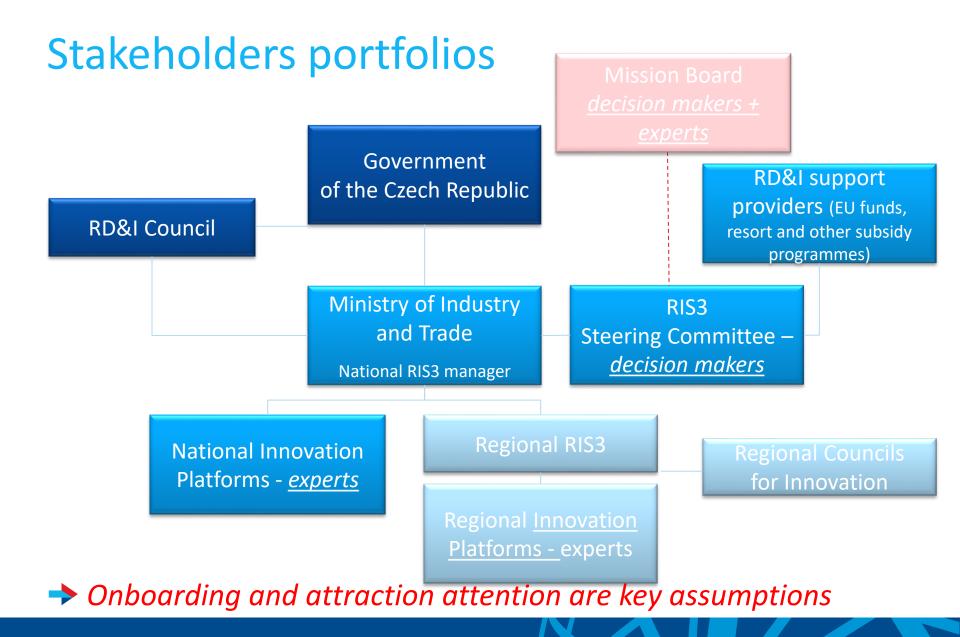
Assigning specific portfolios into different EDP phases is quite intuitive

# Mission policy portfolio – Programs to support applied and oriented research and innovation



## Mission portfolio

- → Awareness-raising (e.g. assistance to municipalities wishing to implement circular solutions; energy consultants' project; human resources support; hydrogen projects on energy storage, etc.)
- Education and training courses (upskilling and retaining)
- Communication with businesses and citizens
- R&D projects at various TRL (technology readiness level)
- → Feasibility studies and investment support for demonstration and pilot facilities
- Key point is dissemination of knowledge



## Portfolio of targets, tools and indicators

#### MISSION M01: STREAMLINING MATERIAL, ENERGY AND EMISSION EFFICIENCY OF THE ECONOMY

		RESOURCES		EFFECT				
CONTEXT	EXPECTED IMPACT	NEEDED FOR IMPLEMENTATION	ACTIVITIES	ACTORS TARGETED / BENEFICIARIES	SHORT TERM (Output Indicators)	MEDIUM TERM (Result Indicators)	LONG TERM (Context Indicators)	SET TARGETS
Global demand for materials, energy and water are increasing beyond sustainable limits.  Waste produced is forecast to grow significantly with impact on biodiversity and health.  Risk of disruption to critical raw materials value chains – need to ensure security of supply for competitiveness.  Relatively low material and energy efficiency of the Czech economy and society (2018 compared to the EU average).	Transformation of the Czech economy towards efficient production and use of raw material and energy resources, optimisation of production processes and a reduced dependence on external raw material sources.  Contribution to SDGs 7, 9 a 12	ESIF OPs, ther ministries/stakeho	R&D projects at various TRL levels.  Feasibility studies and investment support for demonstration and pilot facilities (OP JAK).  Education and training courses (upskilling), communication with businesses and citizens, awareness-raising (e.g. assistance to municipalities wishing to implement circular solutions; energy consultants' project; the Circular Arena Project; Circular Safari; ICOK ENVI Consultation Programme; human resources support; hydrogen projects on energy storage, etc.)  ASSUMPTIONS on card provides for funding re is an implicit assue olders will mobilise othe uilding on the implementati	mption that other er instruments – in	Portfolio of R&D results addressing specific goals for decarbonisation, decentralisation and circularity (number of implemented innovations; enterprises supported by grants; enterprises cooperating with research organizations; nominal value of R&I facilities, etc.).  Development of (national) consortia in thematic areas (number).  Roadmaps (regional) for the development of innovative solutions and systems.  Launch of place-based tests / demonstrators at regional level.  Number of MAs (managing authorities) obtained for cooperation in financing the mission.  Energy and resource-rand impact on energy	0 , 0	ons and measures; region	Reduction of CO <sub>2</sub> emissions by 44 Mt CO <sub>2</sub> eq. (compared to 2005).  Increasing the share of decentralised energy sources to 25 % in 2030.  Triple the rate of material reuse by 2040 (compared to 2017).
		particular those b	uliding on the implementati	on.				

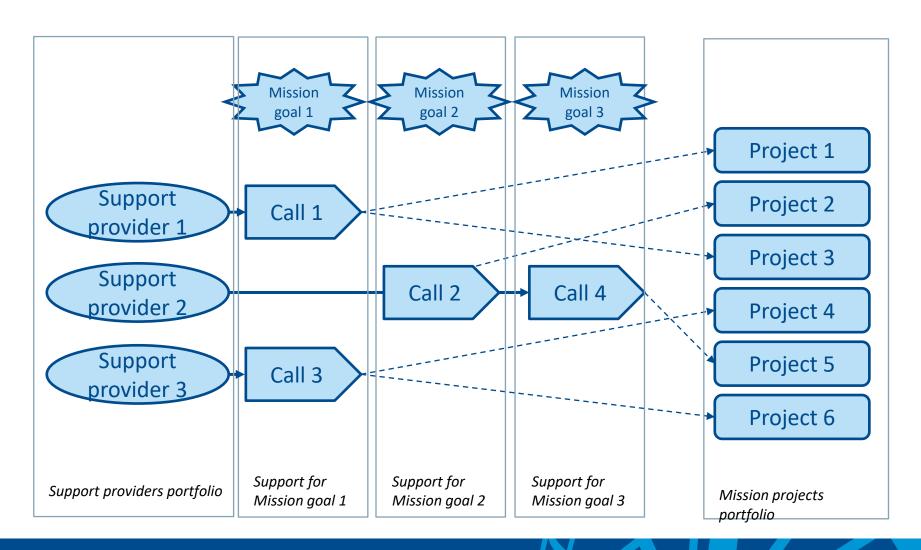
# Thank you for attention!

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## Portfolio approach



### Mission strategic agenda

- There is a link to HEU missions
- → Mission objectives are linked to one or more SDGs
- → The mission responds to one or more major societal challenges in the Czech Republic
- → There is a link to one or more strategic documents of the Czech Republic

> Less is sometimes more



#### Portfolio of indicators

- Output indicators
  - Development of (national) consortia in thematic areas (number)
  - ▶ Roadmaps (regional) for the development of innovative solutions and systems
  - ▶ Launch of demonstrators /testbeds at regional level
- Result indicators
  - Patent applications submitted by supported entities
  - Research jobs created in supported entities
- Contextual indicators
  - Total greenhouse gas emissions
  - The RES share in gross electricity production
  - Material footprint per capita
  - Waste production
- Without monitoring isn't possible to change

