

# Kulatý stůl k přípravě 9. Rámcového programu EU pro výzkum, vývoj a inovace HORIZON EUROPE (2021-2027)

Petr Pracna, Naďa Koníčková

Technologické centrum AV ČR  
4. září 2018

## Pilíře H2020 vs. Horizon Europe (HE)

### Struktura 3 pilířů zůstává zachována

71.1 M€ Excellent Science  
97.6 M€ Open Science

Leadership in Enabling  
Industrial Technologies

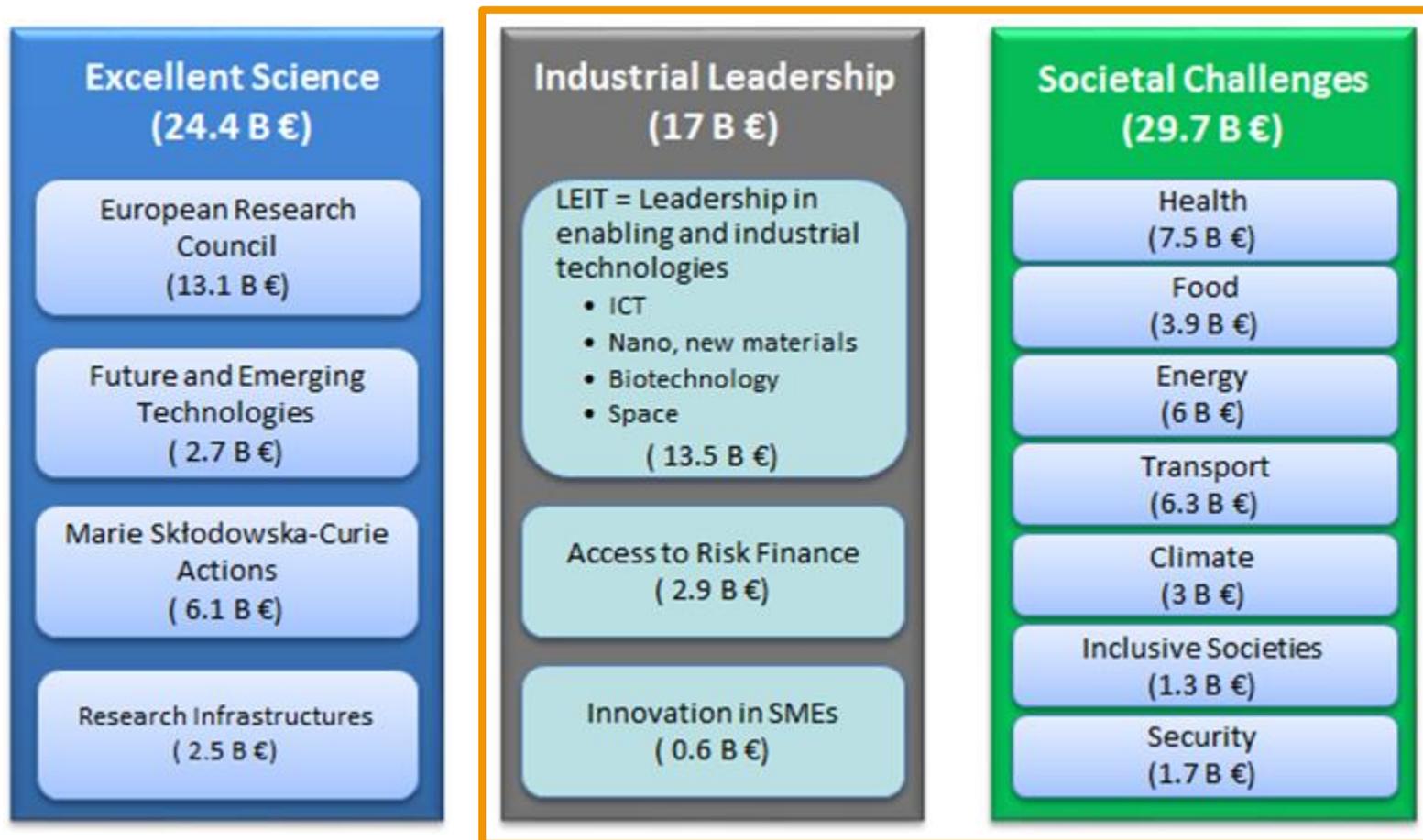
Global Challenges and  
Industrial Competitiveness

Societal Challenges  
(+ EIC Pilot)

Open Innovation



## Pilře H2020 vs. HE



**H2020** - Tematické oblasti      3 (4)      +      7      **46.7**

**HE** - Clustery      5      **50.5**

## H2020 vs. Horizon Europe – rozpočty

	H2020	M€		M€	Horizon Europe
<b>LEIT</b>	• ICT	13.6	}	15	• Digital and Industry
	• NMBP				
	• Space				
<b>Societal Challenges</b>	• Health	7.5	}	7.7	• Health
	• Food	3.9		10	• Food and Natural Resources
	• Energy	6		15	• Climate, Energy and Mobility
	• Transport	6.3			
	• Climate	3			
	• Inclusive Societies	1.3		2.8	• Inclusive and Secure Society
	• Security	1.7			
	• JRC	1.9		2.2	• JRC

5 clusters

## Klastry 2 . Pilíře

- Health
- Inclusive and Secure Society
- Digital and Industry
- Climate, Energy and Mobility
- Food and Natural Resources

**Rationale** - obecné zdůvodnění pro každý klastr

 **Areas of Intervention** - výzvy

 **Broad lines** - okruhy témat

### Areas of Intervention

- Health throughout the Life Course
- Environmental and Social Health Determinants
- Non-Communicable and Rare Diseases
- Infectious Diseases
- Tools, Technologies and Digital Solutions for Health and Care
- Health Care Systems



### *Broad lines (topics)*

- Early development and the aging process throughout the life course
- Maternal, paternal, infant and child health as well as the role of parents
- Health needs of adolescents
- Health consequences of disabilities and injuries
- Independent and active life for the elderly and/or disabled people
- Health education and digital health literacy

## Spojení SC-6 a SC-7

### Areas of Intervention

- Democracy
- Cultural Heritage
- Social and Economic Transformations
- Disaster-Resilient Societies
- Protection and Security
- Cybersecurity



*Broad lines (topics)*

○ ...

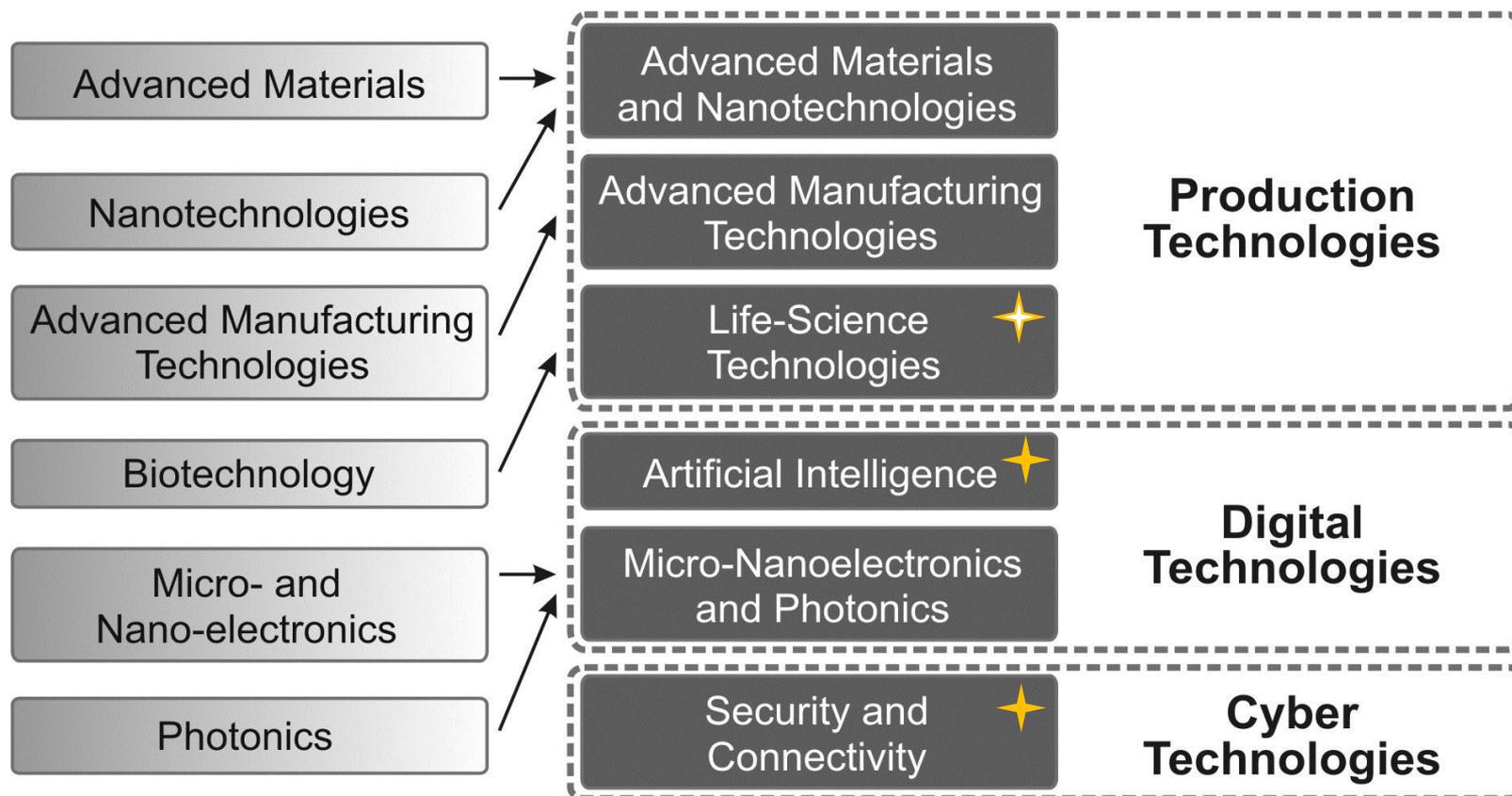
## Spojení 3 programů pilíře LEIT (ICT, NMBP, Space)

### Areas of Intervention

- |  |                                 |
|--|---------------------------------|
| ▪ Manufacturing Technologies           | PPP Factories of the Future     |
| ▪ Key Digital Technologies             |                                 |
| ▪ Advanced Materials                   | PPP Photonics?                  |
| ▪ Artificial Intelligence and Robotics | PPP Robotics                    |
| ▪ Next Generation Internet             |                                 |
| ▪ Advanced Computing and Big Data      | PPP Big Data                    |
| ▪ Circular Industries                  | PPP SPIRE ?                     |
| ▪ Low-Carbon and Clean Industries      | PPP Energy-efficient Buildings? |
| ▪ Space                                |                                 |

## KETs H2020

## KETs 4.0



## Spojení SC-3, SC-4 a SC-5

### Areas of Intervention

- Climate Science and Solutions
- Energy Supply
- Energy systems and Grids
- Buildings and Industrial Facilities in Energy Transition
- Communities and Cities
- Industrial Competitiveness in Transport
- Clean Transport and Mobility
- Smart Mobility
- Energy Storage



#### *Broad lines:*

- Functioning and evolution of the earth-climate system
- Decarbonisation pathways, mitigation actions
- Climate projections and techniques
- Adaptation pathways and policies for vulnerable ecosystems

### Areas of Intervention

- Environmental Observation
- Biodiversity and Natural Capital
- Agriculture, Forestry and Rural Areas
- Sea and Oceans
- Food systems
- Bio-based Innovation Systems
- Circular Systems



#### *Broad lines:*

- Sustainable biomass sourcing and production
- Life Sciences convergence with digital technologies
- Bio-based value chains, materials
- Biotechnology for industrial processes, environmental services
- Circularity of the bio-based economy
- Inclusive bioeconomy, maximising societal impact
- Bio-based economy and synergies with a healthy environment

## Nejaderné akce Společného výzkumného střediska

- Navrhovaný rozpočet: 2,2 M €
- JRC bude i nadále poskytovat vědecké poradenství a podporovat politiky EU
- EK posílí plánování výzkumu, který řeší globální výzvy (II. Pilíř)
- JRC bude přispívat k aktivitám 5 klastrů v II. Pilíři

## Nejaderné akce Společného výzkumného střediska

- Podpora inovací, přenosu technologií a udržitelnosti
- Otevřený přístup ke svým infrastrukturám
- Excellence ve výzkumu a spolupráce s top světovými výzkumnými institucemi
- Rozvoj regionálních a místních politik

## Zdroje / odkazy

- [https://ec.europa.eu/commission/publications/research-and-innovation-including-horizon-europe-iter-and-euratom-legal-texts-and-factsheets\\_en](https://ec.europa.eu/commission/publications/research-and-innovation-including-horizon-europe-iter-and-euratom-legal-texts-and-factsheets_en)
- <https://www.h2020.cz/cs/9-rp/informace>
- <https://www.evropskyvyzkum.cz/cs/nastroje-spoluprace/ramcove-programy/9-rp>
- <http://www.msmt.cz/vyzkum-a-vyvoj-2/evropska-komise-zverejnila-prvni-oficialni-navrh-9-ramcoveho?highlightWords=Horizon+Europe>