



# HORYZONT EUROPA

wprowadzenie do programu i priorytetów w klastrze nr 6

Komitet Nauk Agronomicznych PAN

spotkanie on-line

24 luty 2021



# Polish Science Contact Agency



- ▶ established in Brussels in **2005**
- ▶ supervised and funded by the **Polish Academy of Sciences**
- ▶ part of the network of 6 foreign PAS scientific centres across Europe
- ▶ Legally recognised in Brussels under the *Moniteur belge* and *EU Transparency Register*
  
- ▶ **mission of PolSCA** is to promote, facilitate and foster participation of the **Polish R&D community** in European projects and initiatives. In particular, we aim to strengthen activity of the **PAS community** in the EU framework programs



# Polish Science Contact Agency - PolSCA



## MONITORING

- > EU R&I policy development official + informal
- > Networking regional + (inter)national
- > Translating knowledge >>

## COMMUNICATION & DISSEMINATION



- > Organisation of events trainings + open events + internal policy events
- > PR activities focus on PAS community >>



## SUPPORTING R&I COMMUNITY

- > Targeted activities interests / unit based
- > Engagement at the level of researchers + support staff
- > Building and strengthening community > PAS networks



# Team PolSCA in Brussels



**Tomasz POPRAWKA**  
Director of the Office

- > Planning, coordination & executive activities
- > HE cluster 1 // **Health**



**Justyna KRAMARCZYK**  
R&I Policy Expert

- > HE cluster 2 // **Culture, creativity & inclusive society**
- > **MSCA** Instruments + higher education dimension
- > **Gender Equality** Policy



**Joanna KOMPERDA**  
R&I Policy Expert

- > HE cluster 5 // **Climate\***
- > HE cluster 6 // **Food, Bioeconomy, Natural resources, Agriculture & Environment**
- > **ERC** Instruments

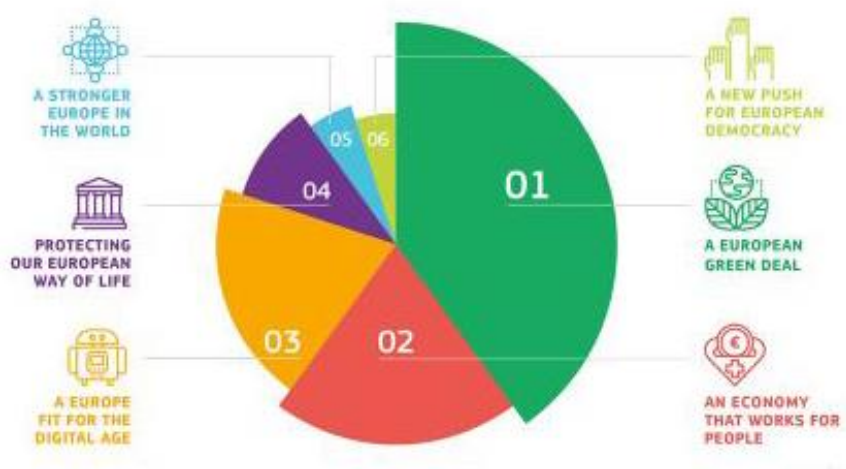
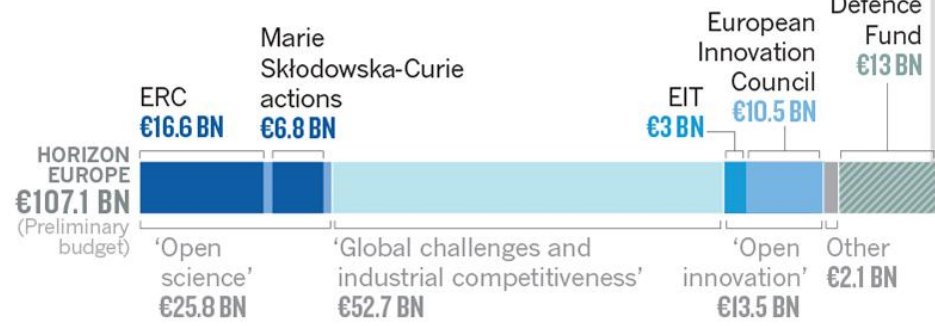
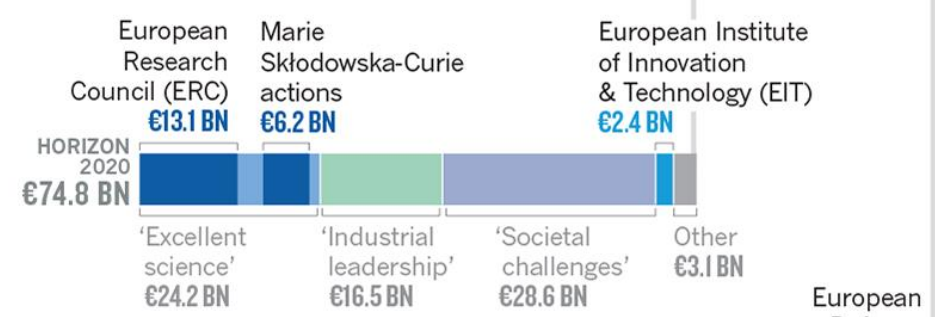
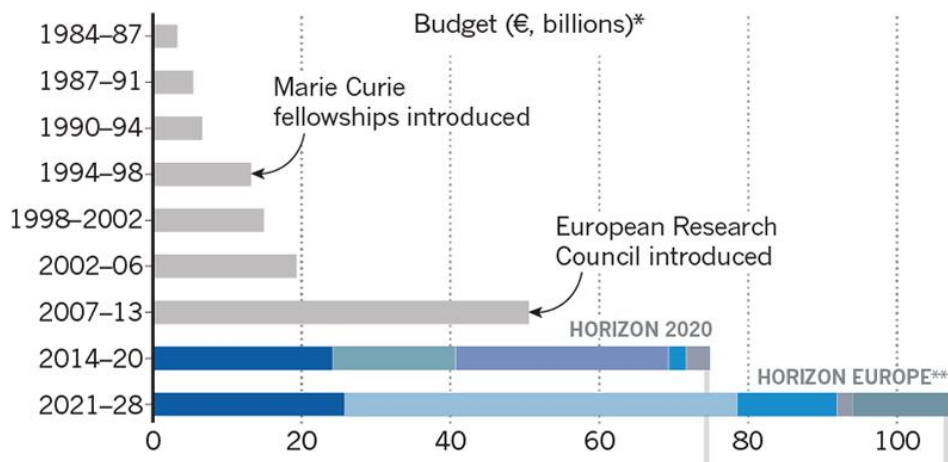
# General overview



**HORIZON EUROPE**



# HorizonEU overview





# HorizonEU overview

A sustainable, fair and prosperous future for people and planet based on European values.

- ▶ Helping to achieve Sustainable Development Goals (SDGs) to enable the **ecological**, **social** and **economic** transitions and related societal challenges
- ▶ Tackling **climate change** (35 % budgetary target)
- ▶ Boosting the Union's **competitiveness** and **growth** with
  - ▶ **leadership** in breakthrough and disruptive **innovation**
  - ▶ Strengthening the EU's **scientific** and **technological** bases and the European Research Area (ERA)
- ▶ Setting **ambitious goals** for issues that affect us daily





# Horizon EUROPE

Excellent Science // 24.9 B €

**ERC** - European Research Council

**MSCA** - Marie Skłodowska-Curie Actions

**RIs** – Research Infrastructures

Global Challenges & Industrial Competitiveness // 53.8 B €

**Clusters:**

- Health
- Culture, creativity & inclusive society
- Civil Security for society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Innovative Europe // 13.4 B €

**EIC** - European Innovation Council

**European innovation ecosystems**

**EIT** - European Institute of Innovation & Technology

Strengthening the European Research Area // 3.4 B €





# HorizonEU :: Pillar I – Excellent Science

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# Pillar I - ERC

Excellent Science // 24.9 B €

ERC - European Research Council

**MSCA** - Maria Skłodowska-Curie Actions

**RIs** — Research Infrastructures

16 B EUR  
17%

- **Excellence** as a sole criterion
- **Peer-review**: evolution vs revolution
- **2021 calls**: already announced
- **GRANT-UP** :: support for applicants



Starting Grants

Consolidator Grants

Advanced Grants

Proof of Concept Grants

Synergy Grants



# Pillar I - MSCA

Excellent Science // 24.9 B €

ERC - European Research Council

MSCA - Maria Skłodowska-Curie Actions

RIs – Research Infrastructures

- **Simplification** across the type of actions
- **Oversubscription**: penalties expected
- **Widening fellowships**: continued as Brain Circulation
- **Work Programme**: still pending

6.4 B EUR  
7%



ITN

RISE

PFs

Researchers Night

COFUND



# HorizonEU :: Pillar II – Innovative Europe

Excellent Science // 24.9 B €

**ERC** - European Research Council

**MSCA** - Marie Skłodowska-Curie Actions

**RIs** – Research Infrastructures

Global Challenges & Industrial Competitiveness // 53.8 B €

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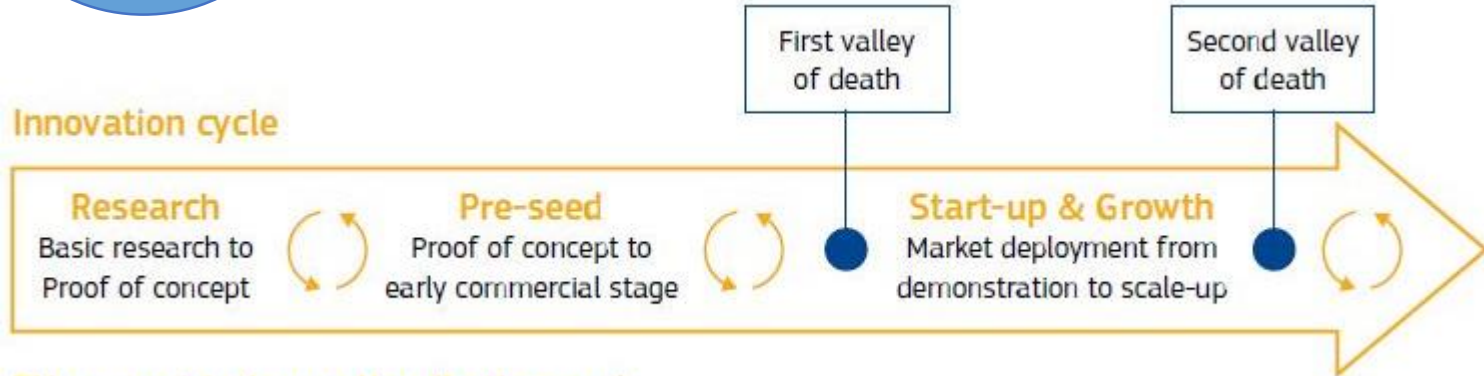
Strengthening the European Research Area // 3.4 B €



# Pillar II - EIC

9.7 B EUR  
10%

## Innovation cycle



## EU support to innovation (bottom-up)



## EU support to innovation (top-down)



Innovative Europe // 13.4 B €

EIC - European Innovation Council

**European innovation ecosystems**

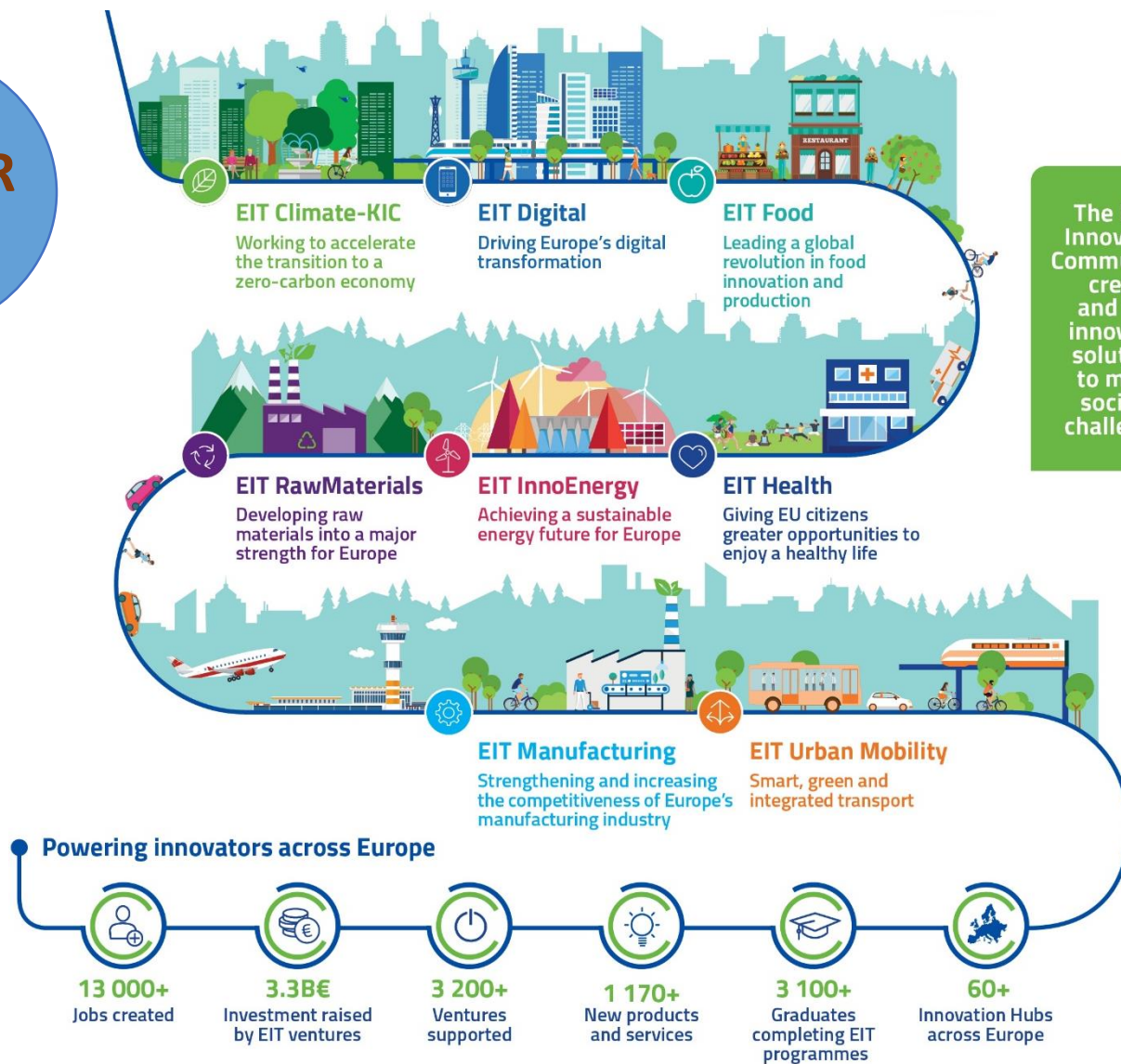
**EIT - European Institute of Innovation & Technology**

#EU\_eic



# Pillar II - EIT

3.1 B EUR  
3%



The EIT's Innovation Communities create and find innovative solutions to major societal challenges

Innovative Europe // 13.4 B €

EIC - European Innovation Council  
European innovation ecosystems

EIT - European Institute of Innovation & Technology





# HorizonEU :: Strengthening the ERA

Excellent Science // 24.9 B €

**ERC** - European Research Council

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**RIs** – Research Infrastructures

Global Challenges & Industrial Competitiveness // 53.8 B €

**Clusters:**

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Innovative Europe // 13.4 B €

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**European innovation ecosystems**

**EIT** - European Institute of Innovation & Technology

Strengthening the European Research Area // 3.4 B €



# HorizonEU :: Advancing Europe

## Widening participation & spreading excellence



Core instruments retained & new included



Widening fellowships: continued as Brain Circulation



Strengthening skills of participants



Emphasis on collaborative links



Focus on synergies



Work Programme: still pending



# Pillar II

**GLOBAL CHALLENGES &  
EUROPEAN INDUSTRIAL  
COMPETITIVENESS**



**HORIZON EUROPE**



# HorizonEU impact pathways



**Collaborative  
research**



**Partnerships**



**Missions**



# HorizonEU impact logic





# HorizonEU clusters

Clusters	Areas of intervention	
<b>Health</b>	<ul style="list-style-type: none"><li>• Health throughout the life course</li><li>• Non-communicable and rare diseases</li><li>• Tools, technologies and digital solutions for health and care, including personalised medicine</li></ul>	<ul style="list-style-type: none"><li>• Environmental and social health determinants</li><li>• Infectious diseases, including poverty-related and neglected disease</li><li>• Health care systems</li></ul>
<b>Culture, creativity and inclusive society</b>	<ul style="list-style-type: none"><li>• Democracy and Governance</li><li>• Social and economic transformations</li></ul>	<ul style="list-style-type: none"><li>• Culture, cultural heritage and creativity</li></ul>
<b>Civil security for society</b>	<ul style="list-style-type: none"><li>• Disaster-resilient societies</li><li>• Protection and Security</li></ul>	<ul style="list-style-type: none"><li>• Cybersecurity</li></ul>
<b>Digital, Industry and space</b>	<ul style="list-style-type: none"><li>• Manufacturing technologies</li><li>• Advanced materials</li><li>• Next generation internet</li><li>• Circular industries</li><li>• Space, including Earth Observation</li><li>• Emerging enabling technologies</li></ul>	<ul style="list-style-type: none"><li>• Key digital technologies, including quantum technologies</li><li>• Artificial Intelligence and robotics</li><li>• Advanced computing and Big Data</li><li>• Low-carbon and clean industry</li><li>• Emerging enabling technologies</li></ul>
<b>Climate, Energy and Mobility</b>	<ul style="list-style-type: none"><li>• Climate science and solutions</li><li>• Energy systems and grids</li><li>• Communities and cities</li><li>• Industrial competitiveness in transport</li><li>• Smart mobility</li></ul>	<ul style="list-style-type: none"><li>• Energy supply</li><li>• Buildings and industrial facilities in energy transition</li><li>• Clean, safe and accessible transport and mobility</li><li>• Energy storage</li></ul>
<b>Food, bioeconomy, natural resources, agriculture and environment</b>	<ul style="list-style-type: none"><li>• Environmental observation</li><li>• Agriculture, forestry and rural areas</li><li>• Circular systems</li><li>• Food systems</li></ul>	<ul style="list-style-type: none"><li>• Biodiversity and natural resources</li><li>• Seas, oceans and inland waters</li><li>• Bio-based innovation systems in the EU Bioeconomy</li></ul>

# Missions



**HORIZON EUROPE**



# HorizonEU Missions

**Bold & transformative** portfolio of actions

**Measureable** goals

**Impact** on the world

**Co-created** with stakeholders

**Mission boards** as key actors involved



Dr Marta POGRZEBA

Instytut Ekologii Terenów  
Uprzemysłowionych -IETU

# Partnerships



**HORIZON EUROPE**



# HorizonEU Partnerships

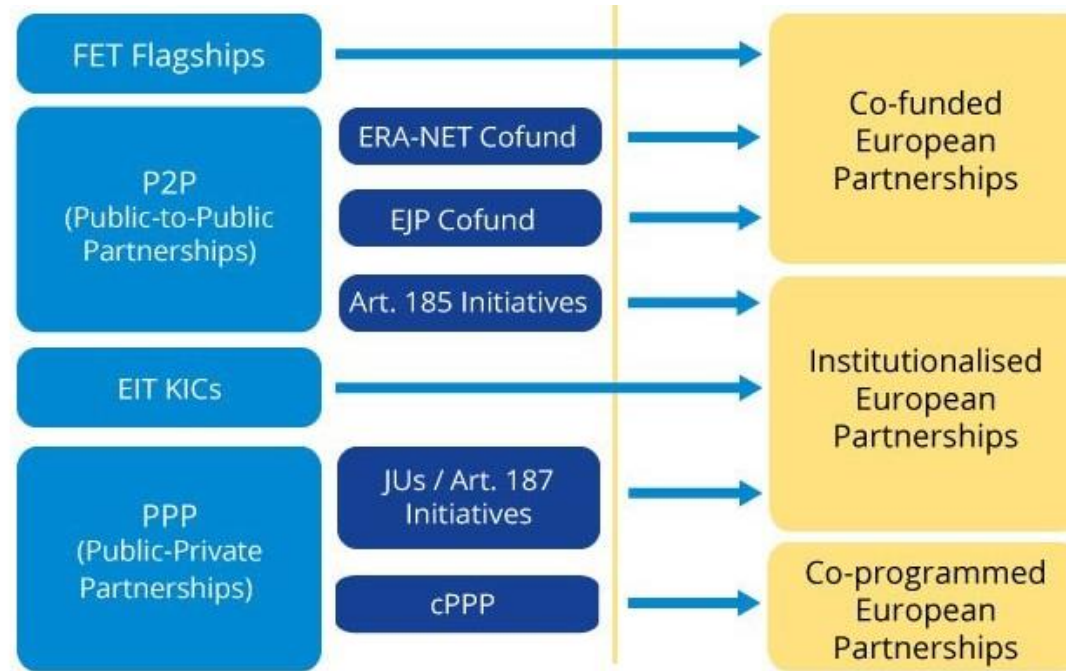
**Rationalization:** less partnerships - more impact

**Openness** (also to other entities) & **transparency**

**Strategic orientation:** responding to key needs

Coherent **life-cycle** approach

**Simpler** architecture and toolbox





# HorizonEU Partnerships

## HEALTH

1. EU-Africa Global Health Partnership
2. Innovative Health Initiative
3. European partnership for chemicals risk assessment
4. Fostering an ERA for health research
5. Health and Care Systems Transformation
6. Personalised Medicine
7. Rare Diseases
8. One Health AMR

## DIGITAL, INDUSTRY AND SPACE

9. High Performance Computing
10. Key Digital Technologies
11. Smart Networks and Services
12. AI, data and robotics
13. Photonics Europe
14. Clean Steel - Low Carbon Steelmaking
15. European Metrology
16. Made in Europe
17. Carbon Neutral and Circular Industry
18. Global competitive space systems

## PILLAR I, III OR CROSS-PILLAR

38. Innovative SMEs
39. European Science Cloud (EOSC)
40. EIT Climate-KIC
41. EIT InnoEnergy
42. EIT Digital
43. EIT Health
44. EIT Food
45. EIT Manufacturing
46. EIT Raw materials
47. EIT Urban Mobility
48. KIC Cultural and Creative Industries
49. Pandemic Preparedness and Societal Resilience

## CLIMATE, ENERGY AND MOBILITY

19. Transforming Europe's rail system
20. Integrated Air Traffic Management
21. Clean Aviation
22. Clean Hydrogen
23. Built environment and construction
24. Towards zero-emission road transport (2ZERO)
25. Mobility and Safety for Automated Road Transport
26. Zero-emission waterborne transport
27. European industrial battery value chain
28. Sustainable, Smart and Inclusive Cities and Communities
29. Clean Energy Transition

## FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE AND ENVIRONMENT

30. Accelerating farming systems transition
31. Animal health: Fighting infectious diseases
32. Environmental Observations for a sustainable EU agriculture
33. Rescuing biodiversity to safeguard life on Earth
34. A climate neutral, sustainable and productive Blue Economy
35. Safe and Sustainable Food System for People, Planet & Climate
36. Circular bio-based Europe
37. Water4All: Water security for the planet



There's more beyond **HorizonEU**

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**BIO**



**e a s t**



## BIOEAST

The Central-Eastern  
European Initiative  
for Knowledge-based  
Agriculture,  
Aquaculture and  
Forestry in the  
Bioeconomy



## INTERNATIONAL RESEARCH COLLABORATION

- MoA is actively dealing with the **bioeconomy** together with the BIOEAST Initiative
- It is an **open** initiative officially established in 2016, currently **11** member states
- Offers a **shared strategic research and innovation framework** for working towards sustainable bioeconomies in the Central and Eastern European (CEE) countries
- Bring **together** CEE countries who face similar issues
- It is a platform for **knowledge** exchange and exchange of **best practices**
- It is a form of **partnership** of CEE countries
- The Initiative is gaining support and recognition also from the **EC**
- 4** political declarations

**Thank you for the attention!**

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