Brussels, 23 June 2023

WK 8564/2023 INIT

LIMITE

ERAC
RECH

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WORKING DOCUMENT

From:	General Secretariat of the Council
To:	Working Party on Research
	ERAC (European Research Area and Innovation Committee)
Subject:	PowerPoint presentations of the ERAC meeting held in Lund on 21-22 June 2023

Delegations will find in the Annex the following PowerPoint presentations submitted to the ERAC meeting held in Lund on 21-22 June 2023:

1. Sweden 2023.eu
2. Spanish Presidency of the Council of the European Union - Research and Innovation
3. Belgian Presidency of the Council of the EU - Draft programme
4. Top 3 National implementation of the ERA Policy Agenda 2022-2024: State of play with regard to national policy vehicles
5. R&I Cooperation with China
6. A coordinated plan on advanced materials

Priorities in the field of Research

- Council Conclusions on high-quality, transparent, open, trustworthy, and equitable scholarly publishing

- Lund Declaration on research infrastructures in the digital transition – maximising the benefit of open research data

- Council Conclusions on European Court of Auditors' special report on synergies between H2020 and ESIF

- Amendment of the Single Basic Act for the inclusion of the Chips Joint Undertaking

sweden 2023.eu
Swedish Presidency of the Council of the European Union

2

Council meetings – Research

Informal Ministerial Meeting
7–8 February, Stockholm

Competitiveness Council
23 May 2023, Brussels

Photo: Johannes Frandsen

Main events – Research

- Presidency inauguration on 13–14 January in Kiruna and at Esrange!

- ERAC meeting
  14 February, Brussels

- Presidency Conference
  Deep Tech Entrepreneurship for an Innovative, Resilient and Competitive Internal Market
  1–2 June, 2023, in Stockholm

- Presidency conference
  The Potential of Research Data: How Research Infrastructures
  Provide New Opportunities and Benefits for Society
  19–20 June, Lund

- Attaché trip
  21–23 June (RWP 21 June), Lund

- ERAC meeting
  21–22 June, Lund

- Presidency conference
  The Future of Life Sciences – the Era of Precision Medicine
  26–27 June, Stockholm

sweden2023.eu
Swedish Presidency
of the Council of the
European Union

Thanks to all for good support and cooperation!

We wish the best of luck to the Spanish presidency!

Spanish Presidency of the Council of the European Union
Research and Innovation
ERAC, 21st June 2023

"Europe, closer"

Re-industrialise the EU and guarantee its open strategic autonomy

Strengthen the European unity

Four priorities

Advance in the ecological transition and environmental adaptation

Promote greater social and economic justice
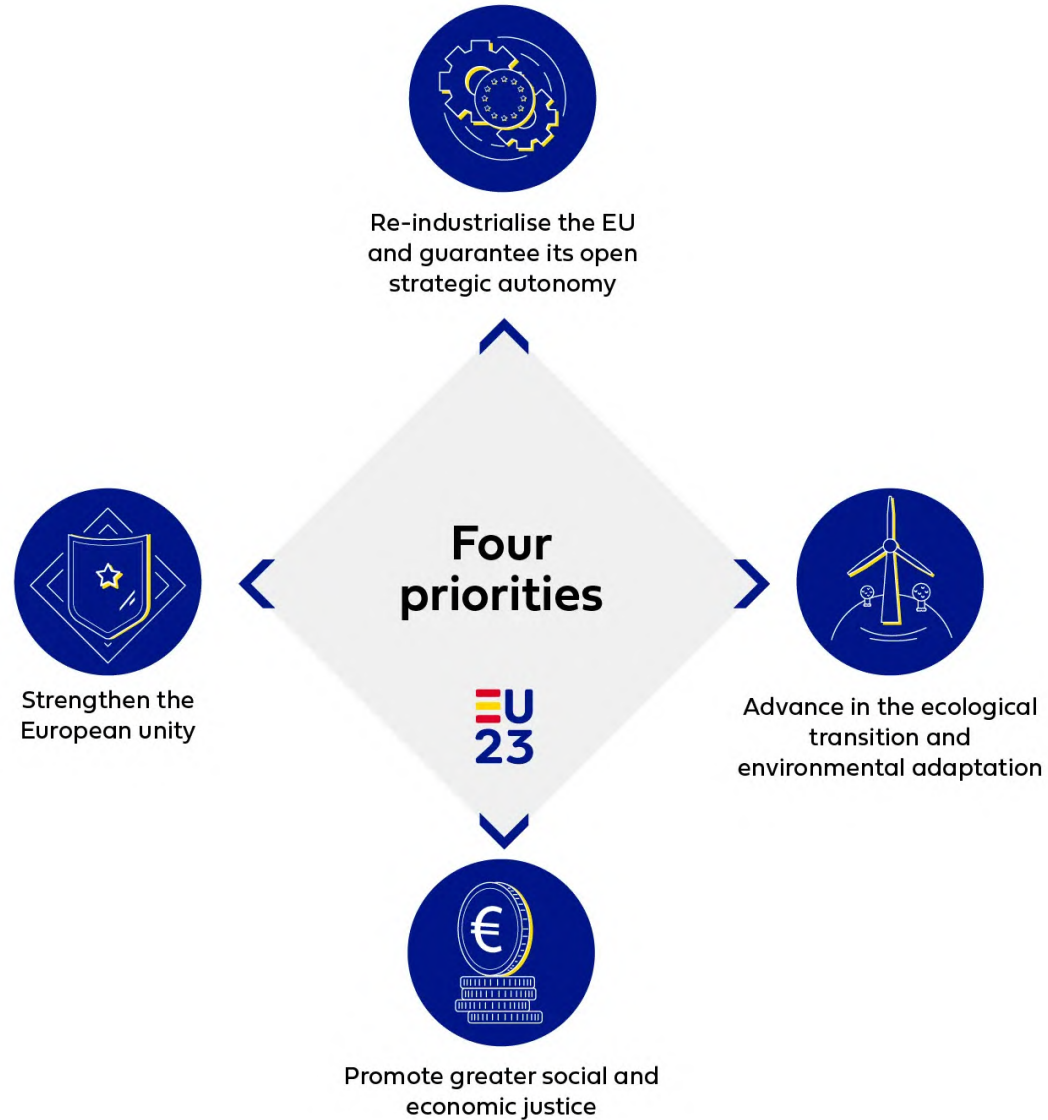
Thematic priorities in the field of Research and Innovation

- Extension of the Decision of the EP and the Council on the participation of the Union in the Partnership Research and Innovation in Mediterranean Area (PRIMA)

- **Council Conclusions on strengthening the role and impact of research and innovation in the policy making process in democratic societies, with three main pillars**:

  - ✓ Science for the public policy process: **knowledge to improve the lives of citizens and strengthen democracy**

  - ✓ Regional and local innovation ecosystems: **Improving cooperation and territorial cohesion through R&I**

  - ✓ A qualitative leap in European R&I policies to **improve the competitiveness and welfare: Policy impact of the Recovery and Resilience Facility (RRF) on the ERA**

- Presidential Declarations:
  - ✓ Tenerife Declaration on **Research Infrastructures in the global dimension**

Council Meetings - Research

Informal Ministerial Meeting

- 27-28 July, Santander

Competitiveness Council

- 8 December, Brussels

INFORMAL MINISTERIAL MEETING 27-28 JULY

AGENDA

☐ **27th July:**

➢ **Official Dinner**

☐ **28th July:**

➢ **Plenary session 1**: Role of Scientific Diplomacy on actual times

➢ **Working Lunch**: Presentation of the IFMIF-DONES Project

➢ **Plenary session 2:** Policy Dialogue on the 2nd Strategic Plan for Horizon Europe (2025-27)

PRACTICALITIES

▪ Invitations launched 15th June

▪ Delegation 1 + 2 + Sec

▪ Main Room 1+0

▪ Listening Room +2

▪ Simultaneous Interpretation 5/5: DE, EN, ES, FR, IT

DEADLINES

Date¤	What·has·to·be·done¤
22·June¤	- → Opening·of·the·online·accreditation· platform¶ - → Appoint· the· Delegation· Accreditation· Officer· (DAO)· in· order· to· proceed· with· the· accreditation.¤
28·June¤	Deadline·for·appointing·the·DAO·from· each·country¤
From·22·June·to·12· July·2023¤	Registration·of·delegations¤
12·July·¤	Deadline·for·accrediting·the·delegation¤
27·and·28·July¤	Informal· Meeting· of· Competitiveness· Ministers·(Research)¶

Presidency Conferences on Research and Innovation:

Barcelona 11-13 July	• Presidency Conference on Cultural and creative industries, cities and citizens fostering sustainable development and the European way of living
Tenerife 25-26 September	• Presidency Conference on Research Infrastructures
Valencia 4-5 October	• Presidency Conference on Health Research: Towards a Personalized Medicine
Madrid 10 October	• Next generation Innovators Summit
Viladecans-Barcelona 13-14 November	• Presidency Conference on Revamping the Set Plan
Toledo 14-15 November	• Presidency Conference on Marie Sklodowska Curie
Madrid 18-19 December	• Presidency Conference on Science Diplomacy

Other High Level Events in Spain:

Madrid **21st September**	• Science for Public Policies in Spain. B2B JRC
Malaga **8-9 October**	• ERAC Meeting (EU General Directors for Research)
Gandía (TBC) **23 October**	• Start-up Village Meeting
Almería **4-6 October**	• Attaché Trip (Ressearch)
Barcelona **24 October**	• Inauguration of the MN5 High Performance Computer, B2B to the Gago Conference
Madrid **28-29 November**	Science Europe Workshop on Global Approach

ERAC Meeting, Málaga 8-9 October (1)

Proposed topics for the ERAC meeting in October 2023 (2):

- ERAC task force on "Guidance for the next Framework Programme for R&I"

- The next ERA Policy Agenda (2025-2027)

- Making it work: Advancing European missions through an efficient multilevel governance

- The twin transitions and ERAC's role in achieving it (FI delegation)

- Ukraine situation

(2) Pending on the decision of ERAC Steering Board

Main Features

- **1st Evening: 8th October** Reception & Gala Dinner in Málaga City

- **1 full working day: 9th October** from 9:00 to 16:30

- **Delegation:** 1+1 (maximum)

- **Venue:** The Institute for Mediterranean and Subtropical Horticulture "La Mayora". CSIC-UMA

- **Accommodation:** Prebooked by FECYT at Málaga Centre

- **Other Social Events (tbc):**
  - Tasting of Tropical Fruits
  - Visit to La Mayora Research Centre

Other Relevant Satellite Events

- Large number of other satellite events thorugh Spain in many fields (more tan 20): Health Research, Quantum, Open Science, Missions, etc.

In addition external agenda:

- Brussels & Strasbourg:
  - Conference: Science 4 Policy (11-12 October) [1]
  - 3 Workshops (Clean skyes, Deep Tech and Leaps)

(1) Organised by EC under Spanish Presidency

GOBIERNO DE ESPAÑA | MINISTERIO DE CIENCIA E INNOVACIÓN

https://spanish-presidency.consilium.europa.eu/en/

https://spanish-presidency.consilium.europa.eu/en/news/europa-mas-cerca-presidencia-espanola-ue/

UE23
PRESIDENCIA ESPAÑOLA
CONSEJO DE LA UNIÓN EUROPEA

Ministerio de Ciencia e Innovación

MORE INFORMATION

https://spanish-presidency.consilium.europa.eu/en/

https://spanish-presidency.consilium.europa.eu/en/news/europa-mas-cerca-presidencia-espanola-ue/

Belgian Presidency of the Council of the
EU – Draft programme

1 January 2024 – 30 June 2024

Contents

Thematic priorities

Legislative and non-legislative priorities (TBC)

Highlighted events

Indicative Calendar

Thematic priorities

Open strategic autonomy

Valorisation of research results

Research and innovation in challenges for the EU

- Green deal
- Civil participation
- Health
- International cooperation

CIS CFS

Legislative and non-legislative initiatives (TBC)

ERA second policy agenda 2025-2027

Knowledge valorisation

EU-China Roadmap on science and technology

HEU Association agreements with Japan and South Korea

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CIS CFS

Informal Council (La Hulpe)
14-15/2/24

CIS ⬚ CFS

Global Approach Conference (Residence Palace) 15-16/2/24

ERAC (Namur) 25-26/3/24

MSCA conference (Mons) 18-19/4/24

Workshop Digital/ICT (cluster 4 conference) (Namur) 22-24/4/24

CIS CFS

Europe united against Pandemics (cluster 1)
(Antwerp) 14-15/5/24

CIS ▦ CFS

The Genome Data Infrastructure and Genome of Europe (Brussels) 18-19/5/24
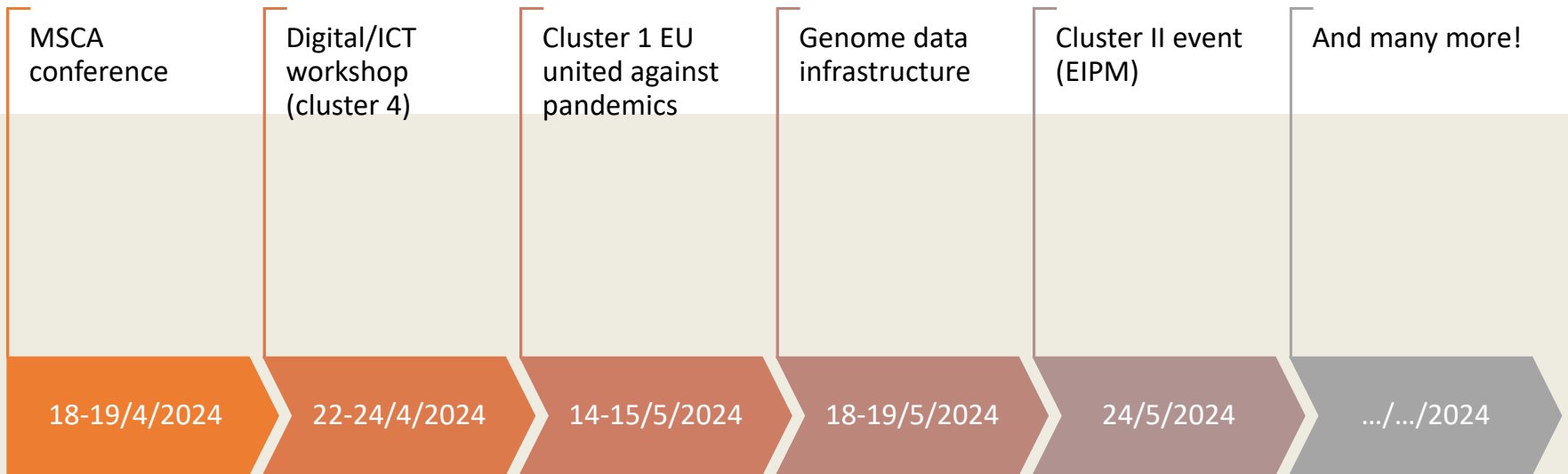
Cluster II conference on evidence-informed
policy making
(Africa Museum) 24/5/24

High level events

Informal council	Global Approach	ERAC plenary	Formal council: Research & Space	Attaché trip RWP
14-15/2/2024	15-16/2/2024	25-26/3/2024	23/05/2024	June 2024

CIS CFS
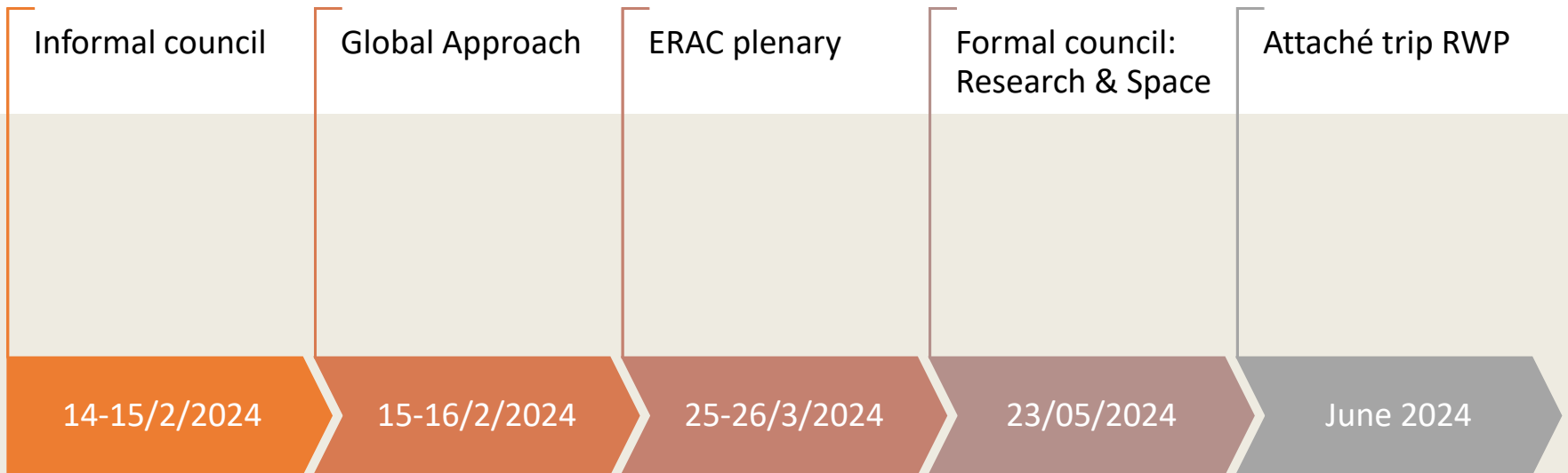
Presidency Events on Research and Innovation

MSCA conference	Digital/ICT workshop (cluster 4)	Cluster 1 EU united against pandemics	Genome data infrastructure	Cluster II event (EIPM)	And many more!
18-19/4/2024	22-24/4/2024	14-15/5/2024	18-19/5/2024	24/5/2024	…/…/2024

CIS CFS

Welcome to Belgium!
Welkom in België!
Bienvenue en Belgique!
Willkommen in Belgien

CIS CFS

TOP 3 National implementation of the ERA Policy Agenda 2022-2024: State of play with regard to national policy vehicles - Presentation by the German delegation

Meeting of the European Research Area and Innovation Committee (ERAC)

June 21, 2023 in Lund

bmbf.de

National Implementation of the ERA

Pact for R&I
• 10 values & principles
• 4 priority areas
• R&D targets
➢ Tailor-made national policy vehicle recommended

ERA Policy Agenda 2022-2024
• Sets out **voluntary** ERA actions in MS
• To contribute to the priority areas in the Pact for R&I
➢ ERA Action 18: national policy vehicle

⇒ How do the Member States approach the **voluntary** implementation of the ERA Policy Agenda?

Federal Ministry
of Education
and Research

ERAC survey on national policy vehicles

A short questionnaire in March/April 2023

- Participation rate: 25 MS and 3 AC => 28 responses

- Overview of national implementation modalities in the light of a "tailor-made" approach

  – Question 1: National Policy Vehicles to implement ERA
  – Question 2: Challenges in the implementation of ERA actions
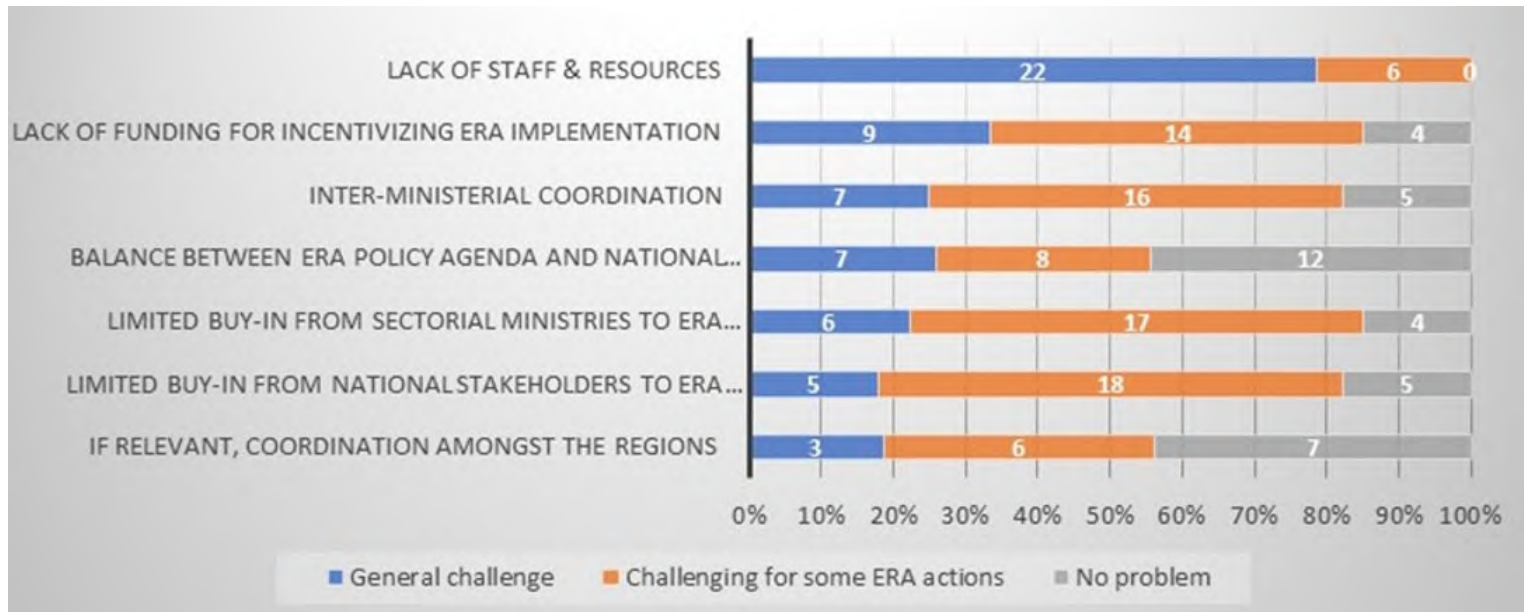 – Question 3: Governance issues
  – Question 4: Lessons learnt

Question 1: National Policy Vehicles to implement ERA

National Policy Vehicles to implement ERA

- Dedicated Policy Vehicle — 19%
- Integral Part of National Strategy — 32%
- Case-by-case Implementation — 46%
- Different Way — 3%
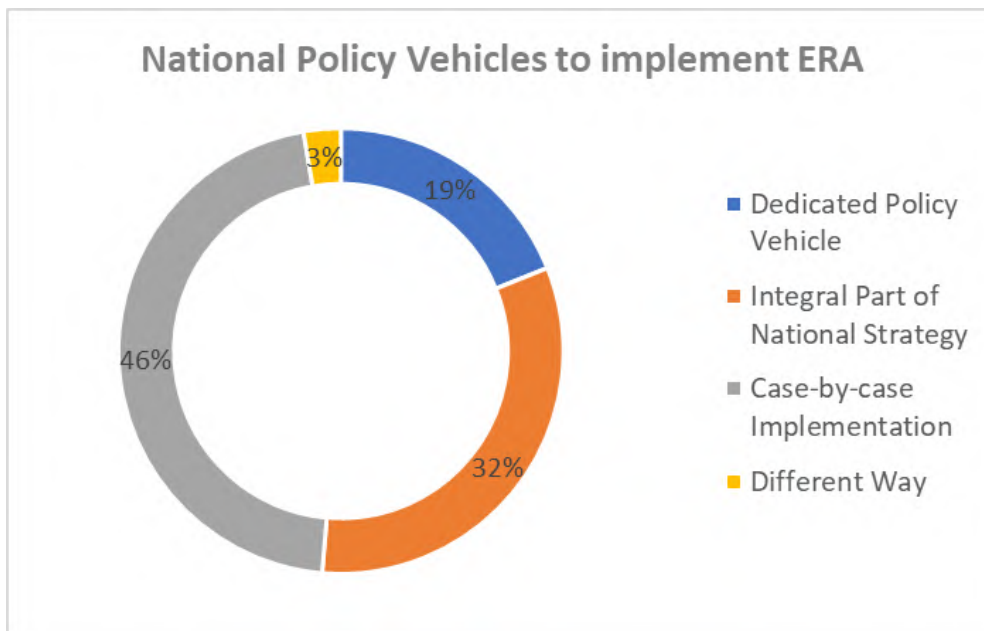
Question 2: Challenges in the implementation of ERA actions

Question 3: Governance issues

- Installation of new political bodies to address ERA implementation (i.e. CZ, PT, NO)

- Implementation by a whole-of-government approach (i.e. IE, AT, EE, BE)

- Installation of regular policy dialogues for the policy coordination of ERA actions (i.e. ES, SK)

Question 4: Lessons learnt

- Tailor-made approach is the right instrument to take into account the diversity of the MS and AC

- Learning by doing (exchange of good practices and MLEs)

- Commission support through Enhanced Dialogue and advice regarding the ERA actions (general criticism: difficult comprehensibility)

- Importance of stakeholder involvement

Questions for discussion

- Which conclusions do you draw from the analysis of the ERAC survey for the present (and future) ERA Policy Agenda and ERA Governance?

- Most Member States indicate a lack of resources as the major challenge for national implementation of ERA. What can we do to take this fact better into account?

Thank you for participating in the ERAC survey and the strategic discussion!

R&I Cooperation with China

ERAC Meeting in Lund, Sweden 21 and 22 June 2023

Ms. Maria Cristina Russo, Director, DG RTD

Rebalancing engagement with China, what are we doing?

- Discussion with China on the Joint Roadmap for the future of EU-China Cooperation in Science, Technology, and Innovation.

Number of the Framework Condition	Title of the Framework Condition	Responsible DG	Agreed sub-points out of total sub-points that compose the Framework Condition
1	Intellectual Property Rights	DG TRADE	1 out 5
2	Pre-normative research, Conformity assessment and Standardisation	DG GROW	5 out of 8
3	Open Science	DG RTD	7 out of 7
4	Research Ethics and Integrity	DG RTD	6 out of 7
5	Access to Research and Innovation Programmes	DG RTD	7 out of 9
6	Mobility of Researchers	DG EAC	5 out of 7
7	Gender Equality in Research and Innovation	DG RTD	1 out of 1
8	Access to Finance	DG FISMA	2 out of 5
9	Access to Government Procurements	DG GROW	0 out of 2
10	Movement of Materials and Equipment across Borders	DG TAXUD	2 out of 5
11	Fair and Transparent Regulatory Frameworks	DG GROW	2 out of 6
12	ICT	DG CNECT	0 out of 5
13	Innovation and SMEs	JRC	3 out of 5

Total of 41 out of 72 sub-points agreed

- 13 framework conditions on research and innovation on the table divided into several subpoints.

- 41 out of 72 sub-points are now agreed on paper (mostly in research).

- Long term and complex process.

- Value in the process itself – creating transparency, enhancing knowledge on China's R&I framework, confronting China with imbalances, backing policy choices with concrete evidence.
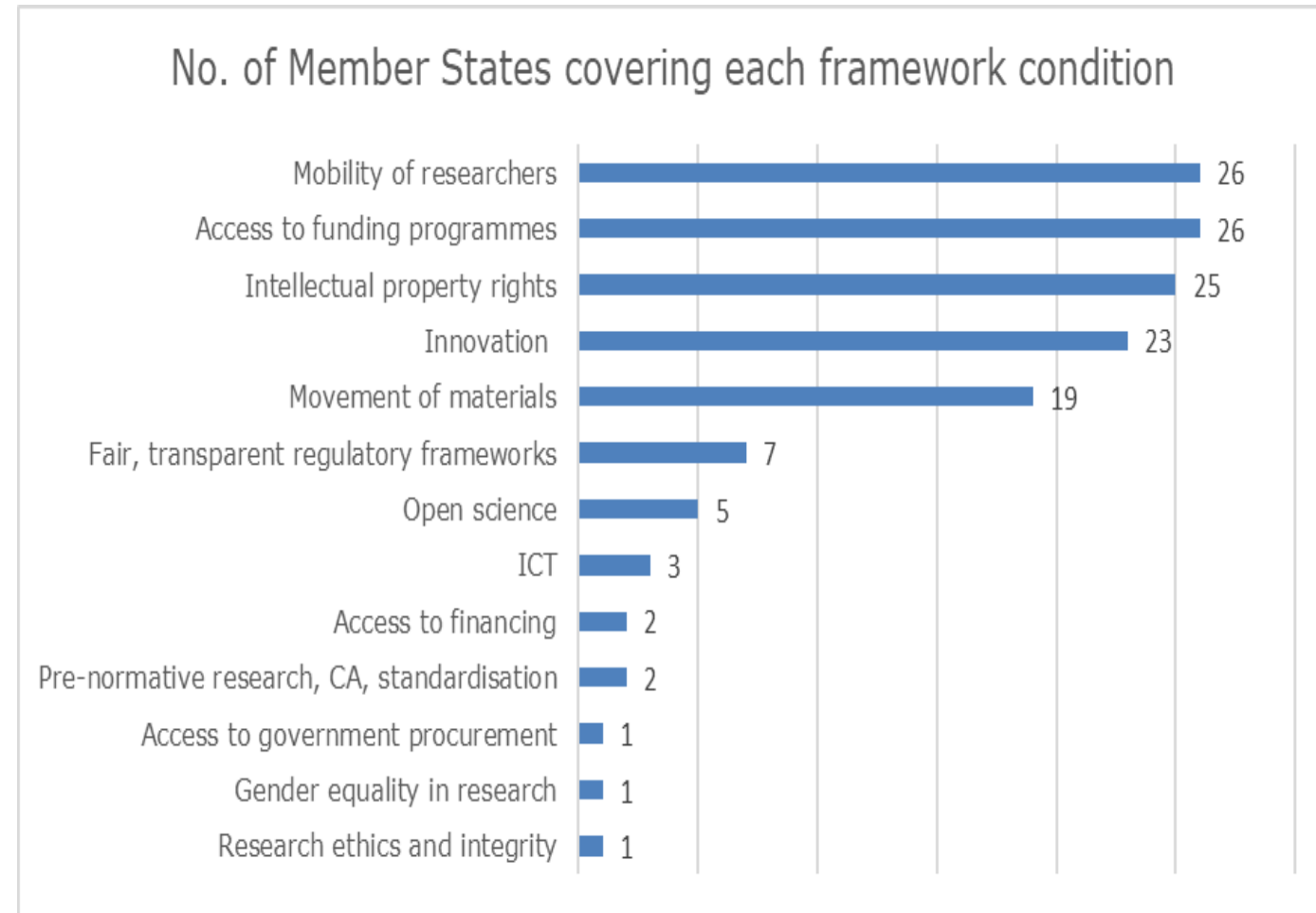
European Commission

Rebalancing engagement with China, what are we doing?

EU-CHINA
Partnership Facility
中国一欧盟伙伴关系项目

EU-CHINA STI ROADMAP:
COOPERATION TRACKERS

Draft Report

31 May 2023
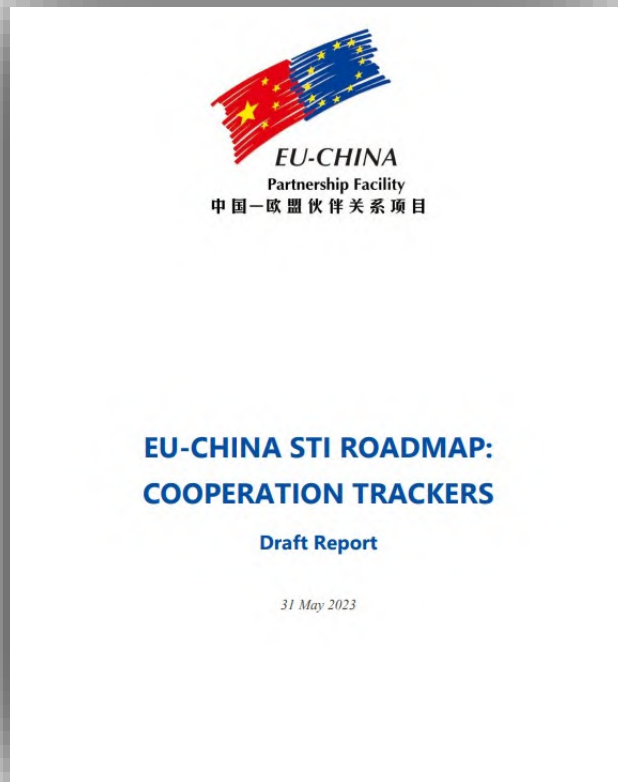
- Agreement on paper doesn't necessarily mean change on the ground.

- We started <u>monitoring and evaluating the framework conditions</u> of the Roadmap on a rolling basis.

- First Roadmap Tracker document was recently produced and shared with the Member States through EUKNOC and through the EU Delegation in Beijing.

- Main findings in a nutshell – while some progress has been registered on 20 sub-topics, for the rest, no progress has been recorded and in many fields the situation is worsening.

- In the current context, in our view cooperation should be more targeted.

European Commission

Building leverage and coordinating our efforts

- Article 22(6) of the HE Regulation.

- Important we find a baseline with regards to what we ask China to uphold when we engage. If we don't, they will circumvent us.

- Study produced and shared with member States on coherence between Member State MoUs on STI with China and the Roadmap.

No. of Member States covering each framework condition

Framework condition	No. of Member States
Mobility of researchers	26
Access to funding programmes	26
Intellectual property rights	25
Innovation	23
Movement of materials	19
Fair, transparent regulatory frameworks	7
Open science	5
ICT	3
Access to financing	2
Pre-normative research, CA, standardisation	2
Access to government procurement	1
Gender equality in research	1
Research ethics and integrity	1

European Commission

Scouting for Opportunities

- Moving from openness to a transactional approach entails a deep knowledge of China's R&I ecosystem to identify where opportunities for beneficial engagement lie

- China has been working on open source STI intelligence for years. We are starting now.

- Working on the development of mappings of China's R&I ecosystem –

Mappings are documents that describe the state of affairs in China for specific areas, with its strengths and weaknesses. They include bibliometric analysis of scientific publications, Chinese R&D funding, patent positions as well as overviews of the most important university research groups, institutes and industry players.

- Mappings allow us to extract policy-relevant information.

European Commission

Mappings – Example

Initial research spending to commercial focus flow[27]
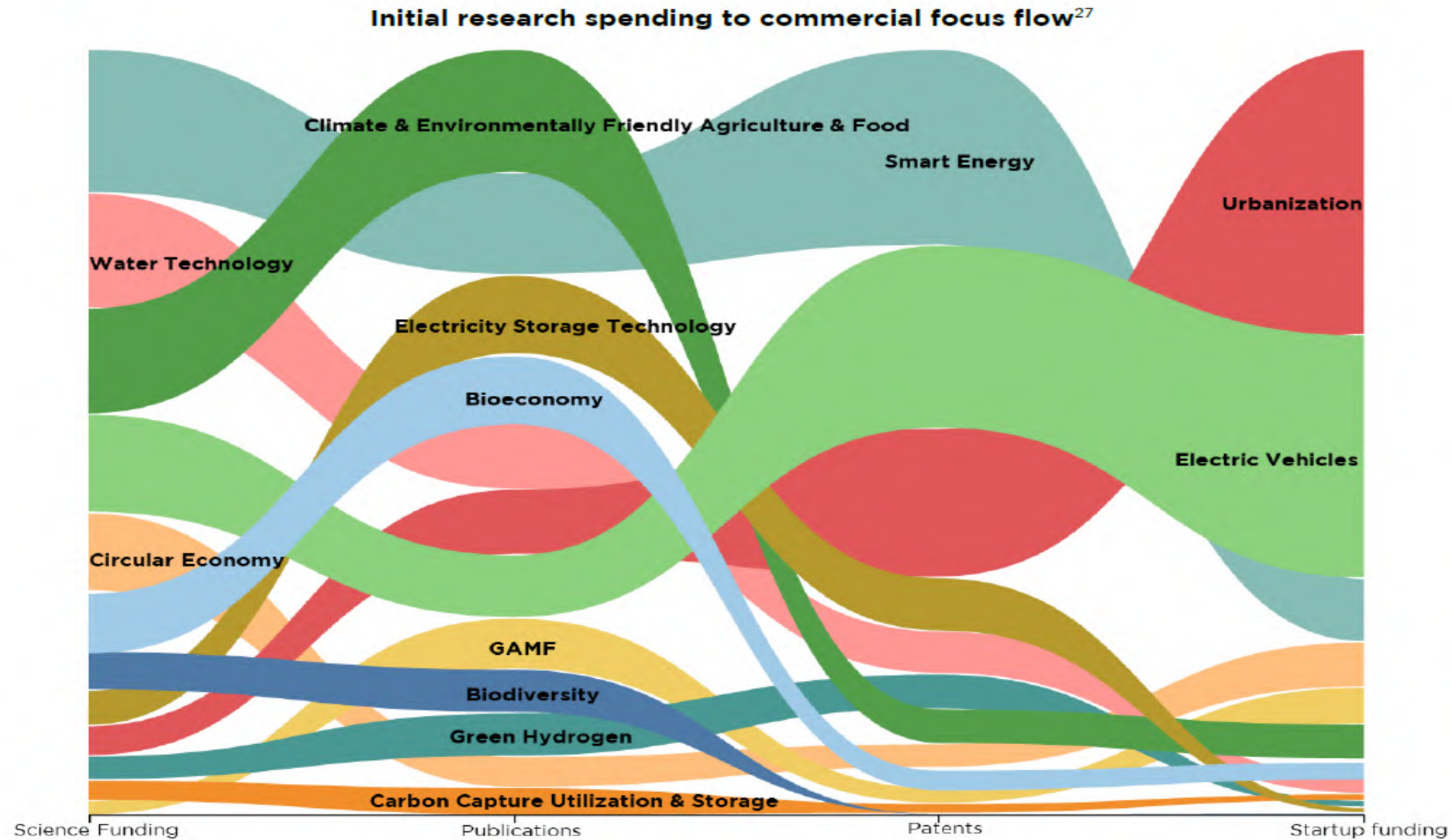
Mitigating risks of foreign interference beyond Horizon Europe

- Working to operationally follow-up on the staff working document on tackling R&I foreign interference published last year.

- In line with the Commission's policy line on this work, most tools being developed are country-agnostic.

- However, one tool under development is China specific – Due Diligence Database.

European Commission

Thank you

A coordinated plan on advanced materials

ERAC meeting, 21-22 June, Lund, Sweden

Sofie Nørager
Deputy HoU, Industrial Transformations
DG Research and Innovation

Recognised importance of advanced materials

2022
- February: key stakeholders presented the Materials Manifesto to the Commissioner Gabriel
- Larger stakeholder group and creation of Advanced Materials Initiative AMI 2030
  - ☞ Materials Roadmap Dec 22

2023
- ☞ Strategic Materials Agenda April 2023
- **CRM Act Communication: Coordinated Plan on Advanced materials with MS**
- Discussions with:
  - CL4 Programme Committee on work programme related challenges
  - Materials initiatives: nanomaterials, lightweight, 2D & graphene, advanced materials

2024
- Expected adoption of the Coordinated Plan

European Commission

Key challenges

⇒ **Strategic autonomy and technological sovereignty for Green Deal technologies**
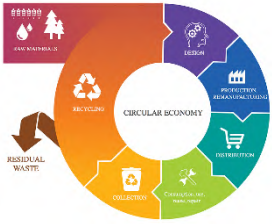
- **Achieve circularity:** materials designed for circularity to use less (scarce) materials, less complex materials, cleanness of secondary materials for performance, new recovery technologies to reduce dependencies, traceability and cooperation across-value chains

- **Digital tools as a game changer**: databases and tools to accelerate the development of new materials. First national initiatives exist: increased collaboration with **all** MS needed to exploit the full potential

- **Accelerate up-scaling and deployment**: High commercialisation costs of advanced materials innovation. Technology infrastructures – opportunities for SMEs to access testing and accelerate the deployment. Continuity of innovation development at higher TRL and improve feedback loop between industry and academia

European Commission

Objectives

To develop a strong, coherent and inclusive materials ecosystem in Europe

➢ Enabling **technological leadership** in the next generation materials

➢ Driving the transition to a **circular economy and the digital age**

➢ Shaping **resilient industrial value chains**

➢ **Secure R&I investments** commensurate with the challenges

Strategic, high-level governance!

European Commission

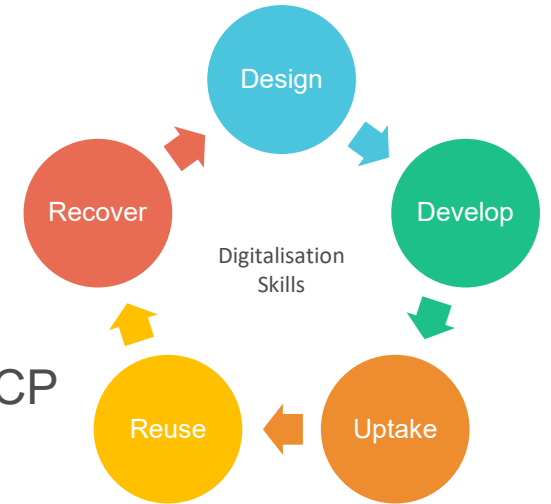# Proposed areas of action - I

- **Alignment of strategies at EU and national level**
  - Establish National and regional research programmes and align with CP
  - Connect ongoing and future initiatives and engage national industries in CP
  - Identification of key strategic markets

- **Design and develop the advanced materials of the future**
  - Support and connect national excellence centres across Europe
  - Fund the design and development of safe, sustainable and circular advanced materials
  - Fund methods and tools for characterisation and assessment of advanced materials
  - Support placed-based innovation on advanced materials e.g. Hubs4Circularity

- **Digitalisation of advanced materials R&I**
  - Explore links to European Open Science Cloud, the European Common Dataspaces and Digital Europe
  - Establish a federated data governance for materials design and development
  - Establish mechanisms for industrial data sharing including for traceability along the value chain

Proposed areas of action - II
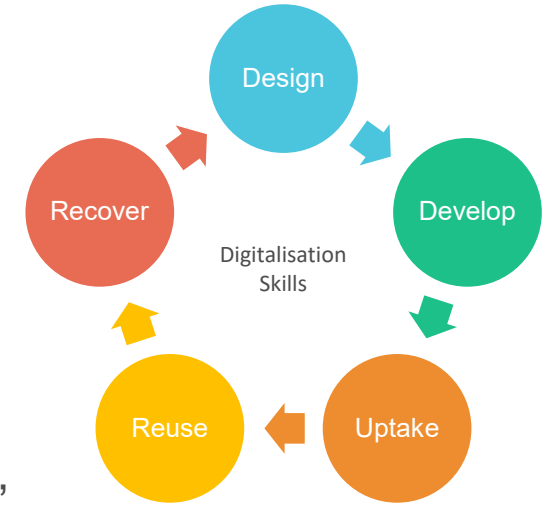
- **Accelerate the uptake of advanced materials**

  - New technology infrastructures for supporting SMEs in deploying advanced materials
  - Ensure synergies between funding programmes to cover 'lab to market'
  - Develop circular manufacturing processes, including the re- and up-cycling of waste, and novel circular business models
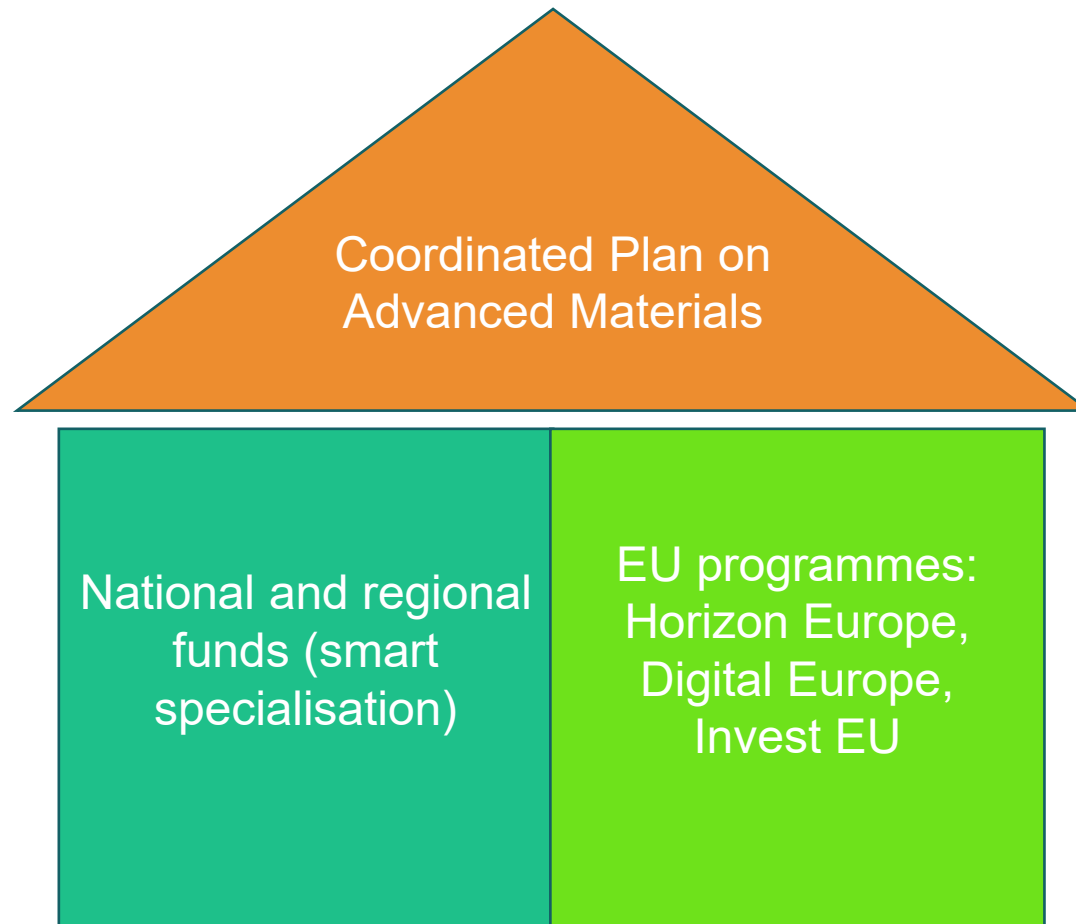
- **Talent: up- and reskilling**

  - Map specific needs on materials science for education, training and work force skills
  - Develop a curriculum on education and training for universities and training centres
  - Seek synergies with existing EIT KICs and Academies funded at EU level, e.g. NZIA Academy

- **International cooperation and competitiveness**

  - Seek mechanisms to share/collaborate with existing initiatives outside the EU
  - Cooperation with Japan to be explored

Joining forces

Coordinated Plan on Advanced Materials

National and regional funds (smart specialisation)

EU programmes: Horizon Europe, Digital Europe, Invest EU

European Commission

Situation in MS – our current knowledge

- National research programmes and strategies focusing on AM:
  - AT, FR, DE, EL, LU, and NL: dedicated programme/strategy
  - BG, CZ, DK, EE, IE, IT, LT, MT, LV, ES and SE: AM are included in national R&I strategies
  - CY, HR and PL: no specific R&I programme/strategy
- Main priorities:
  - Industrial sectors (energy, medicine and health, electronics, ICT and quantum tech, construction and buildings, mobility, textiles, chemical industry, agriculture, food, etc.)
  - Societal challenges (circularity, including recycling and reuse, energy efficiency, reducing environmental pressures and mitigation of climate change)
- Priority setting mechanisms:
  - Open public consultation with national stakeholders (DK, EE, IE, ES, SE)
  - Consultation via ministries (HR and LU), national innovation platforms (AT and CZ), foundation (CY).
  - FR had calls for expression of interests to identify main industrial and research actors.
  - EL is using an advisory committee.

European Commission

Strategic High Level Governance – Why?

1. Exchange information, align priorities and efforts at EU and national level on agreed activities, e.g. on digitising advanced materials science or skills and talents

2. Monitor activities of different players at EU and national level

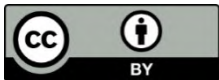3. Give guidance on international cooperation (link with CRM)

European Commission

Strategic High Level Governance – How?

1. A self-standing governance: High Level Expert Group with senior representatives from Research Ministries

2. A governance building on the European Critical Raw Materials Board

   - CRM regulation Article 25.1: '*promote materials efficiency and the substitution of critical raw materials in applications, at least by including support actions to that effect under **national research & innovation programmes**;*'

   - European Critical Raw Materials Board is proposed to be established in the CRM Regulation Chapter 7, Article 34 and Article 35.6 opens the possibility for establishing standing or temporary sub-groups.

European Commission

Questions for discussion

1. Which cooperation and joint actions between the Commission and Member States are needed:

   - To accelerate the uptake of digital tools for the design of advanced materials?

   - To ensure novel materials are sustainable and circular?

   - To align EU and national programmes? *What about skills?*

2. What type of governance would be best to implement a coordinated plan as announced in the Critical Raw Materials Act?

European Commission

Thank you

European Commission