KOREA-EU Horizon Europe Researchers Networking Forum

on Artificial Intelligence

Opening Ceremony and Luncheon Reception

"Celebrating Korea's Association to Horizon Europe"

KERC Korea-EU Research Centre

Korea-Europe QSTCC Korea-Europe Quantum Science Technology Cooperation Center

NRF National Research Foundation of Korea

Ministry of Science and ICT

European Commission

adra The AI Data Robotics Association

PROGRAMME AGENDA 10:30~12:00

Opening
- LEE Daemyung, Director General, Korea-EU Research Centre

Welcome Remarks
- RYU Jeonghyun, Ambassador of the Republic of Korea to the EU
- Signe Ratso, Deputy Director-General, DG RTD, European Commission

Keynote Speech
- Lucilla Sioli, Director, EU AI Office, DG CNECT, European Commission

Group Photo (Special guests, Speakers, Panelists)

Panel Discussion
- CHUN Se-young, Professor, Seoul National University
- Petri Myllymaki, Professor, University of Helsinki
- Emmanuelle Chauvin, Policy Officer, DG RTD, European Commission
- WOO Sangha, Head of Horizon Europe Multilateral Cooperation Team, NRF
- Simon Pickard, Network Director, Science|Business

Closing: KERC's past achievement and Future plan for Horizon Europe
- CHO Woohyun, Former Director General, Korea-EU Research Centre
- LEE Daemyung, Director General, Korea-EU Research Centre

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KOREA-EU Horizon Europe Researchers Networking Forum

Opening Remarks

Daemyung Lee
Director General,
Korea-EU Research Centre

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Welcome Remarks

Jeonghyun RYU
Ambassador of Republic of
Korea to the European Union

Signe Ratso
Deputy Director-General,
DG RTD, European Commission

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Keynote Speech

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Korea-EU Horizon Europe

AI Researchers Networking Forum

Lucilla SIOLI, Director of the EU AI Office
DG CONNECT – European Commission

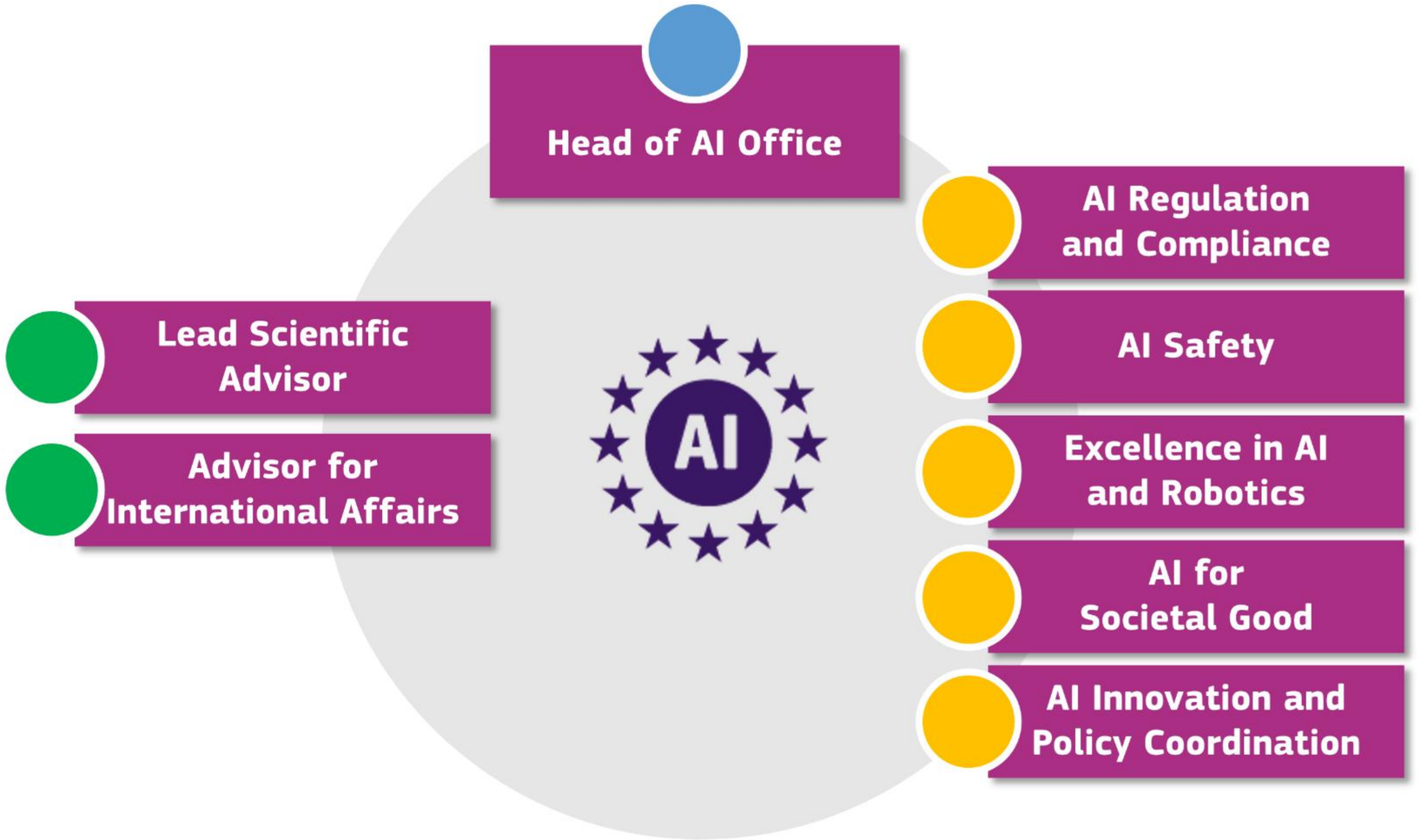
01/04/2025

EUROPEAN **ARTIFICIAL INTELLIGENCE** OFFICE

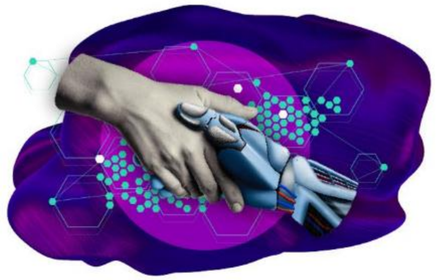
Introducing the European AI Office

360 degrees vision on AI:

- key role in the implementation of the AI Act, especially in relation to general-purpose AI models
- fosters research and innovation in trustworthy AI
- positions the EU as a leader in international discussions and contributor to AI for good

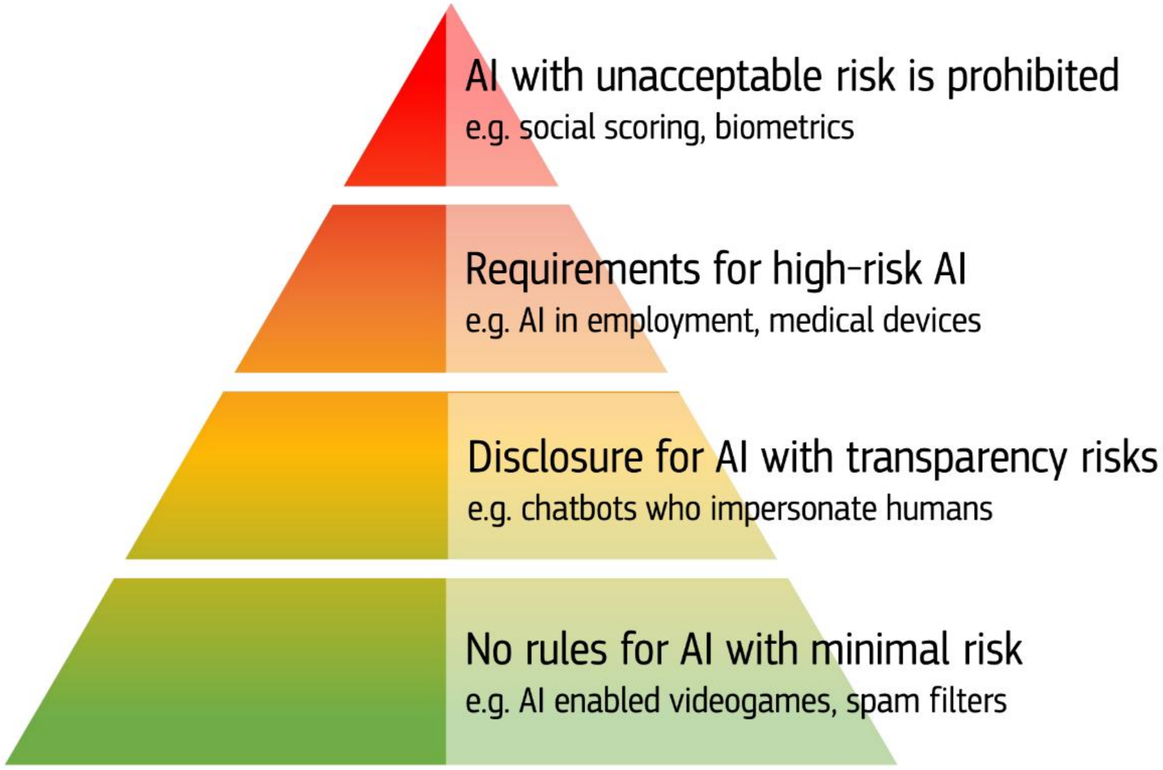


EUROPEAN ARTIFICIAL INTELLIGENCE OFFICE



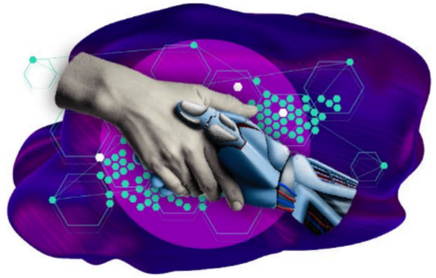
AI Act – For Trustworthy AI in Europe

Risk-based rules for AI systems:



- Product safety regulation
- Complementarity with other EU law
- Fostering responsible innovation
- Involving stakeholders through standards, codes of practice and advisory groups

EUROPEAN **ARTIFICIAL INTELLIGENCE** OFFICE



AI Act – For Trustworthy AI in Europe

General-purpose AI models

= highly capable AI models used at the basis of AI systems such as ChatGPT

Transparency for all general-purpose AI models

+

Risk management for those with systemic risk

Code of practice developed together with ca. 1000 stakeholders with concrete measures and commitments on how to comply with these rules.

Actively participating in the International Network of AI Safety Institutes along with the Republic of Korea, Australia, Canada, France, Japan, Kenya, Singapore, the United Kingdom and the United States.

EUROPEAN ARTIFICIAL INTELLIGENCE OFFICE

Towards the creation of the AI Continent

Supporting the **development of most advanced AI models**

+

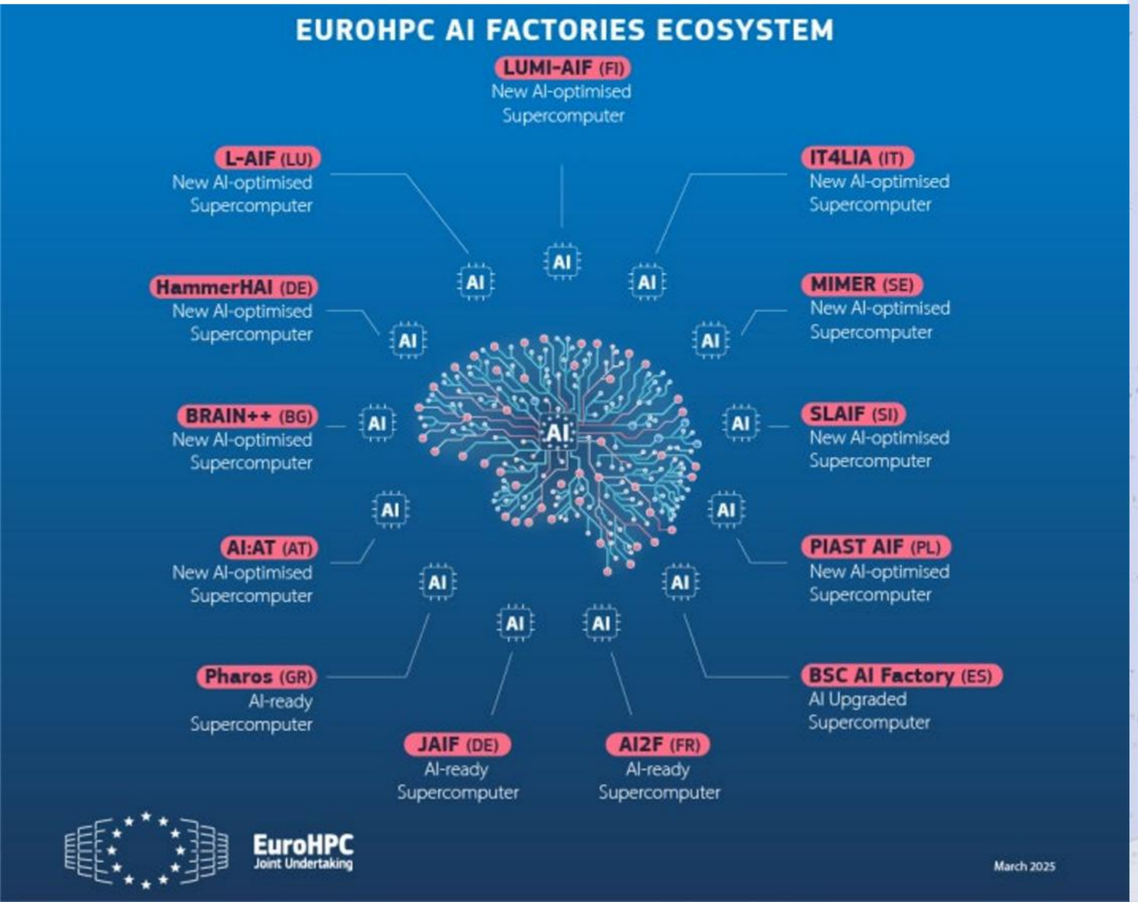
Boosting **AI adoption in strategic sectors**

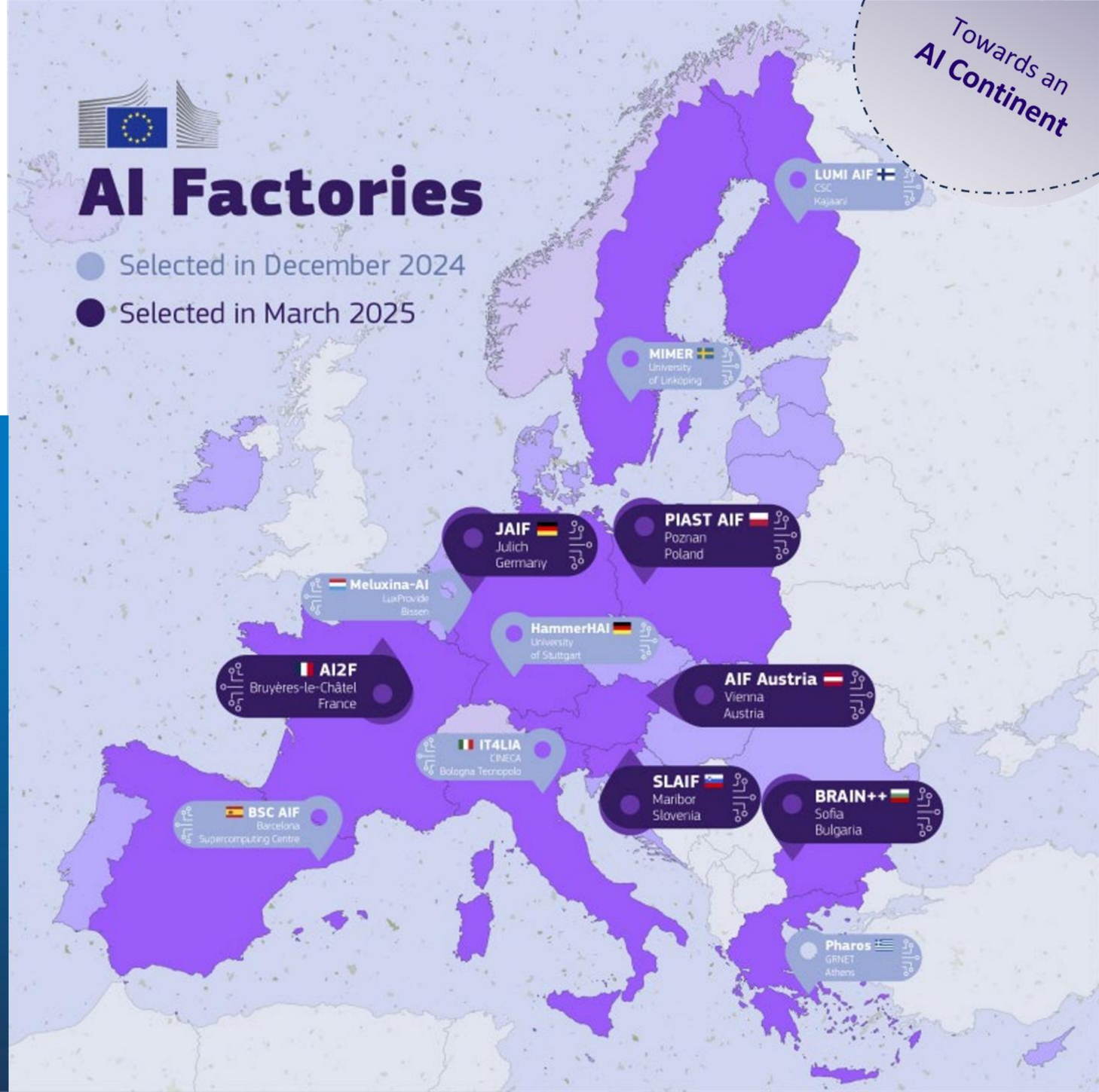
- **AI Factories + AI Gigafactories**
- **Development of algorithms**
- **Cloud and AI Development Act**
- **Data Union Strategy**

- **Regulatory simplification**
- **Apply AI in key verticals**
- **Apply AI the public sector and science**
- **AI skills and talent**

AI Factories

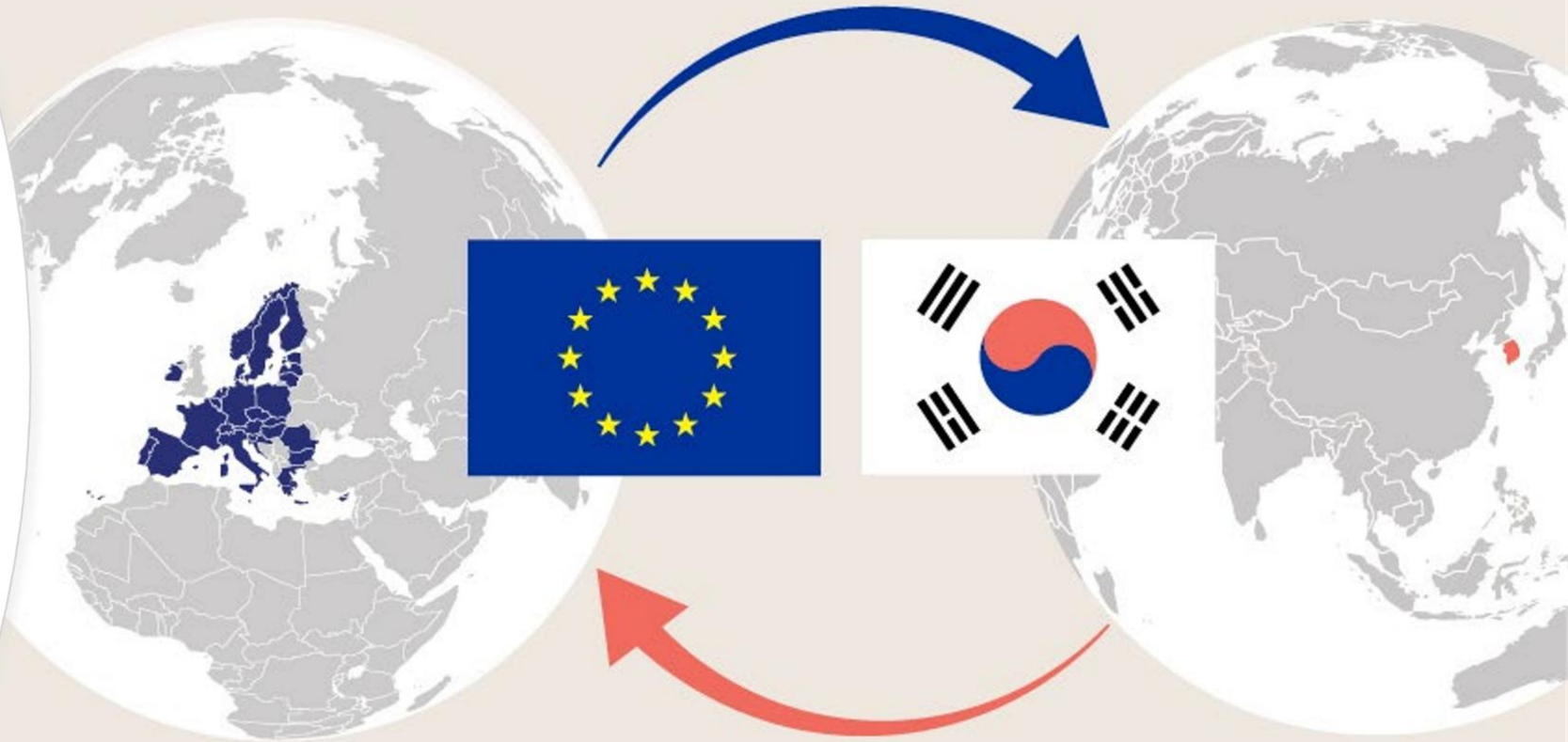
- 13 AI Factories
- Bringing together 17 Member States
- Link to AI Start-ups & AI Researchers





EU – Republic of Korea: Digital Partnership

- Foster joint work in common areas:
  - Semiconductors
  - Next Generation Mobile Networks
  - Quantum Computing
  - High-Performance Computing
  - Cybersecurity
  - Artificial Intelligence
  - Platforms
  - Data
  - Skills



Horizon Europe

SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

Exclusive focus on defence research & development

- Research actions
- Development actions

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*

Exclusive focus on civil applications

Pillar I
EXCELLENT SCIENCE

- European Research Council
- Marie Skłodowska-Curie
- Research Infrastructures

Pillar II
GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

Clusters
- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre

Pillar III
INNOVATIVE EUROPE

- European Innovation Council
- European Innovation Ecosystems
- European Institute of Innovation & Technology*

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

- Widening participation & spreading excellence
- Reforming & Enhancing the European R&I system

€95.5B

2021 → 2027

* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

EUROPEAN ARTIFICIAL INTELLIGENCE OFFICE

Horizon Europe – Open Calls

Horizon Calls open for partners from Republic of Korea

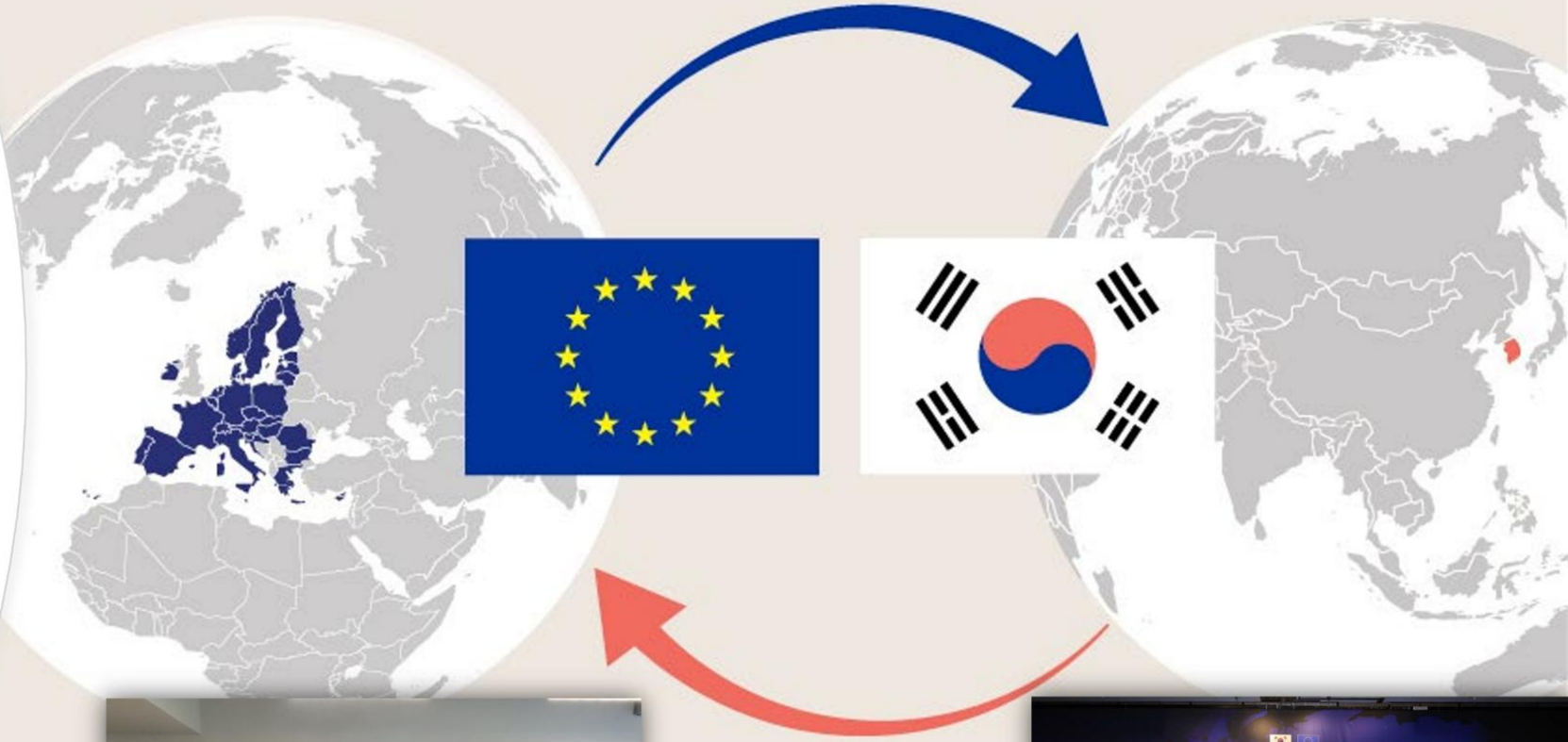
- Calls aimed for **2025,** covering topics on
  - Robust and trustworthy GenerativeAI for Robotics and industrial automation
  - Generative AI for Virtual Worlds: Advanced technologies for better performance and hyper personalised and immersive experience
  - Assessment methodologies for General Purpose AI capabilities and risks
  - Enhanced Learning Strategies for General Purpose AI

More information at: Horizon Europe (HORIZON) | EU Funding &Tenders Portal

EUROPEAN ARTIFICIAL INTELLIGENCE OFFICE

EU – Republic of Korea: Semiconductors projects

1. **ENERGIZE** project:
   - Edge AI computing
   - Smarter, more efficient devices
2. **NEHIL** project:
   - Super efficient LIDAR
   - Improve cost and performance
3. **HAETAE** project:
   - Chips that work with light
   - Big performance increase for AI
4. **ViTFOX** project:
   - Vision Transformer
   - Increased efficiency in vision models



Thank you!

EUROPEAN **ARTIFICIAL INTELLIGENCE** OFFICE

KOREA-EU Horizon Europe Researchers Networking Forum

Panel Discussion

“Horizon Europe Association & Needs and Opportunities for AI Cooperation”

Moderator

Simon Pickard
Network Director, Science|Business

Panelists

Se Young Chun
Professor, Seoul National University

Petri Myllymaki
Professor, University of Helsinki, Member of the Board of Directors at ADR association

Sangha Woo
Head of Horizon Europe Multilateral Cooperation Team, National Research Foundation of Korea

Emmanuelle Chauvin
Policy Officer, International Cooperation Unit, DG RTD, European Commission

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KOREA-EU Horizon Europe Researchers Networking Forum

KERC 2022-2024

Woohyun CHO
Former Director General,
Korea-EU Research Centre

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Korea-EU Research Centre

2022-2024

Director General | Woohyun CHO
Korea-EU Research Centre (KERC)

KERC 2022-2024

About KERC

"A Bridgehead to enhance Korea-EU R&D Cooperation"

Our mission is to promote the R&I cooperation between Korea and the EU

The KERC serves as a platform to facilitate R&I policy and research collaboration

Main Policy Areas:

EU Framework Programme (Horizon Europe)

Korea-EU Digital Partnership (Digital Policy)

Bilateral R&D Cooperation with European Countries

Other Research Funding Programs & Opportunities

KERC 2022-2024

Main Roles

In Summary: We are Korean Horizon Europe Office in Europe, but more than that!

Korean Liaison Office to the EU

The KERC functions as one of overseas offices of the NRF, and it has hosted more than 10 national institutes

It communicates with local authorities to find project partners

National Contact Point(NCP) Coordinator

The KERC coordinates Korean NCPs for Horizon Europe

It organizes education & training workshops for NCPs and provide extensive information on Horizon Europe

Korea-EU Research Cooperation Platform

The KERC connects Korea and Europe to revitalize research cooperation and to create opportunity for joint R&D projects

Korean Observatory on European R&I

To identify potential cooperation areas and to increase awareness and understanding on European R&I landscape, it keeps track of EU's policy and research trends

National Strategic R&D Center for Europe

Enhance global R&D collaborations and support Korean participation in Horizon Europe

Create a network between overseas research centers in region and coordinate their activities

KERC 2022-2024

Our Activities

The KERC connects Korea and Europe by active networking activities

The KERC collects, analyzes, shares and accumulates information to generate knowledge and build database

The KERC identifies and creates opportunities for joint research and career development

The KERC supports and facilitates cooperation on national, governmental, organizational level

The KERC raises awareness of Korea-EU R&I cooperation

The KERC ensures better coordination, governance and hosting service

KERC 2022-2024

History

ROK-EU Summit
2013
Nov

Establishment

Korea Research & Innovation Centre – Europe (KIC Europe) was established as a local non-profit organization

Reformation
2017
Mar

Reformation

KIC Europe was reformed into the **KERC** to focus on R&D and policy cooperation

~ 2024
2022
Mar

Major Upgrade

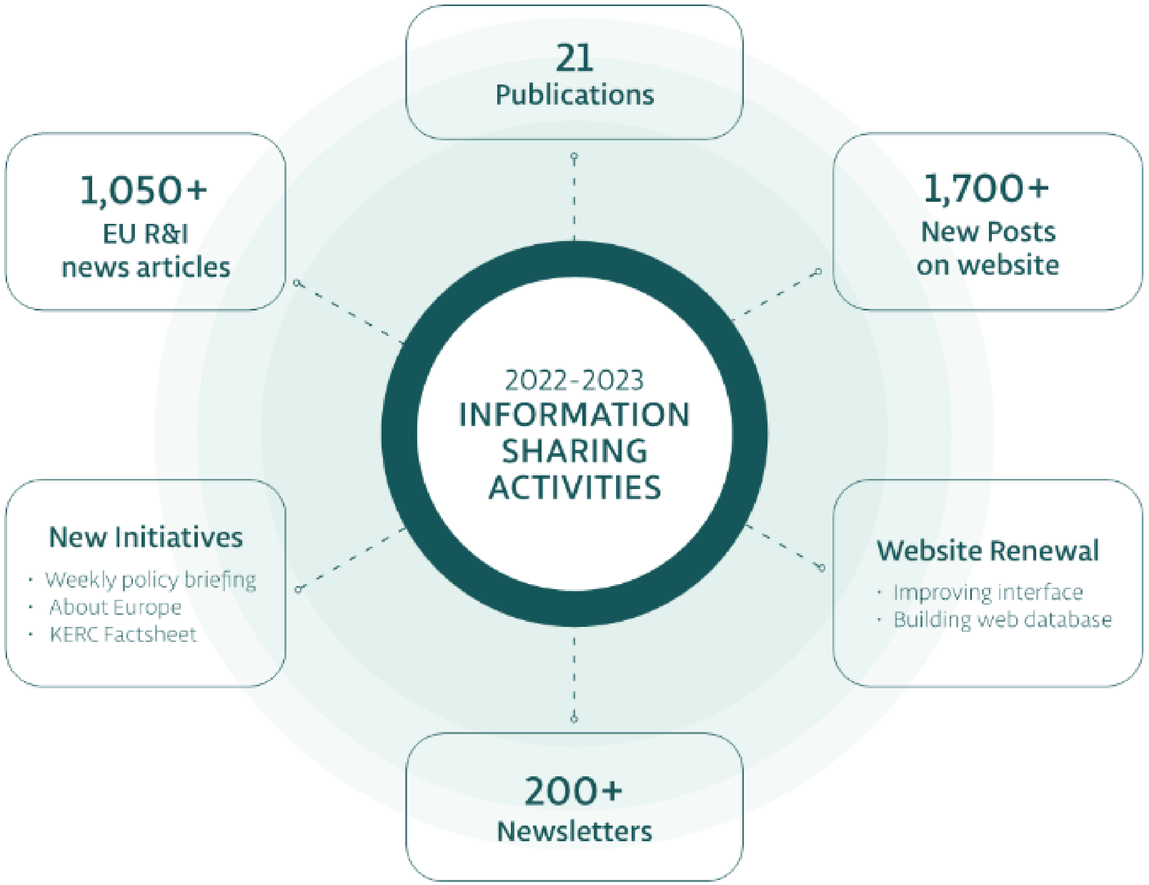
With more strategic agenda and increased budget, the KERC has strengthened its role and has grown into an essential part of Korea-Europe Cooperation

Association!
Strategic R&D Center!

2025

KERC 2022-2024

Information Sharing



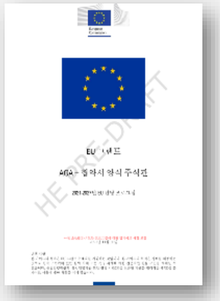
2024 Key Figures

- **700** EU R&I Articles
- **52** EU R&I Briefings
- **1,000** New posts on website
- **160,000** visitors
- **600,000** views
- **3** New webpages
- **104** Newsletters
- **7** Issue Reports
- **43** Publications
- **100** LinkedIn Posts
- **1,000** Linkedin new Followers

Information Sharing

KERC collects, analyzes, shares and accumulates information to generate knowledge and build database

Horizon Europe



Digital Partnership

Others

Networking

KERC connects Korea and Europe by active networking activities

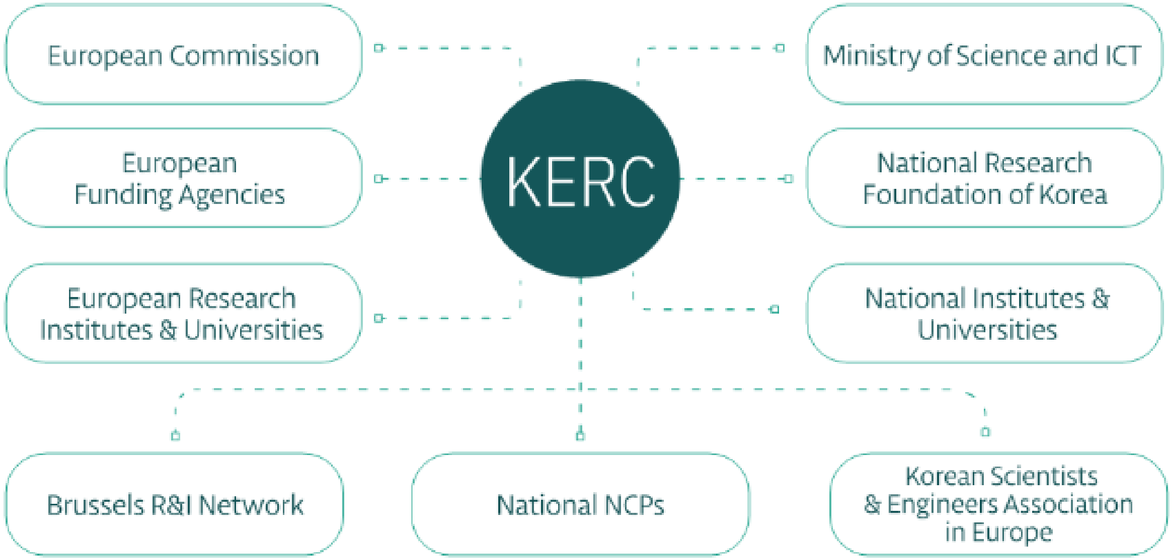
- DG RTD
- DG EAC
- DG CNECT
- EURAXESS
- COST

European Commission

과학기술정보통신부
Ministry of Science and ICT

About 30
Funding Agency

IGLO
INFORMAL GROUP OF RTD LIAISON OFFICES



NRF

57 Offices
171 Universities

UNILION

nst National Research Council of Science & Technology

25 Government
funded Institutes

80 Members

SCIENCE BUSINESS NETWORK

Crowdhelix

KIRD 국가과학기술인력개발원

KOFST Korean Federation of Science & Technology Societies

9 Associations

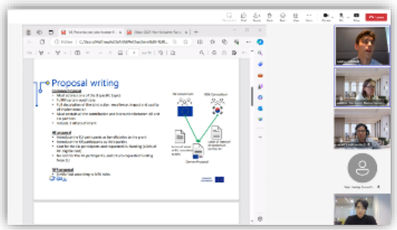
Path-finding

KERC identifies and creates opportunities for joint research and career development

Info-day & KERC Academy

HE Pillar2 Webinar Series

Partnering & Matchmaking



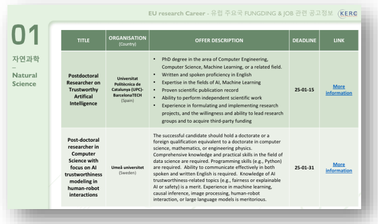
Roundtable

Youth Forum

MSCA PF Workshop

ERC Webinar for Korea

EU Research Career



KERC Supporters

Facilitating

KERC supports and facilitates cooperation on national, governmental, organizational level

Horizon Europe Association

KOR-EU Digital Partnership

Quantum Technology

Semiconductor

Space Cooperation

Switzerland ('23.1)

France ('23.6, '24.1)

Netherlands ('23.12, '24.3)

United Kingdom ('23.11, '24.8)

Czech Republic ('24.9)

Belgium ('23.10) ('25.2)

STEPI Future Research Session
KERC YOUTH FORUM 2022
EEN 한국 컨소시엄
Brain Pool Fellowship Program
for outstanding overseas researchers
KERC
What is a call?
Topic title and code
Data about the project budget, call budget, funding rate and TRL...
Expected Outcome of your project and what it should effect (Excellence & Innovation part)
The challenge a solution is needed for, what is scope of the project (Impact part)

Korea-EU Research Centre
Established in 2013 in Brussels
Under the influence of Ministry of Science and ICT (MSIT) and National Research Foundation of Korea (NRF)
Promote and Support R&D and policy cooperation between Korea and the EU (ex. Horizon Europe, Digital partnership etc.)
Networking (ex. information services/newsletters, in-depth analysis, expert etc.), Policy support, NCP tasks, Event / Infrastructure for cooperation
A Policy & Research Bridge between Korea and Europe for Science and Technology
High Performance Computer - Quantum Simulator Hybrid
Towards a World-Class Supercomputing Ecosystem
Europe in the digital world
MSCA Postdoctoral Fellowships
KERC-NRF ACADEMY 2023
KERC YOUTH FORUM 2023
Korea-Europe Quantum Science Technology Cooperation Center
Opening Ceremony
KERC Anniversary Reception
UK-ROK Space Cooperation Memorandum of Understanding Signing Ceremony
cost
기초과학연구역량강화사업 해외 유관기관 방문

esa
imec
MSCA
Postdoctoral
Fellowships
2024
KERC Seminar for Science Counsellors
Yale SONG
Korea's Associa
The EU Toolbox for 5G security
EU toolbox for 5G security
HORIZON
EUROPE
2024 KERC YOUTH FORUM
Korea-EU Research Centre
Korea's Association to
Horizon Europe Pillar 2

KOREA-EU Horizon Europe Researchers Networking Forum

KERC next step

Daemyung Lee
Director General,
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KERC 2025

- Single Access Point

- One Stop Shop

Horizon Europe
Official Website

- About Horizon Europe
- Horizon Europe Tracker
- Funding Opportunity
- Event & Agenda
- Horizon Europe FAQ
- Documents & Resources
- NCP corner
- Partner Search

KERC 2025

Horizon Europe Matchmaking Event & Webinar Series

- Matchmaking Event for each part of pillar 2

Next research Area:
- Advanced Biotechnology
- Energy, Battery, Mobility
- Health, Environment …

Also:
- Quantum Technology (9~10 April)
- Semiconductor

will be covered by sister organizations

13 May	20 May	July/ Aug	2nd half	2nd half	2nd half	2nd half
Horizon Europe Pillar 2 Webinar on WP 2025	MSCA PF Online Workshop	Pillar 2 Proposal Review Workshop	1st COST webinar for Korea	ERC webinar for Korea 2025	1st MSCA SE Webinar	Others
+ Pillar 2 webinar series throughout the year	+ Proposal Writing Workshop in July					

KERC 2025

Control Tower

Open Collaboration Space for Institutes and Industries

Education & Training for Research Managers & NCPs

Ministry of Science and ICT
G-KIC
GLOBAL-KOREA INNOVATION CENTER

National Strategic R&D Center

Promotion & Dissemination

Help Desk for researchers

Design Global Cooperation Agenda & Project

Information Platform

KOREA-EU Horizon Europe Researchers Networking Forum

on Artificial Intelligence

Opening Ceremony and Luncheon Reception

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