

Innovation


Fairness

Harmony

Professionalism

International Cooperation Dept.
Korea Institute for Advancement of Technology

kiat

 The Research
Council of Norway



COLLABORATIVE R&D

ON INDUSTRIAL TECHNOLOGY

Horizon and Korea Webinar in Norway

Jason Kang, Director, KIAT Europe



COLLABORATIVE R&D ON INDUSTRIAL TECHNOLOGY

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Innovation of Korea.

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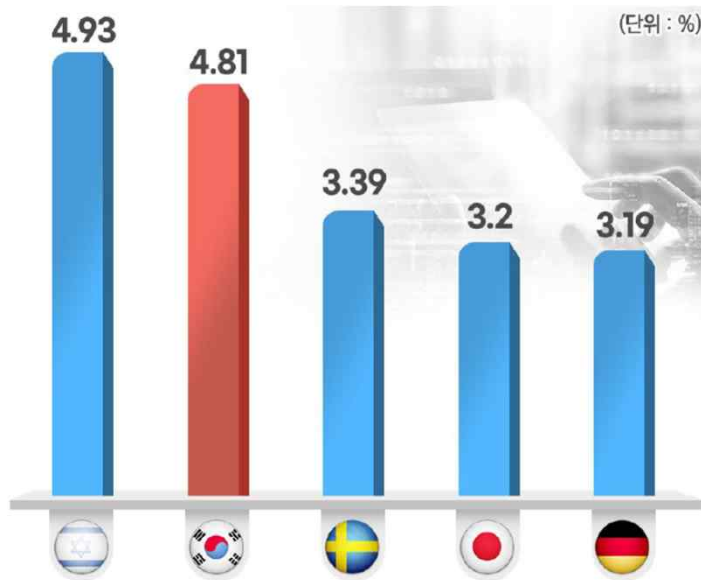


Innovation of Korea

Korea is one of the biggest R&D Investment country

- ✓ R&D investment of Korea has been increased continuously to amount of 110 trillion won (app. 81 billion €) in 2021
- ✓ 2nd ranked in investment ratio to GDP, 5th ranked in nominal investment figures (OECD, '20)

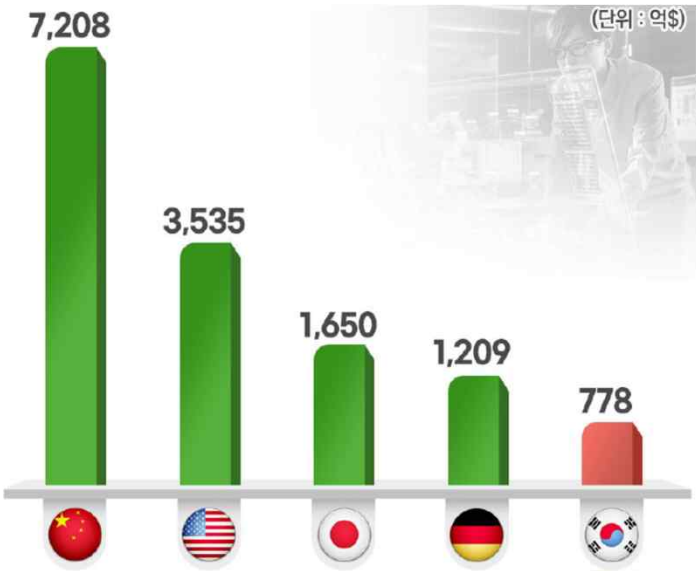
R&D Investment ratio to GDP



Private Sector 77%



Top R&D Investment Countries



Public Sector 23%



Innovation of Korea

Korean Government R&D Investment Strategy in 2023



Korean Gov. will invest R&D budget to;
Carbon Neutrality, Digital transformation and Super-gap strategic technologies

* 2023 national R&D budget is 18.2 Billion Euros

R&D in 2023

- ▶▶ ① Invest in the **national strategic technology sectors**,
Semiconductor, High-tech Bio, Aerospace, and Quantum

- ▶▶ ② Technology innovation for **Green Transition**

- ▶▶ ③ **Digital Transformation**

- ▶▶ ④ **S&T Human resource** development

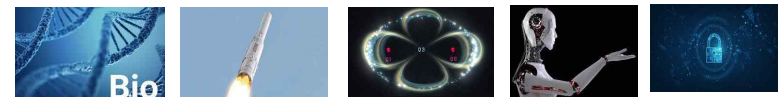
Strategic Tech area

Super gap Tech



Semiconductor & Display Battery Next-gen Nuclear power Hydrogen 5G, 6G

Future Challenging Tech



Bio Aerospace Quantum AI Robot Cyber Security

Introduction of KIAT

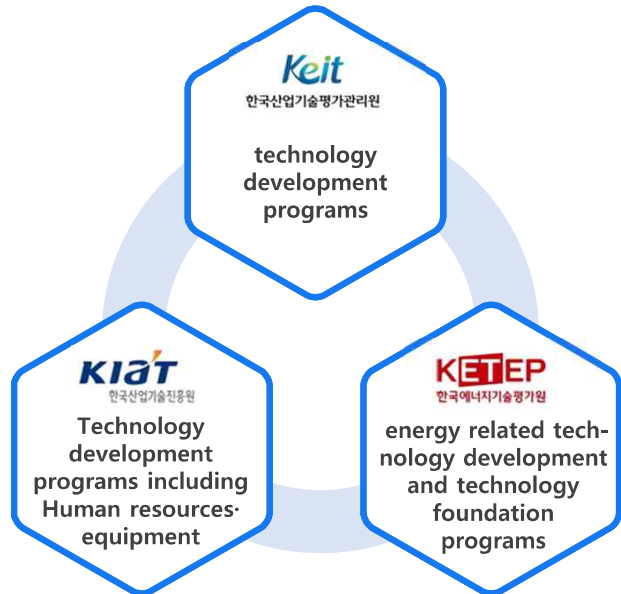


Comprehensive Industrial Technology R&D Support Organization

for promotion of industrial technology innovation and policy development

MOTIE R&D

R&D Agency



- ▣ R&D funding agency under the Ministry of Trade, Industry and Energy (MOTIE)
- ▣ Annual Budget is 1.2 B Euros, 420 employees
- ▣ Oversea Offices (Brussels, Washington D.C., Hanoi)
- ▣ Scope
 - ✔ **International Technology Cooperation(R&D)**
 - ✔ Promoting the Materials & Components Industry
 - ✔ Technology Commercialization
 - ✔ Support Mid-Tier companies
 - ✔ Regional Industry Development
 - ✔ HR Development for Industrial Technology
 - ✔ Policy Planning for Industrial Technology



2

International Collaborative R&D on Industrial Technology

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Overview of Support for International Joint R&D



INTERNATIONAL TECHNOLOGICAL COOPERATION



KIAT helps enterprises enter overseas markets and the global network with the broader goal of enhancing the global competitiveness of industrial companies. To create networking opportunities, **KIAT** designs promotion programs that encourage underdogs to grow into competitive, middle market enterprises.



Supports have been provided for international joint R&D projects conducted by domestic industries/universities/institutes and excellent overseas R&D institutions to respond to the opening/convergence/globalization of industrial technologies.



Bilateral industrial technological cooperation with 14 countries and multilateral cooperation based on the Eureka platform are conducted.

Int'l Technology Cooperation Programs



Support the **Open Innovation** of Korean R&D Entities Through **Global Technology Cooperation**

Bilateral Cooperation



Support bilateral technology development

UK			Denmark
Czech Republic			Canada
China			Israel
Germany			France
Singapore			Netherlands
India			Russia
Spain			Switzerland

» 14 Countries «

Multilateral Cooperation



Support participation in EU R&D projects



» 47 Countries «

Infrastructure Establishment



Networking events, global network

Agreements and events

BERLIN • BRANDENBURG

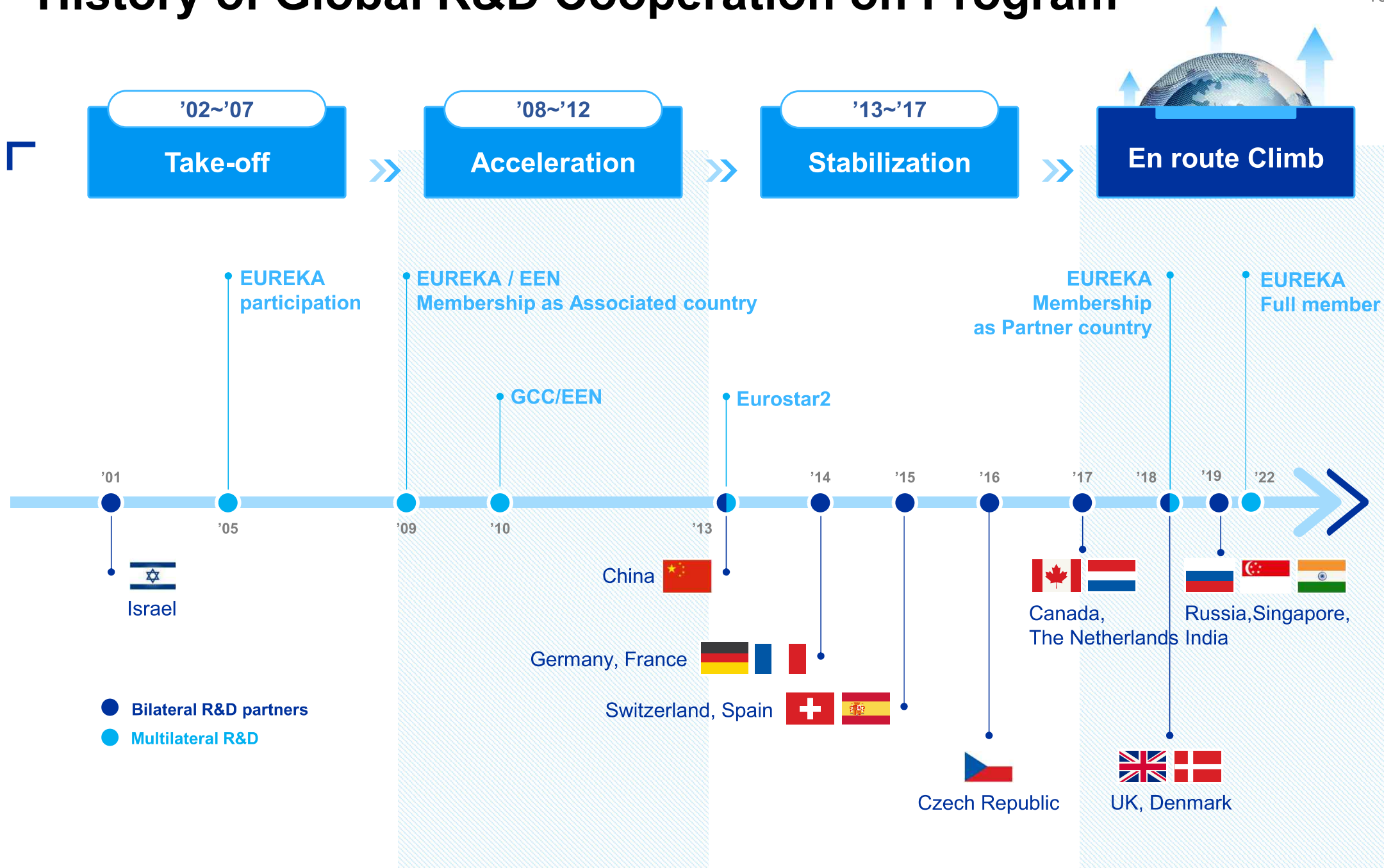
EEN

SME Delegation Program

KOREA EUREKA DAY

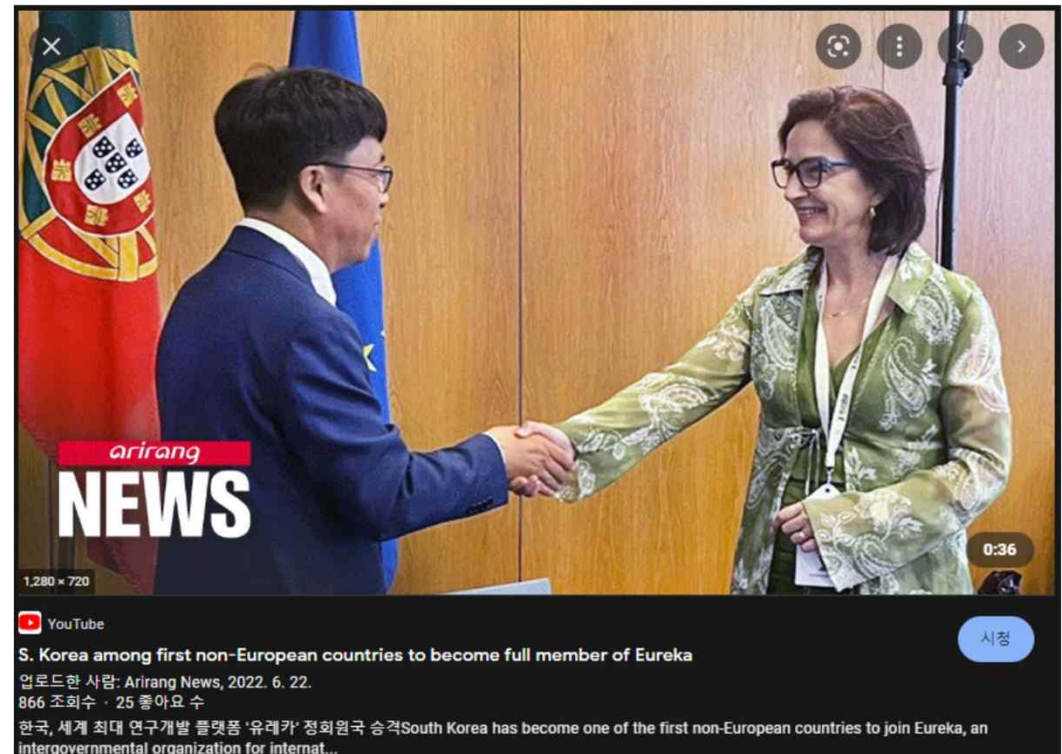
» 59 Countries «

History of Global R&D Cooperation on Program



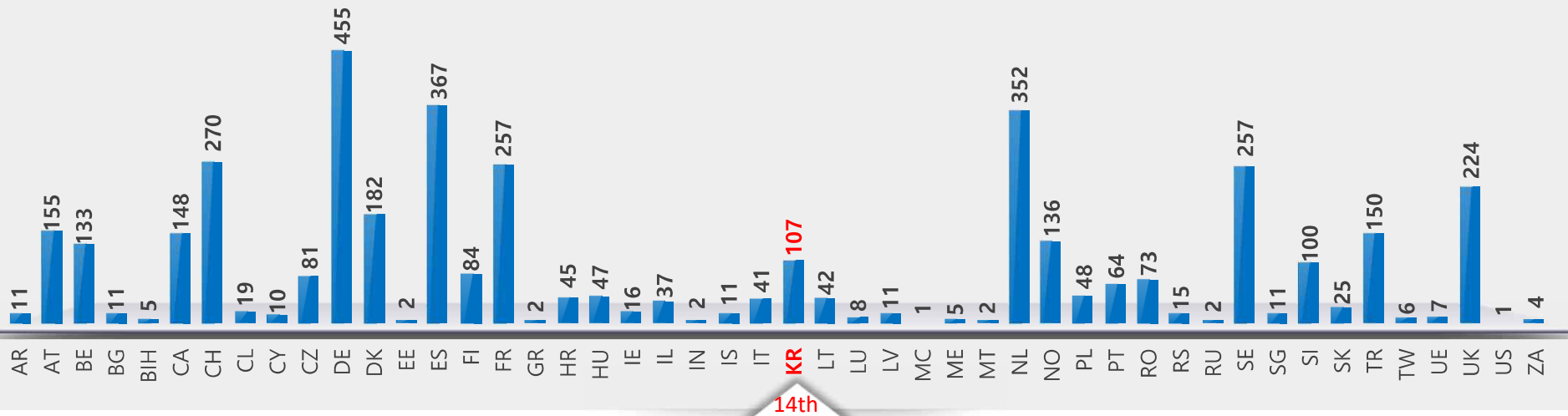
Korea in Eureka

South Korea became the first non-Europe full member country in Eureka



Korea in Eureka

Number of projects by countries ('16~'20)



KR's investment to the Eureka and results ('09~'21)



R&D Investment

€157.2 million



Sales Revenue

€38 million

Participants

412

Korean companies

1,169

European companies



3

Korea-Norway Cooperation

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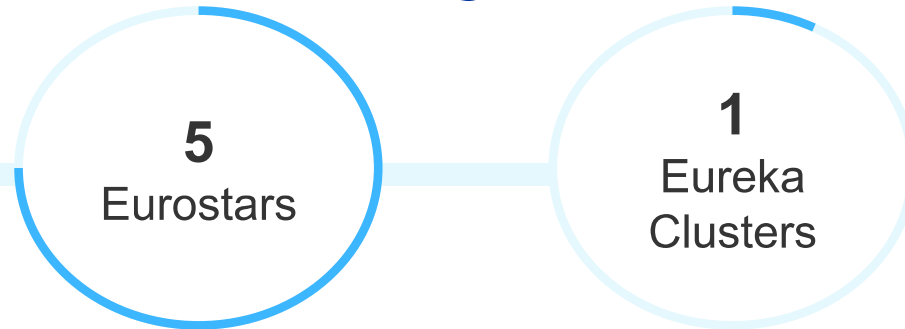


Current Status of Korea-Norway R&D Cooperation



A total

6 projects



- 4 projects completed
- 1 on-going project

ITEA 2

Project Title	Participating Countries
Intelligent Versatile Avatar Robot	Korea, Norway
A Novel Multi-Industrial Nano Control Unit based on Thermal Imaging	Korea, Norway, Sweden
Safe Area Monitoring (SAM) for Open, Fenceless Factory Automation	Korea, Norway, Switzerland, Hungary
Water and Wastewater Pipeline Inspection	Korea, Norway
Sustainable Power Operation Through Mobile Electric Fast Charging Units with ESS for Grid Peak Shift	Korea, Norway

Korea-Norway Projects

Cooperation Programs



Σ eureka

Eurostars (funded)

Innovative SMEs lead international project consortia and receive national and EU funding to realise their innovation.

Network projects (funded)

A flexible programme for R&D projects with any technological focus. You can propose or join a project at any time or take part in our regular calls.

Globalstars (funded)

Calls for R&D projects with partners in a specific country outside the Eureka network.

Korea-Norway Projects

Cooperation Programs



			
Eurostars 3	✓	✓	<ul style="list-style-type: none"> · KR participating CoD 4 and CoD 5 in 2023 · Norwegian Partners can be funded from CoD 5 (Second half of 2023)
Eureka Network	✓	✓	<ul style="list-style-type: none"> · Both countries open for the application in 2023
INNOWWIDE	✓	✗	<ul style="list-style-type: none"> · KR is not participating the INNOWWIDE

Korea R&D Program funding Scheme

Funding for the International R&D

- **Funding Size : Max 500 million ₩ / year (approximately 380,000 Euros/year)**
- **Project Period : Max 3 years**
- All types of companies (large enterprise; SME), university or research institute are able to apply

Type	Public Funding Ratio
Large Enterprise	33% or less of the project cost of participating entity
Mid-Tier Enterprise	50% or less of the project cost of participating entity
SMEs	67% or less of the project cost of participating entity
Others (Univ, Research institutes)	100% or less of the project cost of participating entity

Eligibility Criteria

- **Korean consortium must include Korean Company (private enterprise).**
- Project Participating Company should be in **operation for more than a year**, and have a corporate R&D center accreditation by the Korean government
- The project should not have already been implemented and should not overlap with other publicly funded R&D projects (**Redundancy review**)

Toward Future Cooperation

Finding R&D partners in Korea (EEN)

<https://south-korea-partnering-system.b2match.io/>

Innovation with South Korea by Joint R&D

South Korea

INNOVATION with SOUTH KOREA - JOINT R&D PLATFORM

Welcome! Call Calendar R&D partnering Event Bilateral Joint R&D Multilateral Joint R&D 양자 공동펀딩 R&D

다자 공동펀딩 R&D How it works FAQ Contact

Innovation with South Korea

Take the opportunity to innovate your product & service by applying for bilateral & multilateral joint R&D call with Korean R&D partners!

International cross-border networks are more important than ever before. This virtual marketplace generates new values for companies, research organizations, academic and others from all over the countries wishing to collaborate on R&D projects with South Korea. The main objective of this cooperation is to create innovative products, processes or services for commercialization between foreign countries and South Korea, as well as gain/provide information on various international R&D programme.

LOCATION
South Korea

Toward Future Cooperation

▣ Cooperation through **National Cooperation Centers(NCC)** of the government research institutes

- Supporting SMEs to find out their R&D cooperation demands, to match partners in other countries, and to plan collaborative R&D projects



▣ Current NCC of Korea



Korea Institute of Industrial Technology



Korea Electronics Technology Institute



Korea Automotive Technology Institute



Electronics and Telecommunications Research Institute



Korea Research Institute of Chemical Technology



Korea Institute of Machinery & Materials

Toward Future Cooperation

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THANK YOU

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