



Opportunities for collaborative research with Korea



Opportunities of EU-Korea R&D Collaboration

Contents

1. General R&D funding scheme in Korea

2. Opportunities for collaborative research in Korea

History of EU-Korea R&D Collaboration

November 1992	MOU for Korea-EU Science and Technology Cooperation
September 2006	Agreement for Galileo Cooperation
November 2006	Agreement for ITER Cooperation
November 2006	Agreement on the Scientific and Technology Cooperation
July 2007	1st Korea-EU Joint S&T Cooperation Committee Meeting (Seoul)
March 2009	2 nd Korea-EU Joint S&T Cooperation Committee Meeting (Brussels)
July 2011	3 rd Korea-EU Joint S&T Cooperation Committee Meeting (Seoul)
June 2013	4th Korea-EU Joint S&T Cooperation Committee Meeting (Brussels)
November 2013	Joint declaration in Commemoration of the 50th Anniv. of Diplomatic Relations
	Implementing arrangement between the EC and MSIP
	ERC-Korea agreement for Korean young talent to join ERC research teams
June 2014	Joint declaration on Strategic Cooperation in ICT and 5G

R&D Policies of EU and Korea



Korea ***



2010-2020

Europe 2020

Innovation Union

2013-2017

Creative Economy

3rd S&T Basic Plan



Implementation



2014-2020

Horizon 2020

2015 **Annual R&D programs**

Range of the 3rd Basic R&D Plan

- A framework for 5 years to devise comprehensive S&T policies
- Objectives:
 - ✓ R&D to contribute 40% of economic growth by 2017
 - √ 640,000 new jobs
 - ✓ Raising Korea's innovation capability against comparator nations

[Major Government Projects of Park Guen-hye administration]

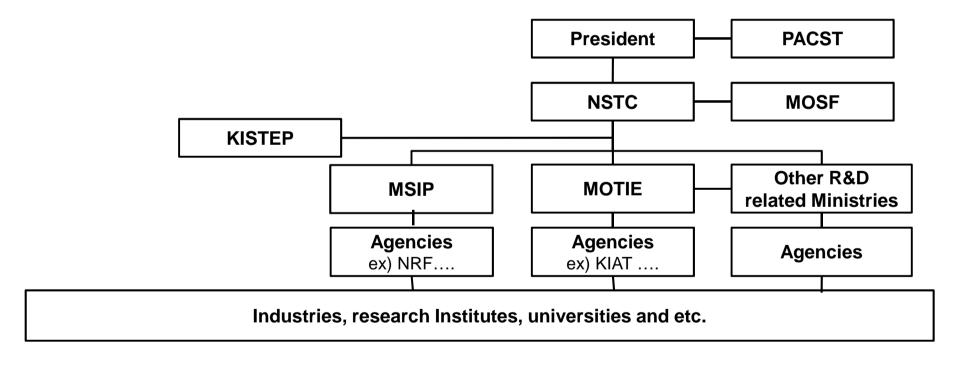
:	Economic democracy Public economy		[The 3 rd S&T Basic Plan]
	Improve the S&T-based citizens safety		
•	Intellectual Property Ecosystem Technology-based startup Small & middle enterprise innovation Create IT convergence new industry Expand new growth engine industry Expand basic research	 Create S&T-based new jobs Industry-University-Research Institute Cooperation Foster the creative talented Strengthen the Regional S&T Make up S&T creative culture 	Expand R&D expenditure Improve the treatment for researchers Make up the S&T creative culture Reinforce the S&T diplomacy
٠	Improve the efficiency of R&D system		
٠	Make up the culture of creative econom	ıy (Creative economy town) etc.	

[Action Plan for Creative Economy]

(Source: Introduction to Creative Economy & The 3rd Science and Technology Basic Plan in Korea, KISTEP, 2014)

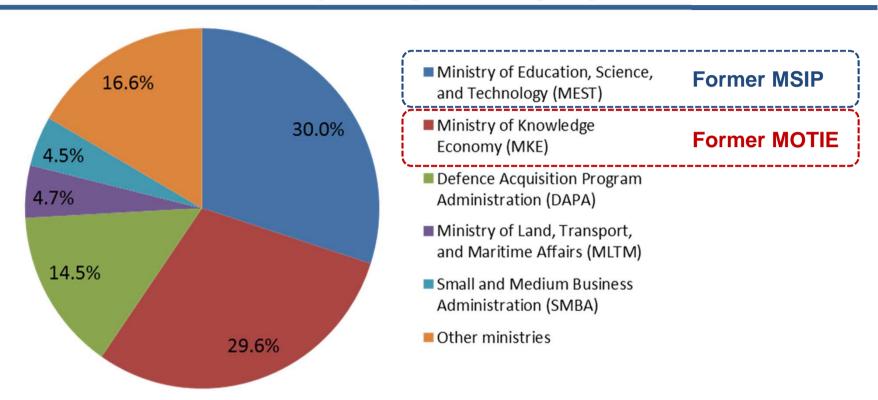
Framework of the R&D Supporting Scheme in Korea

- PACST: President Advisory Council on Science and Technology
- NSTC: National Science and Technology Council
- MOSF: Ministry of Strategy and Finance
- MISP: Ministry of Science, ICT and Future Planing
- MOTIE: Ministry of Trade, Industry and Energy
- KISTEP: Korea Institute of Science and Technology Evaluation and Planning



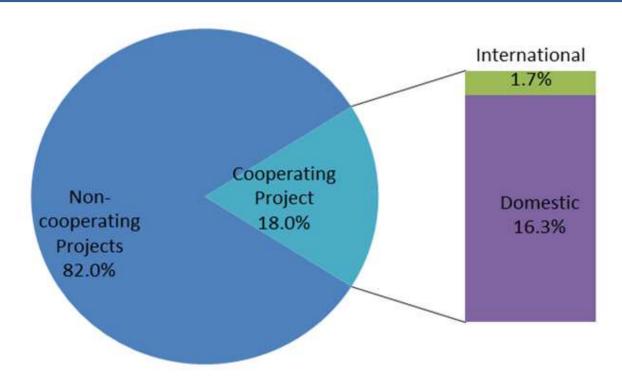
- ✓ R&D angencies are more or less depedent on the policies of specific ministries
- ✓ Modality of participation of funding schemes is various among agencies and programs

Share of the National R&D Budget among Ministries (2012)



- MEST and MKE took up as much as 60% of total investment
- MEST, the leading ministry of R&D, mainly supports the activities of academic fields such as universities or research institutes.
- MKE supports the activities of industrial sectors in R&D and commercialising developed technologies in the targeted market.
- The research areas of MEST and MKE cover almost all research themes.

Status of International Cooperation



Category	No. of projects (A)	% of projects
Cooperation projects	7,650	18.0%
International cooperation projects	736	1.7%
Total	42,522	100.0%

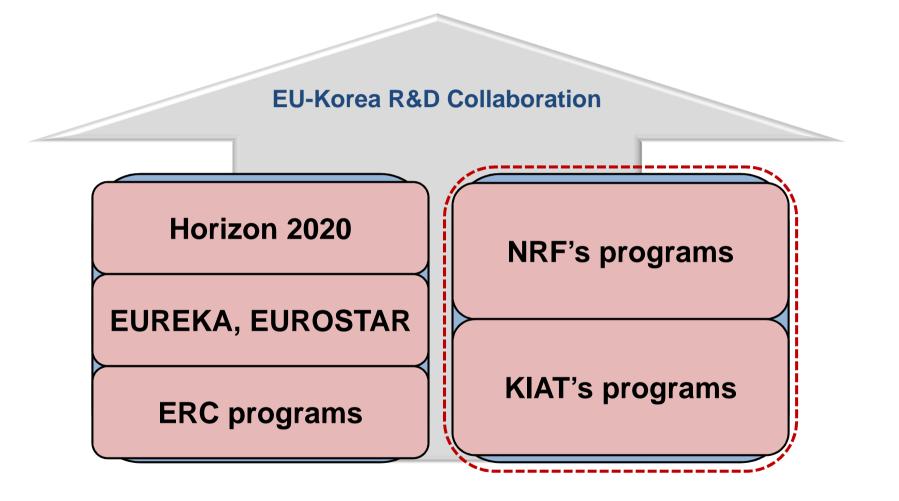
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EU-Korea R&D Collaboration

R&D Collaboration Programs supported by Korea



EU-Korea R&D Collaboration

Main programs supporting international R&D collaboration

- Reference: "Government-funded R&D programmes of Korea", (published by KISTEP in June 2010)
 - 18 out of total 170 main R&D programs in 2010 explicitly include international cooperation in their project objectives
 - These include tools for both R&D collaborations and capacity building/mobility.

Joint R&D programs of MEST



- Global Research Laboratory (GRL) Programme (1)
- Global Research Network (GRN) Programme (1)

Joint R&D programs of MKE



- International Collaborative R&D Programme (2)
- R&D programmes on energy technologies (1)

EU-Korea Bilateral Programs



	Open Call in 2015
Korea-France Cooperation Development Program	0
Korea-Germany Cooperation Development Program	0
Korea-Switzerland Cooperation Development Program	0
Korea-UK Focal Point Program	0
Korea-Slovenia Cooperation Development Program	0
Korea-Italy Cooperation Development Program	X
Korea-Finland Cooperation Development Program	X
Korea-Sweden Cooperation Development Program	X
Korea-Czech Cooperation Development Program	X
Korea-Sweden Cooperative Fund	0
Korea-Germany Cooperative Fund	0

^{*} Contact point : Global Cooperation Programs Team, 02-3460-5722

Global Research Network (GRN) Program



• Objectives:

- ✓ Expand networks and joint research projects with prominent international universities and research institutes
- ✓ Improve the national research capacity and create world-class research results

Budget and Funded Projects (2008-2015)

(Unit: million KRW)

	Budget (Ongoing + New projects)	Funded Projects (New projects)
2008-2014	48,200	162
2015	6,600	1

Global Research Network (GRN) Program



Program Details

	Details
Research Field	 Humanities and Social Sciences: all areas of concentration Natural Science and Engineering: basic science, basic medicine and pharmacy only Only for joint research with China in SSH field in 2015
Project Duration	• 1-3 years
Project Funding	 Up to 80M KRW per year for Humanities and Social Sciences Up to 100M KRW per year for Natural Science and Engineering

Schedule in 2015

2015.04	Opening a New Call (2015.03.09 - 2015.05.13)
2015.05-07	Final Evaluation for New Projects
2015.08	Launching New Projects

^{*} Contact point : NRF, Global R&D Cooperation Team, 02-3460-5638



Global Research Laboratory (GRL) Program



Objectives:

To establish and operate world-class laboratories capable of leading global cooperation in core technology fields and to increase international cooperation between Korea and other countries

Budget and Funded Projects (2006-2015)

(Unit: million KRW)

	Budget (Ongoing + New projects)	Funded Projects (New projects)
2006-2014	130,094	57
2015	22,514	8

Global Research Laboratory (GRL) Program



Program Details

	Details
Research Field	• 13 field supported in 2015
Project Duration	• 6 years (maximum funding term)
Project Funding	Up to 500M KRW for a project

Schedule in 2015

2015.03	Opening a New Call (2015.03.09 - 2015.05.13)
2015.05-07	Final Evaluation for New Projects
2015.08	Launching New Projects

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International Collaborative R&D Programs



Bilateral R&D (\$44.1M) Multilateral R&D (\$9.4M) Infrastructure Establishment (\$6.5M) Industrial Technology ODA (\$10.5M)

Supports Bilateral Technology Development Supports
Participation in EU
R&D Networks

Networking Events Global Networks HR Development Coexistence with less-developed countries

- Int'l Collaborative R&D
- Bilateral R&D with FR, DE, CN ('15~: CH, ES)
- Global Industry-Academia cooperation
- Global Partnership
- Korea-Israel Joint R&D Fund (KORIL)

- HORIZON 2020
- M-ERA-NET
- EUREKA
 - EUROSTARS 2

- Industry Cooperation Joint Committee
- Global office network GT & GCC
- Coordinator of EEN
- Int'l Member of TAFTIE
- Mobilities

- Appropriate technology development and diffusion
- Consultation on industrial technology policy
- HR Development

◆ First Associate Country beyond Europe to EUREKA since 2009

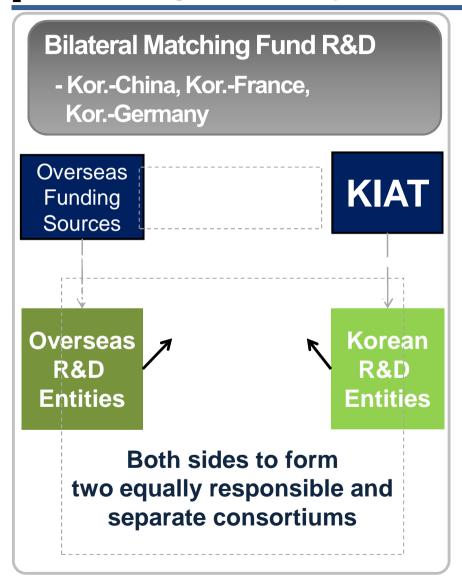
- ◆ A Coordinator of Korean EEN Consortium since 2010
- Only Partnership Country beyond Europe to EUROSTARS 2 since 2014
- ◆ Official partner organization of KONNECT Project under HORIZON 2020
- ◆ First International Partnership beyond Europe to TAFTIE (signed on 25.Nov.2015)
- ◆ Official partner country to M-ERA-NET (Material) from 2015 (will be signed in Jan. 2015)
- Joint R&D funding under discussion with NL, DK, NO, UK.

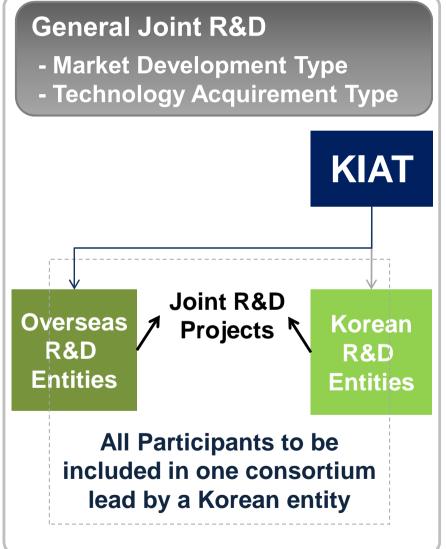
Total \$70.5M for 2015 (1\$ = 1,100 +

*Contact point: Gitae Shim Head of KIAT Europe office Rue Neerveld 107, 1200 Brussels gtshim@kiat.or.kr

Joint R&D Programs funded by KIAT







Bilateral R&D with selected countries



- Purpose To enhance technical competitiveness through research and development collaboration in which each party participates on an equal footing based on an a bilateral agreement between the governments of two partner countries (France, Germany, Switzerland, Spain and non-EU countries).
- Project Management Applicants shall take the form of a consortium consisting of Korean and foreign company, university and research institute.
 Only a company can be a lead organization.
 - Lead organization: only a Korean company can be a lead organization.
 It shall be a corporation that has been in operation for one year or more since its establishment
 - Participating organization: Korean university, research institute, etc.
 may participate in a consortium as a participating organization.
 For foreign lead organization(company), it shall submit an application to the government of its own country.

Bilateral R&D with selected countries (France, Germany, Switzerland, Spain)



Funding size and duration

- Total budget for 2015 : KRW 5.15 bil. for new projects
- Funding: approx. KRW 500 mil. per year, for no longer than 3 years

Funding areas

Across all industries
 (however, for collaborative R&D between Korea and France,
 The funding will be available only for the following areas:
 Bio Technology and Medical Technology, Energy and Environment
 Technology, Robot, Automobile and Machinery Systems Technology,
 Materials and Nano Technology, ICT)

International Collaborative R&D Program (non-reciprocal)



- Purpose To develop technologies tailored to industrial needs and demand by utilizing R&D capabilities of outstanding foreign partners in order to enhance Korea's technical competitiveness and acquire advanced technologies or penetrate into overseas markets
- Project Management projects are to be consortia comprised of domestic partners and one foreign partner (corporate, academic or research), led by a Korean partner
 - Lead organization: a Korean company, university or research institute.
 In a case where a Korean company is lead organization, it shall be a corporation that has been in operation for one year or more since its establishment
 - Participating organization: Korean or foreign company, university or research institute
 - Organizations(companies) from the countries participating in the Bilateral R&D Co-Funding programme (France, Spain, Germany, Switzerland and China) will be excluded from this Programme.

International Collaborative R&D Program (non-reciprocal)



Funding size and duration

- Total budget for 2015: KRW 3.81 bil. for all new projects
- Funding: approx. KRW 500 mil. per year, for no longer than 3 years

Funding areas

Across all industries
 (however, for collaborative R&D between Korea and France,
 The funding will be available only for the following areas:
 Bio Technology and Medical Technology, Energy and Environment
 Technology, Robot, Automobile and Machinery Systems Technology,
 Materials and Nano Technology, ICT)

Thanks for your attention !!

Innovation needs a competent partner, ideas and know-how.

We connect you to them !!!