



## Opportunities for collaborative research with Korea

Moon Jung Kang, June 29 2015



# Opportunities of EU-Korea R&D Collaboration

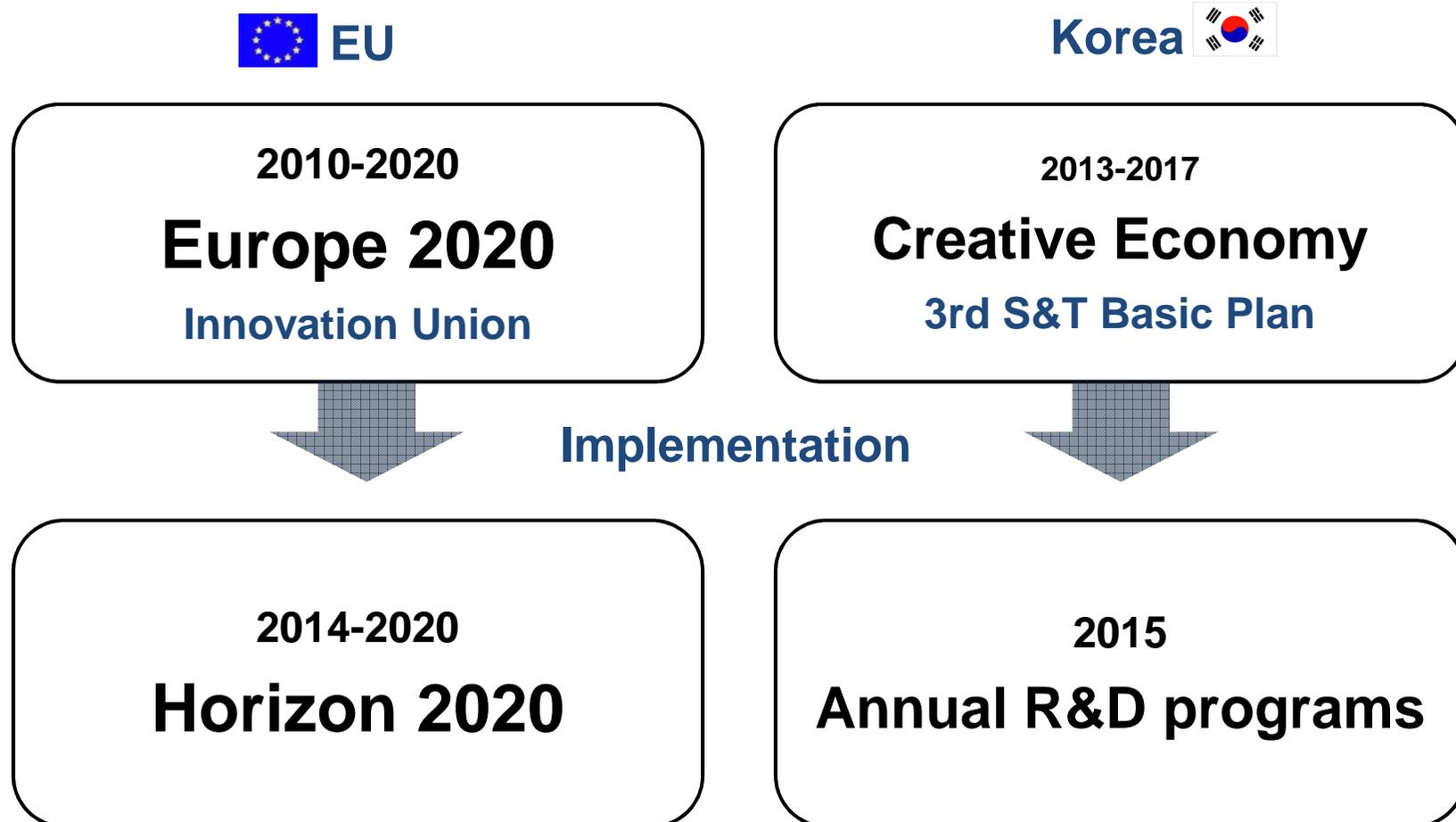
# 1. General R&D funding scheme in Korea

## 2. Opportunities for collaborative research in Korea

## History of EU-Korea R&D Collaboration

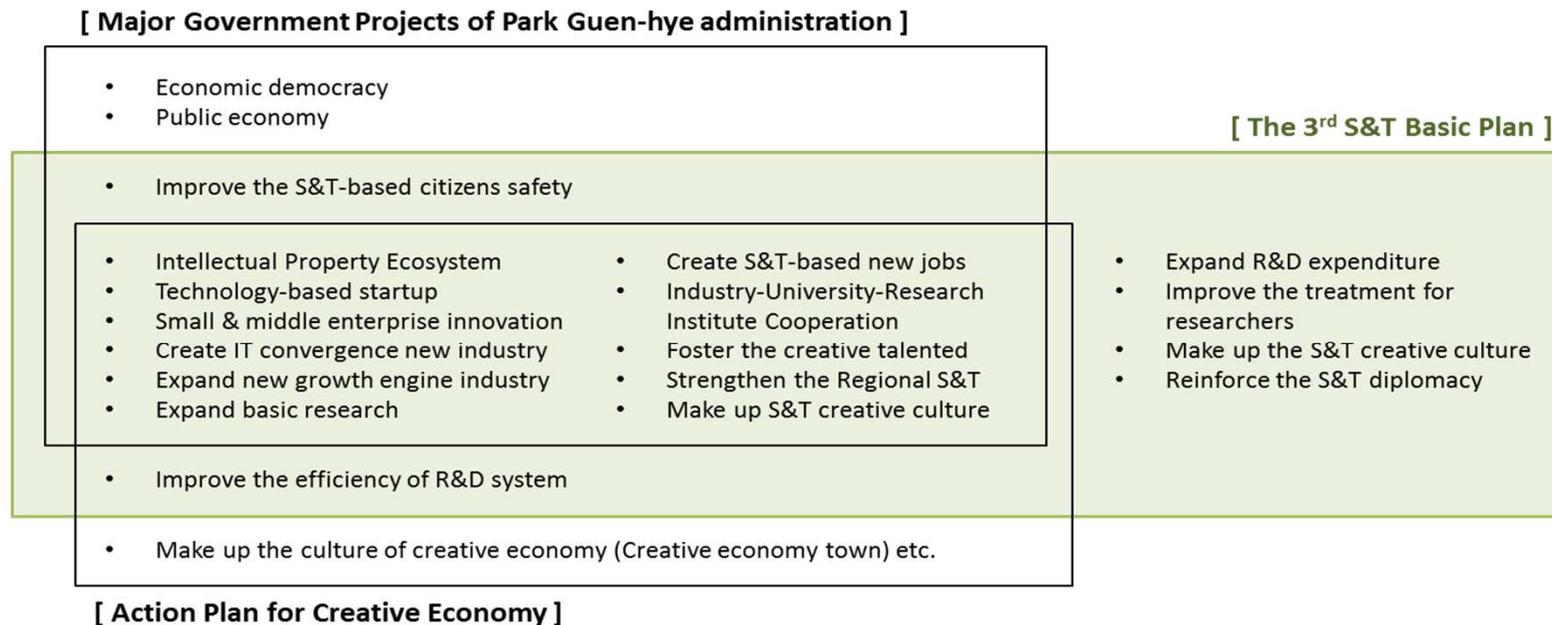


## R&D Policies of EU and Korea



## Range of the 3<sup>rd</sup> Basic R&D Plan

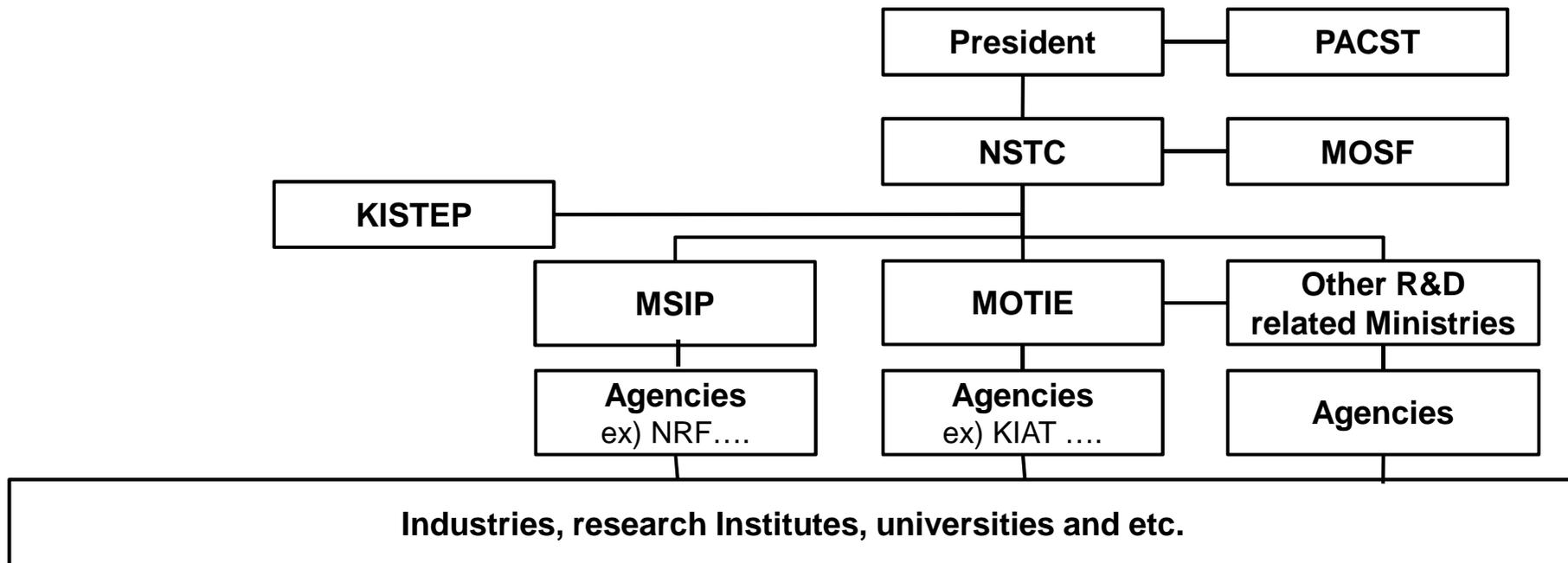
- A framework for 5 years to devise comprehensive S&T policies
- Objectives:
  - ✓ R&D to contribute 40% of economic growth by 2017
  - ✓ 640,000 new jobs
  - ✓ Raising Korea's innovation capability against comparator nations



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

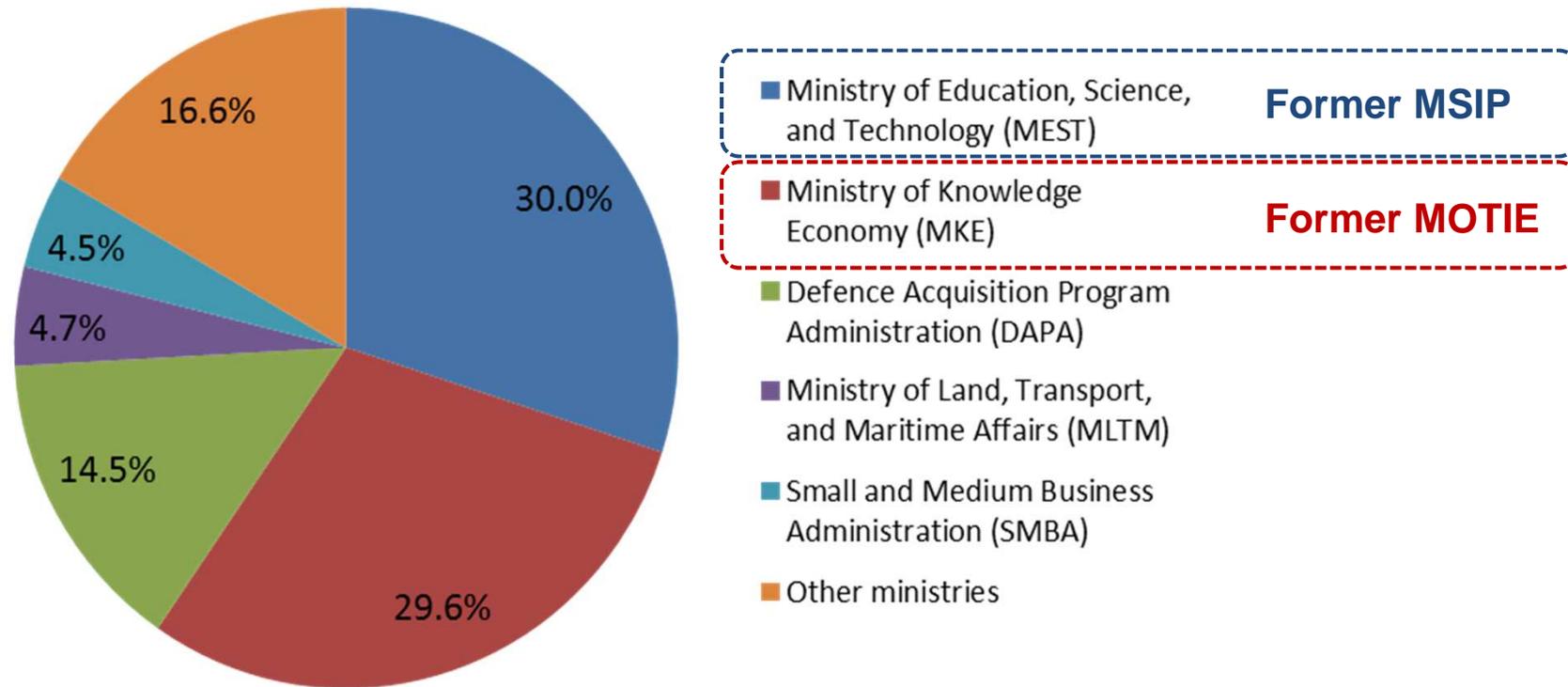
## Framework of the R&D Supporting Scheme in Korea

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



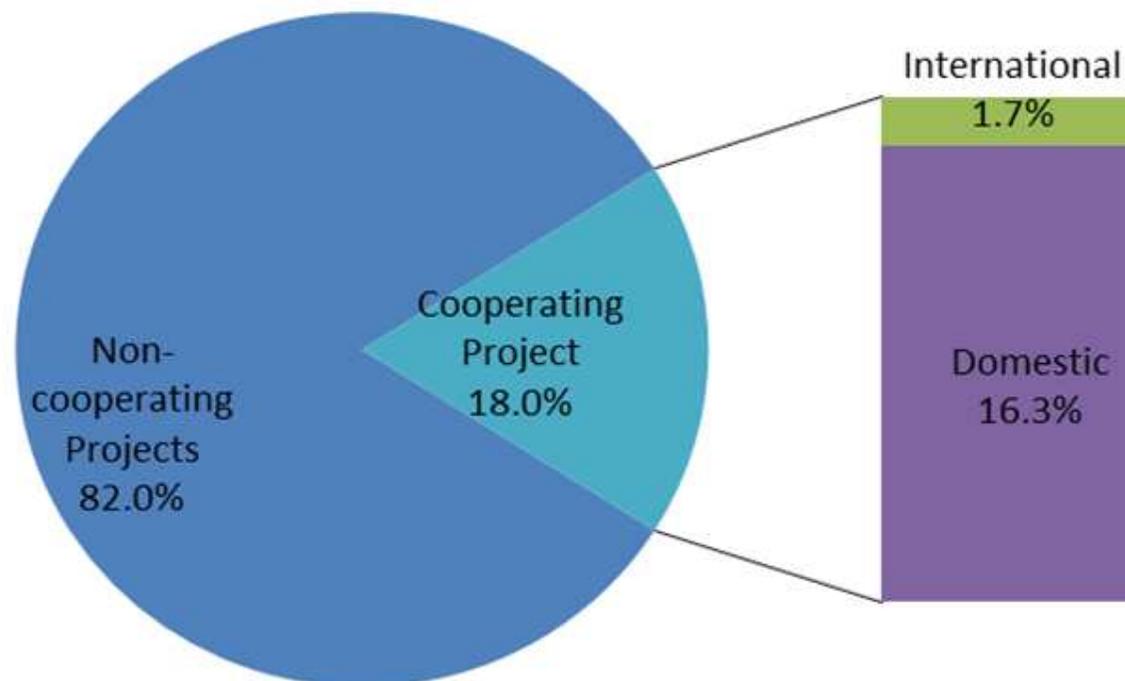
- ✓ R&D agencies are more or less dependent on the policies of specific ministries
- ✓ Modality of participation of funding schemes is various among agencies and programs

## 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

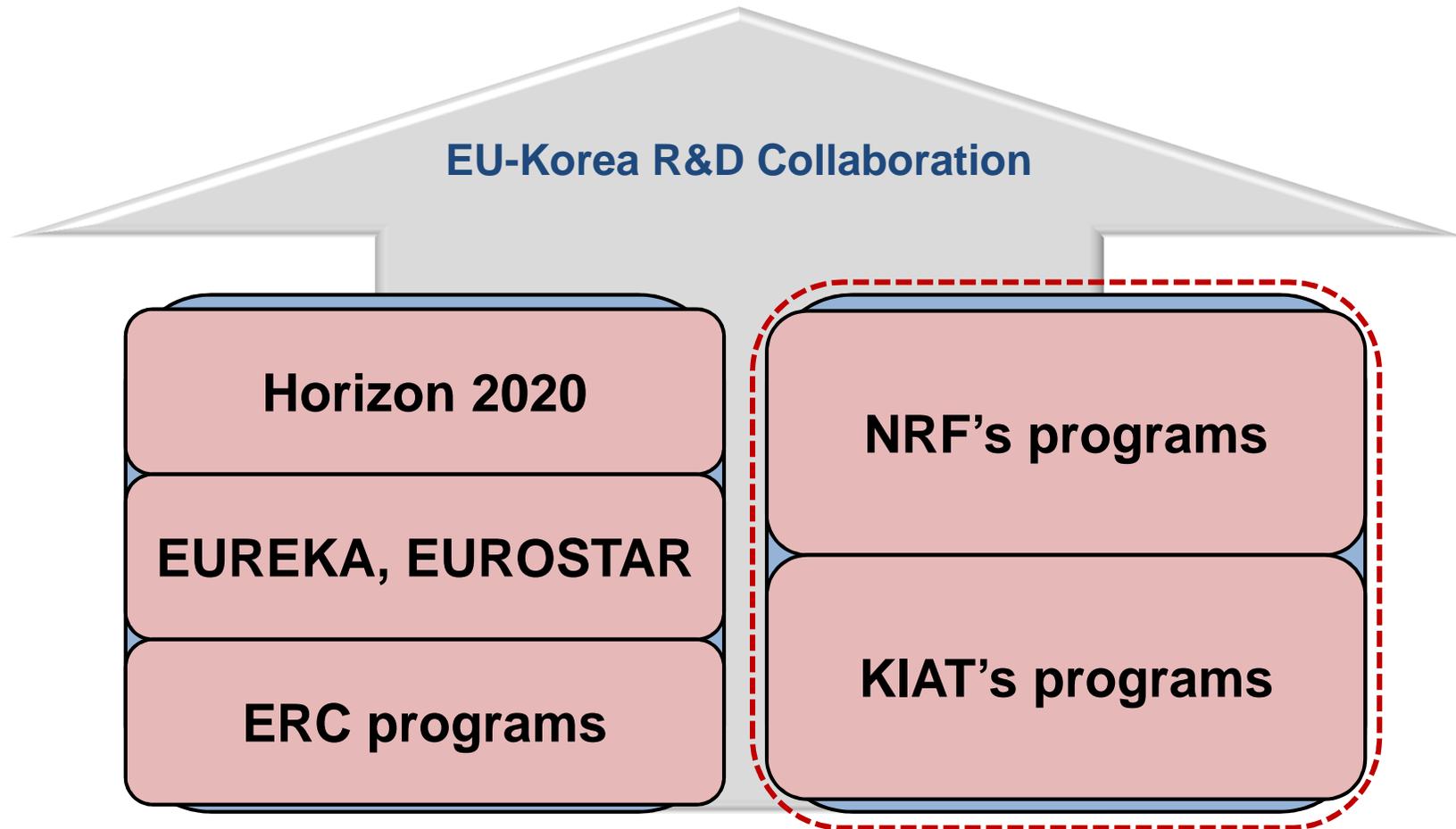


Category	No. of projects (A)	% of projects
Cooperation projects	7,650	18.0%
International cooperation projects	736	1.7%
Total	42,522	100.0%

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with Korea**

## R&D Collaboration Programs supported by Korea



## 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	O
Korea-Germany Cooperation Development Program	O
Korea-Switzerland Cooperation Development Program	O
Korea-UK Focal Point Program	O
Korea-Slovenia Cooperation Development Program	O
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	O
Korea-Germany Cooperative Fund	O

\* 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	<b>6,600</b>	<b>1</b>

## Global Research Network (GRN) Program



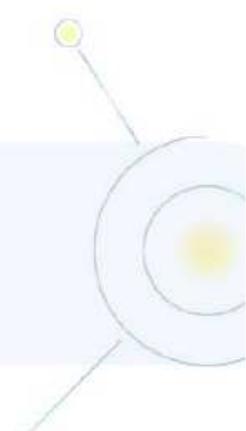
### Program Details

	Details
Research Field	<ul style="list-style-type: none"> <li>♦ <b>Humanities and Social Sciences</b>: all areas of concentration</li> <li>♦ <b>Natural Science and Engineering</b>: basic science, basic medicine and pharmacy only</li> <li>※ Only for joint research with China in SSH field in 2015</li> </ul>
Project Duration	♦ 1-3 years
Project Funding	<ul style="list-style-type: none"> <li>♦ Up to 80M KRW per year for Humanities and Social Sciences</li> <li>♦ Up to 100M KRW per year for Natural Science and Engineering</li> </ul>

### 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	<b>22,514</b>	<b>8</b>

## Global Research Laboratory (GRL) Program



### Program Details

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

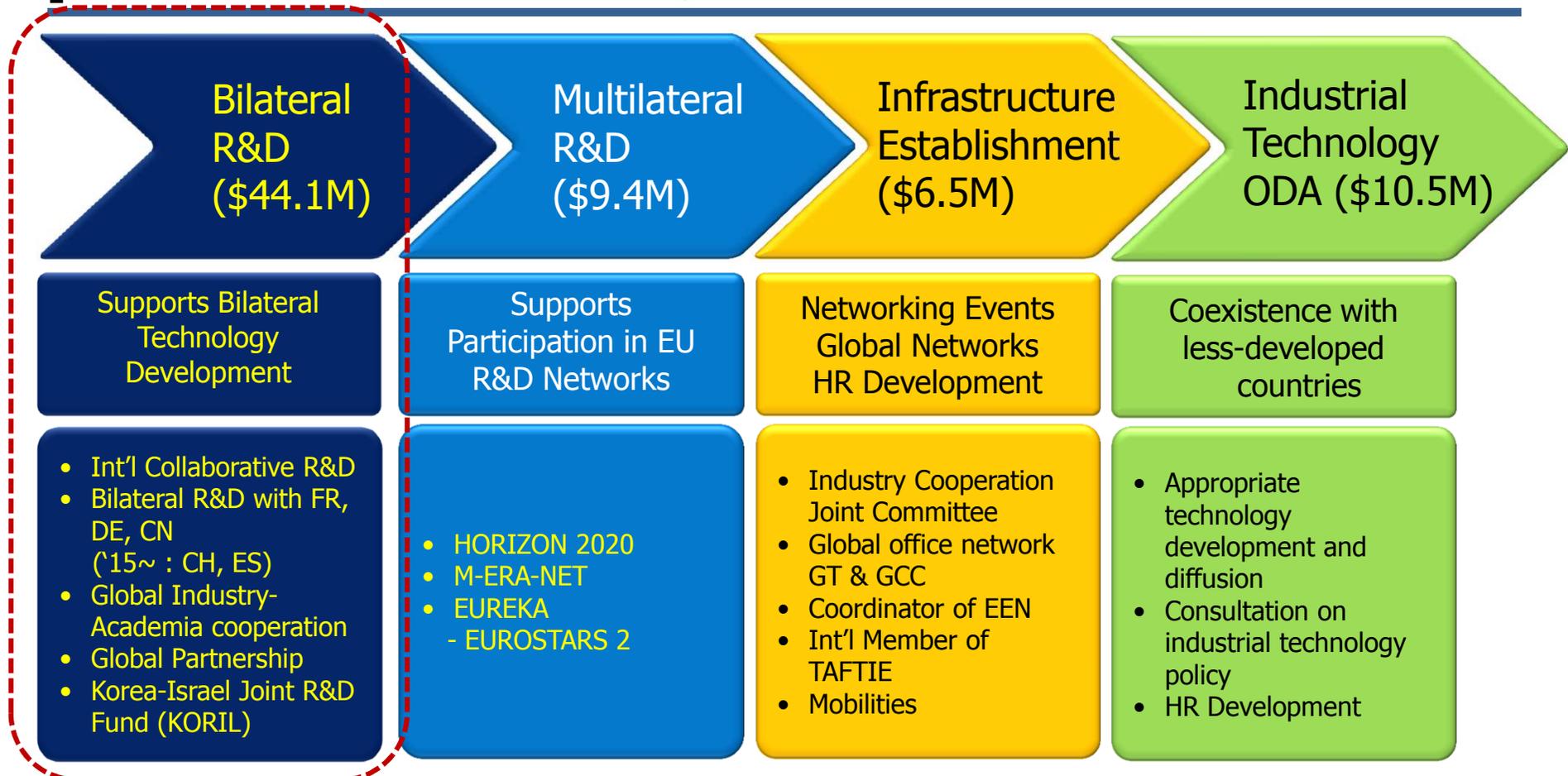
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## International Collaborative R&D Programs

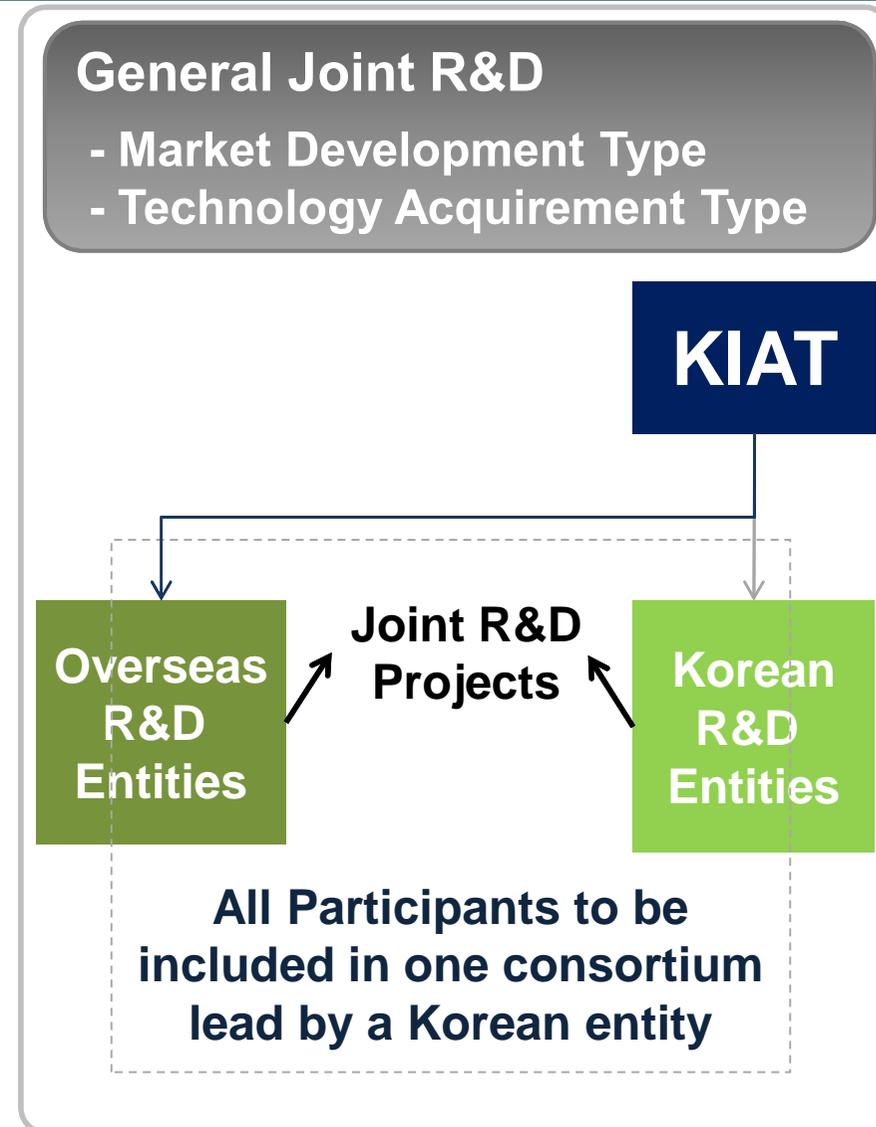
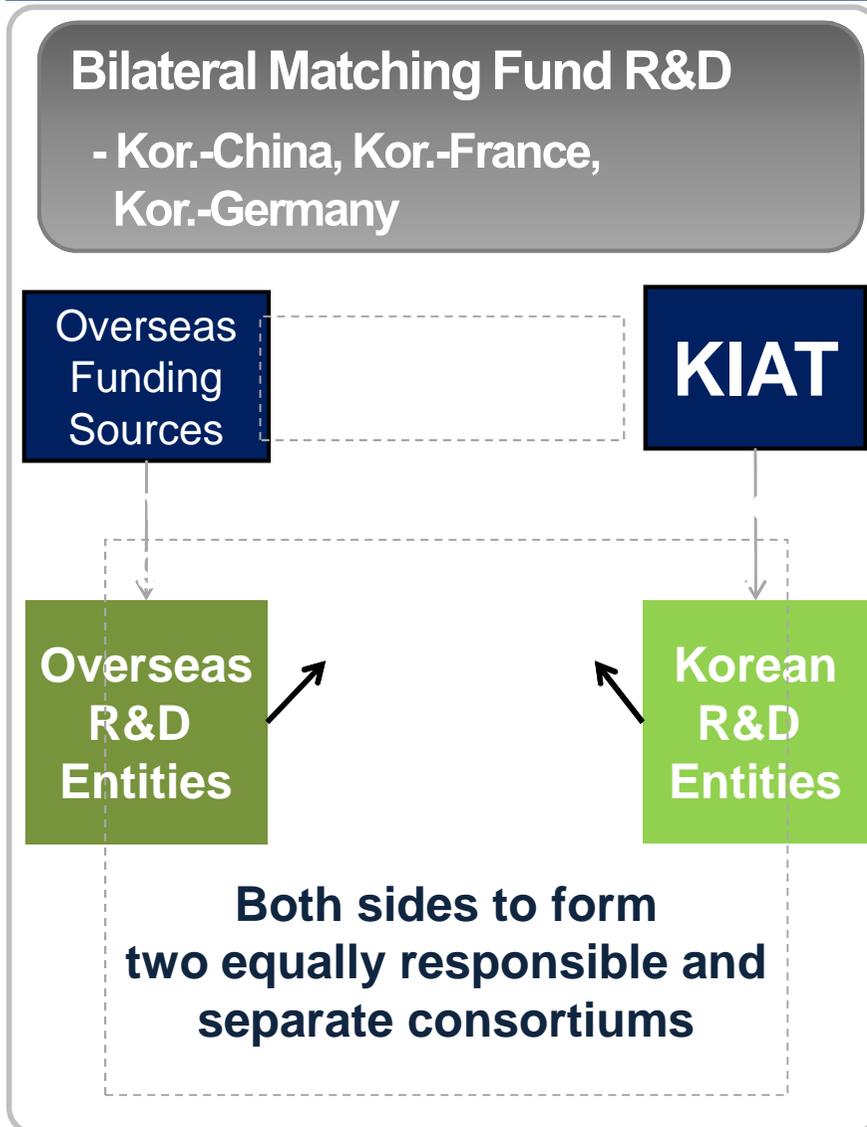


- ◆ First Associate Country beyond Europe to EUREKA since 2009
- ◆ A Coordinator of Korean EEN Consortium since 2010
- ◆ Only Partnership Country beyond Europe to EUROSTARS 2 since 2014
- ◆ Official partner organization of KONNECT Project under HORIZON 2020
- ◆ First International Partnership beyond 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)

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## 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)

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**Thanks for your attention !!**

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

**We connect you to them !!!**