



EU-Korea Research & Innovation Cooperation

4 October, 2016

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Delegation of the EU to the RoK**





Outline

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- 2. Framework Conditions**
- 3. Korea-EU Targeted Cooperation**
- 4. Vehicles for Cooperation**



1. Political Context



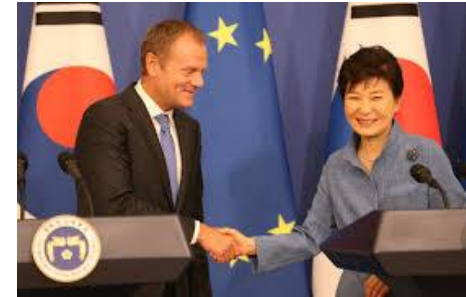
"South Korea – A Strategic Partner of the EU"

- **Framework Agreement (2010)**
- Free Trade Agreement (2011)
- Crisis Management Agreement (2014)

- **Agreement for Scientific and Technological Cooperation (2007)**
- ITER Int'l Agreement + fusion energy + fission research (2006)
- ERC Implementing Arrangement (2013)
- Joint Declaration in ICT and 5G (2014)
- Agreement on a Civil Global Navigation Satellite System (2016)

- **EU-Korea Joint S&T Cooperation Committee**
: meeting every two years (2007, 2009, 2011, 2013, 2015, 2017...)

EU - Republic of Korea Summit *Seoul, 15 September, 2015*



8. The Leaders welcomed the substantial progress made in the ROK-EU cooperation on research and innovation and the creative economy, including the outcome of the 5th Joint Science & Technology Cooperation Committee in June 2015 where it was agreed to continue improving the framework conditions and to deepen and scale-up the ongoing cooperation in the selected thematic areas of nanotechnology, nanoelectronics, information communication technology (ICT), health and biomedical challenges, energy, and satellite navigation and to promote researcher's mobility. They looked forward to the upcoming launch of joint research and innovation projects in the area of next generation mobile telecommunications networks (5G) and Internet of Things and Cloud Computing under the 2016-2017 Horizon 2020 Work Programme and the prospects for related cooperation on 5G standards and spectrum allocation. They welcomed the agreement to engage in a twinning collaboration on carbon capture technologies and processes. The Leaders also recognised that since the ROK became a member of the Eurostars-2 Program in 2014, cooperation between SMEs of both sides has contributed to further joint research and technological development. They further shared the view that this cooperation should be continued to promote SMEs' technological competitiveness and encourage entry into third markets.



2. Framework Conditions

EU-Korea Joint Science and Technology Cooperation (JSTCC)

- **Framework Condition**
 - Exchange of the maximum possible level of programme information
 - Supporting instruments and channels (policy project KONNECT, NCT, focal points, events, etc.)
- **Deepening, scaling up and opening cooperation in selected thematic areas**
 - ICT, Nanotechnology, Health/Bio, Energy, Satellite Navigation
- **Promoting researchers' mobility**
 - Korea-ERC Implementing Arrangement
 - Marie Skłodowska-Curie Research Fellowship Programme
- **Emphasising bottom-up type cooperation**
 - Expanding support for bottom-up type cooperative activities

2016 Major Activities in Korea Supporting EU-KR R&I Cooperation

- 29-30 March **Korea-EU R&D Fair** by KONNECT project (Seoul & Daejeon)
- 28 June **EU Networking & Information Day** (Hamilton Hotel, Seoul)
- 4 October **EU Research & Innovation Day** (Grand Hyatt Hotel, Seoul)
- 6 October **The 5th EU-KR Nano Workshop** (Westin Chosun Hotel, Seoul)
- 10-11 October **The 1st EU-KR ICT Conference** (Koreana Hotel, Seoul)

EU-Korea Policy Support Project : KONNECT

- **Objectives**
 - Infrastructure building for the stimulation of Korea-EU STI cooperation
 - Communication and networking for improving mutual understanding
- **Project Duration:** 42 Month (1October, 2013-31 March, 2017)
- **Budget :** 1.75 million euros
- **Project Coordinator:** National Research Foundation of Korea
- **Project Partners:** 8 organisations from 5 countries (Korea, Germany, Netherland, Spain, and Turkey)
- **Major Activities**
 - Developing recommendations for EU-KR STI cooperation
 - Conducting feasibility studies and analyses
 - Producing, gathering, and disseminating information and knowledge
 - Organising networking & brokerage events, implementing joint funding programmes, etc.



3. EU-Korea Targeted Cooperation



Five Research Areas for Deepening and Scaling-up Cooperation

▪ ICT

5G communication networks
Internet of Things
Brokerage of mobile cloud services



1. **ICT Coordinated Call targeting Korea / 2016**
2. **€ 12 million for 2 years**
3. **3 Project launched in mid-2016**

Ongoing discussions towards a **2nd ICT Coordinated Call** (WP 2018-2020)

▪ Energy

Technologies and processes for **Carbon Capture**



1. **Twinning Call targeting Korea / 2016**
2. **€17million from the EU**
+ Budget for Korea Budget for 3 years
3. **3 Projects launched in mid-2016**

▪ Health/Bio

Global Cooperation in **Infectious Disease**



Glopid-R / Global Initiative led by the EC

New cooperative areas



Medical device, Innovative medicine

(eg) Anti-Microbial Resistance, Traumatic Brain Injury, etc.

Five Research Areas for Deepening and Scaling-up Cooperation

▪ Nanotechnology

NanoSafety Multilateral Initiative → *NanoReg / EU-KR bridging project*

Nanoelectronics → *1. Twinning Call targeting Korea / 2017
2. Nano-roadmap exchange
3. Further twinning/joint activities / 2018-2020*

New cooperative areas → *Materials Modelling*

▪ Satellite Navigation → *Promoting joint research activities and partnering*

Other possible cooperation areas

- Possible future cooperation on clean energy in the context of 'Mission Innovation' Initiative
- Climate Change & Environmental research
- Arctic research
- etc.



Exchange of Researchers & staffs

- **Korea-European Research Council (ERC) Researcher Exchange Programme**
 - To enable Korean researchers to undertake research visits to the ERC-supported Principle Investigators in Europe
 - Short-medium term visit to the ERC team for extending network and conducting joint research
 - As of today, more than 80 Korean researchers/professors selected and granted
 - Opening a call for proposal every year since 2014
- **Marie Skłodowska-Curie Programme**
 - Horizon2020 Programme for mobility, training, and career development of the human resources

ITN	Innovative Training Networks
RISE	Research and Innovation Staff Exchange
COFUND	Co-funding of Regional, National and International Programme
IF	Individual Fellowships



4. Vehicles for Cooperation

Main Features of Horizon2020

- The biggest Research- and Innovation-funding programme ever: nearly **€ 77 billion / 7 years** (2014-20)
 - The only part of the EU budget to increase (30% more than 2007-13)
- The most **open programme** in the World!
 - International cooperation at its core
- **'From lab to market'**
 - Basic and applied research, technology development and integration, testing and validation, demonstration and piloting
 - Innovation-driven Public-Private Partnerships
 - SME measures: collaborative projects, new SME instrument, Eurostars etc.
 - Access to finance: debt and equity instruments
- **'Challenge-based'** ≠ 'discipline-based'
- **Simple**: faster, less red tape



4. Vehicles for Cooperation

Three Main Priorities

€24 billion

Excellent Science

- European Research Council (€13,095mil)
- Future and Emerging Technologies (€2,696mil)
- Marie Skłodowska-Curie actions (€6,162mil)
- Research infrastructures (€2,488mil)

€29 billion

Societal Challenges

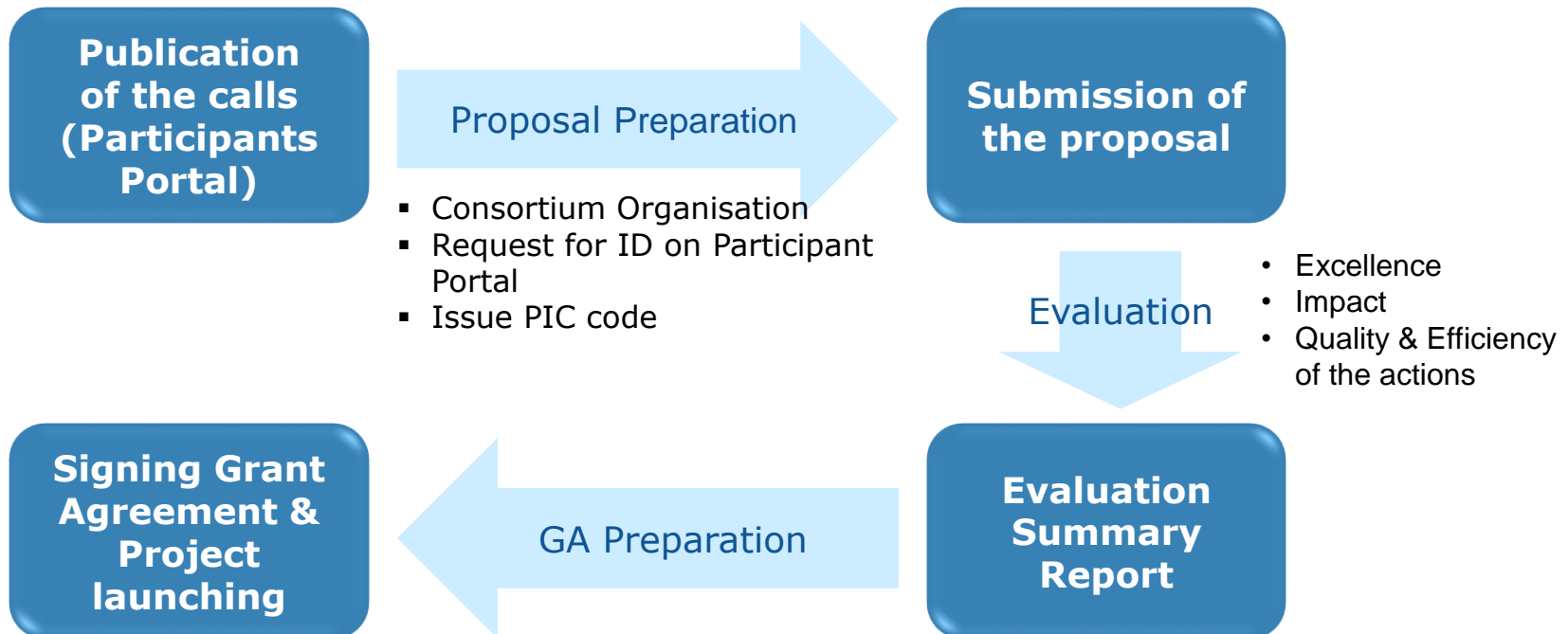
- Health, demographic change and wellbeing (€7,472mil)
- Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy (€3,851mil)
- Secure, clean and efficient energy (€5,931mil)
- Smart, green and integrated transport (€6,339mil)
- Climate action, environment, resource efficiency and raw material (€3,081mil)
- Inclusive, innovative and reflective societies (€1,310mil)
- Secure societies (€1,695mil)
- Science with and for society (€462mil)
- Spreading excellence and widening participation (€816mil)

Industrial Leadership

- Leadership in enabling and industrial technologies (€13,577mil)
- Access to risk finance (€2,842mil)
- Innovation in SMEs (€616mil + complemented by 20% of budget of 'Societal challenges' and 'Access to risk finance' with strong SME focus)
- European Institute of Innovation and Technology (EIT)
- Joint Research Centre (JRC)

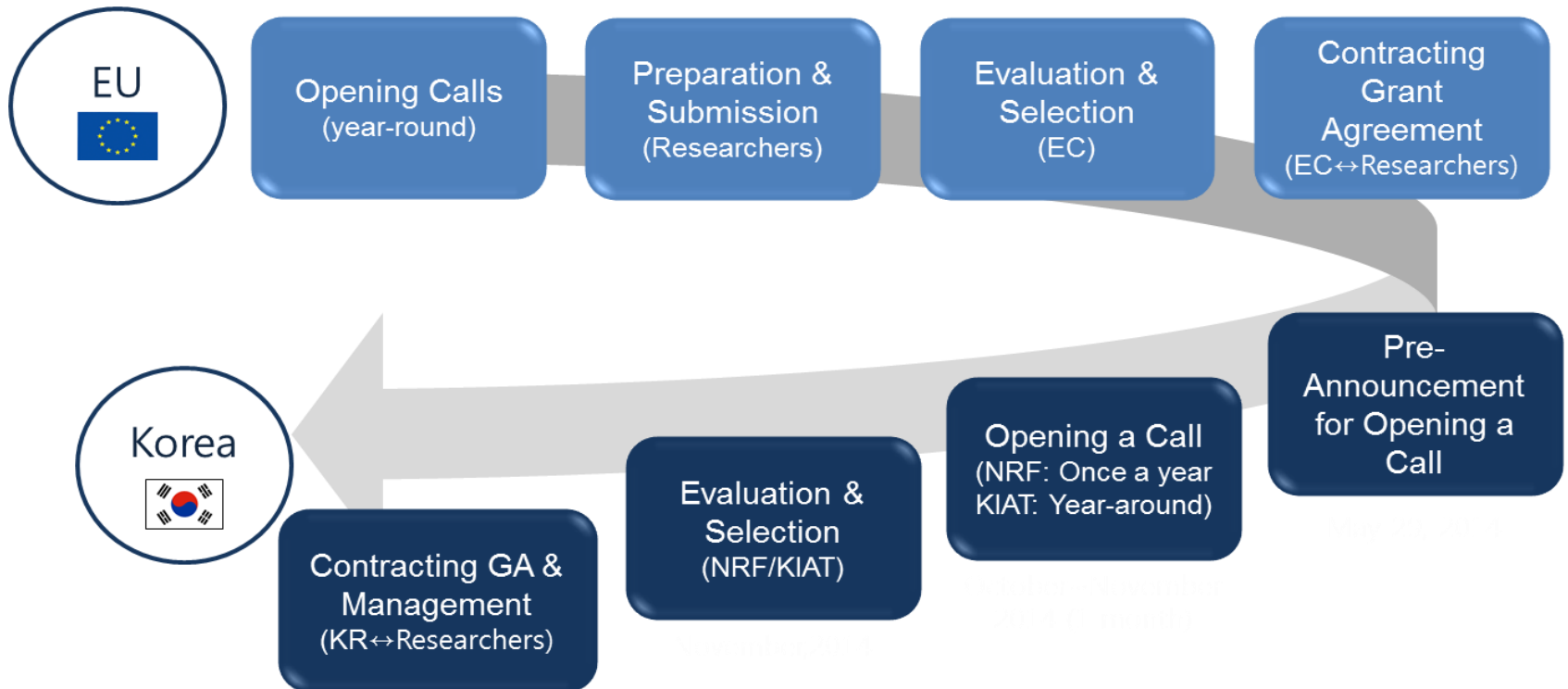
€17 billion

The Process: from Call to Grant Agreement

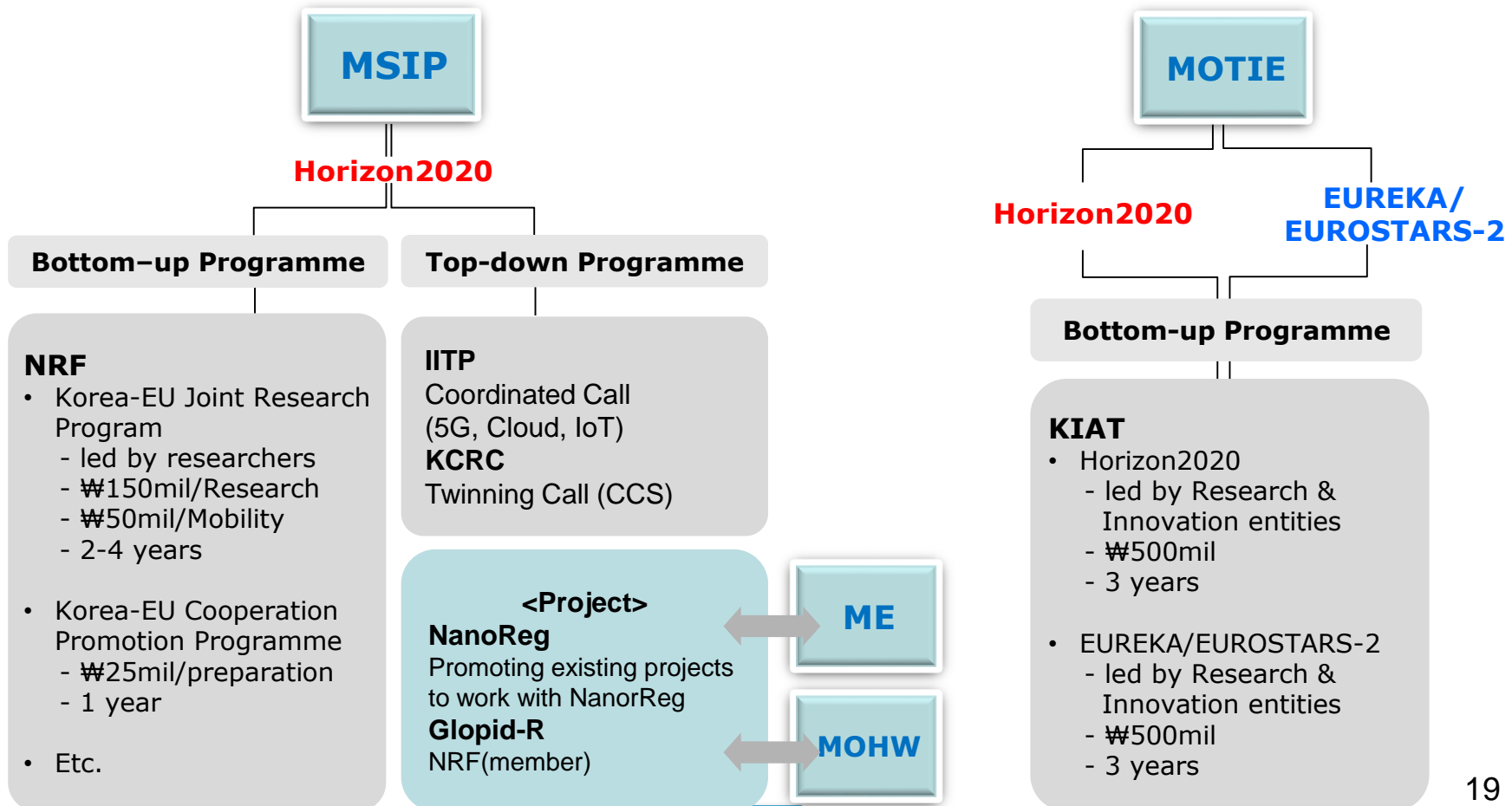


<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

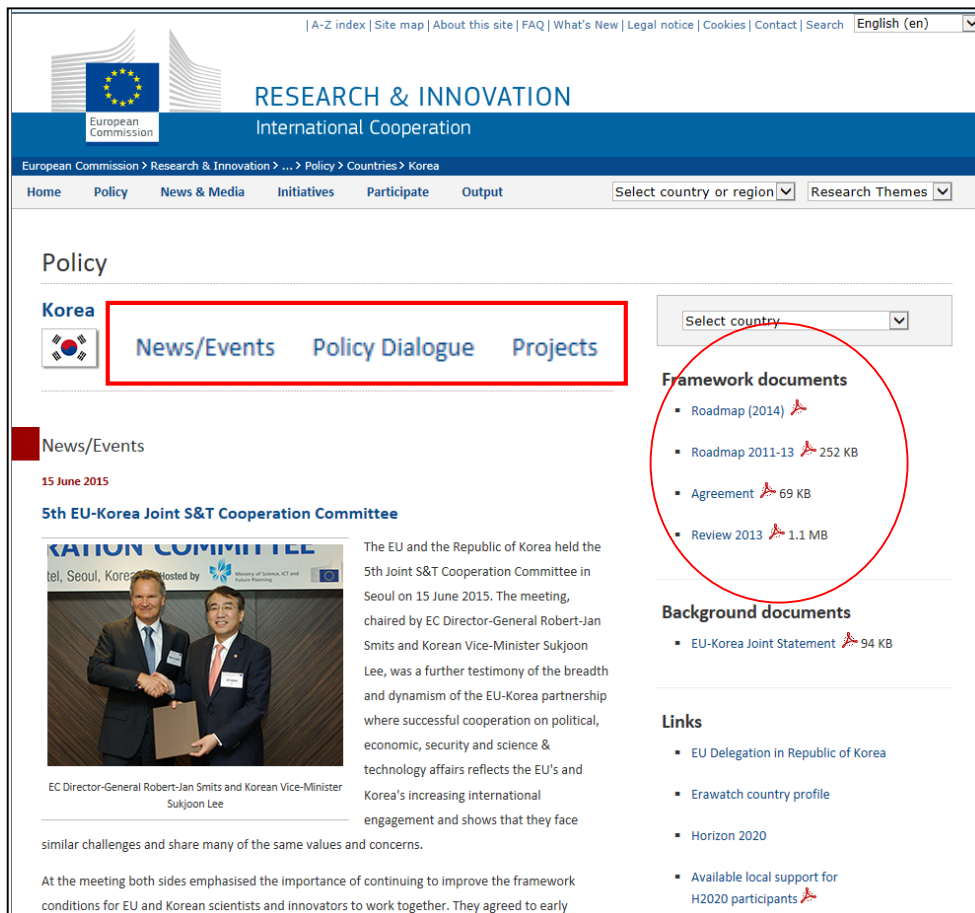
Matching Funds by Korea : Process



Korea Funding for Cooperation with Europe



Websites : EU International R&I Cooperation



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Framework documents

- Roadmap (2014)
- Roadmap 2011-13 252 KB
- Agreement 69 KB
- Review 2013 1.1 MB

Background documents

- EU-Korea Joint Statement 94 KB

Links

- EU Delegation in Republic of Korea
- Erawatch country profile
- Horizon 2020
- Available local support for H2020 participants

News/Events

15 June 2015

5th EU-Korea Joint S&T Cooperation Committee

The EU and the Republic of Korea held the 5th Joint S&T Cooperation Committee in Seoul on 15 June 2015. The meeting, chaired by EC Director-General Robert-Jan Smits and Korean Vice-Minister Sukjoon Lee, was a further testimony of the breadth and dynamism of the EU-Korea partnership where successful cooperation on political, economic, security and science & technology affairs reflects the EU's and Korea's increasing international engagement and shows that they face similar challenges and share many of the same values and concerns.

At the meeting both sides emphasised the importance of continuing to improve the framework conditions for EU and Korean scientists and innovators to work together. They agreed to early

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Background documents

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<http://ec.europa.eu/research/iscp/index.cfm?pg=korea>



4. Vehicles for Cooperation

Websites : Korea-EU STI Cooperation by KONNECT

↑ English ▾ Login · 스크랩함 · About NRF · Sitemap search

KOREA-EU STI COOPERATION 과기정책 및 사업 협력프로그램 사업공고 자료실 News & Info 국가조정관제도(NCP)

EU Plaza

유럽연합(EU)관련 정보제공 및 EU관련 연구자간 교류의 장

한-EU과학기술정책 및 사업

KONNECT, KIC-Europe, EUREKA 사업소개 및 국내 NCP제도 소개 등 한-EU과학기술 정책 및 사업 대한 정보

한-EU과학기술협력프로그램

HORIZON 2020사업, ERC 사업, EU중심형 혁신사업, GRN사업, GRL사업 소개

Start here Horizon 2020

시작 가이드라인
Horizon 2020이 처음이라면 여기서 시작하세요!

KONNECT MAP

국내연구자와 EU연구자간 공동연구 또는 EU과제를 수행한 경험 기록합니다.

EU Plaza

EU 회원국에 대한 정보 제공

자료실

[KONNECT 결과물] D.5.1 Project Activity and
[EU 워크숍] EU 사업설명회 및 네트워킹 워크숍 - 발표자료
[KONNECT 결과물] D.5.4 Risk and Quality Management

사업공고

- 2016년도 한-독 [2 + 2] 산학연 공동연구... '16.09.28
- Opportunities for Researchers from the... '15.12.15
- [이달의 공고-7월] Starting Grant / Call f... '16.08.09
- [이달의 공고-7월] 사회적 과제(Societal C... '16.08.09

Horizon 2020 공고-연간일정
Horizon 2020 공고-분기일정

News & Event

- [EU MSCA] 유럽연구기관 - 개인 연구자 모집 공고... '16.09.29
- 한-EU Coordinated Calls R&D 컨퍼런스(10/10~12... '16.09.28
- [EU R&I Day] 2016 EU 연구혁신의 날 (2016.10.04) '16.09.23
- [Brokerage Event] 2016년도 한-EU 연구자 매치메... '16.08.26

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28 September at 21:02

Useful Links NRF 한국연구재단 미래창조과학부 European Union

사업공고

> read more

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- [Brokerage Event] 2016년도 한-EU 연구자 매치메... '16.08.26

National Contact Points

- Korean National Contact Points

Area	NCP	
	EU Office	Korea
National Coordinator	Joon Hwan CHOI (MSIP)	Myon Jung KIM (NRF)
MSCA (Mobility)	Ho Seok Jeon (NRF)	Seung Mi HAN (NRF)
ICT	Oh Cheon Kwon (ETRI)	-
Energy	Chong Hak CHAE (KRICT)	-
Bio, Food Security	Chong Hak CHAE (KRICT)	-
Nanotechnology	Jeong Dai JO (KIMM)	-
Small and Medium Enterprises	Gi Tae SHIM (KIAT)	-
European Research Council	-	Jin-Hyeon KIM (MSIP) / Hyong Ha KIM (KRISS)
Future Emerging Technology	-	Jung Wook KIM (KIAT)

- European NCPs : http://ec.europa.eu/research/participants/portal/desktop/en/support/national_contact_points.html

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Other Sources of Guidance and Information

In Belgium



Korea Research &
Innovation Centre in Europe
<http://kiceurope.eu/>



KIAT Europe Office
<http://kiat.or.kr>

In Korea



Delegation of the
European Union to the
Republic of Korea
https://eeas.europa.eu/delegations/south-korea_en

✓ **Horizon 2020 Participant Portal**

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
<http://ec.europa.eu/research/participants/portal/desktop/en/funding/index.html>

✓ **Partner Search**

<https://cordis.europa.eu/partners/web/guest/home>



HORIZON 2020

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for your attention!**

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www.ec.europa.eu/horizon2020