



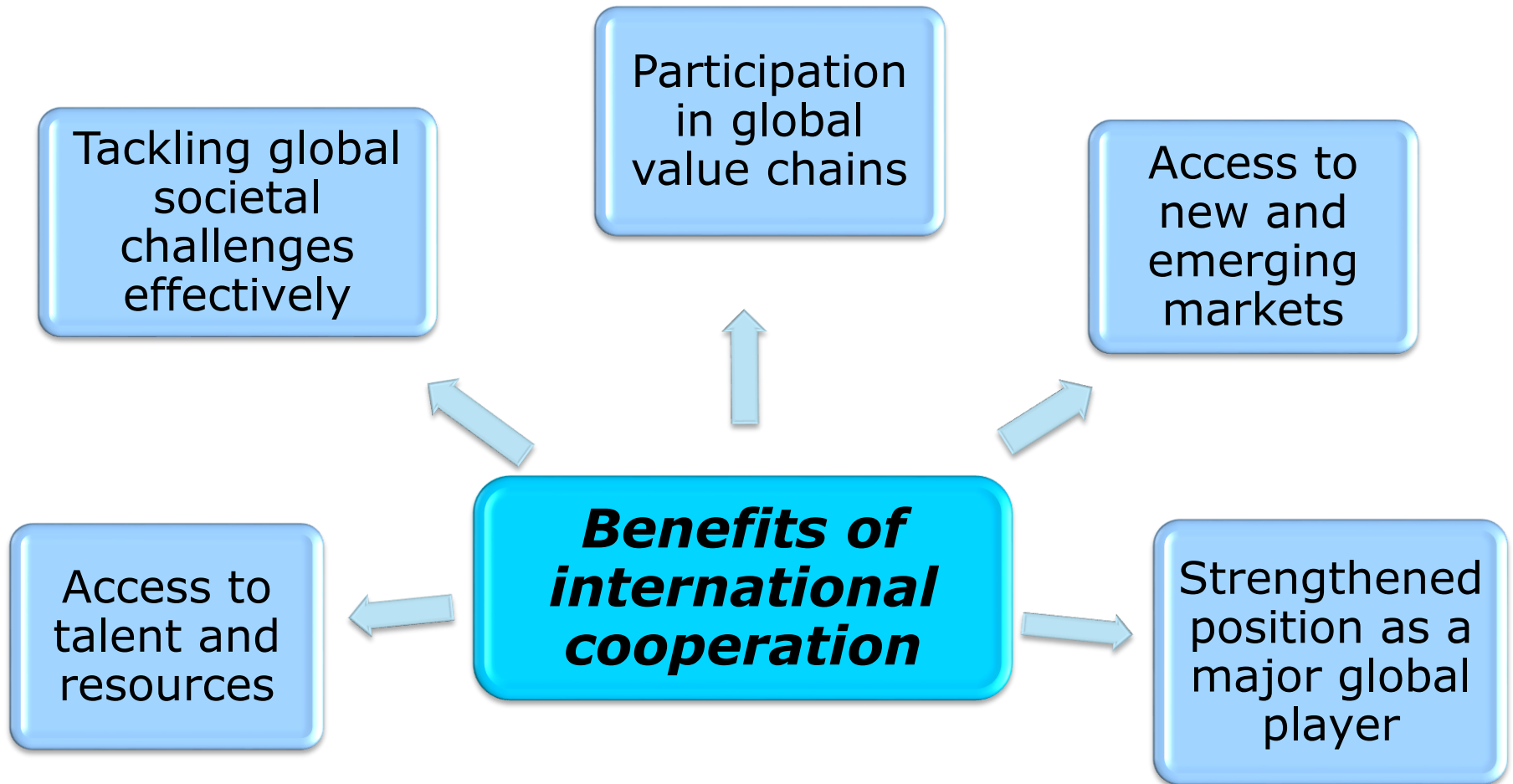
Turkish Universities in ERA "Open to the World"

Ankara, 8 October 2015

*Kostas Glinos, Head of Unit
International Cooperation Strategy
DG Research & Innovation*

ERA & International Cooperation

- ERA is open to the world: International Cooperation is a transversal ERA Priority
 - "...take maximum advantage of the best research and innovation opportunities on a global basis" (*ERA Roadmap, ERAC, 2015*)
- ERA Roadmap Actions
 - Define National strategies for internationalisation
 - Better coordination through SFIC, data exchange on joint initiatives and further development of Roadmaps
 - Improve coordination with external policies of the EU

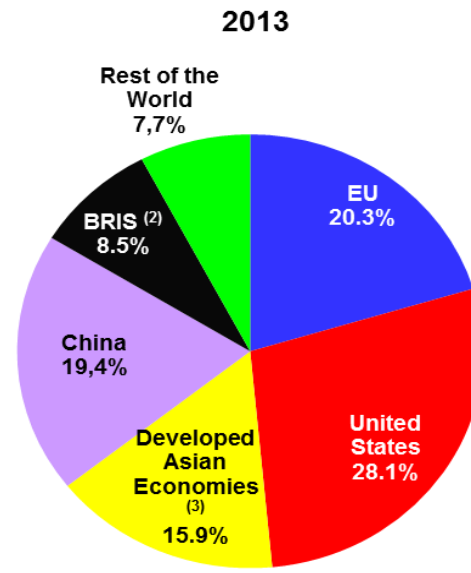
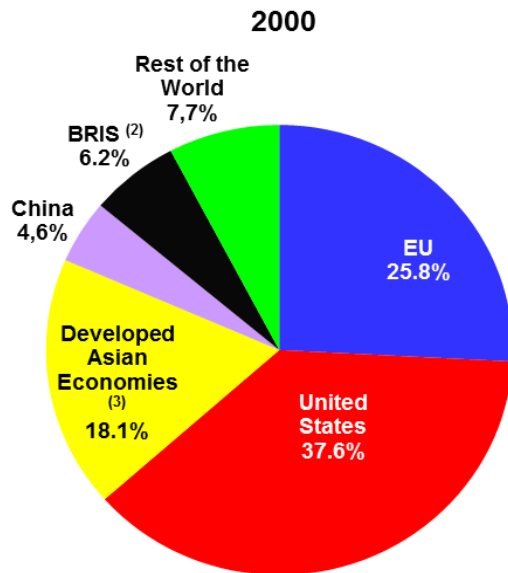


Open to the World: why?

- Science is global and collaborative
 - Excellence breeds excellence
 - Access to infrastructures and data (Open Science)
- Value chains become international
- Global societal challenges require global cooperation
- Science *for and in* diplomacy

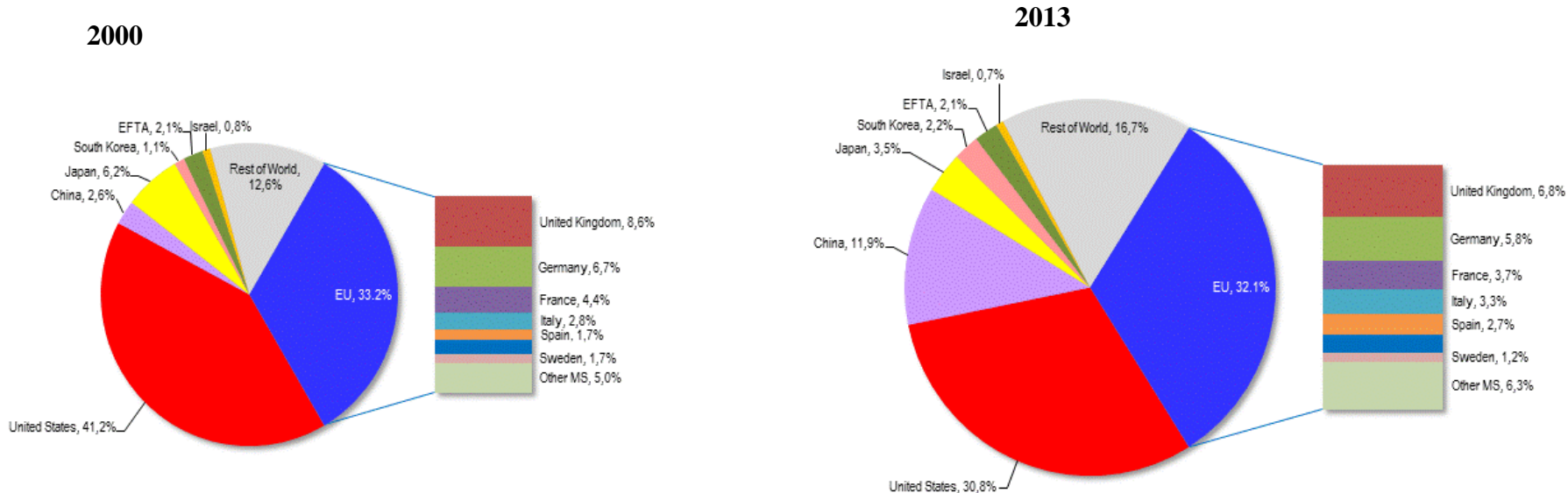
International knowledge flows will become increasingly important in a multipolar global research and innovation landscape ...

R&D Investment



... and the rise of new scientific and technological powerhouses

World share of highly cited publications (1)



Source: DG Research and Innovation - Unit for the Analysis and Monitoring of National Research Policies

Data: Science-Metrix (Canada), based on Scopus database

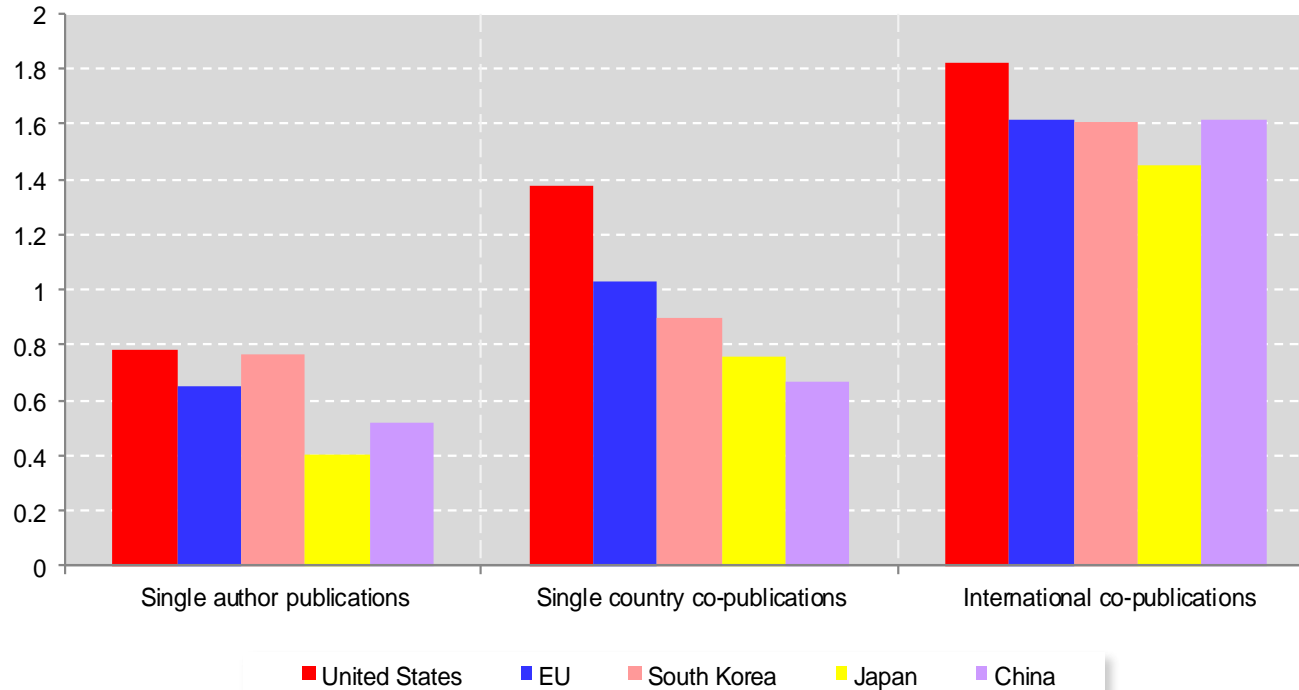
Note: (1) Fractional counting method.

(2) Scientific publications 2000, citation window 2000-2003.

(3) Scientific publications 2010, citation window 2010-2013.

Cooperation increases impact

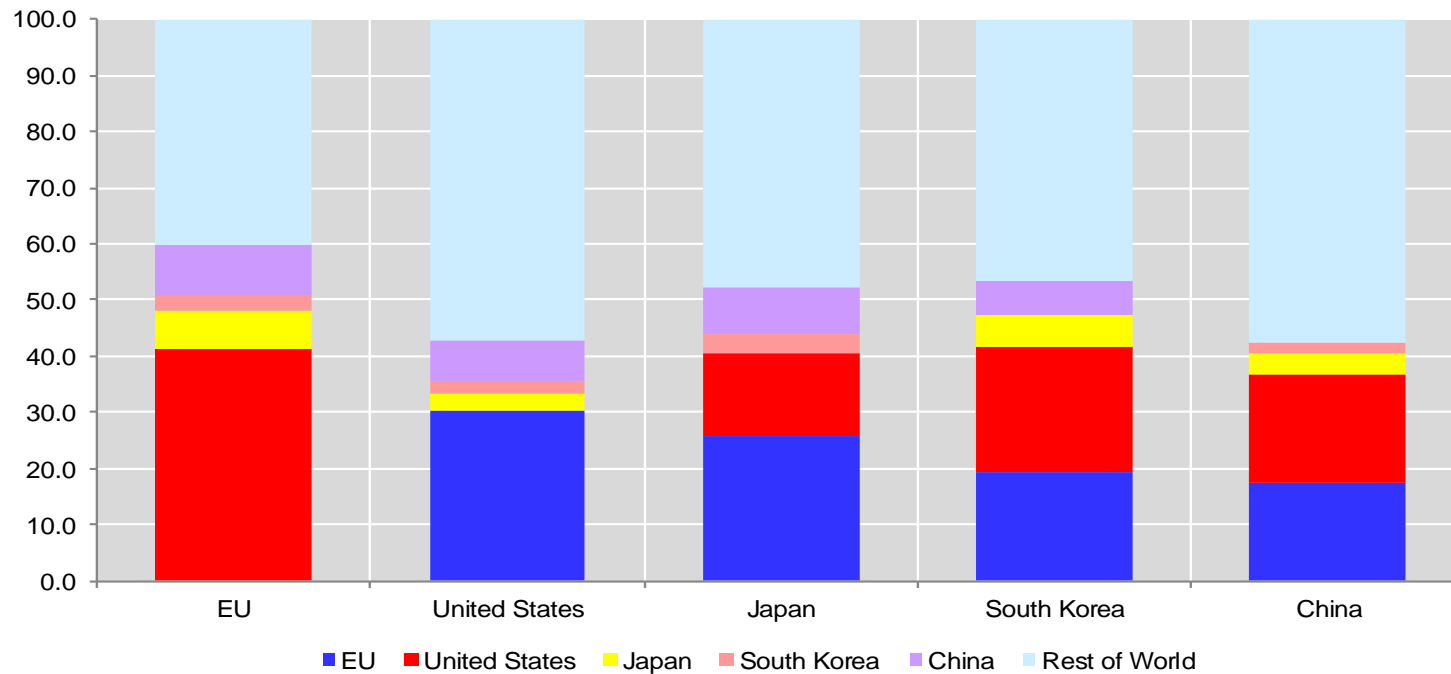
Average Relative Citations (ARC) of publications by type of co-operation, 2010



Source: DG Research and Innovation - Unit for the Analysis and Monitoring of National Research Policies
Data: Science-Metrix (Canada), based on Scopus database

The EU is the leading research partner

Scientific publication with foreign co-authors, 2010-2014



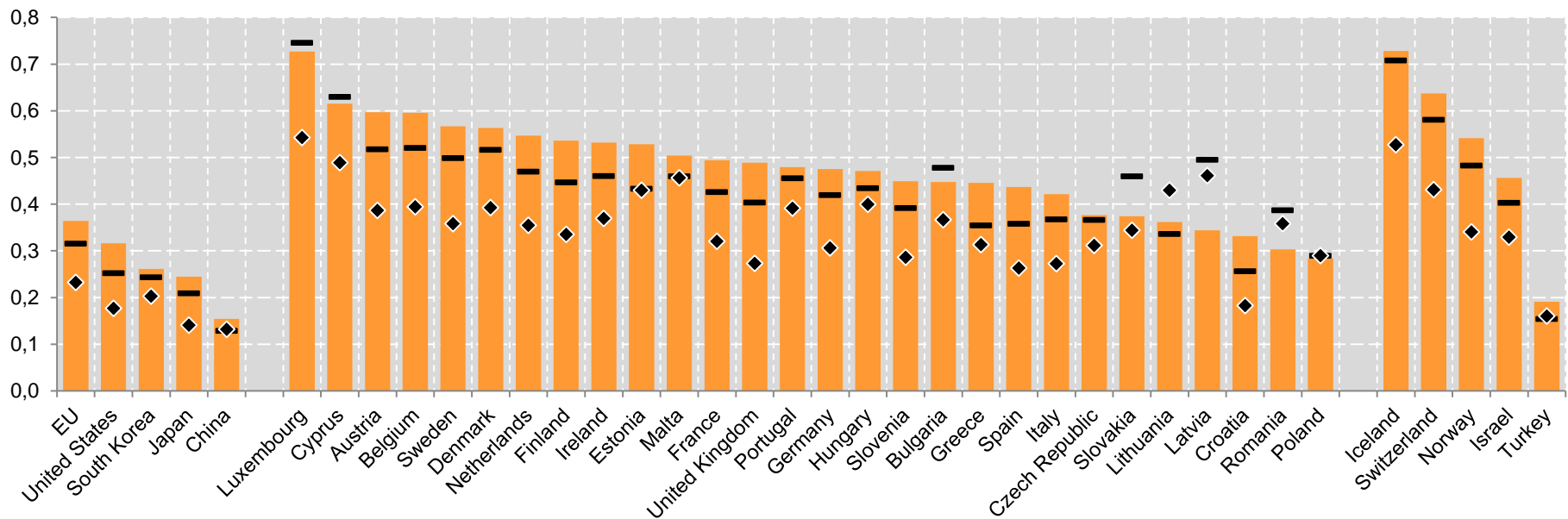
Source: DG Research and Innovation - Unit for the Analysis and Monitoring of National Research Policies

Data: SciVal (based on Scopus)

Note: Elements of estimation were involved in the compilation of the data.

... Europe is also increasingly opening up to scientific collaboration to third countries ...

International co-publications per total number of publications(1), 2000, 2007 and 2013



Source: DG Research and Innovation - Unit for the Analysis and Monitoring of National Research Policies

Data: Science-Metrix (Canada), based on Scopus database

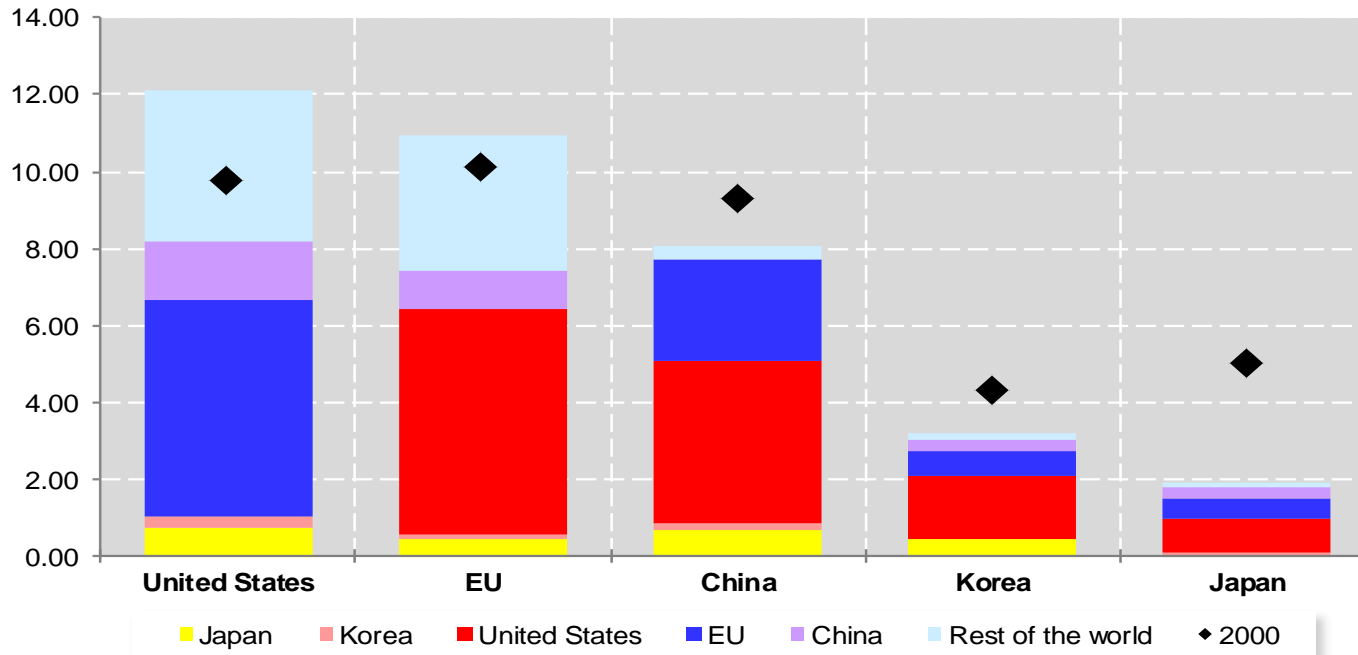
Note: (1) Full counting metod.

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 -

International co-patents are increasing

Share of patents with foreign co-inventor(s) in total patent applications (WIPO PCT), 2000, 2012



Source: DG Research and Innovation - Unit for the Analysis and Monitoring of National Research Policies
 Data: OECD

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Science Diplomacy

- Use research cooperation to catalyse and improve international relations
 - in conflict areas and complex security environments
 - in free trade
- Ensure that the EU's external policy is based on scientific evidence and advice
 - E.g. in global challenges like climate change, energy, health, migration,...

Open to the World: How? (1)

- Ensure researchers can access foreign know-how and resources
 - Mainstream international cooperation
 - Provide (co-)funding capability with key partners
 - Negotiate open access terms, interoperability (publications, data, infrastructures)
- Engage with multilateral initiatives to combat global challenges (GLOPID-R, GACD, GEO, IPCC...)
- Engage with global research infrastructures (global access, financing and governance)

Open to the World: How? (2)

- Level playing field through common principles and fair framework conditions
 - Research integrity, standards, IPR, visas,...
- Synergise with external policies (security, trade, development,...): work across silos

*Role of bilateral and multilateral dialogues and fora;
national strategy; SFIC*



Strategic Forum on International Cooperation - SFIC

- Part of ERA governance
- Align and synergise policies & activities of Member States, Associated Countries and Commission
 - Discuss actions with international partner countries
 - Exchange of data on joint initiatives between MS/AC and third countries
 - Development of multi-annual Roadmaps for cooperation with strategic partners
- Turkey's representatives to SFIC: Ms Burcu GOGUS DOGAN and Ms Melike ERGÜN (Tübitak)

Role of Universities

- Provide the infrastructure for globally Open Science and innovation
 - Open access and open data policies; university data repository/cloud; certification
 - Communication services
 - Through local ecosystems
- Encourage mobility of students and staff in ERA and beyond: mobility breeds mobility
- Engage and contribute to national and international policy



International Cooperation in Horizon 2020

- **Increase in numbers and budgets of WP 2016-17 topics specifically targeting international cooperation**, compared to WP 2014-15
 - Also better visibility and guidance on the Participant Portal
 - Matching funding arranged with key partner countries
- **European Innovation Centres**
 - To connect and support European researchers and entrepreneurs in R&I leading countries globally
- **Service Facility**
 - In support of R&I international cooperation policy
 - Awareness raising and training; support to NCPs; organisation of meetings; analysis and monitoring

For further information

- **Participant Portal**

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

- **Helpdesk**

<http://ec.europa.eu/research/enquiries>

- **Expert evaluators needed!**

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

- **Learn more about Horizon 2020**

<http://ec.europa.eu/horizon2020>

Thank you for your attention!