Recent developments in Science Advice and Science Diplomacy

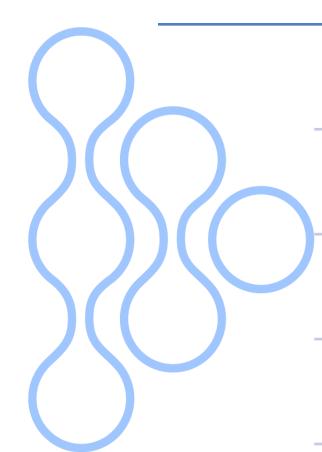
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Spain







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Why should science (R&D) be integrated in public policy (science advice)?

What R&D frameworks (ecosystems) facilitate science advice (our job in FECYT!)

Science advice initiatives in Spain: Office of Science and Technology in the Spanish Parliament and Science Diplomacy Network

Ideas to boost science advice and science diplomacy in Europe: S4D4C H2020 and SFIC Task Force on Science Diplomacy

Why should science (R&D) be integrated in public policy (science advice)?











10 REDUCED INEQUALITIES













- Science alone won't solve it
- **Policy makers** alone won't solve it
- **Society alone** won't solve it
- Only joint efforts will



13 CLIMATE ACTION



14 LIFE BELOW WATER











- ✓ BETTER INTEGRATION OF SOCIETAL NEEDS INTO R&D
- BETTER INTEGRATION OF SCIENTIFIC EVIDENCE INTO PUBLIC POLICY (SCIENCE ADVICE)

IMPACT

TRUST

INFORMED SOCIETIES

OPEN INNOVATION

EFFICIENT

SOCIAL AND POLICY IMPACT

VALUES

SOCIAL & POLITICAL

ECONOMIC

SCIENTIFIC

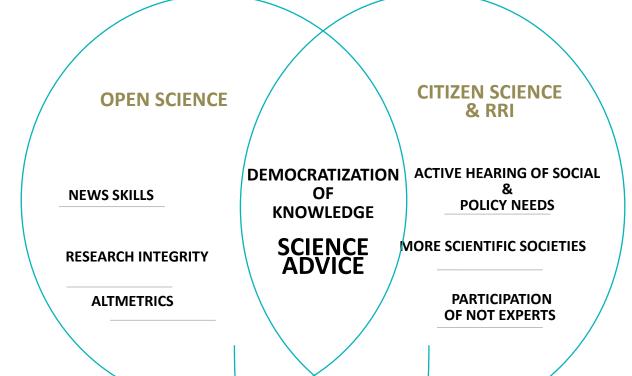
OPEN INFRAS

SKILLS

VALUES

FAIR
INDICATORS
&
INCENTIVES

VERSATILE RESEARCH CAREERS



PUBLIC INTEREST

INTEGRATION
OF SOCIAL
NEEDS
INTO
RESEARCH

SCIENCE COMM

STRONG SOCIETIES DIALOGUE

SOCIAL RELEVANCE

SOME INITIATIVES FOSTERING SCIENCE ADVICE AND SCIENCE DIPLOMACY IN SPAIN







- Civil society movement asking for a science and technology office in the Spanish Parliament
- Extremely successful in social media
- ✓ Agreement with the Parliament to run a "Science in the Parliament" event in 2018
- ✓ 24 researchers were trained to be science advisors on a voluntary basis
- ✓ These volunteers presented scientific evidence of 12 themes to Spanish MPs: climate change, immigration, suicide, education, AI, etc.
- MPs acknowledged the importance of science advice and the Parliament created a S&T office, under construction by FECYT and the Congress!

SOME INITIATIVES FOSTERING SCIENCE ADVICE AND SCIENCE DIPLOMACY IN SPAIN



IDEAS TO BOOST SCIENCE ADVICE AND SCIENCE DIPLOMACY IN EUROPE



Project "Using Science for/in Diplomacy for Addressing Global Challenges"

Aiming to research and support EU and global Science Diplomacy approaches

Partners from science and practice

Universities, international organizations, diplomatic training academy, SD implementation agencies

+ 6 associated partners















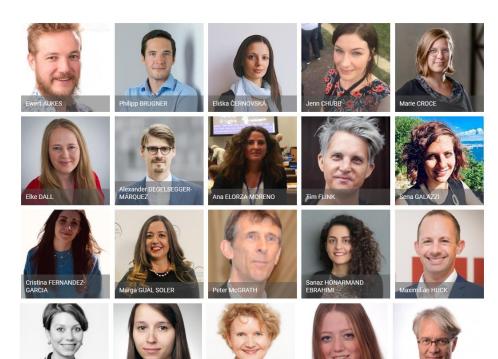








SUPER Team





























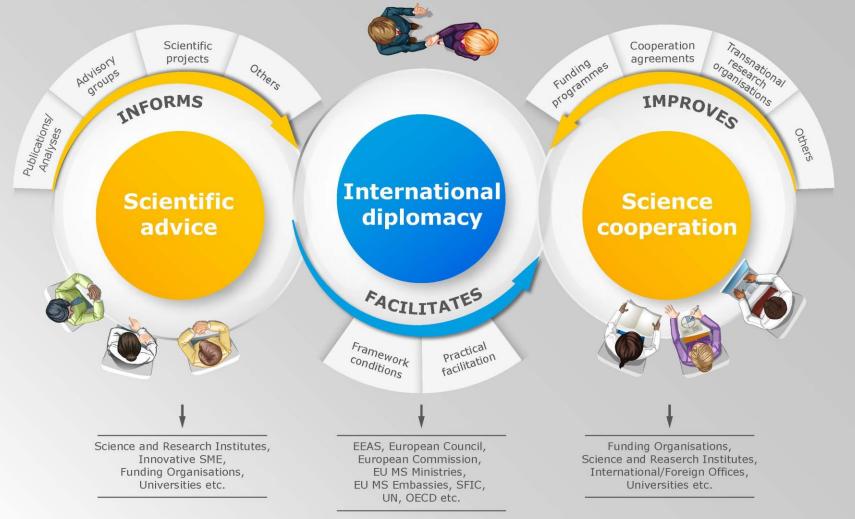






This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 770342.

EU Science Diplomacy





When we think of Science Diplomacy, we tend to create an idea of communication between distinct groups of actors that have clearly demarcated professional identities and corresponding agendas ("scientists", "diplomats", "science managers" etc.). However, the activities and agendas of Science Diplomacy actors do not always conform with their apparent professional identity. This blending of agendas, activities and identities contributes both to the huge potential and to the complexity of Science Diplomacy.



9 Case studies

Infectious diseases; Food security cooperation; Cyber security; Water diplomacy; Research infrastructures (SESAME); Joint programming; Flagships; Open science diplomacy; Science advice mechanisms (fisheries)

10 "Matters"



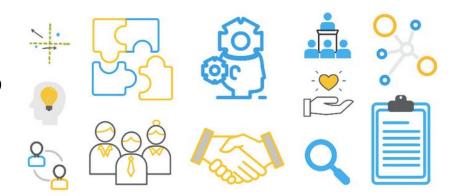
Resulting from our transversal analysis:

Governance Systems, Instruments, Geography, Individuals, Levels, Scale, Values, Interests, Implicitness, Timing & Rhythm

14 Key conceptual and policy papers (to date)

Developing A New Protocol for Science Diplomacy Calling for critical assessment and evaluation of SD actions

Contributing to the definition of what is a science diplomats and necessary skills



37 Key training outputs

- 1 massive open online course
- 2 in-person trainings (Vienna and Trieste), 1 open doors programme
- 6 webinars
- 1 toolkit for trainers
- 24 separate training materials
- 1 platform for knowledge resources, 1 commented bibliography



6000 + Trainees and interested users

Registered users for our online training course – and 1000 participants at the webinars





100 + Countries

Registered users for our networking meetings, online training courses and the webinars from all over the world

230.000 Visits on our website

28.222 downloads of our materials

3.100+ twitter followers

1.500+ group members of LinkedIn Group

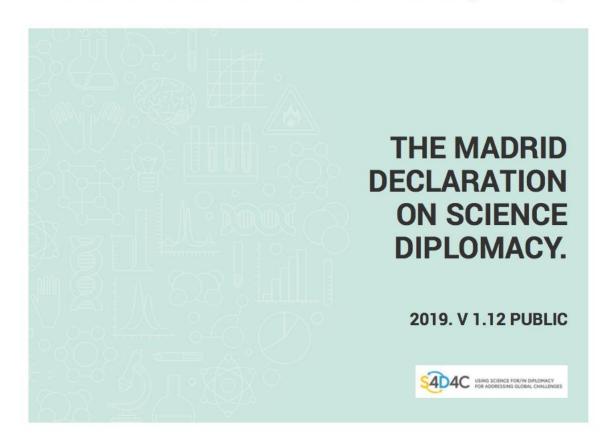


3 Networking events

1st in Madrid 2018 -> resulting in the Madrid

Declaration signed by more than 200 experts on science advice and diplomacy.

The Madrid Declaration on Science Diplomacy



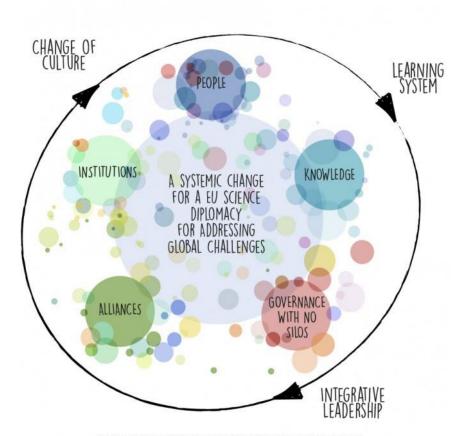


2nd in **Berlin** 2019 -> resulting in the **Policy Report "Calling for a Systemic Change"**



STOPPERS, WARNINGS, AND DRIVERS FOR ADDRESSING GLOBAL CHALLENGES

SCIENCE DIPLOMACY SCIENCE DIPLOMACY lemocracy, institutions · Need for strengthening Globalisation • Specialised and new actors and fragmented scientific cooperation goals Different understandings knowledge Adaptation to about science diplomacy · Bureaucracy and digitalisation and · Different mind sets, resistance to recognise information technologies cultures, and rules to Common Foreign and bridge interface professionals Security Policy, a work in Competitive versus Science advice collaborative approach mechanisms are complex progress Weak political leadership · Lack of scientific Lack of diplomatic training in the diplomatic for science diplomacy training in the research community community • The EU: global leader in The EU shows leadership · Science and collaboration multilateralism and science in SDGs and climate · Good examples of as core European values emergency · Good examples of development cooperation · Global and regional frameworks charters for win-win science advice mechanisms Knowledge-based The public value of actions economic diplomacy · Demand for training from · Science as a driver for · Wider policy impact of both communities diplomacy Trust, empathy, political research and innovation will, and timeframes



The systemic change towards a EU science diplomacy for addressing global challenges.

3rd Final S4D4C online 2021 hosted by FECYT

-> together with our smaller focus groups and co-creation events: 1200+ registered



Home About News Events Science Diplomacy Resources

EU Science Diplomacy Alliance

The EU Science Diplomacy Alliance is a collaborative initiative launched by the Horizon 2020 science diplomacy projects S4D4C, InsSciDE and EL-CSID to sustain and grow the networks, impact and momentum consolidated by the three projects.

The Coordinators of S4D4C, InsSciDE and EL-CSID together launched the Alliance at the Final Networking Conference of S4D4C on 19 March 2021, with the support of several founding members. The Alliance is grounded in the results and networks fostered by the three projects and aims at sustaining the dialogue on EU science diplomacy and cultivating new opportunities to progress theory and practice of science diplomacy in Europe.

The Alliance emerged as a result of the S4D4C policy brief: Nurturing the EU Science Diplomacy Community: The Launch of an EU Science Diplomacy Alliance for Addressing Global Challenges. It will facilitate interactions and dialogue, training, institutional capacity building and coordination of grant-seeking or use of joint funding, if available. The Alliance serves as a hub for cooperative activities and voluntary coordination, and relies upon the participating membership community and networks to highlight and select different areas and innovative activities to be pursued. It is hoped that a great variety of societal challenges may be addressed over time.









SFIC in a nutshell



ADVISORY BODY

on international research and innovation cooperation



SUPPORT

Council of the EU and the European Commission



CURRENT FOCUS AREAS

Africa, China, Science Diplomacy



FURTHER INFORMATION

<u>erac-sfic@consilium.europa.eu</u>

https://era.gv.at/directory/35

https://www.consilium.europa.eu/en/council-eu/preparatory-

bodies/european-research-area-innovation-committee/

https://ec.europa.eu/Research/iscp/index.cfm?pg=sfic-general

SFIC SCIENCE DIPLOMACY TASK FORCE Science
Diplomacy
"Input and HE
Papers"

Science
Diplomacy
Stakeholders
and Networks

Science
Diplomacy
Survey for
MS/AC

Science Diplomacy "Survey for MS/AC"

Aim is to assess the <u>current status of Science Diplomacy</u> related strategies and activities in MS/AC – also related to foster the integration of Science Diplomacy aspects in national STI strategies

Assess the potential for <u>EU-wide cooperation and coordination</u> in this field – also related to development of an overall Science Diplomacy Roadmap including EU Commission, the EEAS and the Member States

The survey include a question of the ERA National Action Plans on priority 6 detecting the current integration of SD issues.



Formal policy strategies for Science Diplomacy are often missing

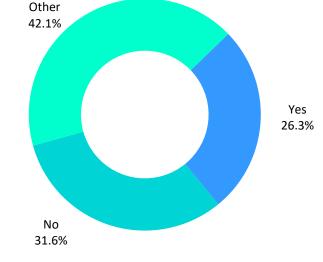
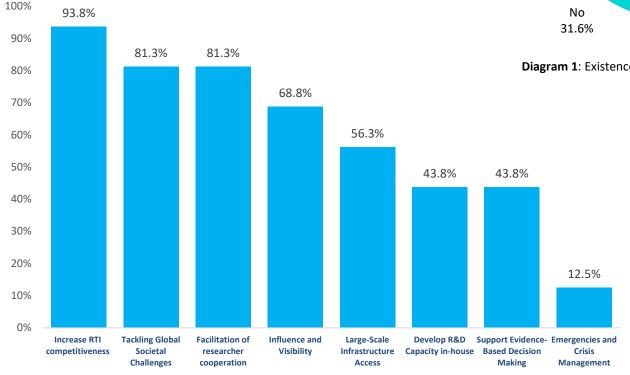


Diagram 1: Existence of Science Diplomacy Strategies N=19



Main goals are increasing national capacities and tackling global challenges

Diagram 2: Core objectives of Science Diplomacy strategies **N=16**

Science advice for foreign affairs policies still in the making

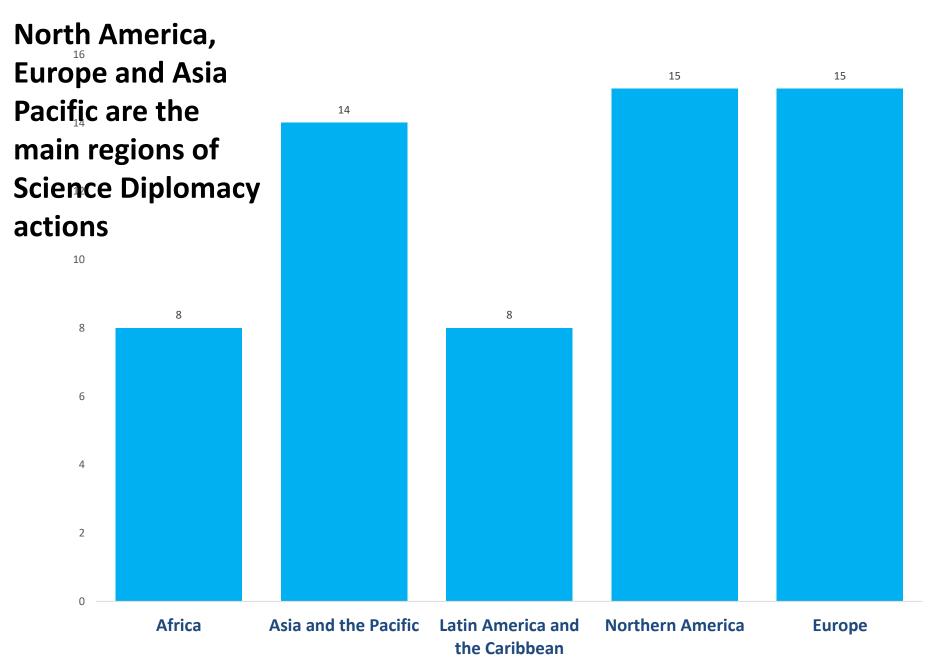
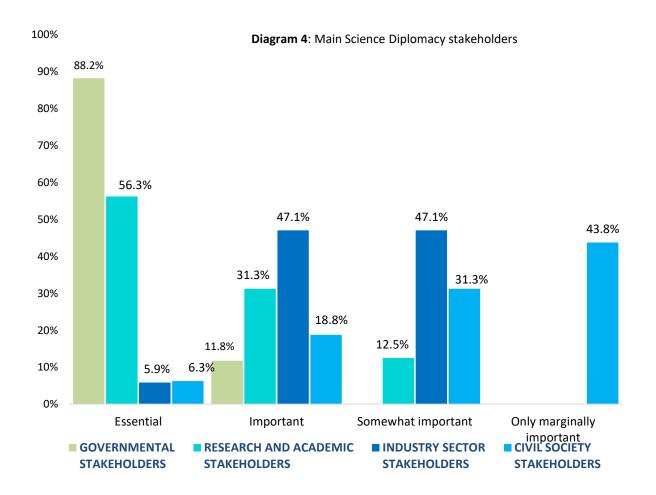


Diagram 3: Focus of Science Diplomacy activities in the different world regions **N=16**

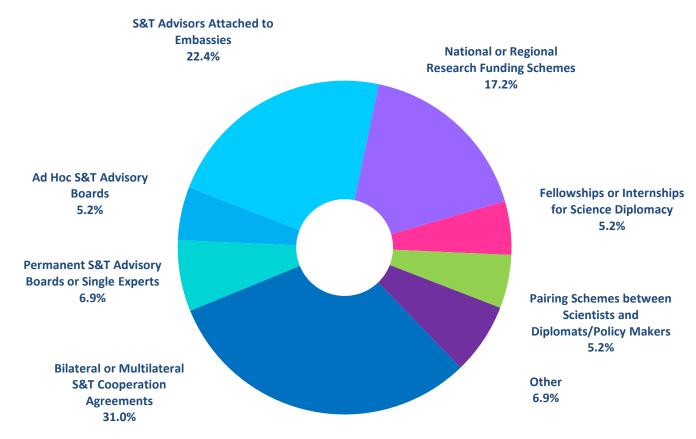
Governmental stakeholders leading Science Diplomacy approaches



Civil society not yet in the Science Diplomacy equation

National Science Diplomacy policy coordination and support mechanisms are widely used

Diagram 6: Mechanisms to advance Science Diplomacy **N=18**



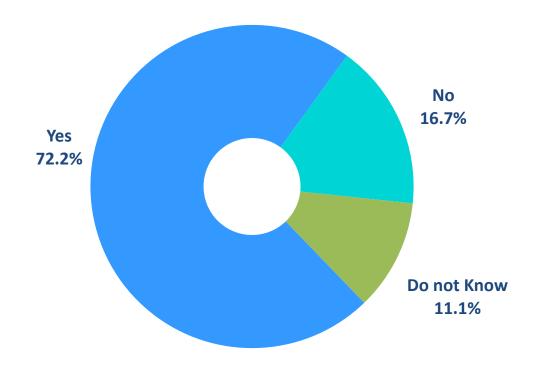
Call for additional EU level coordination

International coordination in the making

More coordination should not mean more bureaucracy

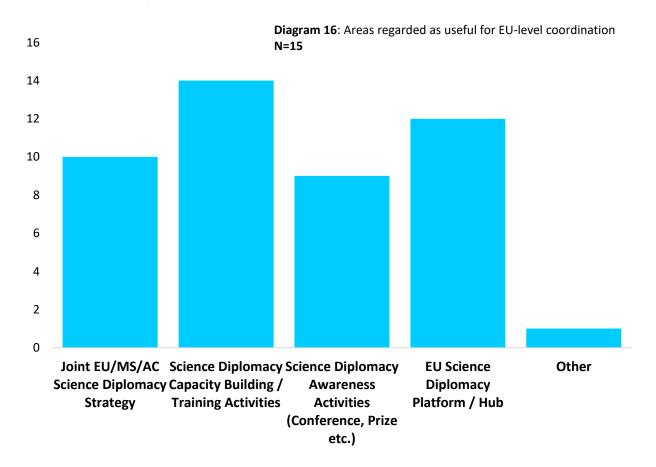
Big potentiality of EU Science Diplomacy

Diagram 9: Usefulness of coordination at EU level **N=18**



Lack of Science Diplomacy training mechanisms

ERA supporting Science Diplomacy efforts of Member States



COVID 19 crisis: an opportunity for Science Diplomacy

IDEAS TO BOOST SCIENCE ADVICE AND SCIENCE DIPLOMACY IN EUROPE

- Raise awareness among stakeholders (policy makers, researchers, society)
- ✓ Curb expectations (i.e: science <u>informed</u> policies vs science <u>based</u> policies)
- Public engagement towards science advice and science diplomacy (as it strengthens trust of society in science and public policy)
- Develop new skills for researchers (trans-disciplinarity, knowledge transfer, etc.)
- Foster new professions at the interface of science and public policy (science advisors, scientific attachés)
- Foster mobility of researchers and embedding researchers into public bodies
- Build trust among researchers and policy making
- ✓ Acknowledge and rewarding public impact of research
- ✓ Foster the integration of policy makers and other stakeholders into the research process (so that scientific results are more fit for purpose)

Thank you!

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