

Spreading Research Excellence in Europe: Perspectives of Academia Europaea

20th April 2017
Tbilisi



Academia Europaea

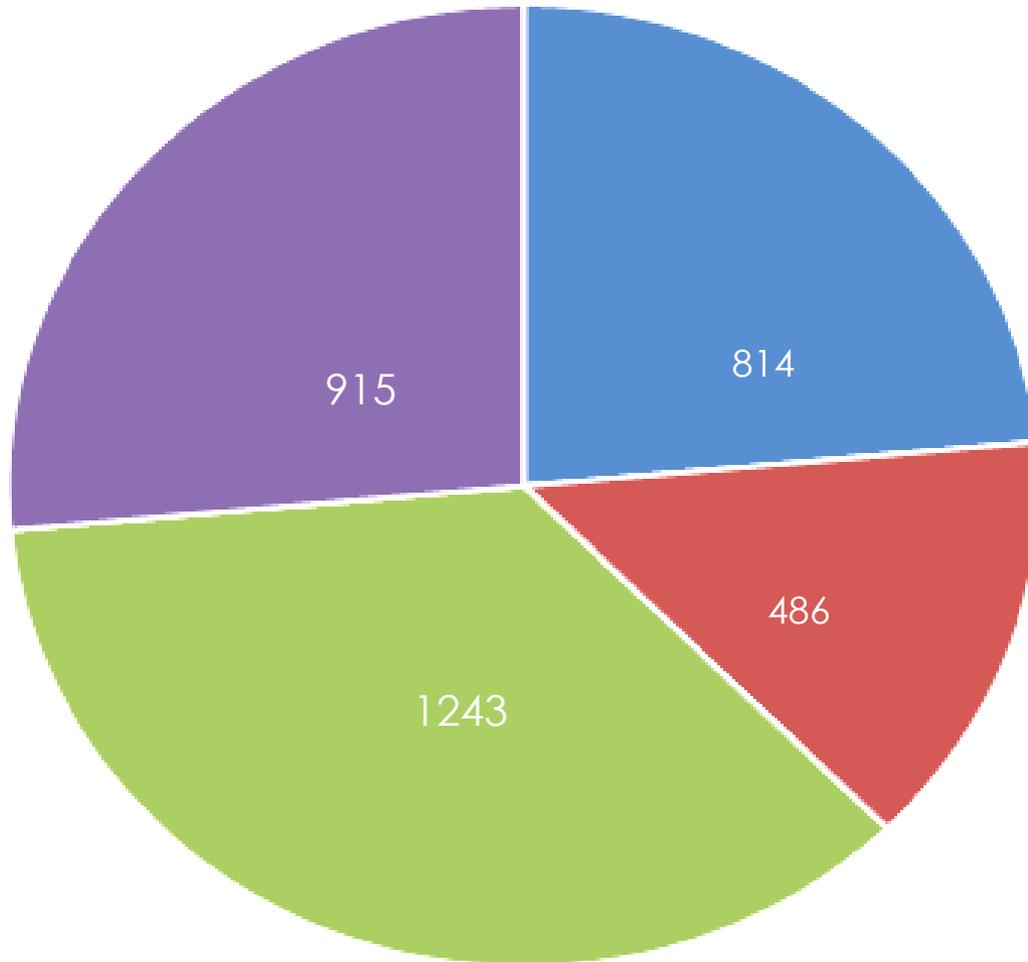


Founded in 1988 as an international non-governmental association of scientists and scholars from all disciplines, who are experts and leaders in their subject areas, as recognised by their peers.



Academia Europaea Foundation Meeting, 5-6 December 1988, Cambridge

MEMBERSHIP by subject discipline



- Humanities
- Social Sciences
- Exact Sciences
- Life Sciences





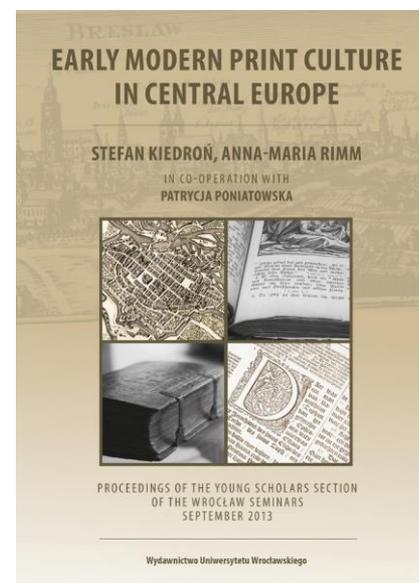
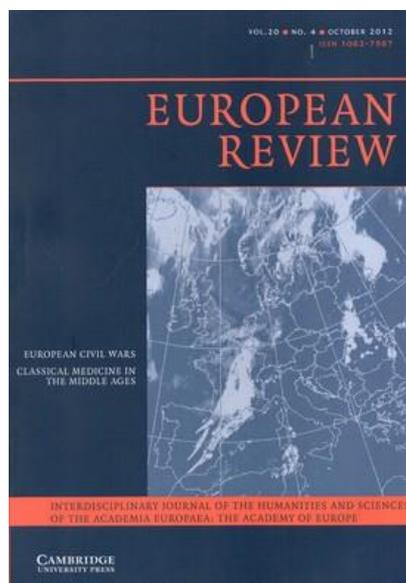
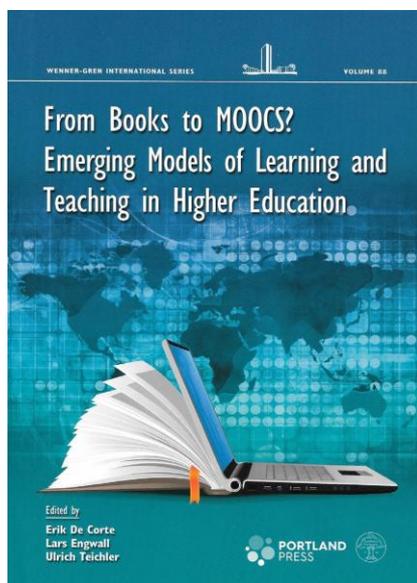
Mission statement

- We encourage the **highest possible standards in scholarship, research and education**
- We promote a **better understanding by the general public of the benefits of knowledge and learning, and of scientific and scholarly issues which affect society, its quality of life and standards of living**

AE ANNUAL MEETINGS



EXAMPLES OF PUBLICATION ACTIVITIES





Academia Europaea hubs



AE head office, London



AE hub Barcelona



AE hub Wroclaw



*AE hub
Bergen*

**NEW:
AE hub
Cardiff**

**-
Inauguration
2016**

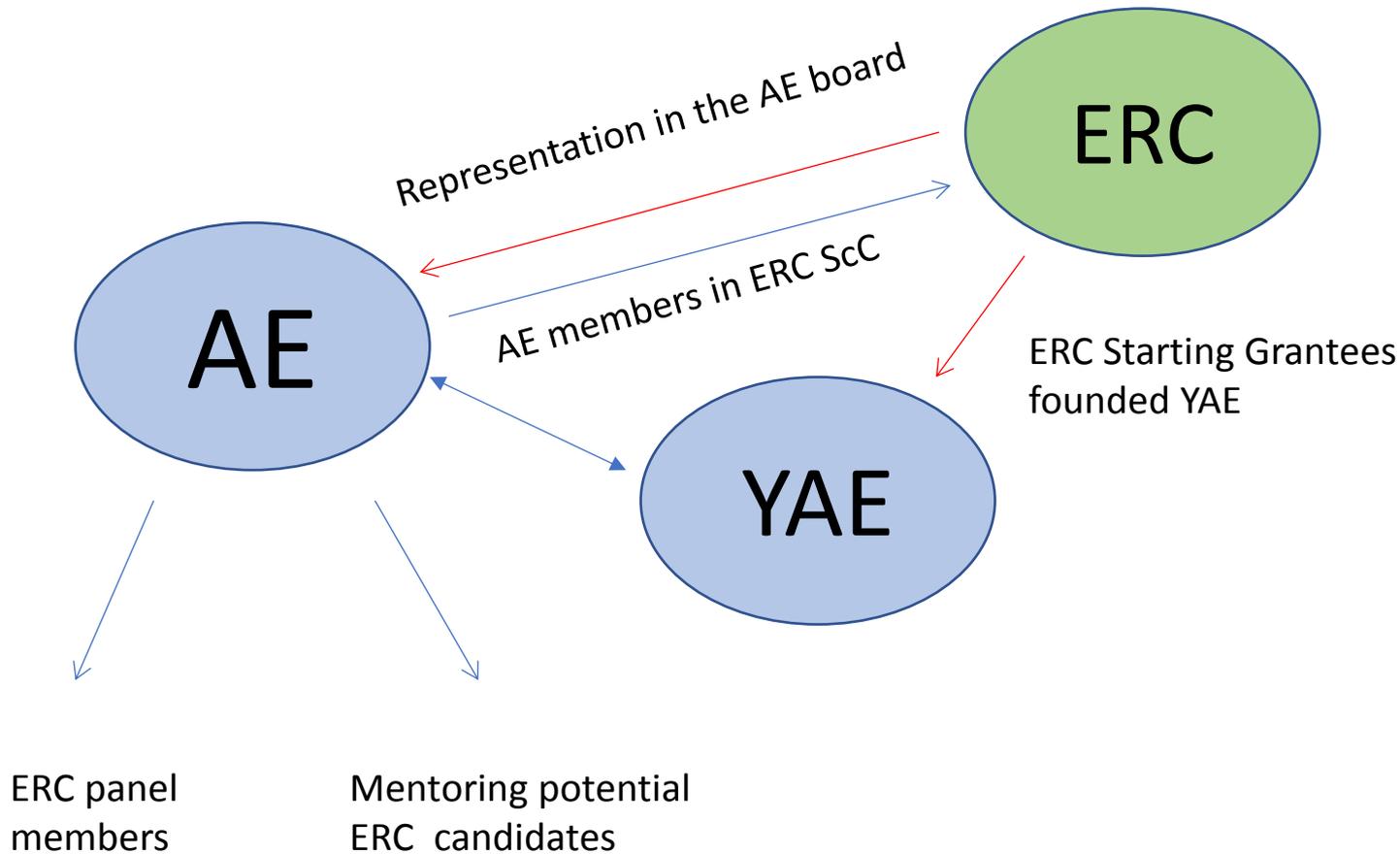




Priorities

- Encourage interdisciplinary and international research in all areas of learning, particularly in relation to European issues
- Identify topics of trans-European importance to science and scholarship, and propose appropriate action to ensure that these issues are adequately studied
- Promoting synergy between Academia Europaea and the Young Academy of Europe
- Foster a close interaction with ERC
- Pro-active role as voice for science in Europe, in close partnership with e.g. EASAC, ALLEA, Euro-CASE, FEAM and national academies

AE, YAE and ERC interactions



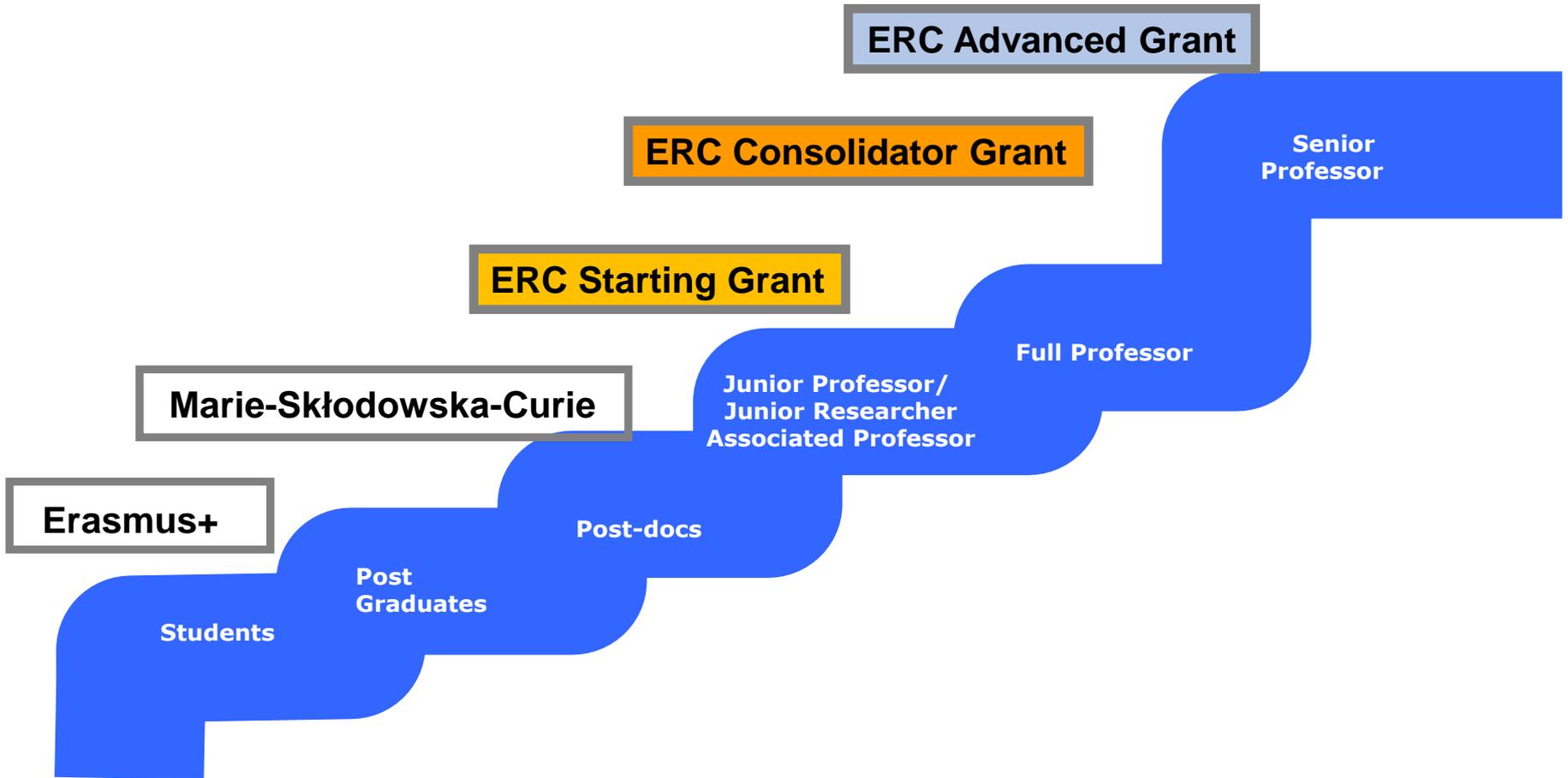


Synergy between AE, YAE and ERC

Synergy between AE, YAE and ERC in fostering **widening European participation in ERC:**

- Academia Europaea –covering the same disciplines as ERC
- Young Academy of Europe with task force "Spreading excellence in Europe"

Researchers' career development and complementary funding schemes





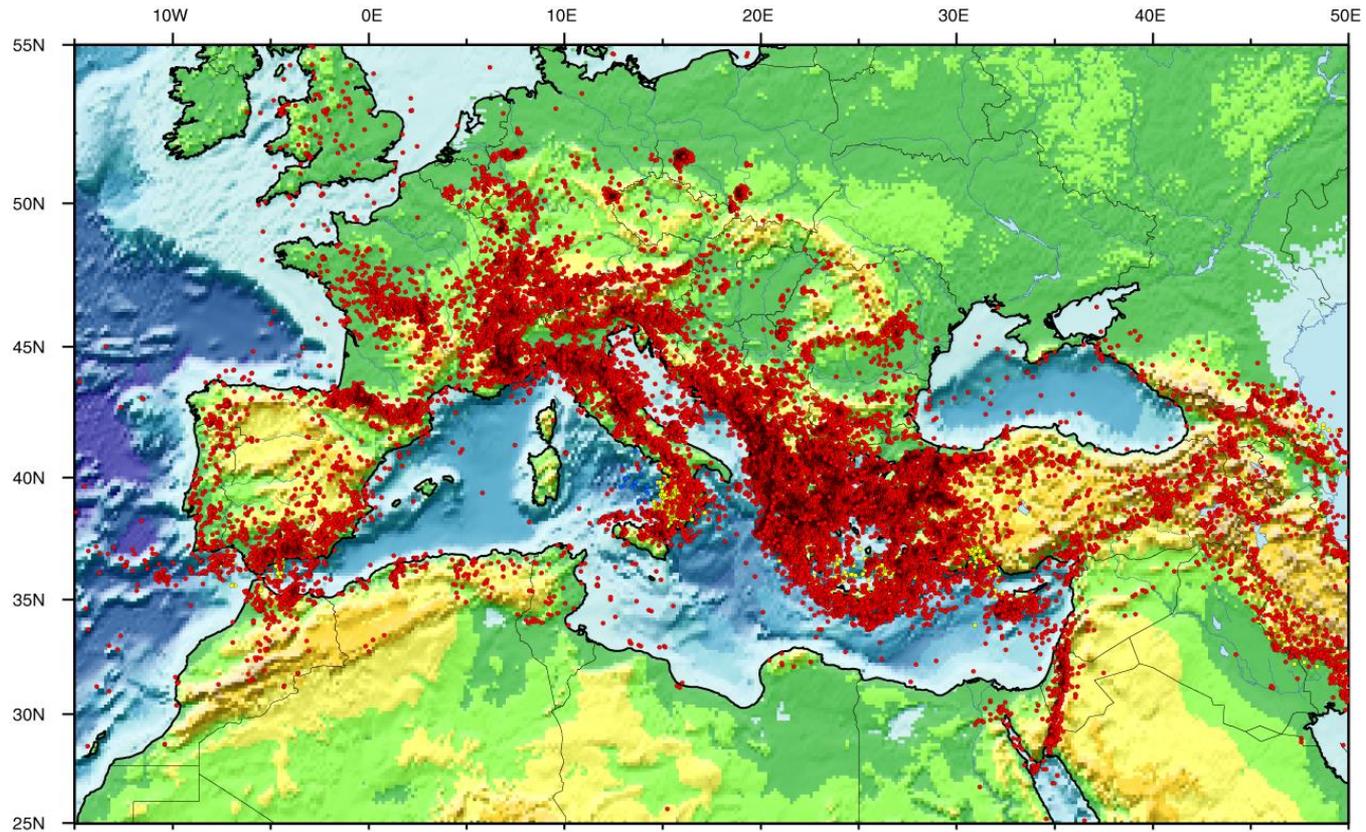
ERC Funding schemes

General requirements

- **In conjunction with a Host Institution**
 - **Based in EU or associated countries**
- **Individual PI with research team**
 - **Researcher has freedom to choose national or trans-national team, if scientific added value proven**
- **ERC grants are portable**

Cross-border nature of Earth sciences

Natural hazards occur everywhere and do not respect national borders



**Sierd Cloetingh, Sean Willett
& TOPO-EUROPE team**

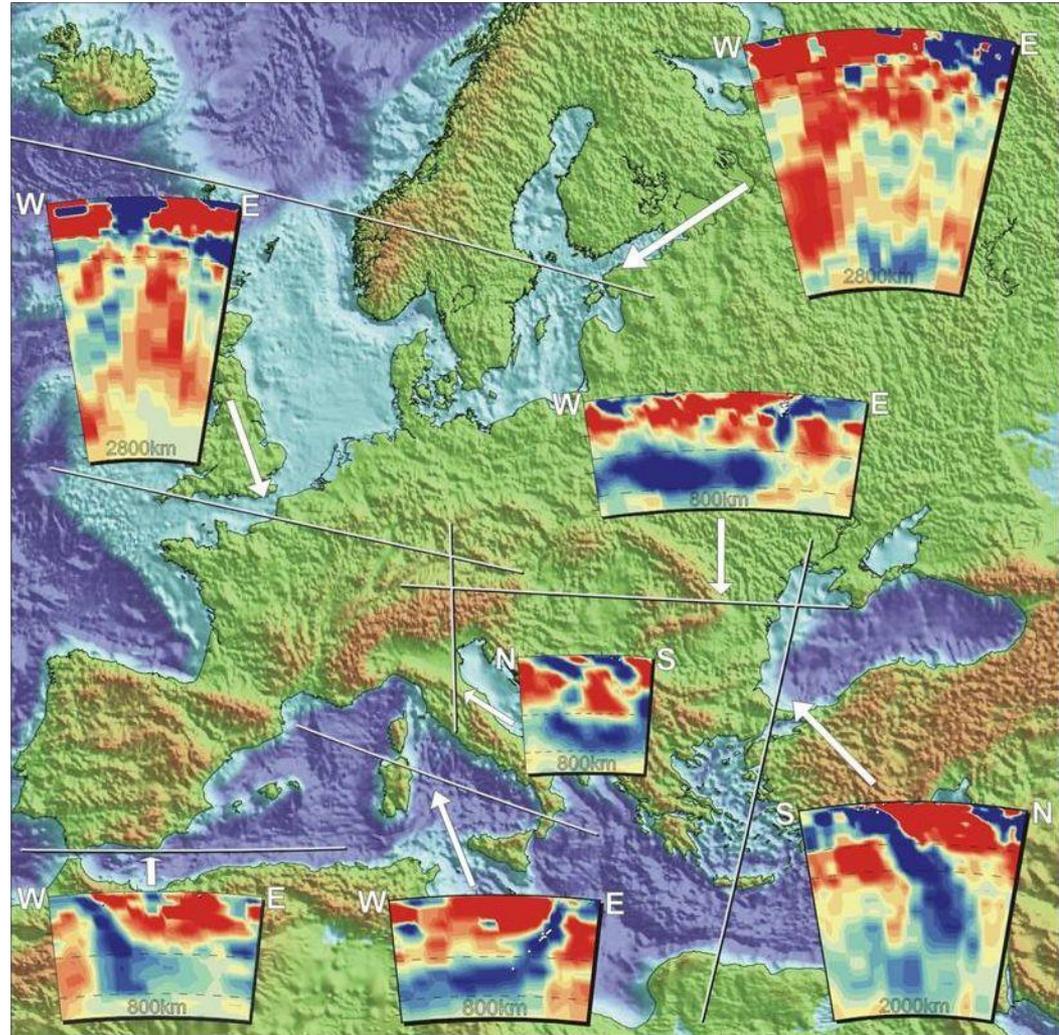
TOPO-EUROPE

Fundamental Premise

**Continental topography is the product
of the interaction between
processes operating deep in the
Earth, on its surface and in the
atmosphere**

**It's understanding requires a
multidisciplinary approach**

- **23 participating countries**
- **14.5 M Euro funding**
- **60 new positions for young researchers**



INTERNATIONAL
LITHOSPHERE PROGRAM

EUROPEAN
SCIENCE
FOUNDATION

TOPO-EUROPE
A EUROCORES PROGRAMME
EUROPEAN COLLABORATIVE RESEARCH



Young Academy of Europe (YAE)

A pan-European initiative of young scientists and scholars with outspoken views about science and science policy

- *YAE is a **multidisciplinary and pan European not-for-profit organisation** of individual scientists and scholars, who are experts and leaders in their respective fields.*
- Currently about 150 members
- YAE has a Board and is divided into **three Domains**
- YAE forms **working groups** with regard to its activities (across domains)
- **Members of the YAE Board** are selected from among its members representing the three Domains

New EU Scientific Advice Mechanism (SAM)

5 European Academy Networks committed to strengthen their cooperation at EU level **to provide: independent evidence-based advice to policy makers** in the European Commission and Parliament by combining the resources of academies across Europe, assembling more than 10,000 eminent **experts** from the **social, human, natural, engineering and medical sciences**.



- Academies play a major role in regional and national scientific advice systems.
- They provide unbiased, balanced and independent policy advice.
- Academy Fellows are elected by their peers, based on scientific excellence.
- The EC's new Scientific Advice Mechanism (SAM) includes an own pillar for the Academies in Europe.
- The 5 European Academy Networks Academia Europaea, ALLEA, EASAC, Euro-CASE and FEAM set up the **SAPEA** project →
“Science Advice for Policy by European Academies”



SAPEA Geographical Coverage

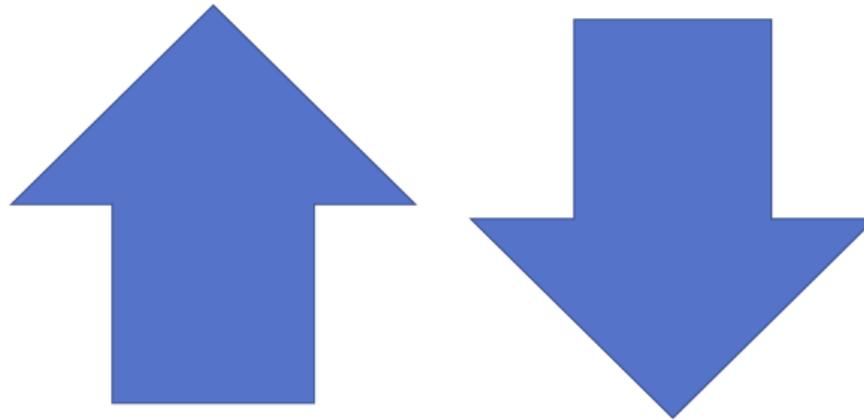
100 Academies across Europe and beyond



 = country with at least one SAPEA Member Academy

SAPEA: Generation of scientific topics

- **Bottom-up:** Academies can suggest scientific topics to the SAPEA Board via their European Academy Network
- **Top-down:** Requests from a Commissioner or Directorate-General of the European Commission



SAPEA can react to policy demands or upcoming debates through its **rapid response mechanism**, e.g. by providing access to Academies' past, current or planned advice activities or by organising ad-hoc workshops

SAPEA Working Processes

SAPEA's working process will involve:

- scoping papers
- working groups
- publications
- dissemination activities

Quality assurance process: publications will be peer-reviewed and endorsed by the European Academy Networks

SAPEA works under the rules of open access: it is obliged to publish every endorsed scientific publication

Scientific topics within SAM

- [Light-duty vehicle real-drive CO2 emissions](#)
- [Cybersecurity](#)
- [New techniques in agricultural biotechnology](#)
- [Food from the Oceans](#)
- Evaluation of pesticides legislation

Sustainability and Resilience

Joint Annual Meeting of Academia Europaea – ALLEA-YAE
4-6 September 2017, Budapest

