The European Federation of Geologists and the European Geologists

Michael U.C. Neumann
EFG Vice-President

Conference on “Best practice guidelines for mineral exploration and mining perspectives in Estonia”
Tallinn, Estonia
May 2019

EFG – The voice of European Geolo

- NGO with headquarters in Brussels, founded i 1980
- **Professional organisation** representing geoscientists all across Europe
- Members: national professional associations
- Strategic Plan 2018-2022: **"Towards a sustainable future"**
- **Strategic actions:** EFG Members, EFG Networ Professional Expertise, EFG Projects, EFG Communication and Panels of Experts



EFG – The voice of European Geologists

Purpose

The European Federation of Geologists (EFG) is a not-for-profit organisation instituted to ensure competent and ethical practice among geoscientists in Europe while representing the profession across the continent.

Vision

EFG aims to be recognised as an independent, trustworthy and reliable international organisation that contributes to the protection of the environment, public safety and the responsible use of natural resources.

Mission

To promote excellence in the application of geoscience across Europe, to represent the professional European associations of geoscientists and to create public awareness of geoscience's importance to society.

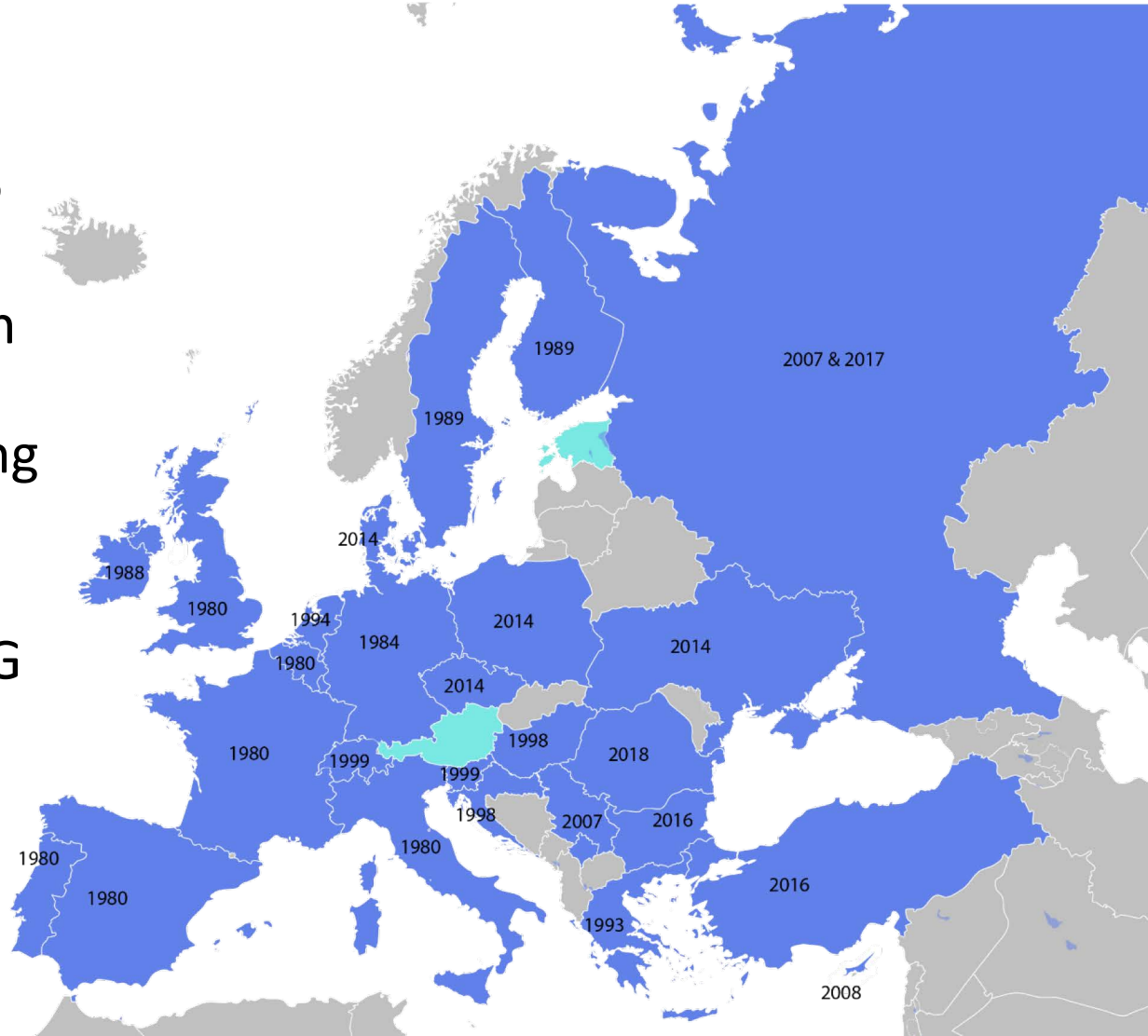
Values

Professional geologists contribute to public safety, sustainable development, the responsible use of natural resources, wealth creation and the effective prediction, prevention and mitigation of natural hazards through cooperation with other experts and effective communication with the public.

EFG Members

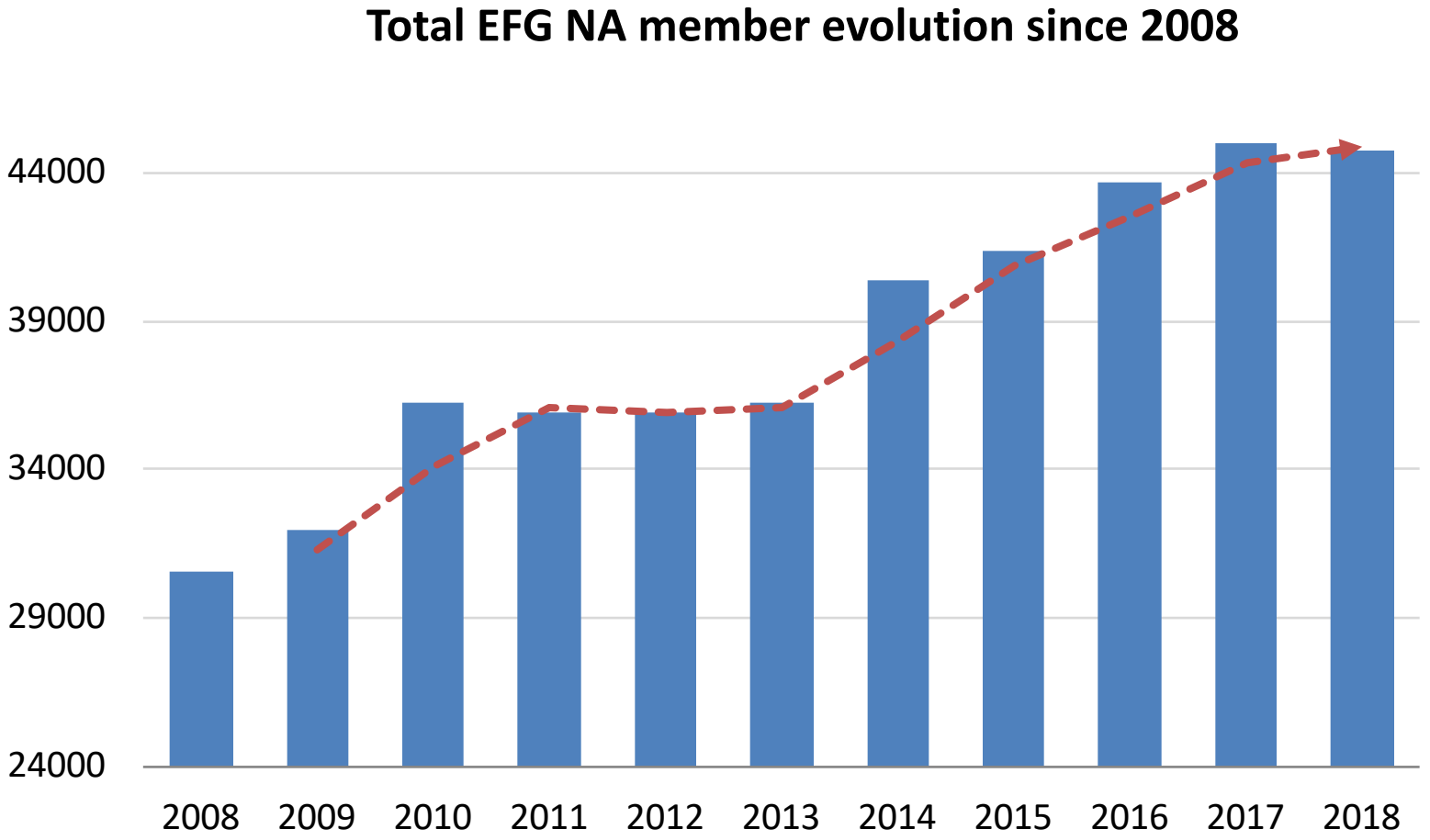
Developing and maintaining a strong EFG Member network

- 26 national professional associations representing over **45,000 individual members across Europe**
- New member (05-2018): Romanian National Association of Professionals in Geology and Mining
- Close links with **associated sister organisations from overseas**: among others AIG (Australia), CCPG (Canada), GSSA (South Africa) and AIPG (USA).



EFG Members

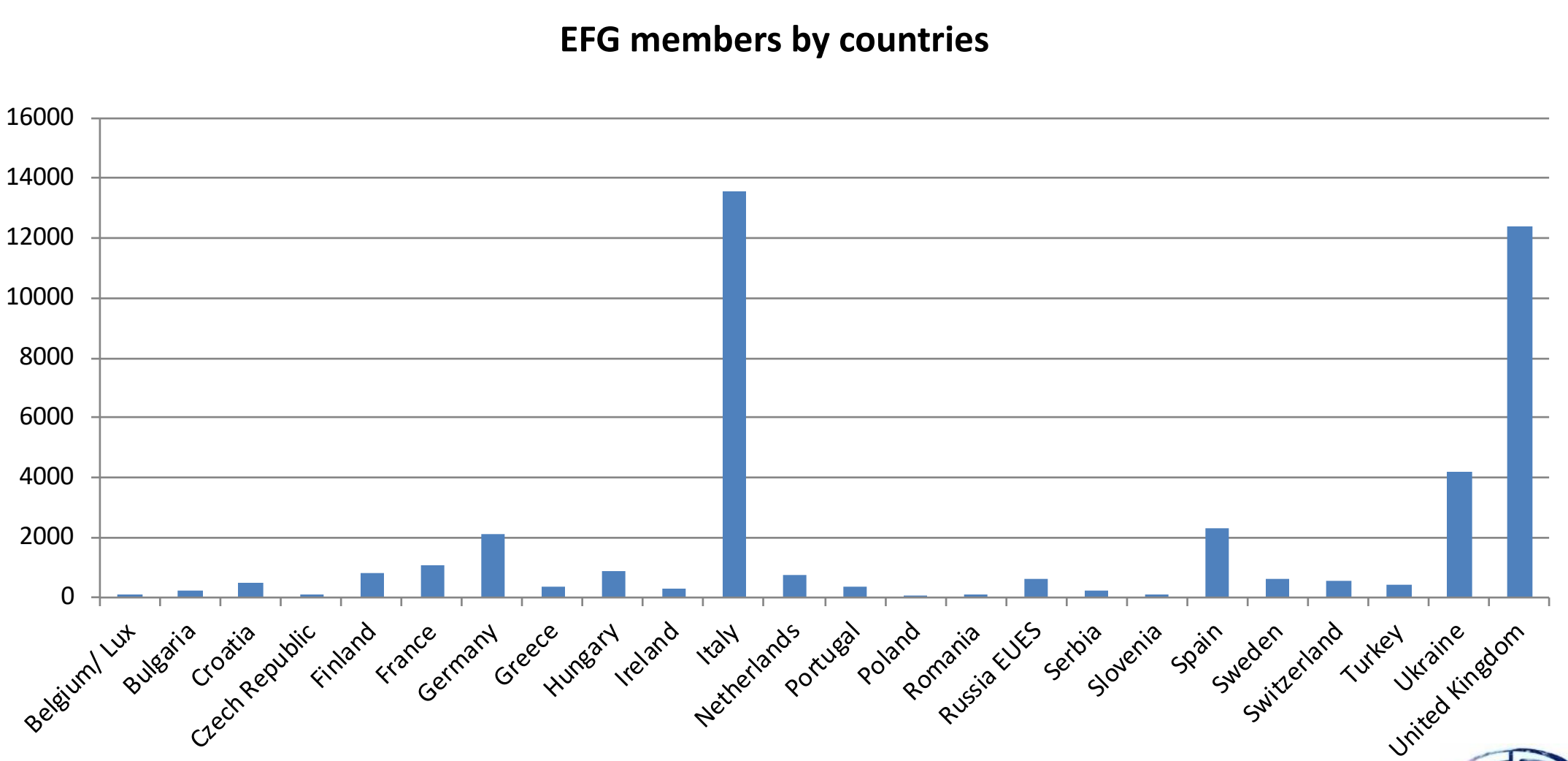
Developing and maintaining a strong EFG Member network



Source: EFG Office. Data provided through national association reports.

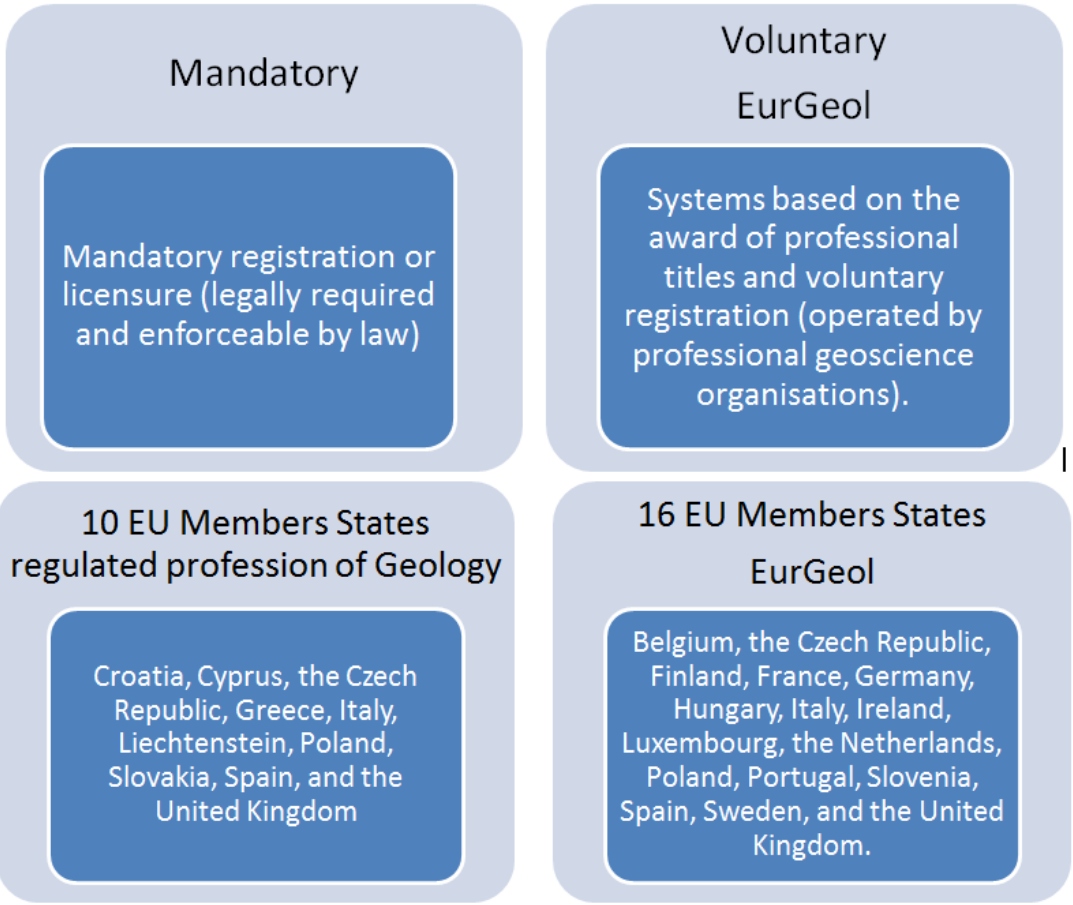
EFG Members

Developing and maintaining a strong EFG Member network



EFG Members

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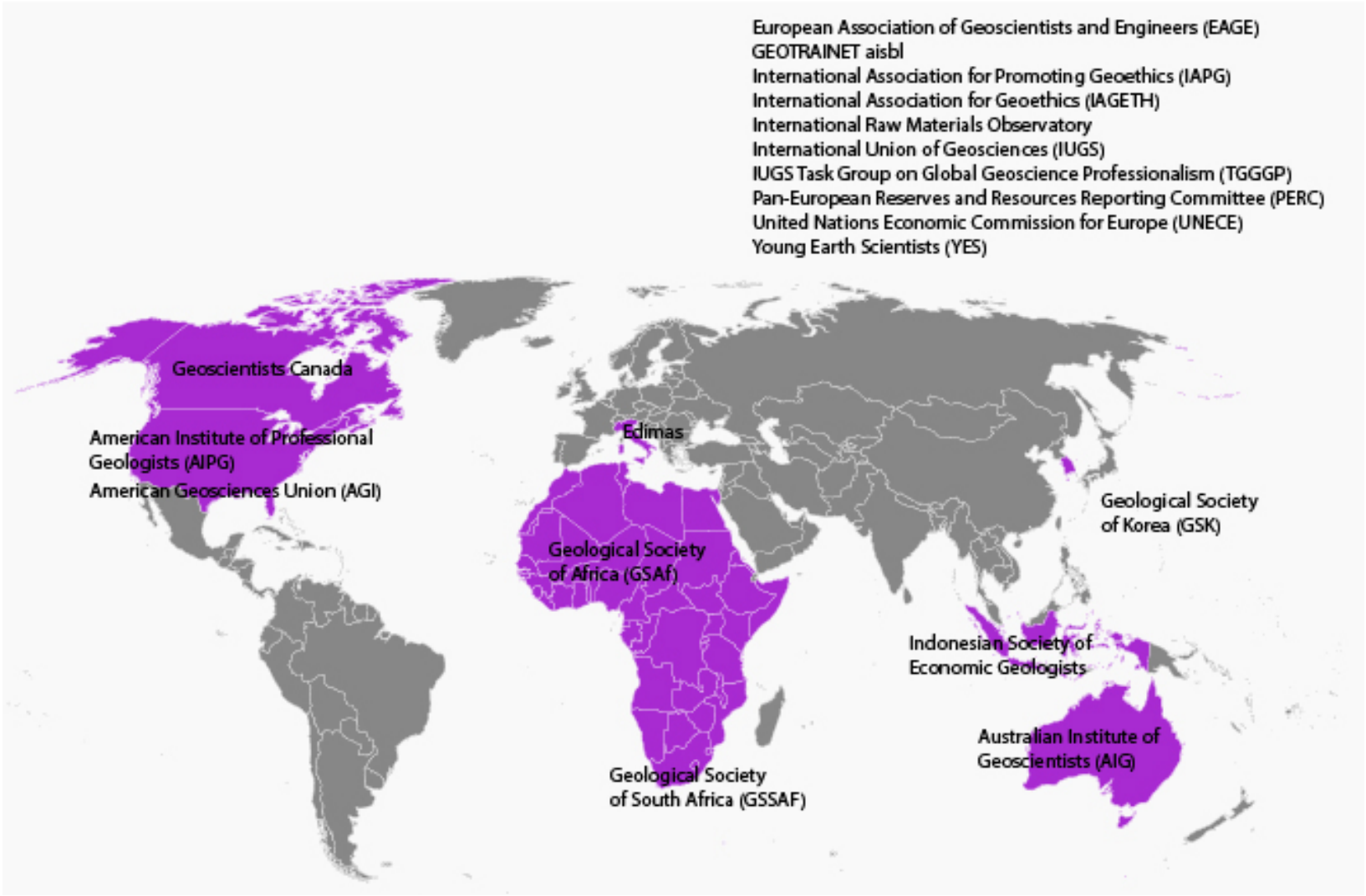
EFG Network

Participation in the global community and maintaining international networks

- Affiliate member of the International Union of Geosciences (IUGS)
- Founding member of:
  - IUGS Task Group on Global Geoscience Professionalism (TGGGP)
  - Pan-European Reserves and Resources Reporting Committee (PERC)
  - GEOTRAINET aisbl
  - International Raw Materials Observatory
- Memorandums of Understanding (MoU) with:
  - **American Geosciences Institute (AGI)**
  - European Association of Geoscientists and Engineers (EAGE)
  - Geological Society of Africa (GSAf)
  - **Indonesian Society of Economic Geologists**
  - International Association for Promoting Geoethics (IAPG)
  - International Association for Geoethics (IAGETH)
  - United Nations Framework Classification for Resources (UNECE)
  - Young Earth Scientists (YES)
- Associated partner of ERA-MIN

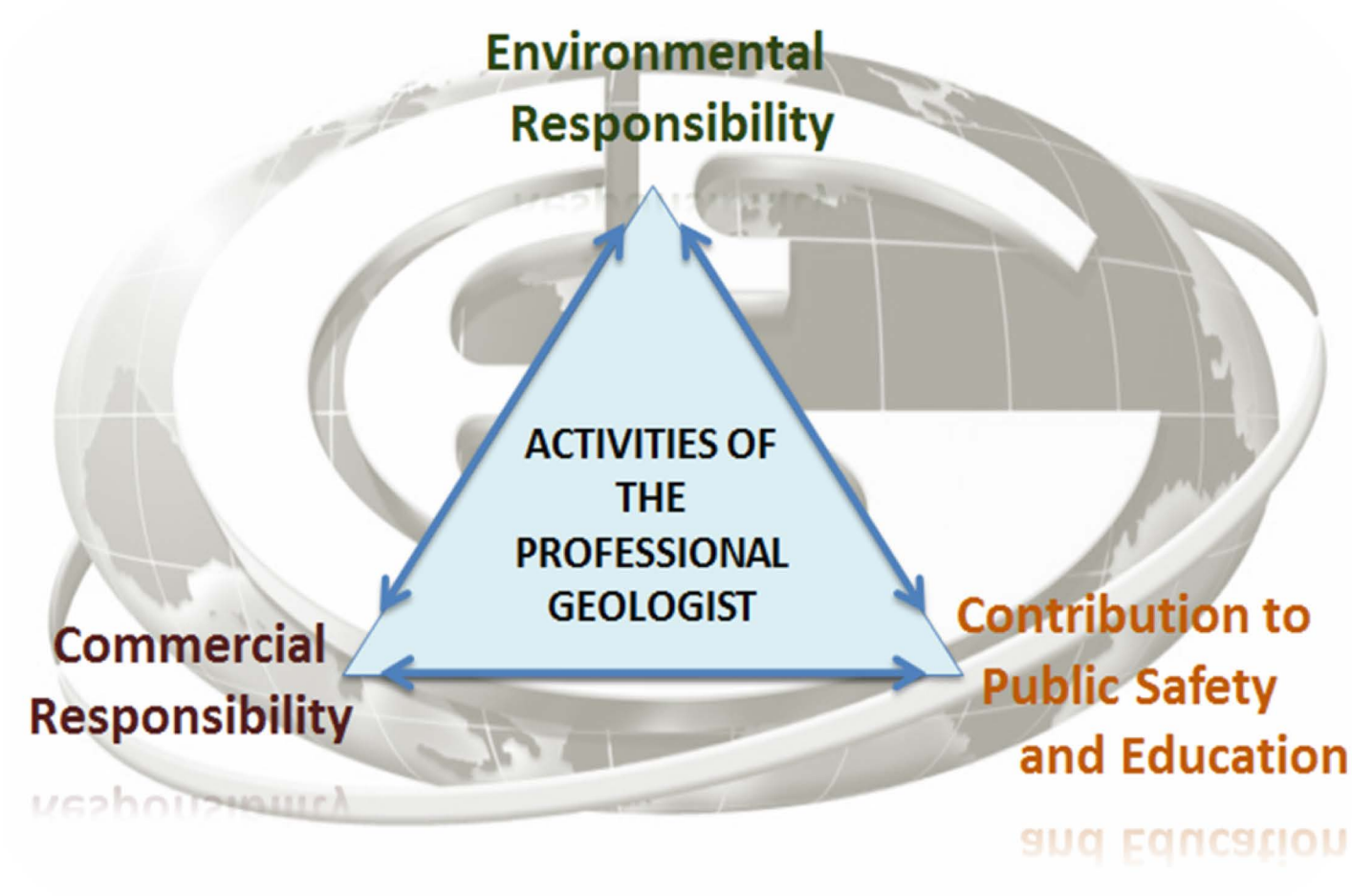
EFG Network

Participation in the global community and maintaining international networks



Professional expertise

Our vision



Professional expertise

Promotion of geoscience professional excellence

European Geologist professional title:

→ Enhancing the mobility of geoscience professionals and the recognition of professional expertise in Europe and abroad

EurGeol App:

→ A public directory of current EurGeol title holders, all guidelines to apply for the professional title and a networking tool for active title holders at https://eurgeoltitle.eu

International Mentoring Programme:

→ Creating an international network linking up experienced professionals with the next generation of geoscientists

Endorsed Training Programme:

→ Supporting Continuing Professional Development (CPD)

Training course endorsed by the European Federation of Geologists

Professional expertise

Promotion of geoscience professional excellence

- **The European Geologist title, EurGeol, held by a professional geologist means that the holder has achieved suitable academic training and a level of professional experience, skill and competence to perform tasks within their professional practice.**

- **EurGeol pillars:**
  - **Academic Qualification**
  - **Professional Experience**
  - **Code of Ethics**
  - **Continual Professional Development**



Professional expertise

Promotion of geoscience professional excellence

The Eurogeologist's requirements

- Recognised university degree or equivalent qualification;
- Not less than 9 years experience and training;
- Member of a professional National Associations which is member of the EFG;
- Support of two sponsors;
- Annual proof of continuous professional development;
- Following the EFG's regulations and Code of Ethics

Professional expertise

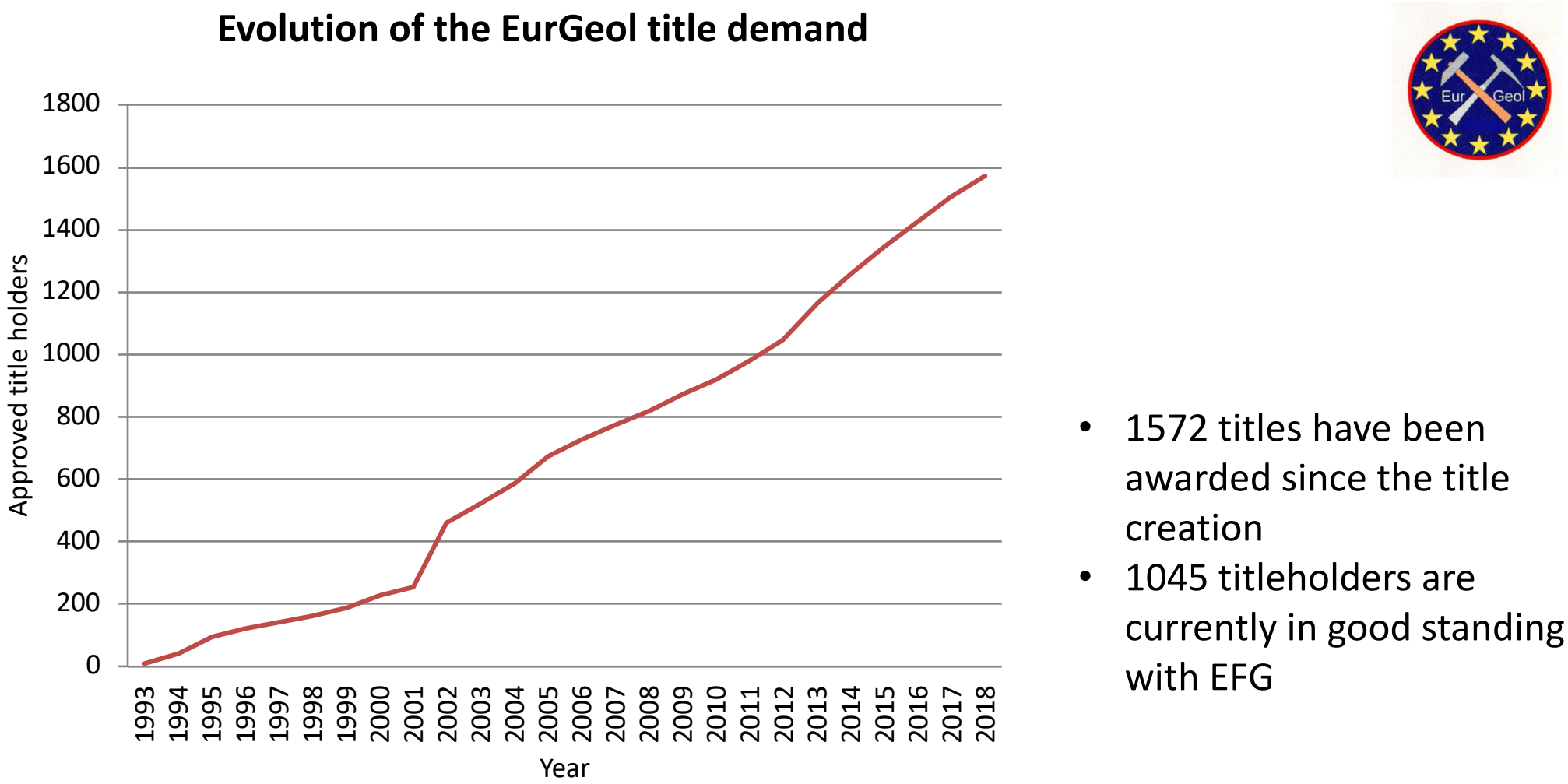
Promotion of geoscience professional excellence

Continuing Professional Development (CPD)

- Systematic **maintenance, improvement and broadening of knowledge and skill** and development of personal qualities necessary for the execution of professional, ethical and technical duties.
- Keep professionals up to date in their existing areas of expertise and address the danger of skills obsolescence and over-specialisation.
- Requirement to present **annual CPD records**.
- **EurGeol App** supports EurGeols in the completion of their CPD records.

Professional expertise

Promotion of geoscience professional excellence

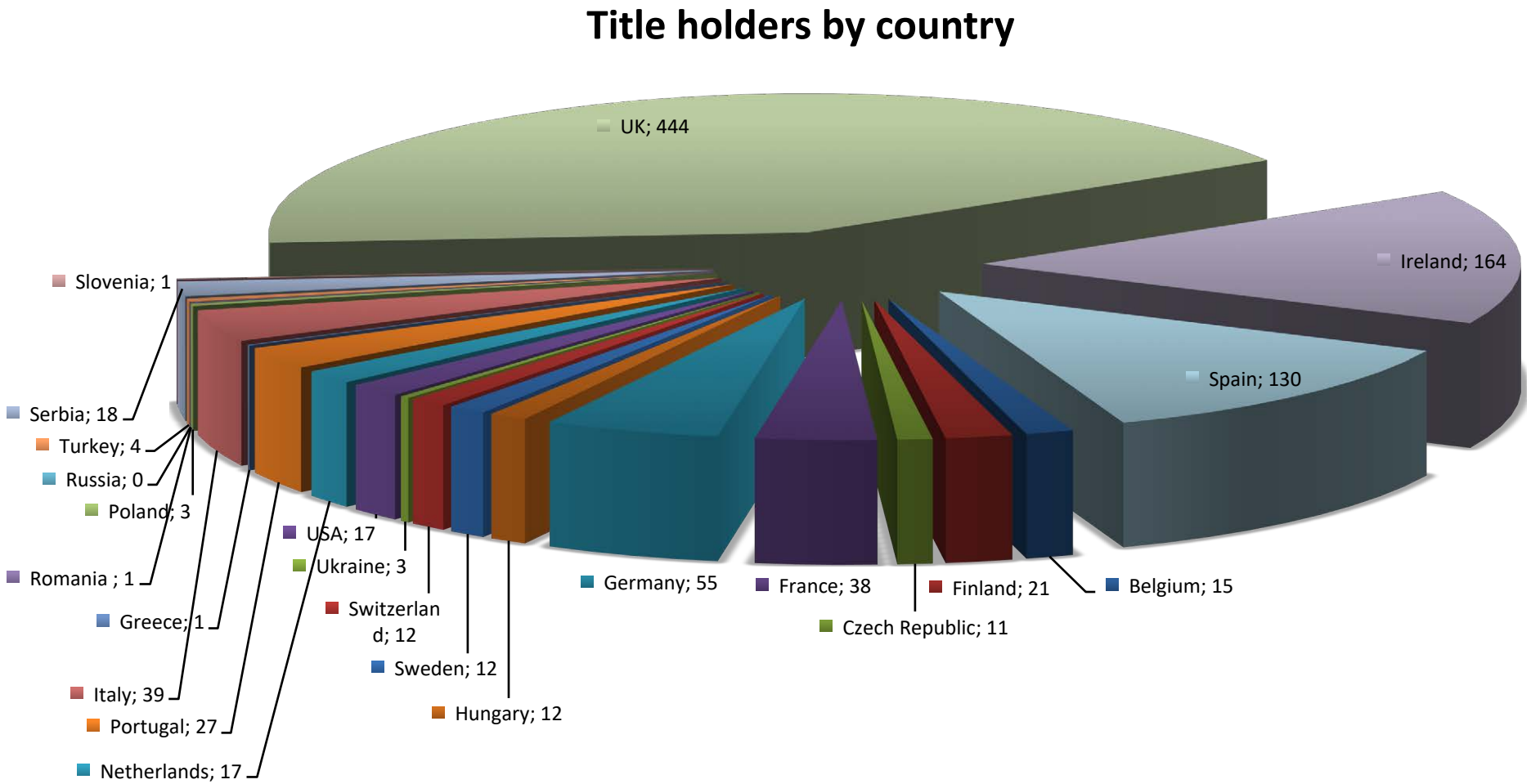


- 1572 titles have been awarded since the title creation
- 1045 titleholders are currently in good standing with EFG

Source: EFG Office. Data provided through national association reports.

Professional expertise

Promotion of geoscience professional excellence



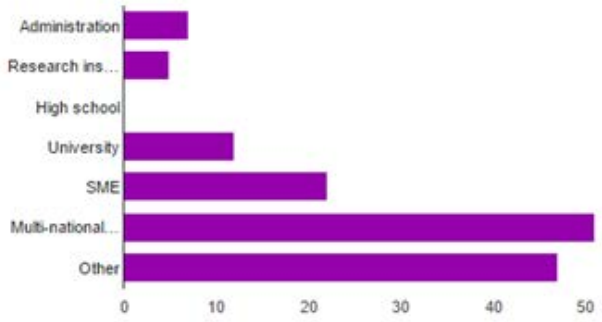
Professional expertise

Promotion of geoscience professional excellence

The Eurogeologist

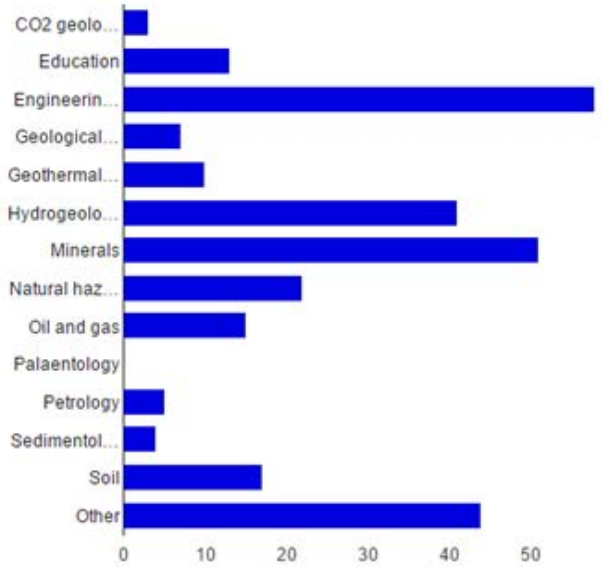


In which professional sector do you work?



Administration	7	5.4%
Research institute	5	3.9%
High school	0	0%
University	12	9.3%
SME	22	17.1%
Multi-national company	51	39.5%
Other	47	36.4%

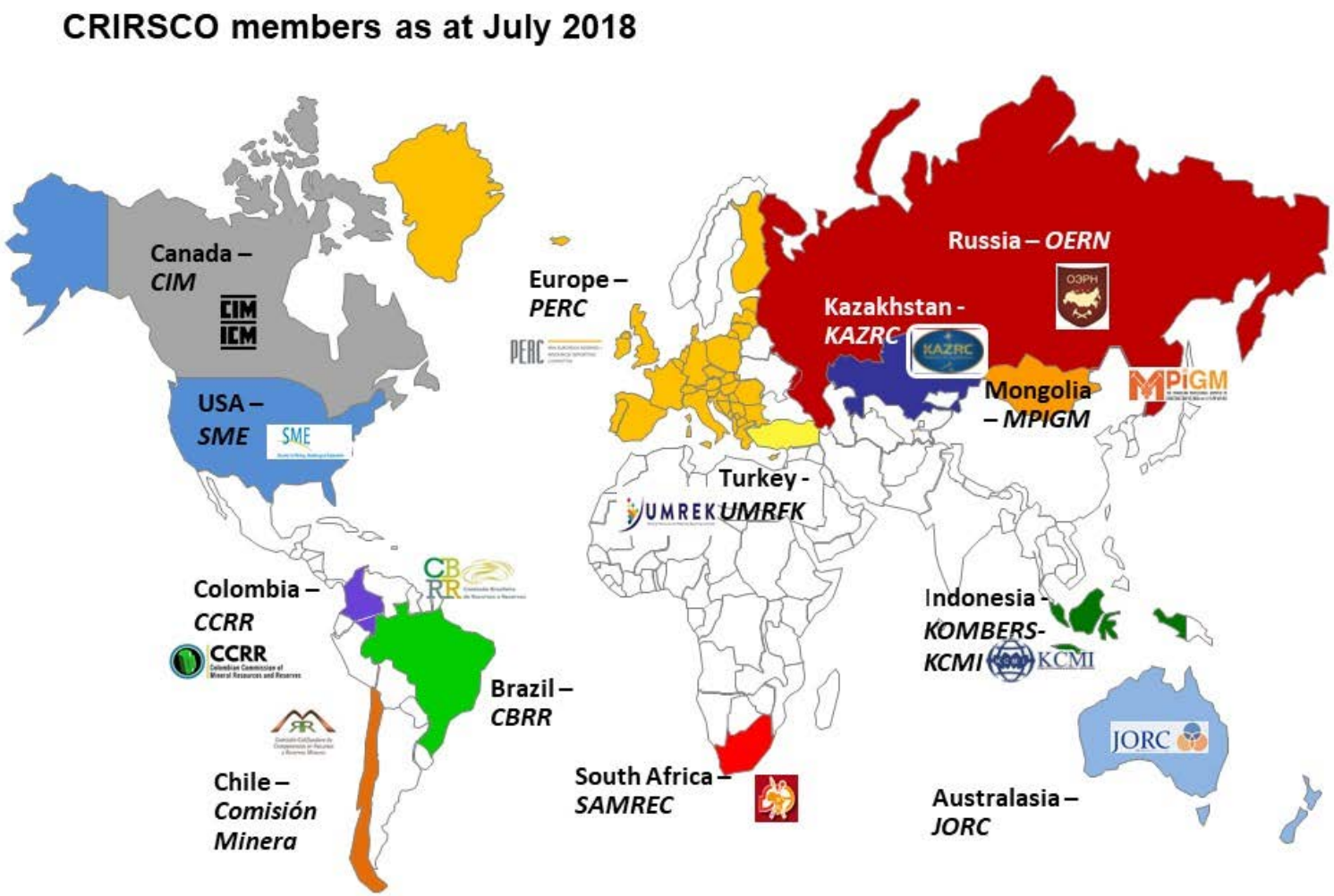
In which field of geology do you work?



CO2 geological storage	3	2.3%
Education	13	9.9%
Engineering geology	58	44.3%
Geological heritage	7	5.3%
Geothermal energy	10	7.6%
Hydrogeology	41	31.3%
Minerals	51	38.9%
Natural hazards	22	16.8%
Oil and gas	15	11.5%
Palaentology	0	0%
Petrology	5	3.8%
Sedimentology	4	3.1%
Soil	17	13%
Other	44	33.6%

Professional expertise

Promotion of geoscience professional excellence



- EuroGeologist's international recognition and EFG recognition as Recognized Professional Organisation (RPO)

Professional expertise

Promotion of geoscience professional excellence

EFG Qualified Expert (QE)



- EFG's **senior title** based on the European Geologist concept;
- Competency degree equivalent to the Competent Person as defined by CRIRSCO;
- More than **10 years of experience** in a certain field of geoscience;
- Certified by EFG's National Vetting Committees;
- To be formally voted during the next EFG Council meeting.

EFG Projects

Participation in EU and international funded projects

- In 2018, EFG has been involved in **11 European projects** within the Horizon 2020 program, H2020.
- We strengthen the bond with our members by involving them as Linked Third Parties, ensuring thus a **broad European coverage** of the projects.

KINDRA www.kindraproject.eu

MINATURA 2020 Mineral Deposits of Public Importance

LINEXMIN

FORAM TOWARDS A WORLD FORUM ON RAW MATERIALS

INTERMIN

MinLand

¡vamos!

CHPM2030

INFACT

MICA Mineral Intelligence Capacity Analysis

Intraw International Raw Materials Observatory

EFG Projects

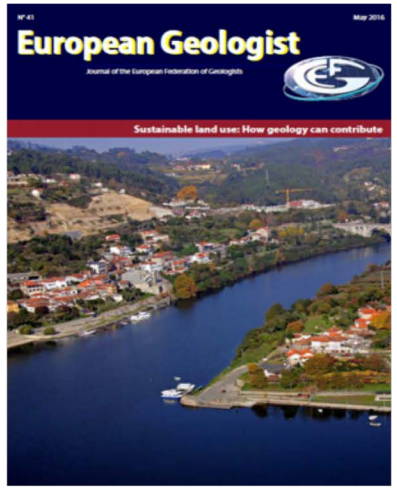
Participation in EU and international funded projects

- New projects starting in 2019: ROBOMINERS, CROWDTHERMAL, ENGIE and PROSKILL
- Contribution of EFG experts to other EU projects: ORAMA

EFG Communication

Accessible communication of geosciences and outreach

EFG Publications:









@EfgInfo

www.eurogeologists.eu

Panels of Experts

Provision of independent, reliable information on geoscientific issues

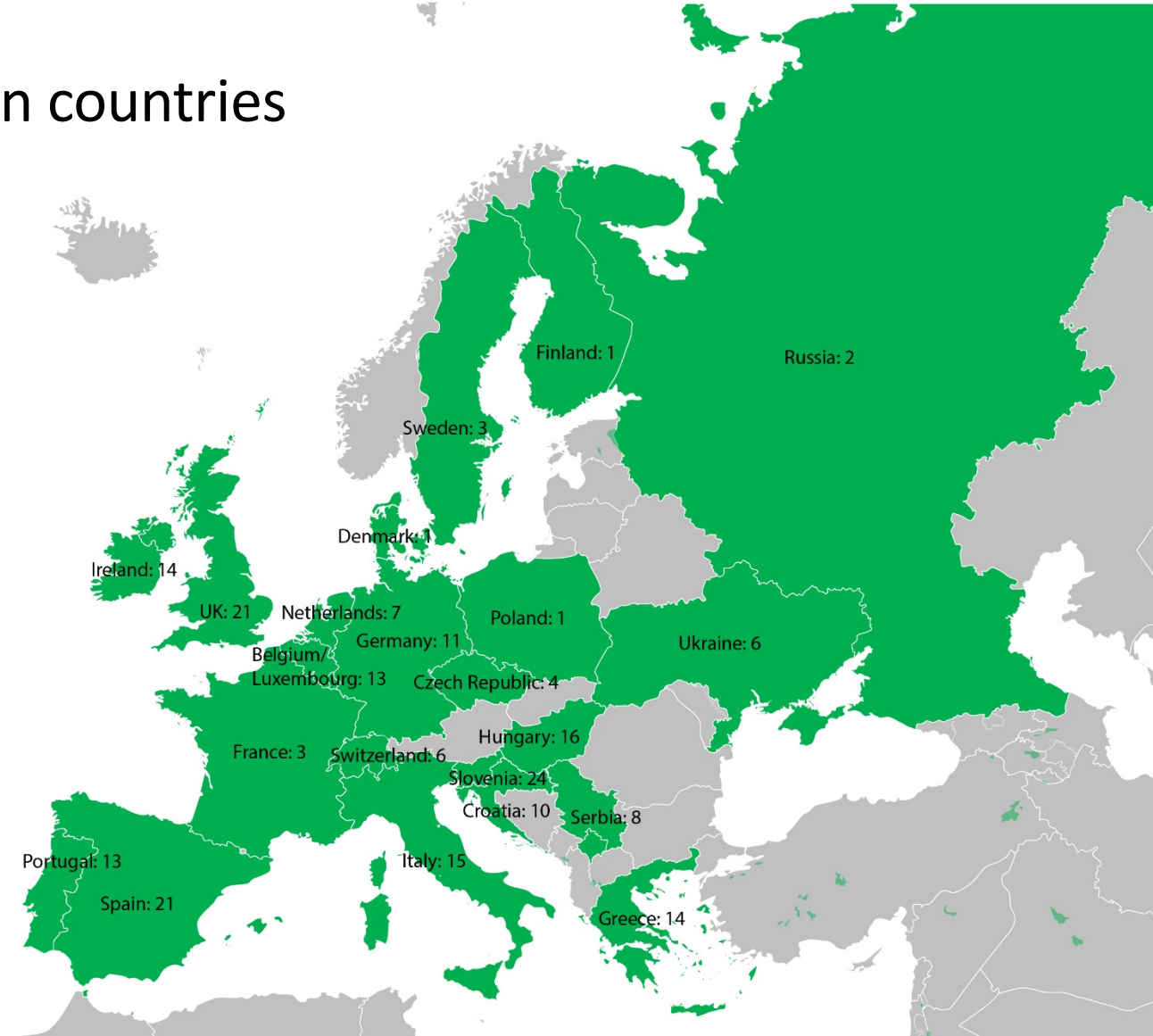
- EFG's Panels of Experts (PE): a platform encouraging the collaboration among professionals from different European countries working in the same field of geosciences.
- Providing **high quality advice** and information to the European institutions, international NGO's and global professional associations
- Emphasising the importance of geology to society.
- **10 panels of Experts**

CO2 Geological Storage
Education
Geoheritage
Geotechnics
Geothermal Energy
Hydrogeology
Natural Hazards
Minerals
Oil & Gas
Soil Protection

Panels of Experts

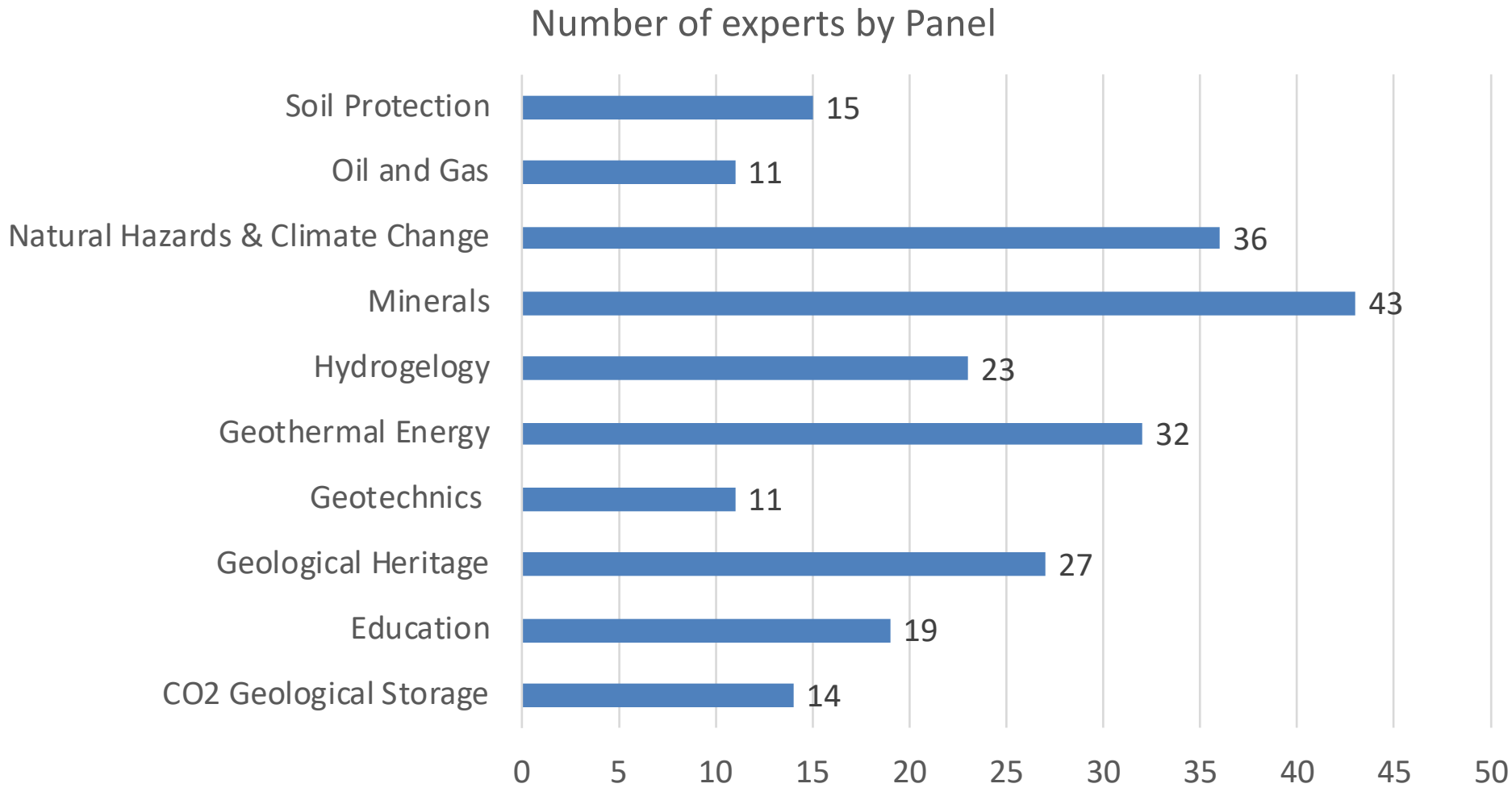
Provision of independent, reliable information on geoscientific issues

- 223 experts from 22 European countries



Panels of Experts

Provision of independent, reliable information on geoscientific issues



The Experts

Situation in the past:

- Learning from older colleagues or by experience,
- Every country, even every company had its own regulations,
- Different languages.



Today‘s Situation:

- Most countries adopt one of the CRIRSCO codes,
- All companies relying on international stock exchanges follow the codes,
- World-wide professional training based on common language
- And still learning from the older colleague.

The Experts



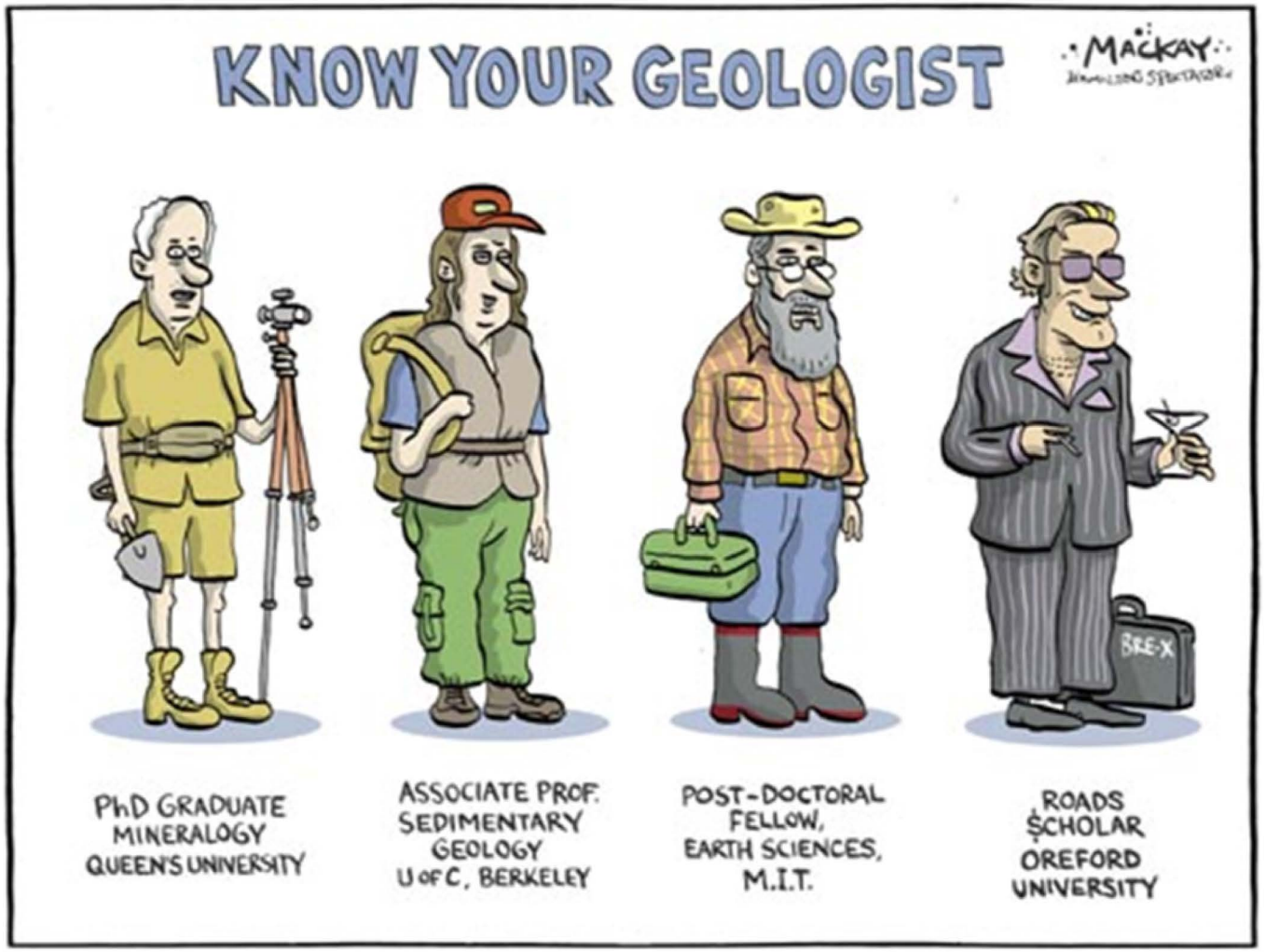
My Experience:

- Learning from older colleaguges is good, but
- Different people, different company traditions, different resource codes and different country regulations may lead to a Babylonian confusion and possibly wrong results.
- Using organisations like EFG & PERC combines personal learning with generally accepted rules.

Working world-wide in international cooperation

- All CPs, working under CRIRSCO, do speak a similar language,
- Use similar procedures and
- Share the same responsibility.

The Experts


KNOW YOUR GEOLOGIST
MACKAY
PhD GRADUATE
MINERALOGY
QUEEN'S UNIVERSITY
ASSOCIATE PROF.
SEDIMENTARY
GEOLOGY
U of C, BERKELEY
POST-DOCTORAL
FELLOW,
EARTH SCIENCES,
M.I.T.
ROADS
SCHOLAR
OREFORD
UNIVERSITY
BRE-X

A View into the Future

- Extending our membership base;
- Building a Europe-wide strong standing as geologists and geoscientists in public;
- Improve the social acceptance and public trust in our profession;
- Establishing an international training and education standard;
- Extending the EurGeol / Competent Person concept from minerals to the other geoscientific specializations.
- Further improve our cooperation with PERC, UNFC and other international institutions

Thank you,
Glückauf

tänan väga!

Contact:
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