



International Association of Hydrogeologists
**THE WORLDWIDE
GROUNDWATER
ORGANISATION**

International Association of Hydrogeologists

Teodóra Szócs

***International Association of Hydrogeologists
Mining and Geological Survey of Hungary***

KINDRA Final Conference

***– MAKING GROUNDWATER VISIBLE, ACCESSIBLE and TREASURED –
Brussels, 27 February 2018***





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International Association of Hydrogeologists

Original aims set out in the statutes of 1957, were defined as “uniting all scientists interested in hydrogeology; holding scientific meetings and publication of worthwhile scientific results”.

Revised statutes of 1975: “to promote cooperation between geologists and specialists in all disciplines who are interested in hydrogeological problems”

MISSION

***Furthering the understanding, wise use and protection
of groundwater resources throughout the world***



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History

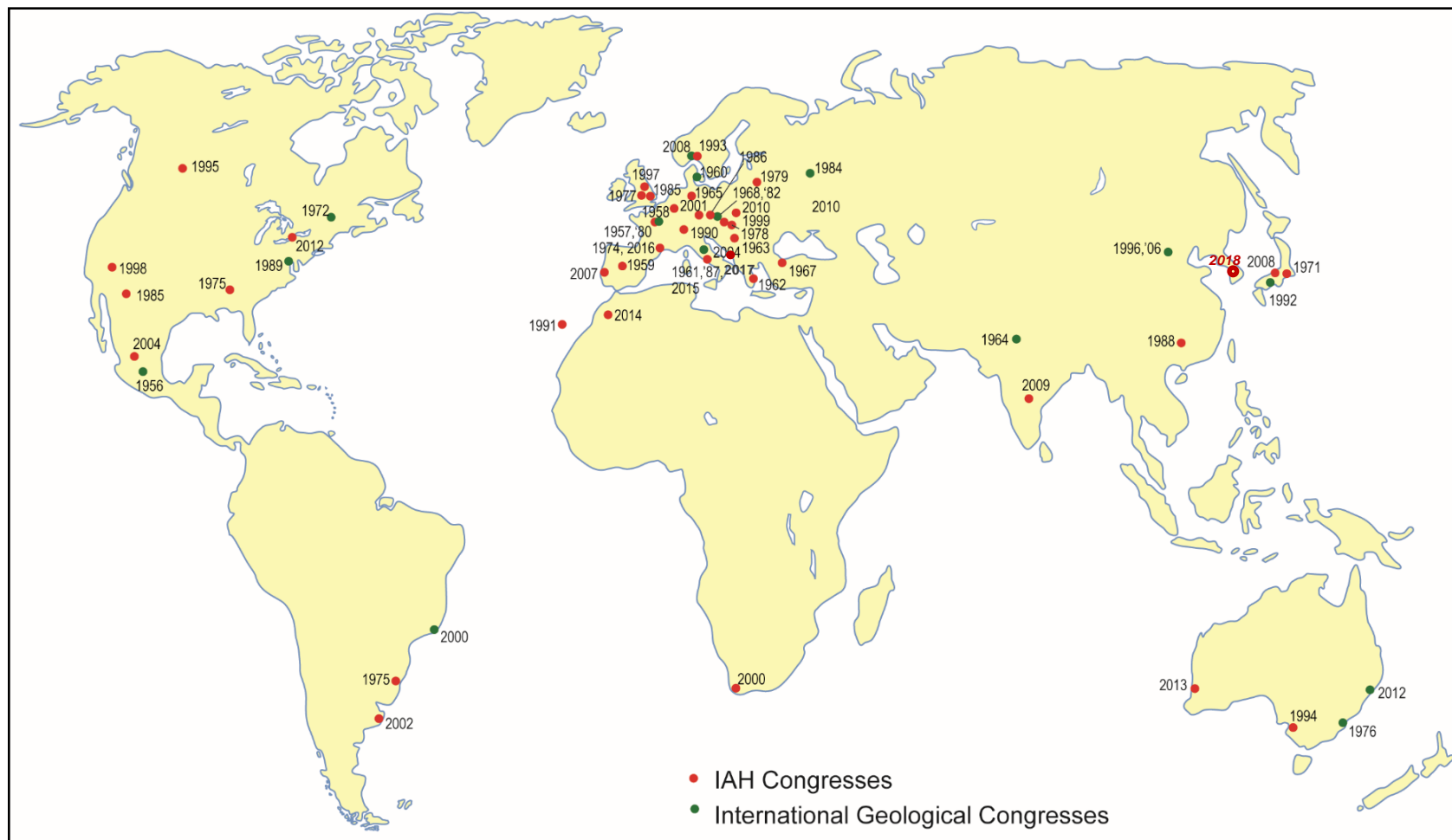
- founded in 1956 → more than 60 years ago (Paul Fourmarier, Belgium, 1st president)
- 2000 members by 1989
- now ~4100 members in 131 countries
- 44 Congresses – 45th in Korea, Daejeon this year
- 46 national chapters – more being established
- incorporated and charitable status in 2000

IAH is now a worldwide professional community, a scientific forum and publisher, an advocate for groundwater resources and an educational and charitable body



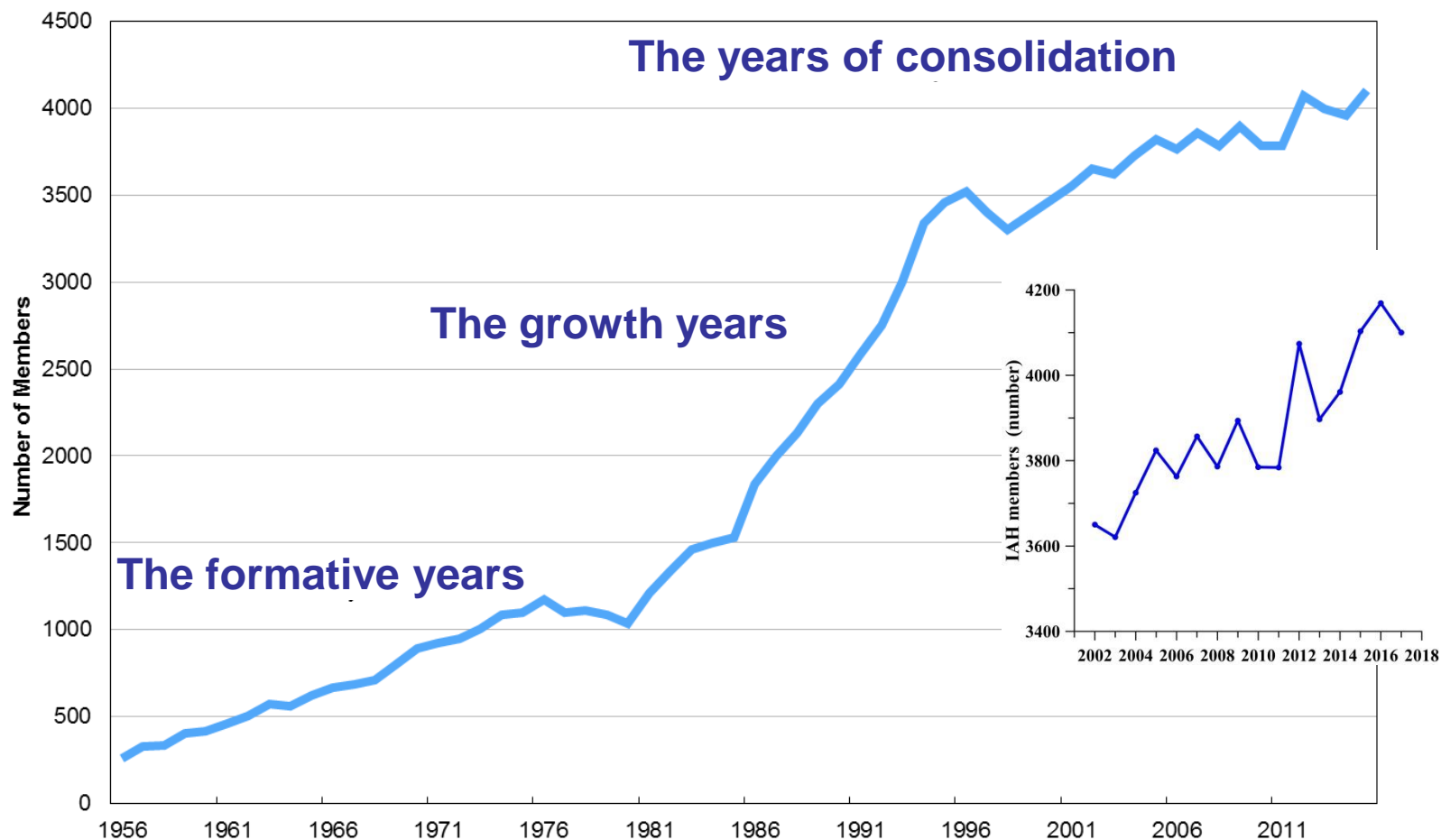
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IAH Congresses worldwide





Growth in IAH membership





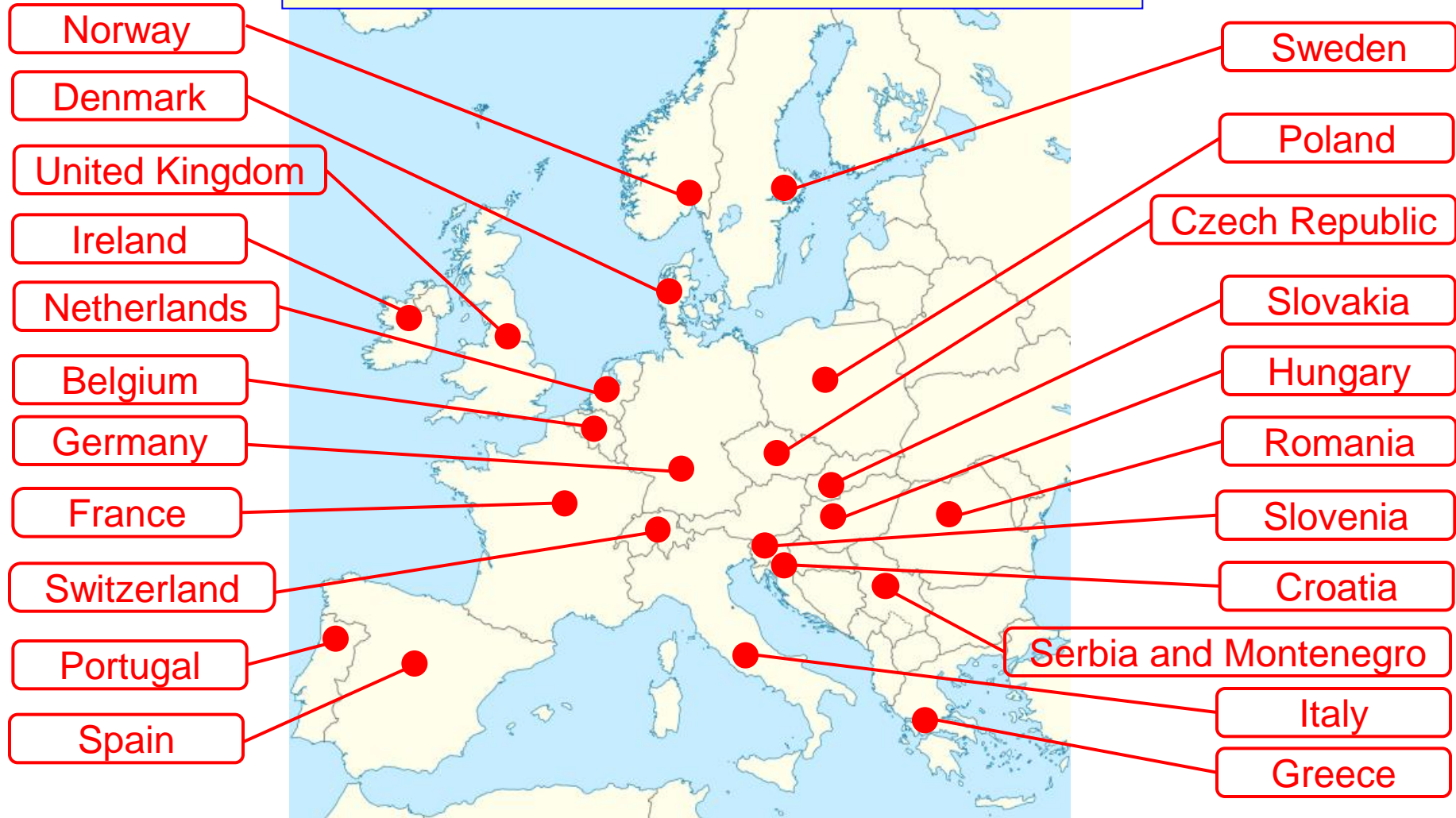
IAH membership by region

REGION	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Sub-Saharan Africa	165	167	159	206	202	204	200	247	231	233	267	265	281	277	265	
North Africa and the Middle East	75	77	86	84	78	90	90	74	99	97	101	94	109	117	117	
Asia	243	218	218	238	265	263	288	214	191	191	229	259	300	316	349	
Australasia and the Pacific	389	426	455	502	477	496	493	599	582	656	799	697	589	708	633	
Eastern Europe	242	217	235	338	351	365	355	145	125	122	124	141	136	140	135	
North America	754	720	697	704	695	685	669	672	654	632	659	574	602	583	671	
Latin America and the Caribbean	309	300	300	213	211	207	194	177	177	197	179	182	197	229	230	
Western and Central Europe	1473	1496	1573	1539	1485	1545	1496	1766	1726	1656	1716	1685	1747	1733	1769	
Total	3650	3621	3725	3824	3763	3857	3786	3894	3785	3784	4074	3897	3961	4103	4169	4100

– More than 40% in Europe –

Western and Central Europe

the largest region with 22 National Chapters





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IAH Priorities

- worldwide professional forum - supporting its **members** and the “groundwater community”
- high-level **advocacy** (EC, WWF, GEF) on importance and needs of groundwater
- **technology transfer**: IAH Burdon Groundwater Network supporting SDGs, especially in Africa
- **science** commissions and networks - many working in partnership with UNESCO-IHP and other agencies



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Worldwide NGO for groundwater

- wide range of groundwater specialists in our membership, increasingly multi-disciplinary but proud of our geological roots
- wide geographical spread (46 national chapters, 8 Regional VPs)

MEMBER SERVICES

- website
- international congresses and regional/specialist/national conferences (discounted registration fees)
- leading **scientific journal** (free to members) and **book publications** (discounted)



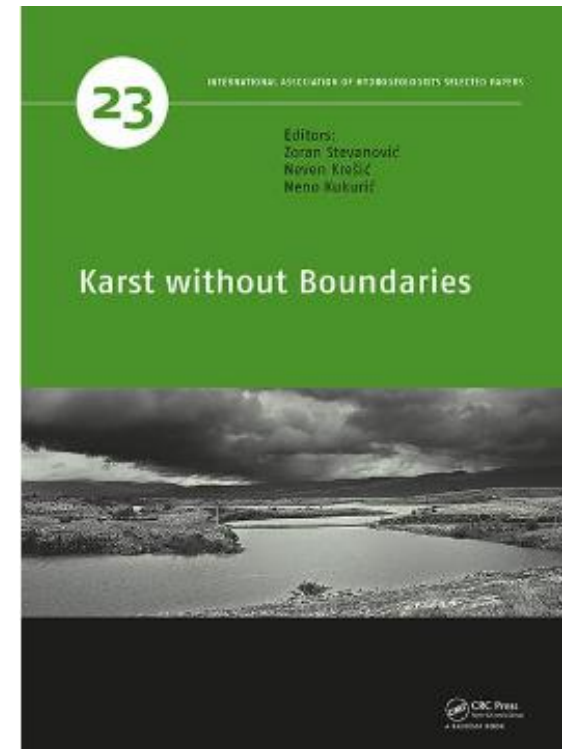
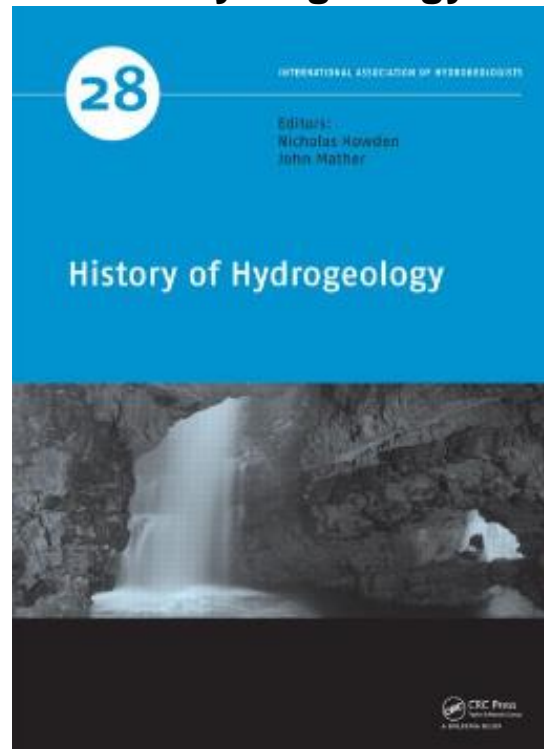
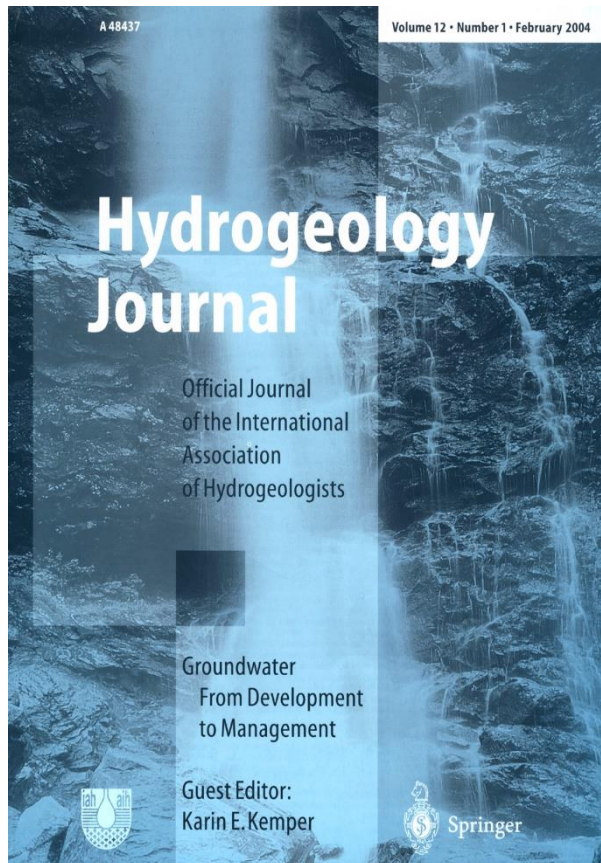
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Publications

Produced under the imprint of CRC Press in the Netherlands, part of the Taylor and Francis Group

**International Contributions
 to Hydrogeology**

Selected Papers





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Partnerships to improve the science and information base for better understanding of groundwater

- IUGS Affiliate, recognised since 1972 as the competent professional association for groundwater
- UNESCO-IHP partner since 1980s with collaboration of many IAH commissions and networks
- broadening cooperation with other UN bodies (UN Water, IAEA, FAO, UNICEF)
- WWC and GWP member



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IAH ten year Forward Look

Initiative launched in 2010 regarding the future of IAH with an action plan comprising five main elements.

- Education & Academic Development
- Internal Development of IAH
- Inform & Influence Global Policy
- Enhance Alliances with External Agencies
- Enhance Hydrogeological Science



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Activities established from this

- active IAH LinkedIn group with about 1000 members
- Early Career Hydrogeologists' Network - very active
- review of IAH Commissions
- new partnerships to support international development
IGRAC, African GWN, IAPG, GRIPP, EC CIS WG-GW
- various educational initiatives
- training course listings





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Scientific commissions and networks

<i>8 Commissions</i>	<i>6 Networks</i>
Karst Hydrogeology	Burdon Groundwater Network for International Development
Mineral & Thermal Waters	Early Career Hydrogeologists
Managing Aquifer Recharge	Coastal Aquifer Dynamics and Coastal Zone Management
Groundwater & Climate Change	Fractured Rock Hydrogeology
Groundwater Outreach	Groundwater and Ecosystems
Regional Groundwater Flow	Urban Groundwater
Groundwater and Energy	
Transboundary Aquifers	



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Publication of Strategic Overview Papers

- The UN-SDGs for 2030 – Essential Indicators for Groundwater
- Global Change and Groundwater
- Human Health & Groundwater
- Ecosystem Conservation & Groundwater
- Resilient Cities & Groundwater
- The Energy Sector & Groundwater
- Food Security & Groundwater



Key messages

Priority actions



Activities underway and planned

- Facebook groups, and Twitter for congresses and HJ
- developing educational resources on the website
- training course listings (further ones)
- student member drive
- mentoring scheme
- jobs forum?





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<https://iah.org/news/category/iah-news>



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KINDRA project final event

11 Jan 2018 | IAH News, Groundwater News

As KINDRA reaches its end, having achieved important milestones in the project's life, the Consortium proudly invites you to the Final Conference on 27th February 2018 in the Académie Royale de Belgique, Brussels. The main aim of the event is to widely communicate the results of the project, the European... [read more...](#)



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<https://iah.org/knowledge/learning-resources>



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Mentoring

One of IAH's principal aims is to inform and educate. We have assembled material in various forms, including guides, IAH's out-of-print books, newsletters and videos. Over time this content will grow to include relevant groundwater articles, links, workshops and more → **eg. KINDRA**

Links do not imply their formal endorsement by IAH, rather they are options and opportunities additional to IAH's own resources which the interested user can investigate.

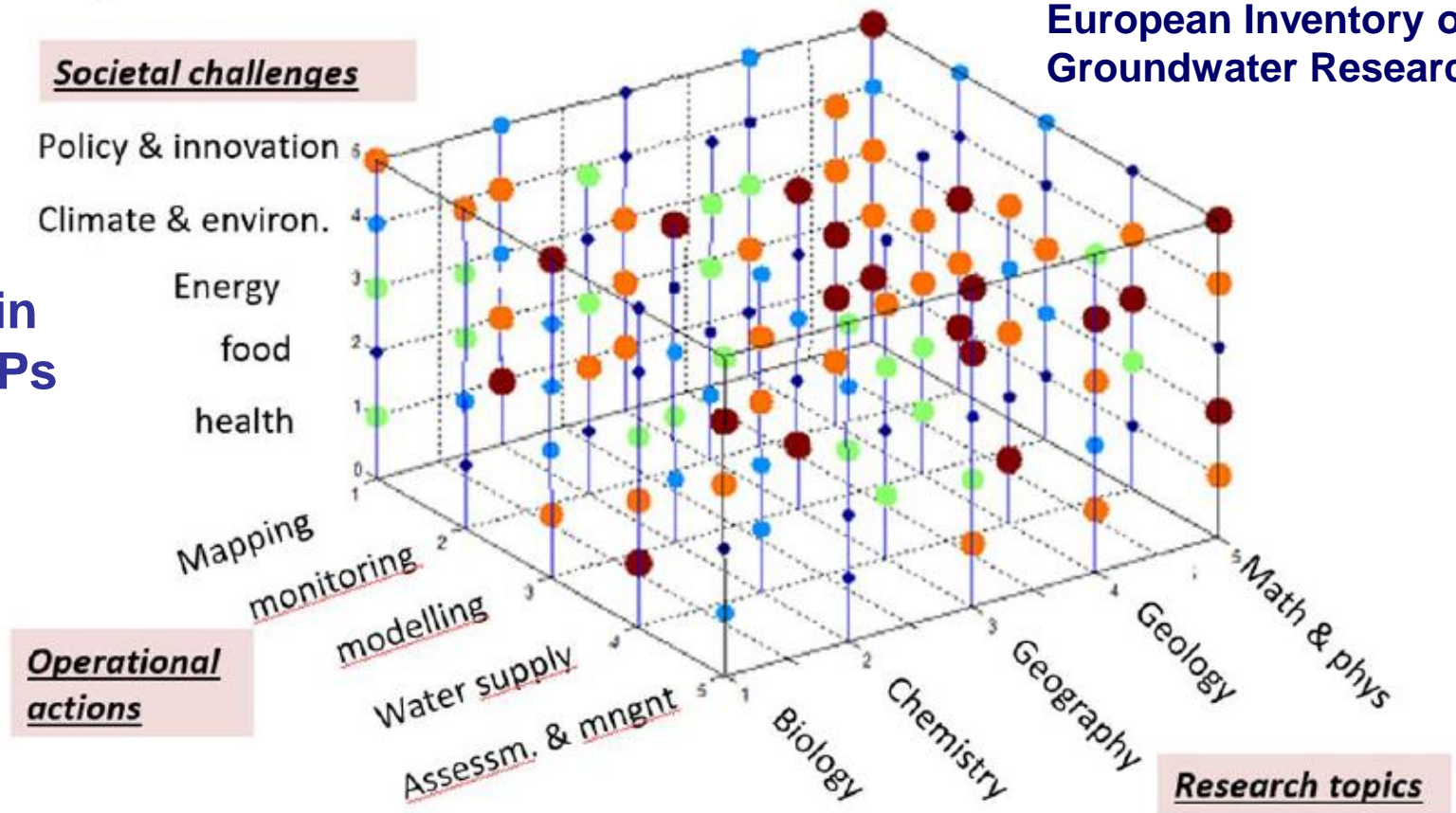
We are happy to consider your suggestions. Email brief details and relevant URL(s) to education@iah.org.



KINDRA: Hydrological Research Classification System

European Inventory of
 Groundwater Research

In line with
 the topics
 discussed in
 the IAH SOPs



Operational actions and Research topics covered by the
 IAH Commissions and Networks



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IAH – summary and needs

- a global organisation of more than 4100 members in partnership with a wide range of organisations, associations.
- members cover all sectors from industry, to academics, to water regulators and young scientists. Although IAH is an educational body, it is spreading not only scientific results but it is furthering for a wide audience the understanding, wise use and protection of groundwater resources. → KINDRA has same aims, so its inventory can be useful for the IAH members & partners
- KINDRA results can be useful for groundwater science, knowledge and policy. → IAH can be a potential driver (WEB, Newsletters, Congr., Comm.)
- a global organisation needs global, curated and validated data (big data), in order to model on a global scale. Data presented in literature must also be curated and validated.
- IAH members need access to analytical and literature databases of guaranteed quality developed in EU funded projects, or from US and other sources.



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Take home message for the KINDRA consortium

- 1: KINDRA must ensure that all data stored in the project database has been curated and validated: Once the project has ended, this will not be automatically done. In principle, the partner delivering the data is responsible for curation.**
- 2: KINDRA should seek solutions to always ensure free access to the project database, e.g. via a website portal, with all guarantees given for IP, referencing to sources etc.**
- 3: KINDRA should seek links with other databases and sign joint agreements for data sharing between projects.**



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Take home message for the Commission

- 1: As with so many databases developed with EU project funding, the responsibility for the data and maintenance of the database does not end with the termination of the project.**
- 2: Maintaining a database requires a long term commitment of resources to that activity.**
- 3: The Commission wants public access to data generated in EU projects and is now a requirement of all new projects. Therefore it would not be acceptable that a fee is charged for access to the data.**
- 4: The Commission is the only logical choice for providing the long term funding for maintaining the KINDRA database.**



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Thank you for your attention.

Check WEB site or contact secretariat: info@iah.org
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<http://iah.org/>