



Establishment of the Groundwater Working Group



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Resource Management Week 2019

RESOURCES FOR SUSTAINABLE DEVELOPMENT

10th Session of the Expert Group on Resource Management

29 April – 3 May 2019, Palais des Nations, Geneva



Members of the WG

Updated May 3rd, 2019



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- Marco Petitta, Italy, EFG/Sapienza Univ. Rome
- Narmina Garaveva, Switzerland, Geneva Business School
- Klaus Hinsby, Denmark, GEUS/EuroGeoSurvey
- Oleksii Netskvi, Ukraine, State Commission on Min. Res.
- Georgii Rudko, Ukraine, State Commission on Min. Res.
- Teodora Szocs, Hungary, IAH/ Mining & Geol. Survey
- Joerg Reichling, Germany, BGR
- Alexey Tudvachev, Russia Fed., St. Peterburg State Univ.
- Natalia Vinograd, Russian Fed., St. Peterburg State Univ.
- Malis Absametov, Kazakhstan, Inst. Hydrogeol. & Geoecol.
- Kevin Parks, Canada, Alberta Geological Survey
- Henk Coetzee, South Africa, Council for Geoscience
- Bob Hoogendoorn, Netherland, Deltares/EFG

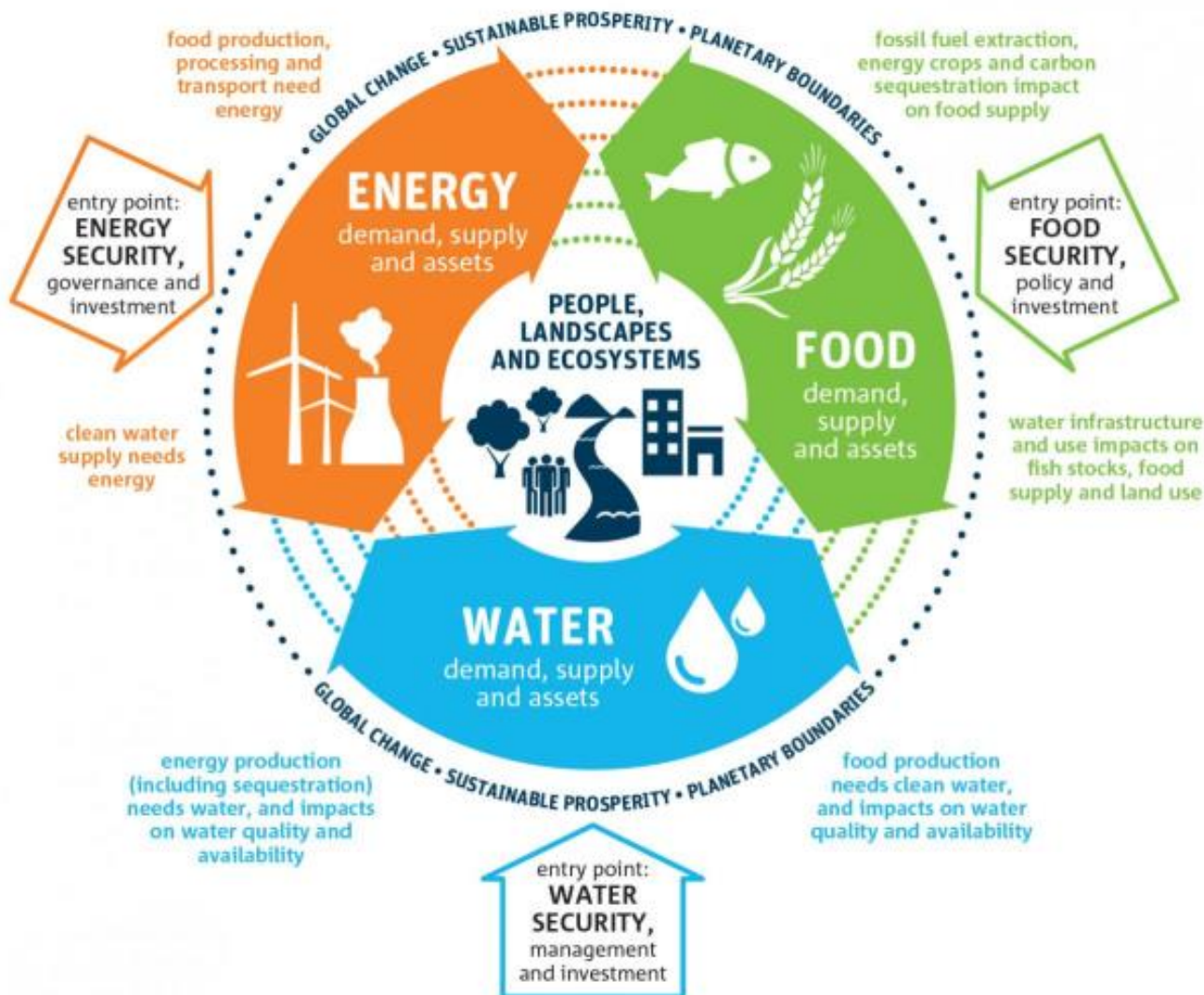
- If interested to join please contact marco.petitta@uniroma1.it

Is Groundwater relevant for UNFC?

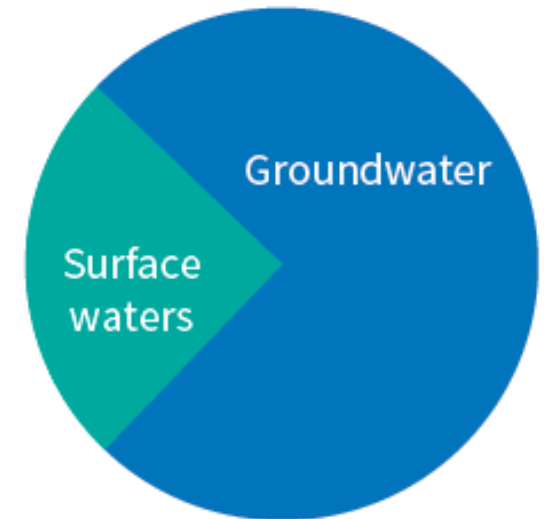
Energy/Food/Water Nexus



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Drinking water supply of European Union residents
SOURCE: Groundwater Protection in Europe, EC, 2008



• The food-energy-water nexus, with some of the links between each feature identified and explained. Source: [IWA, 2018](#). Sustainable Development: The Water-Energy-Food Nexus.

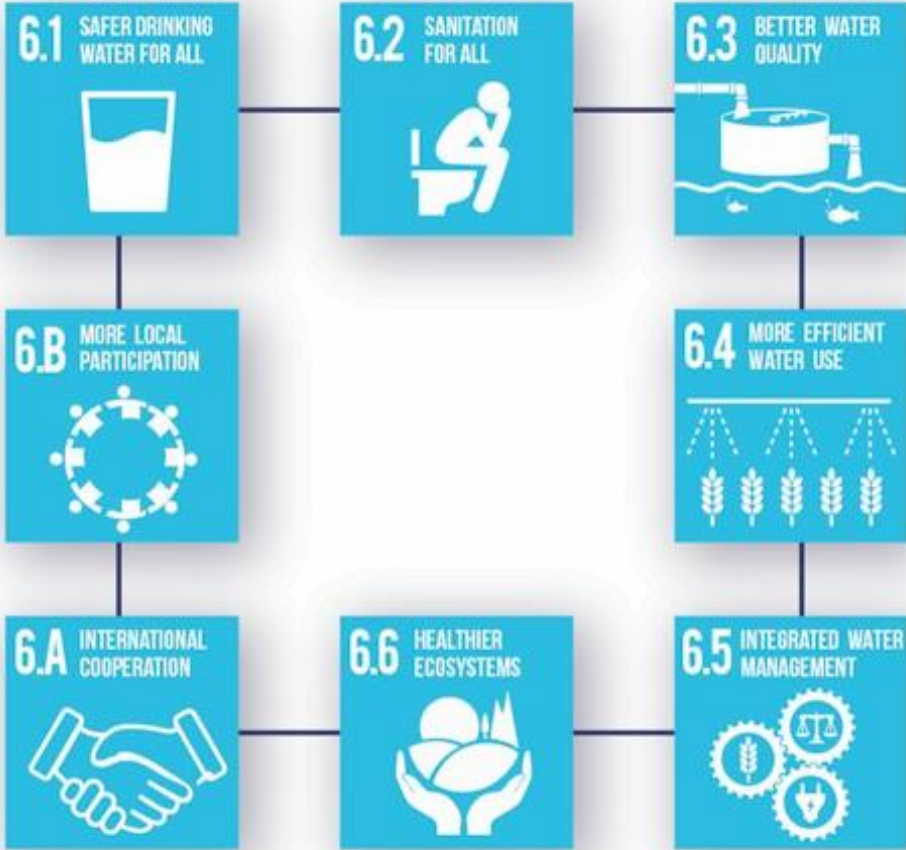
Is Groundwater relevant for UNFC & UNRMS?

SDG 6 – clean water and sanitation



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6 CLEAN WATER AND SANITATION



Relevance of Groundwater

Existing EU classification on GW Research & Knowledge



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Making Groundwater visible

Societal Challenges

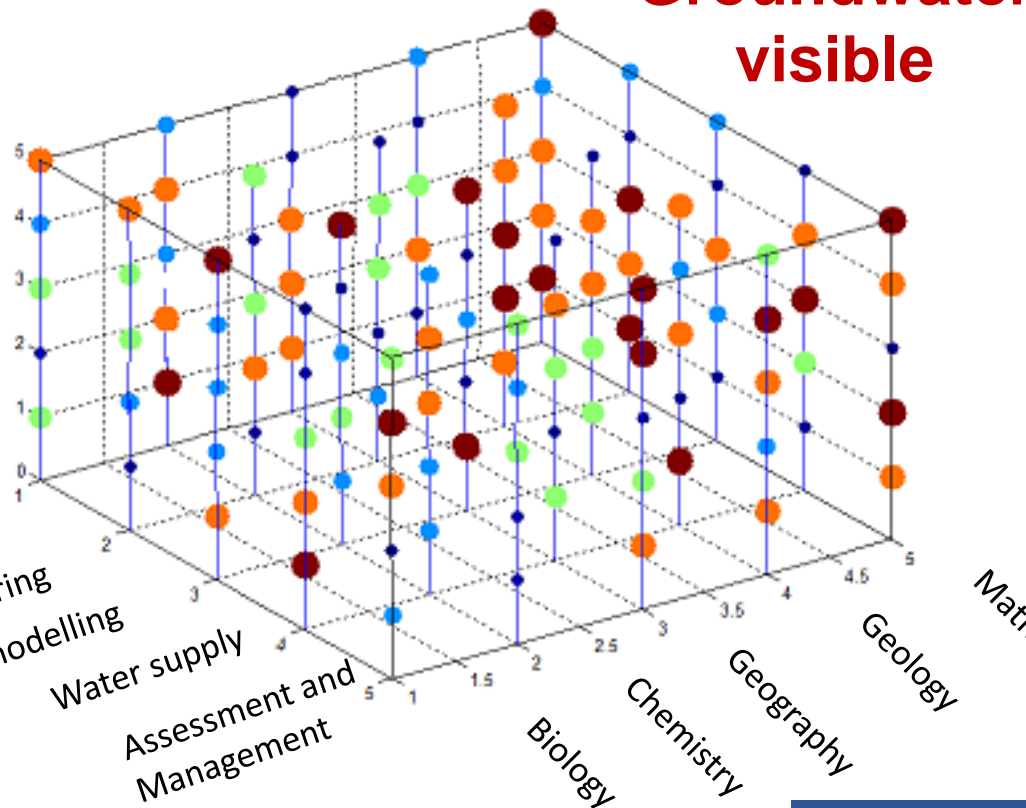
Policy & innovation

Climate & environ.

Energy

Food

Health



Operational Actions

Research Topics

EU-harmonised Hydrogeological Research Classification System

Inventory of Groundwater Information Sources at EU scale (with EFG members)

European Inventory of Groundwater Research and Innovation (EIGR)

Test and population of the Inventory EIGR by data collection and processing

Research gaps and corresponding suggestions for research agendas in line with WFD

EIGR as a public - access permanent, searchable service on ongoing hydrogeological research

<http://kindraproject.eu/eigr/>

Groundwater & Sustainability

Global Change Resilience & Environmental Issues



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SIDE PUBLICATIONS SERIES



Groundwater and Global Change: Trends, Opportunities and Challenges

Jac van der Gun

UNITED NATIONS WORLD WATER ASSESSMENT PROGRAMME



United Nations
Educational, Scientific and
Cultural Organization



World Water
Assessment Programme



UN WATER



United Nations
Educational, Scientific and
Cultural Organization



International
Hydrological
Programme



WWDR4

Groundwater is fundamental not only for humans, but for environmental and ecological issues too: **we deal with social and environmental sustainability**

Consequently, groundwater resources must be considered in a framework of resource management sustainability **(potential best fitting with UNRMS)**

Possible Actions and Synergies

With other international initiatives/associations



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- EuroGeoSurveys and GEOERA project



- European Federation of Geologists



FÉDÉRATION EUROPÉENNE DES GÉOLOGUES
EUROPEAN FEDERATION OF GEOLOGISTS
FEDERACIÓN EUROPEA DE GEÓLOGOS

- IAH, International Association of Hydrogeologists



- UNESCO – IHP



- Others...

To do list

This is NOT in priority order



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- Enlarge the WG membership: everyone is welcome!
- Information stage: Check existing classifications
- Prepare the Term of Reference for GW WG
- Test the consistency of UNFC for groundwater (renewable and not renewable resources, etc.)
- Write and submit the specific specifications (long term goal)
- Additional Challenges
 - Bridging with other classifications (Urgent!)
 - Application of UNFC – case studies
 - Develop contents list, plan and milestones for UNRMS
- Next e-meeting: first week of June 2019
- Abstract to be submitted for International Association of Hydrogeologist Congress in Malaga, September 2019



Thank you

Marco Petitta

Working Group Groundwater Chair

EFG: European Federation of Geologists

Sapienza University of Rome, Italy

marco.petitta@uniroma1.it



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