



Rural Water and Food Security
An action supported by the European Union



PI RURAL Groundwater Dialogue Seminar

ASPECTS OF SUSTAINABLE GROUNDWATER MANAGEMENT AND USE

2-DAY PI RURAL WEBINAR

17TH AND 19TH MAY 2022

TIME: 8:30 – 11:30 CET / 14:30 – 17:30 CNT

(Simultaneous translation English and Chinese by SSITrans)

Day 1 - Setting the Scene

Chair: Dr Jin Hai, MWR International Cooperation Centre (INTCE)

1 Opening (08:30 – 09:30 CET + 6:00 for China)

- 1.1 Welcome. Dr Jin Hai, MWR International Cooperation Centre (INTCE) (5 min)
- 1.2 Logistics. Mr Lars Skov Andersen. Coordinator of the Rural Water and Food Security Policy Dialogue Seminars and Webinars (10 min)
- 1.3 Opening Speech: United Nations World Water Development Report 2022. Dr Richard Connor, WWDR Editor in Chief, UNESCO (25 min)
- 1.4 Key Groundwater Challenges addressed by the 2021 Chinese Groundwater Management Regulation (地下水管理条例). Dr Yu Lili, General Institute of Water Resources and Hydropower Planning and Design (GIWP) (15 min)

2 Groundwater Quantity Management and Use (09:30 – 10:30 CET + 6 for China)

- 2.1 Droughts and Water Scarcity Issues with Groundwater and Food Security Considerations. Professor Em. Dr Luis Santos Pereira, Institute of Agronomy, University of Lisbon. (15 min)
- 2.2 Progress and measures of groundwater access management. Dr Mu Enlin, MWR Water Resources Management Centre (15 min)
- 2.3 A Path to Sustainability of Groundwater Overexploitation on the North China Plain. Professor (em.) Wolfgang Kinzelback, ETH Zürich and Mr. Lars Skov Andersen, ChinaRM (15 min)

- 2.4 Recommendations of the 2019 Water Saving by Groundwater Management Policy Dialogue Seminar. Mr Lars Skov Andersen, PI RURAL Policy Dialogue Coordinator (5 min)
- 2.5 Selection of 3 key issues for consideration as policy recommendations by voting. Mr Henrik Bregnhøj, Good Deed Consulting (10 min)

3 Groundwater Quality Management and Use (10:30 – 11:30 CET + 6 for China)

- 3.1 Global Aspects of Groundwater Quality: Importance, Methods, and New Initiatives. Dr Karen Villholth, Independent Consultant. (15 min)
- 3.2 European nitrate pollution, groundwater quality and measures in the Nitrates Directive¹. Mr Peter Kristensen, European Environment Agency (emeritus) (15 min)
- 3.3 Recommendations of the 2021 Water Quality Management Webinar. Mr Lars Skov Andersen, PI RURAL Policy Dialogue Coordinator (5 min).
- 3.4 Selection of 3 key issues for consideration as policy recommendations by voting. Mr Henrik Bregnhøj, Good Deed Consulting (5 min)
- 3.5 Q&A moderated by Bjørn Kaare Jensen, PI RURAL Manager, GEUS (20 min)

Day 2 - PI RURAL Results

Chair: Mr Bjørn Kaare Jensen, PI RURAL PI RURAL Manager, GEUS.

4 WP3 Report and Policy Recommendations: Protection and restoration of groundwater dependent eco-systems (GDEs) in karst areas & WP 4 Report: Integrated measures to protect groundwater quality against diffuse pollution (08:30 – 09:00 CET + 6 for China)

- 4.1 Groundwater status and eco-hydrological characteristics in chalk-limestone aquifer-stream system. Mr Bertel Nilsson, GEUS and Dr Chen Huawei, WRISD (15 min)
- 4.2 Groundwater Quality Monitoring and Data Management. Ms Lærke Thorling, GEUS. (15 min)

¹ 2021 Status Report on the Nitrates Directive: <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52021DC1000&from=EN>

5 WP 5 Report and Policy Recommendations: Socio-economic efficiency of water allocation and use for irrigated agriculture (09:00 – 10:15 CET + 6 for China)

- 5.1 Sustainable Irrigation Management. Dr Kiril Manevski and Dr Finn Plauborg, Aarhus University (15 min)
- 5.2 Socio-economic sustainability of irrigation investment. Dr. Yao Jingwei, Yellow River Institute of Hydrology Research (15 min)
- 5.3 Recommendations on Sustainability of Groundwater Use in Agriculture and simple hydro-economic model to support decision making. Professor Julio Berbel and Javier Martinez-Dalmau, University of Cordoba (20 min)
- 5.4 Q&A (10 min)

6 WP 7 Report and Policy Recommendations: Develop and adapt Managed Aquifer Recharge (MAR) Systems to restore severely depleted groundwater aquifers on the North China Plains (10:15 – 10:45 CET + 6 for China)

- 6.1 Managed Aquifer Recharge – risks and benefits. Dr Jens Aamand , GEUS and Dr Wang Weiping, University of Jinan (15 min)
- 6.2 Clarifying the Regulatory Requirements for Adaptation of Managed Aquifer Recharge as Groundwater Resource in China. Professor Yan Zheng (郑焰), Southern University of Science and Technology (15 min)

7 Discussion and selection of policy recommendations (10:45 – 11:30 CET + 6 for China)

- 7.1 Groundwater Management challenges in the 21st century. Discussion moderated by the Chair (20 min)
- 7.2 Selection of Groundwater Management issues for policy recommendations. Mr Lars Skov Andersen, ChinaRM (10 min)
- 7.3 Voting (5 min)
- 7.4 Q&A and closure by Mr Bjørn Kaare Jensen, PI RURAL Manager, GEUS (10 min)