









ISMAR 10

INTERNATIONAL SYMPOSIUM ON

MANAGED AQUIFER RECHARGE



Madrid (Spain) 2019 May 20-24th













Themes and topics

1. MAR AND INTEGRATED WATER RESOURCES MANAGEMENT

MAR & rural. MAR for rural and irrigation water supplies Potential of MAR in long-term/distance water diversion schemes Establishing strategic groundwater reserves

2. MAR AS A KEY CLIMATE CHANGE ADAPTATION MEASURE

Innovation in harvesting and storing flood water

Detention and infiltration systems

Mitigation of climate change adverse impacts by means of MAR

3. NEW REGIONAL/LOCAL CASE STUDIES

MAR in developing countries

4. MAR MAPPING

Advanced methodologies for the selection of aquifers/sites MAR maps methods & new MAR maps

5. MAR AND ECONOMIC ASPECTS

Quantification of benefits and costs of MAR

Circular economy and MAR (from cradle to cradle)

Financing MAR for water and food security

Water footprint from MAR activities. Green and blue waters

Public Procurement of MAR Innovative Solutions

6. MAR to MAR-k€t

MAR to complement groundwater demand management Industrial applications of MAR, agroindustry and mining Geothermal injection, MAR to source heat pumps...

7. MAR AND WATER REUSE

Water reclamation technologies for MAR Reclaimed water reuse via aquifers

8. SUSTAINABLE MAR TECHNICAL SOLUTIONS

Advances in design and construction criteria of MAR systems, BIM MAR Technical Solutions (SMARTS). Methods and strategies Alternative and innovative water recharge systems

Operations and maintenance of MAR

9. MAR AND MANAGEMENT OF CLOGGING

10. MAR & LEX

MAR worldwide regulations

Recharge policies, quality standards

Institutional innovation for MAR. Water banks, groundwater user groups...

Governance & Decision Support Systems (DSS)

11. MAR AND MONITORING

Water management and MAR innovative systems

IT applications

Normalization, standardization and interoperability advances

12. MAR AND MODELING

New developments and codes. Practical examples

Water quality interaction codes & hydro-economic modeling

13. MAR AND ECOSYSTEMS

Riparian restoration

Mitigating geological/geotechnical impacts using MAR, land subsidence...

14. MAR IN COASTAL AREAS AND ISLANDS

MAR for mitigating saltwater intrusion

MAR with desalinated water

15. MAR AND ENVIRONMENTAL IMPACTS/RISKS

Risk and impacts assessment. Specific indicator systems for MAR MAR activities impact evaluation assessment & Benchmarking

16. MAR WATER QUALITY & RELATED HYDROGEOCHEMISTRY ASPECTS

MAR for drinking water quality improvement

Techniques to break/recycle emergent compounds

17. MAR HEALTH ASPECTS

Removal and fate of microorganisms and organic compounds Fate of pathogens and pollutants of concern in MAR system Microbial ecology of MAR aquifer storage zones

18. URBAN MAR

Sustainable Urban Drainage systems (SUDS)

Rainwater/stormwater harvesting

19. R&D PROJECTS ON MAR

Innovation and integration in MAR

Recent and ongoing R&D projects (EC perspective)

Research gaps

20. RESEARCH AND EDUCATION ON MAR

Training for MAR operators & future water managers Dissemination strategies and examples



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