

#### **MARSOL**



Coordination & Contact:

64287 Darmstadt

Darmstadt Technical University

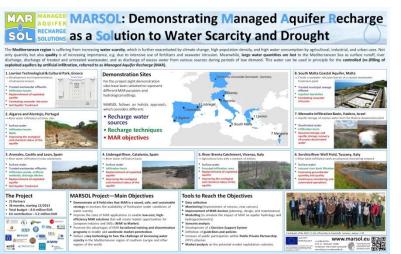
Institute of Applied Geosciences

### Demonstrating Managed Aquifer Recharge as a Solution to Water Scarcity and Drought

'The main objective of MARSOL is to demonstrate that MAR is a sound, safe, and sustainable strategy that can be applied with great confidence. With this, MARSOL aims to stimulate the use of reclaimed water and other alternative water sources in MAR and to optimize WRM through storage of excess water to be recovered in times of shortage or by influencing gradients'

Dec 1st 2013- Dec. 2016

Coordinator: TU Darmstadt (Germany)







intelligently? The joint project MARSOL is aiming to demonstrate that Managed Aquifer Recharge techniques are able to secure 'excess' water and store it in the soil. The EU is funding the MARSOL project with 5.2 million Euros over 3 years

It is estimated that due to climatic changes only about 50 percent of today's amount of

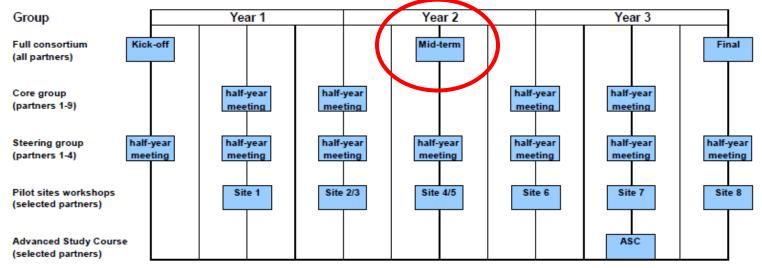
water will be available in the Mediterranean region by 2100 - while the population continues to grow. The lack of water will result in drought and crop losses

under the WATER-INNO-DEMO scheme.

## 2014 advances:

- Characterization of the economic backdrop for each demo site (8)
- Legal frame regarding MAR in the seven participating countries
- Workshop on MAR and modelling. Lisbon, Portugal (July 2014)
- Participation in Workshop on MAR Picenza, Italy (Oct. 2014)
- Arenales workshop MAR4FARM. Segovia Spain (Oct. 2014)
- Israel Workshop (Nov-Dec 2014)
- 9 planed workshops in three years: mid-term workshop  $\Xi$  European Symposium scope opened to non participants ("ESMAR") by mid2015
- Outcomes to be shared soon





# New Action Group / Working Group MAR(solutions) to MARk€t

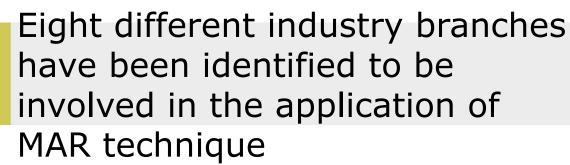


- Implementation posibilities of MAR technique into nine different branches of industry and blue print studies related to MAR.
- Managed Aquifer Recharge strategies & actions, AG128 of the European Innovation Partnership (EIP)



- Directly related to MARSOL project
- Leaders: LNEC (PT) –Tragsa (SP)
- 35 partners
- Involving Water Technology Platforms and IGRAC for Dissemination and Technology Transfer (D&TT) activities
- IAH MAR Comm. WG linked to the AG activities, with similar objectives, a broader international scope and longer in time

http://www.eip-water.eu/working-groups/mar-solutions-managed-aquifer-recharge-strategies-and-actions-ag128



- 1.Agro-industry
- 2. Water supply companies
- 3. Waste water treatment plants
- 4. Desalinations companies
- **5.**Bottled companies
- **6.**Golf courses
- 7. Public Administration branches
- 8. SPAs and balnearies



# Involved industry in MARSOL demo-sites & apart

- ${f 1}$  Agro-industry. Arenales (SP): Direct linkage between MAR water and high quality products.
- 2. Water supply companies: Athens. Greece, Labrion (Greece) and Algarve (Portugal)
- 3. Waste water treatment plants: Llobregat, Barcelona, Spain, Labrion (Greece) and Malta South
- 4. Desalinations companies: Menashe (Israel) and Malta South.
- **5.** Bottled companies. Working on currently on the food industry
- 6. Golf courses. Relation with MAR not clear within Europe yet
- 7. Public Administration branches. All demo-sites
- 8. SPAs and balnearies. Working on currently
- 9. Hotels and tourist facilities (Market uptakes). Connection with demowarte and Demeaumed projects. Posible pilots in Catalonia and Balearic islands

To participate in the Mar to MARK€t Working Group (IAH MAR Com),

please contact: <a href="mailto:efernan6@tragsa.es">efernan6@tragsa.es</a>; <a href="mailto:tleitao@lnec.pt">tleitao@lnec.pt</a>



