

**ADEME**

Agence de l'Environnement  
et de la Maîtrise de l'Energie

**Club ADEME  
International**



**Intervention time**  
2014 - 2019



**Total cost**  
630 k€



**Engaged workforce**  
1 chef de projet  
SIG, 1 Expert SIG,  
développeurs et  
intégrateur SIG, 1  
formateur SIG, 1  
géomaticien + des  
brigades d'opérateurs  
terrain pour le levé des  
réseaux à l'échelle du  
Grand Tunis

### Thematic



### Prestations provided

Services  
Ingénierie/BE

**altereo**



الدّيوات الوطني للتطهير  
OFFICE NATIONAL DE L'ASSAINISSEMENT

### National Sanitation Office (ONAS)

## Setting up a sewer network GIS for the Greater Tunis area

Through this project, ONAS's objective is to deploy a GIS in coordination with the operational information system for its business activities on the Grand Tunis area: 7 million inhabitants, 1,910,000 customers, 176 communes, 16,900 km of sewer networks, 119 treatment plants, 788 pumping stations, 263 Mm<sup>3</sup> of waste water.

Among ONAS's business activities are geolocation of clients, operating sanitation infrastructure, management of water quality and re-use, control of industrial waste, network maintenance, studies and projects and related activities in the social, economic and statistical domains.

To meet such requirements and scale, Altereo implements a Web-based geographic information system with an N-tier architecture.

### Foreign partners



Géomatique Tunisie  
(sous-traitant)

## Post-realization results

- Construction of the GIS project and the data model
- Supplying information for this model through continuous updates and upgrades through the GIS application.
- Deeper knowledge base on network and network behaviour
- Pedagogic and participative approach for Technical Assistance for an advanced level GIS-Sanitation project.

ONAS now has an operational Web-based GIS shared by all departments with a geolocalised and updated database of all Grand Tunis sanitation assets. The GIS is interfaced with other ONAS IT systems.

## Environmental impact



The implementation of the sewer network GIS for the Grand Tunis Area should significantly improve the waste water public service: drainage and treatment, quality of outflows to the natural environment, prevention of incidents such as obstructions and overflows which cause nuisance and pollution.



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With more than 130 members, the Club ADEME International assists the SMEs in its network in the development of innovative projects and international partnerships. The objective is to participate in the dissemination of French knowledge, by supporting the private and public sector in the ecological and energy transition sector in order to meet global environmental and climate challenges.

More information : [www.clubinternational.ademe.fr](http://www.clubinternational.ademe.fr)

