

# Real-Time Mapping of the Waterways Network

Leonardo Franchi (Italy)

**Key words:** Engineering survey; GNSS/GPS; Land management; GIS, Underground Services

## SUMMARY

The technological networks can be water, sewage, gas, electric, telephone, electronic, industrial plants, and fire protection. An essential aspect for the management and maintenance programming and intervention development is an in-depth knowledge of their technological networks. This can be achieved through the proper cataloging and survey of the works present

and distributed in the territory and by digitally mapping these networks. GeoServizi srls was born in 2018, from the initiative of three professionals for years engaged in the application of new technologies and IT methodologies in the field of architecture and topography.

The goal of Geoservizi srl is to provide administrations, planners, information and territorial managers, an appropriate support for the collection of these information, through the georeferenced mapping services of technological networks, the territorial knowledge of works

and plants, the direct topographic and GPS survey, and the reproduction of the territorial data acquired on a GIS platform that can be checked and updated in the future and in real time, through the use of dedicated apps and tablets directly on-site.

---

Real-Time Mapping of the Waterways Network (10491)  
Leonardo Franchi (Italy)

FIG Working Week 2020  
Smart surveyors for land and water management  
Amsterdam, the Netherlands, 10–14 May 2020