

Real-Time Mapping of the Waterways Network

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Key words: Cartography; Engineering survey; GNSS/GPS; Land management; Young surveyor; GIS, Underground Services

SUMMARY

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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. The idea 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 this professionals is to provide administrations, planners, information and territorial managers, an appropriate support for the collection of these information, through the georeferenced

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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.

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