INSTITUTO TECNOLÓGICO DE GALICIA

Researching:

Water





Who We Are

Instituto Tecnológico de Galicia | ITG

TECHNOLOGY CENTRE located in Galicia, Spain

[No. 115 Spanish Ministry of Economy & Competitiveness Register]

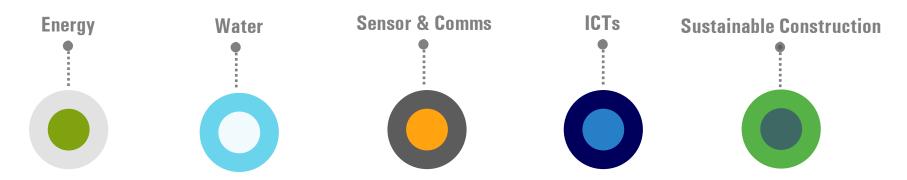
PRIVATE NON-PROFIT FOUNDATION set up in 1991



BOARD OF TRUSTEES: Architects, Civil Engineers and Industrial Engineers Galician Associations, Mining Engineers' Assoc., Galician Agronomic Engineers' Council, Naval and Oceanic Engineers' Assoc.; Galician Businessmen Confederation, and Universities of A Coruña, Vigo and Santiago de Compostela

Certification in UNE-EN ISO 9001standard (Quality Management System) and in UNE 166002 standard (R&D&I management system | CEN/TS 16555-1:2013)

At ITG we are organised in **5 INTERCONNECTED KNOWLEDGE AREAS**:



Research & Development Activities on Water

Drinking and Sanitation Water Networks

- Mathematical modelling and calibration of water distribution piping systems for drinking and sanitation water netwoks analysis, through SWMM and EPANET, specific hydraulic modelling softwares.
- Data capture, data treatment and visualization of drinking and sanitation water networks results.
- Water audits.
- Detection of water leaks for drinking water networks.

Water Management, Urban Planning & Citizens

- Urban planning and drinking water management integration.
- Urban planning and sanitation water management integration.
- Analysis of drinking water availability; medium and long-term perspective. Planning and improvement studies of hydraulic systems.
- Assistance towards transparent knowledge of water management and its environmental issues; access to water information data.
- Conduct consumer exposure assessments.

ICTs for Water

ITG has extensive experience and background in Software Development by combining Web Oriented Architectures with Open-Source Technologies and Information Systems with Analysis and Decision-Making Process.

Specifically referred to Water, ITG develops Geographic Information Systems for Drinking and Sanitation Water Networks:

- Management drinking and sanitation water information systems.
- Software engineering for efficient processing, data modelling, monitoring and explotation of data colletion.
- Designing and development of business intelligence layer and user interface.

Research Results: Technology Solutions in Water

ITG has participated in the development of important Water Technology Solutions:

WETNET

Intelligent Flow-Meter for Leak Detection in Water Distribution Networks | Control System | Improvement of control distribution networks | Patented* Technology

http://www.wetnet.it/en



* WETNET flowmeter is patented by B.R.E. Elettronica Ltd | ITG has a Strategic Alliance with B.R.E. in order to improve the development of WETNET flowmeter.



WIZ4ALL GIS

Web Information Platform for Managers & Citizens: Availability of resource, water pipelines, "Participative Management" of water by citizens, ... | Taking into account Climate Change Impact | Future Scenarios Forecasts

http://wiz4ALL.itg.es

WIZ4PLANNERS GIS

Web Information Platform for Local Authorities related to Urban Planning & Water Management: water resource data + urban data | Decision-making Process: urban planning & water resources availability | Taking into account Climate Change Impact | Future Scenarios Forecasts



http://wiz4PLANNERS.itg.es

ITG International R&D Projects

Since 1996, ITG has developed international cooperation projects with important public and private entities.

SANePLAN Project – Integrated Planning and Sustainable Management of Sanitation Infrastructures through Innovative Precision Technology	www.saneplan-life.eu
WETNET Project – Innovative in-pipe hot-tap insertion flow sEnsor plus smarT NETworks enable ecowise pervasive monitoring of water distribution grids	www.wetnet.it
WIZ Project, WaterIZe Spatial Planning: encompass future drinkwater management to climate change	www.wiz-life.eu
ASAP Project – Actions for Systemic Aquifer Protection	www.klink.it/gate/asap
ROEM + Project – High resolution AppROach for ManageMent of Surface Water EutroPhication in RuraL areas of the Duero River Basin	www.roemplus-life.eu
ENTIC Project – Smart & Sustainable Energy Management for improving the competitiveness of SMEs in the Euroregion	www.entic.eu
GE2C'S Project – Efficiency, CHP and Energy Management in Service Sector	www.ge2cs.com
E4R Project – Building Energy Efficiency Assessment Tools. Refurbishment in SUDOE Territory	www.e4rproject.eu
GENER Project – SMEs' Accompaniment in Efficient Models for Energy Management Implementation	www.proyectogener.org
INCOPYME NETWORK Project – Cooperation between Centres and Research and Innovation SMEs improving competitiveness in the Euroregion	www.redincopyme.org
e-MEDI@TE Project	www.emediate-justice.eu

How to Contact Us

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