



**Integrated GIS solution for water supply networks management, wastewater  
drainage and municipal solid waste**



## What is it?

GIS solution dedicated to  
infrastructure management

Designed to support the registration processes for infrastructures (assets) and planning, such as support to strategic management, investment plans, and operational efficiency, it frames, configure and integrate in the processes of operation and infrastructures maintenance in a transversal way.

**What do I own?**

**Where is it?**

**What's the status?**

**Which valves to maneuver to cut off the water supply?**

**Which customers are affected?**

**What is the origin of effluents?**

**What is the expected lifetime?**

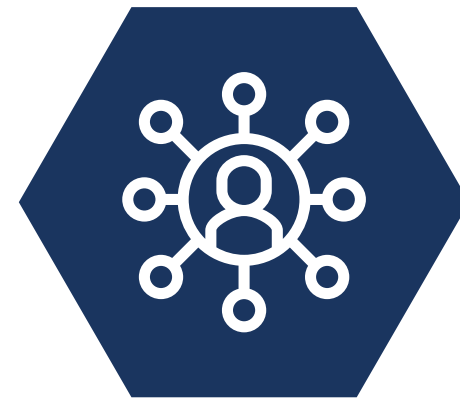
Expansion of the possibilities spectrum for problem analysis that arise to technical management, namely the historical, statistical and thematic treatment of information.

Human factor risk reduction dependency at network operation.

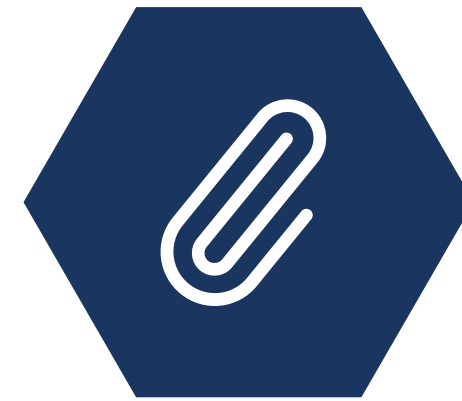




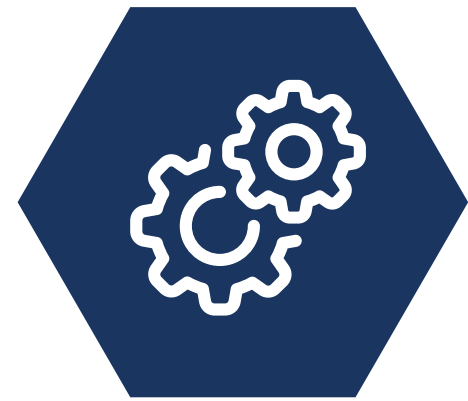
Historical registry for  
editing records



Topological analysis /  
network hydraulics /  
affected customers



Technical Document  
Management  
Multimedia Association



Integrated  
Administration for  
Desktop and Web  
Environments



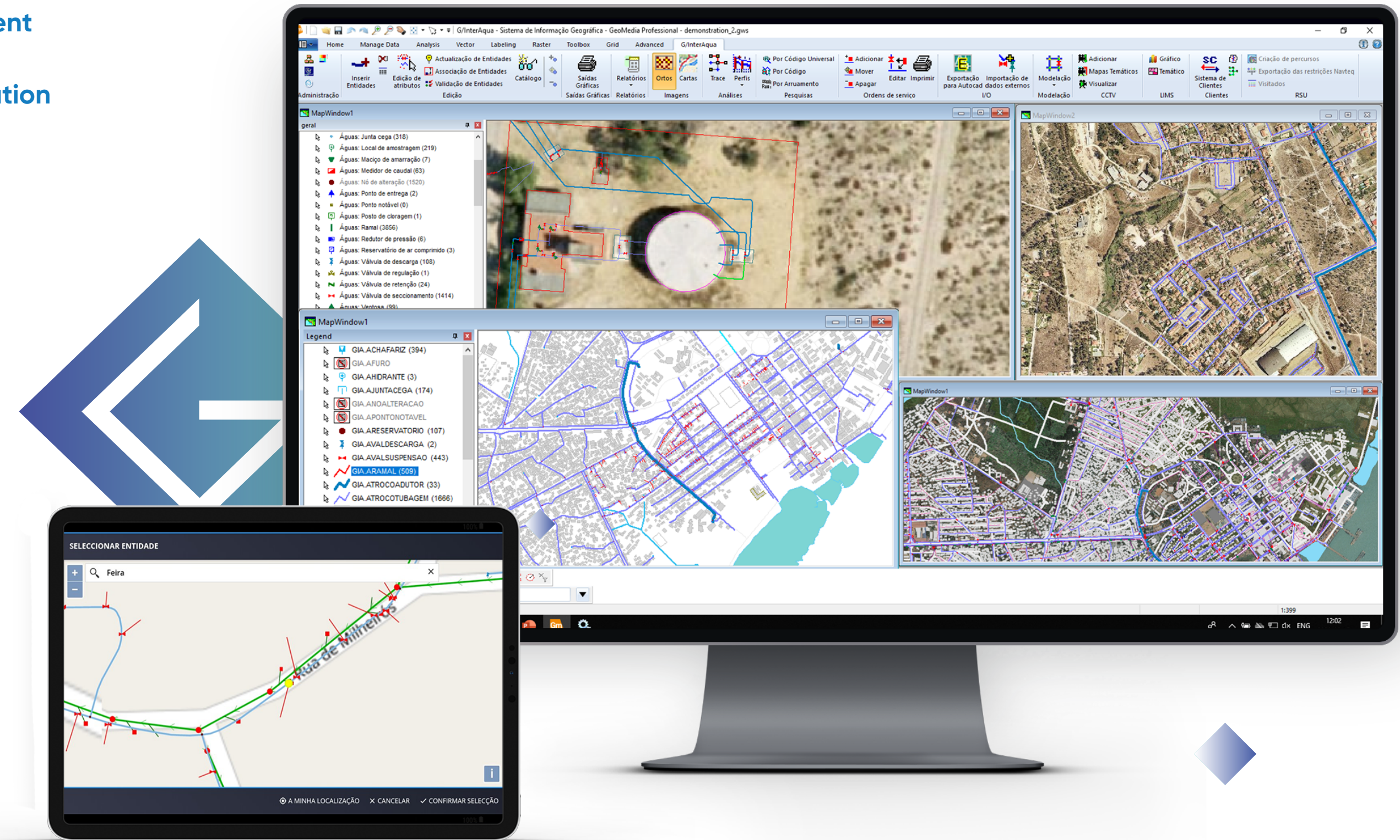
Spatial data  
modeling



Data import and export  
from and into different  
formats



Hydraulic Modeling  
Support





# How does G/InterAqua work?

1

## Data Collection and Integration

Registration data is collected, maintained and systemized in models prepared specifically for water and sanitation networks, waste, industry, telecommunications, energy, spatial planning and maintenance information

Integration is carried out with CRM, ERP, Asset Management and Operation Management systems

2

## Integrated Analysis

Cross-analysis is carried out, based on data from the integration with other information systems of the Managing Entity

Results are available in G/InterAqua and other integrated systems

3

## Efficient Network Management

Operational and maintenance data, as well as economic, financial and specialised data, are collected and combined in order to produce context information for control and decision-making

## Benefits of using G/InterAqua

- ◆ Systematization and rationalization of information
- ◆ Quality of information necessary for systems planning, operation and maintenance activities
- ◆ Expand the spectrum of possibilities for analyzing technical management problems of service networks, including historical, statistical and thematic treatment of information
- ◆ Production and management of infrastructure registration information
- ◆ Support for loss and leak control programs
- ◆ Management of Water Quality Control Plans
- ◆ Production of performance indicators (KPIs)
- ◆ Reporting and maps
- ◆ Statistical consultation and summaries
- ◆ Hydraulic modeling for water supply and wastewater networks information systematization
- ◆ Distribution of water demand
- ◆ Investment analysis based on infrastructure characteristics
- ◆ Management of the service quality evaluation process / reporting to the Regulator
- ◆ Proper integration with information systems ensuring non-duplication for collection and update mechanisms:
  - Customer system - CRM
  - Business management system - ERP
  - Maintenance management system
  - Operation management system
  - Flow and pressure monitoring system

**PIPE PROFILES /  
WATER SEWERS**



 **CUSTOMER BILLING SYSTEM /  
DEMAND DISTRIBUTION**

**GRAPHIC OUTPUTS**



 **REPORTS AND STATISTICS**

**EDITING AND ANALYSIS**



 **CCTV INSPECTION**

**MATHEMATICAL  
MODELING EPANET**



 **MATHEMATICAL MODELING  
SWMM**

**TECHNICAL DOCUMENT  
MANAGEMENT MULTIMEDIA  
ASSOCIATION**



 **WATER QUALITY CONTROL  
PLANS**



**ADMINISTRATION**



## Other solutions



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# AQUASIS