

Winet

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Winet



WI-GEO SOLUTION

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ABOUT US

Winet srl is a young company who **projects and develops wireless sensor networks** mainly for environment, industrial and hydrogeological instability monitoring.

Wireless sensor networks are relevant as **low-cost technology** for spread monitoring of physical quantities: they can give high-resolution measurements, both temporal and spatial. They are made by a sequence of nodes, all provided with one or more sensors and/or actuators, which can exchange information through radio connection, following specific communication procedures.

Since **nodes are small and wireless**, it is a low invasive system and allows a **quick installation**, in particular in places where complex net structures are not feasible.

Winet was born in 2011 and since then it has improved its experience in both software and hardware development, giving solutions which have filled the gaps prevailing on the market.

Winet offers the fulfillment of a complete monitoring system: the choice of appropriate sensors, their interfacing electronic boards production, the nodes software programming and finally the managing of a website where all the collected data are displayed and developed.



WI-GEO

SMART SOLUTIONS FOR HYDROGEOLOGICAL INSTABILITY MONITORING

Wi-Geo is one of the most complete, performing and cost-effective solution for buildings, landslides and rivers watermark monitoring you can currently find on the market.

Air Humidity

Soil/Air Temperature

Soil Humidity

Anemometer

Rain Gauge

Water level

Displacement

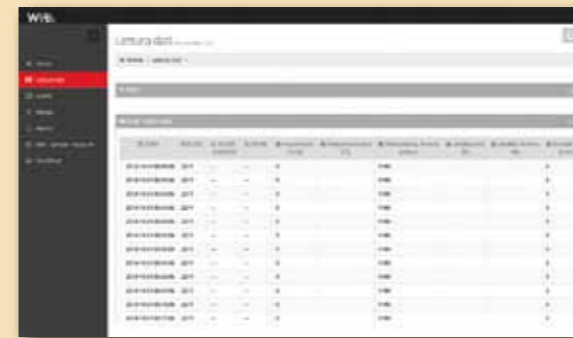
Extensometer

Tiltmeter

Inclinometer



WEB
INTERFACE



The Wi-Geo model is realized through four stages, which perform a cyclic process:

1. **Data collection** through the installation of a wireless network which is equipped with specific sensors that are read by a specific frequency.
2. **Data transmission** through GPRS/UMTS connection and data saving on a database.
3. **Information processing** recorded data is visualized through:
 - **A map with nodes geolocation** and ready representation of data space evolution.
 - **A numerical format data chart**, it is possible to export data to CSV format for post-processing elaborations.
 - **Data charts** showing temporal data trade
4. **Early warning with SMS/Email alert** in case the sensor cross the thresholds set by user.

HOW IT WORKS

WSN are among the smartest systems suitable for environment monitoring: they are cheap and easy to use, since they guide the operator over the right action to be made at the right time.

The main benefits given by Wi-Geo net are:

- **Economical advantages** because a suitable prevention leads to a severe reduction of interventions for any possible damage repair.
- **Security advantages** because prevention of hydrogeological risks avoids any inconvenience, damage or situation which are potentially dangerous for peoples safety.
- **Environmental advantages** because the hydrogeological instability runs to soil corruption under many aspects, like physical, mechanical, chemical and biological.

OUR STRENGTHS

Wi-Geo Purpose:

- **Supervision and alert systems are provided in real time**, in order to carry out preventing interventions
- Hydrogeological instability evolutions and risks are **evaluated in real time and at a budget price** in order to allow an appropriate plan of action
- Workers have the chance to **reduce their standing time on risk** areas, thanks to a quick installation
- **The system maintenance is minimized** thanks to sophisticated low consumption algorithms which allow a long life duration with a battery supply
- **Prompt and customized responses** are given, referring to the supervised area

Winet gives a complete service:

- **Suitable sensors are chosen**, following the required precision
- Sensors are **interfaced and set**
- Winet **nodes are programmed** in order to optimize the net performances
- **A web profile is created** in order to allow a quick data overview
- **The network installation** includes sensors and nodes
- Network and sensors are **checked**
- Network and sensors are **checked-up monthly, quarterly, yearly**
- **A quick response** is guarantee in case of nodes malfunctioning or any sensors damages

OFFERED SERVICES

