TURNING INFORMATION INTO PROFITS.



Overview

- Prevention, prevision, mitigation and flooding control.
- When river levels rise to pre-set threshold levels, the sensors send out a warning on the user via SMS.
- Our devices have long battery life and reliable communication in extreme weather conditions.
- Water level sensors for depth or level measurement in wells, dams and open waters (rivers and lakes).





Instruments and sensors for Flood monitoring

PESSL INSTRUMENTS WATER LEVEL

- Precision of 3 mm
- Integrated barometric sensor module to increase the precision.



PESSL INSTRUMENTS ULTRASONIC WATER LEVEL

- Non-invasive sensor
- Resolution of 1 mm
- Measurement range 0 to 10 m



Sensors as support

RAIN GAUGE

- Precipitation patterns and event
- Help system operator to understand and predict run-off

SOIL MOISTURE SENSORS

- Check for the water saturation of the aquifer
- Flood prediction

Instruments and sensors for Flood monitoring

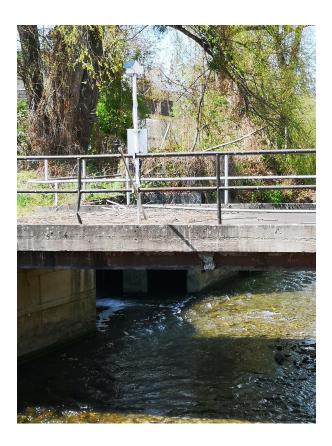
PI WATER LEVEL

- It measures the hydrostatic pressure with Temperature and Pressure compensation
- Installation: the submersible pressure sensor may be placed slightly below the lowest expected water level. It needs to be placed in a metal tube (see next figures)
- 2 models are available: 1 bar (10 m water column) with 15m cable and 2 bar (20m water column) with 25m cable

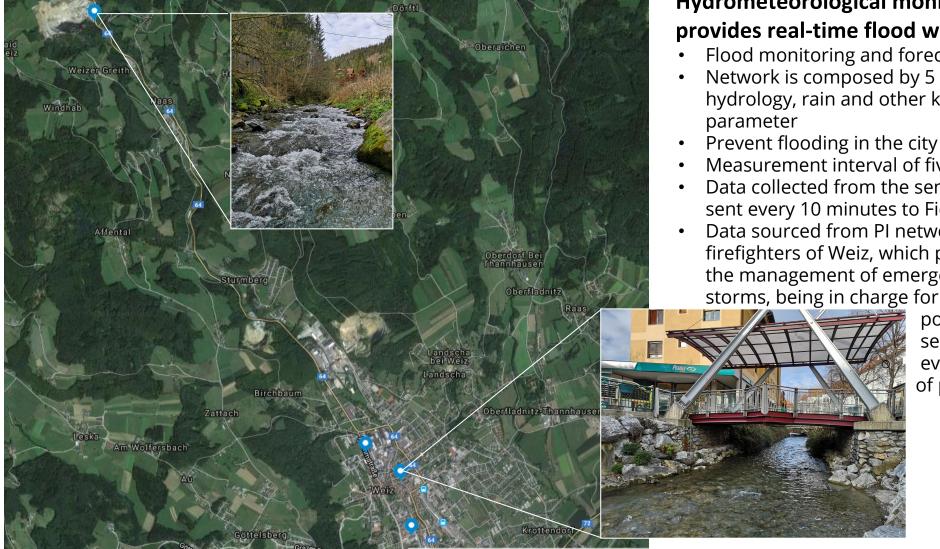


PI ULTRASONIC WATER LEVEL

Installation on the bridge or at one side of the river with the tripod



Use case: Flood warning in Weiz (AUT)

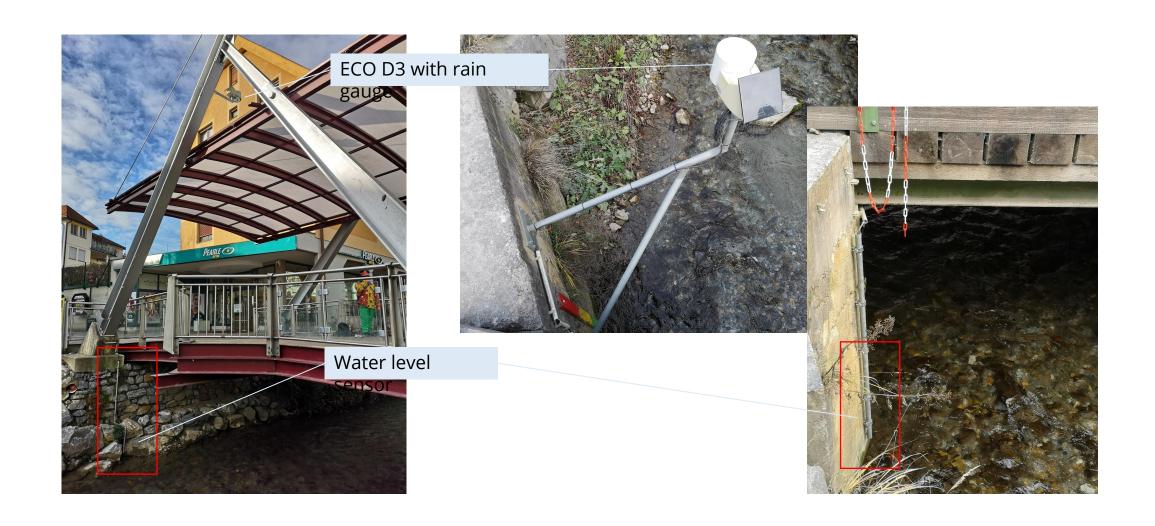


Hydrometeorological monitoring network provides real-time flood warnings:

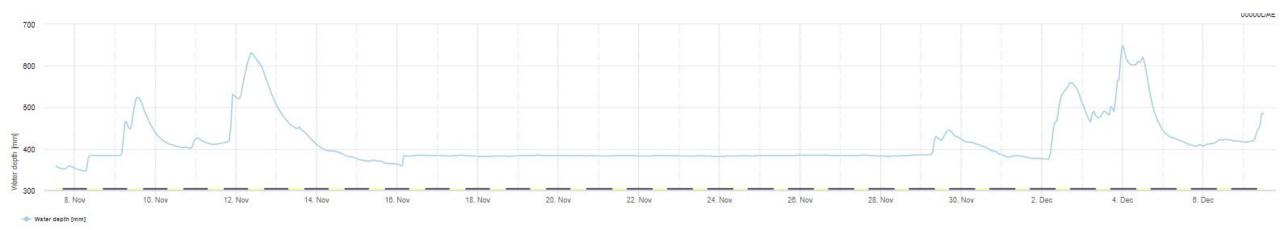
- Flood monitoring and forecasting system
- Network is composed by 5 stations to monitor hydrology, rain and other key meteorological
- Measurement interval of five minutes
- Data collected from the sensors are automatically sent every 10 minutes to Fieldclimate platform
- Data sourced from PI network are received by firefighters of Weiz, which play an essential role for the management of emergencies in case of heavy storms, being in charge for the emission of alarms to

population and, in most serious cases, the evacuation of people.

Use case: Flood warning in Weiz (AUT)



Water level data in Fieldclimate





Use case: Flood warning in Weiz (AUT)

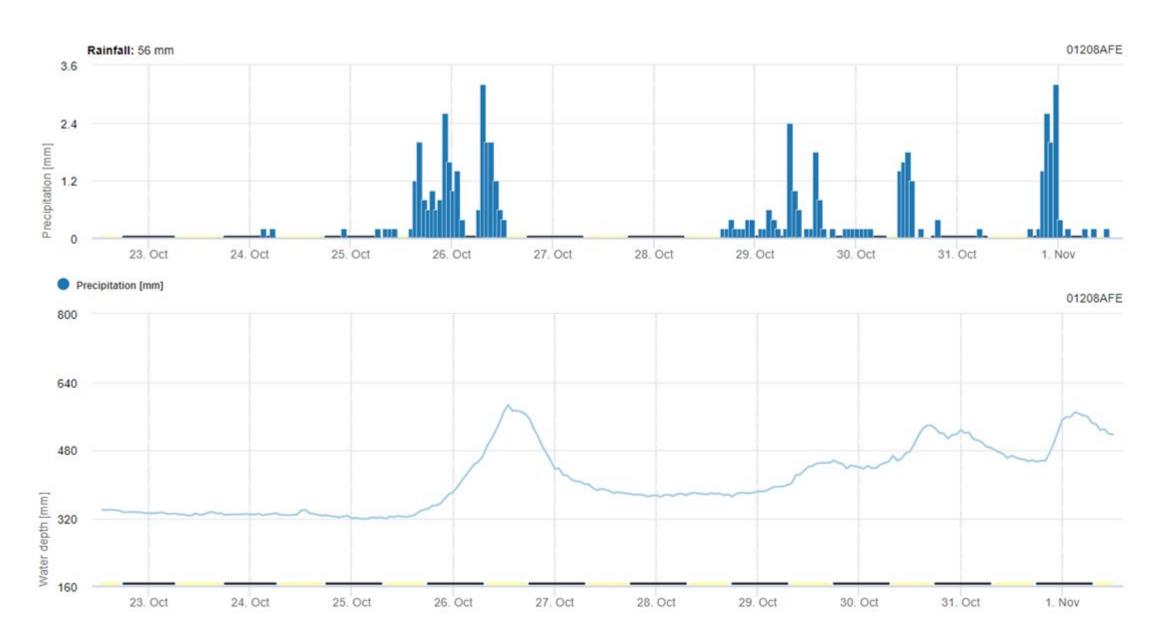


http://www.stadtfeuerwehr-weiz.at/service-und-sicherheit/wetterstation/

Use case: Flood warning in UK

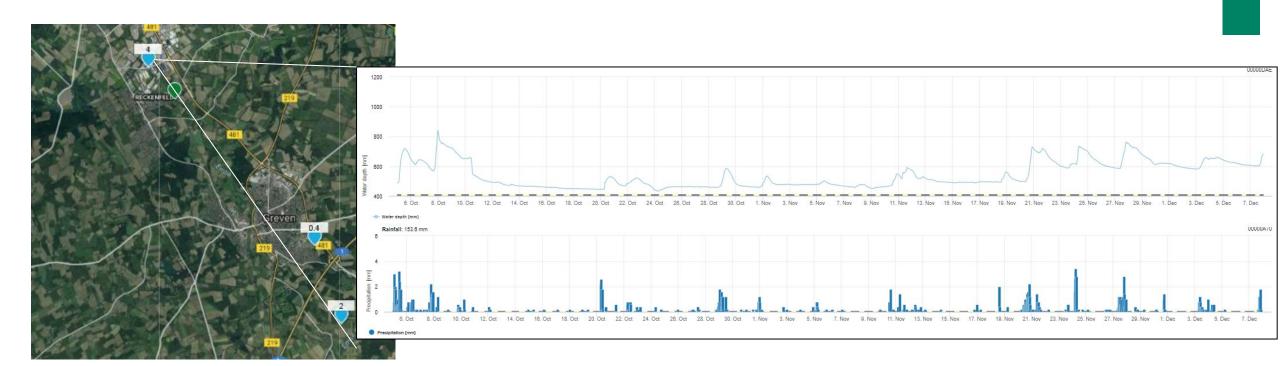


Water level data in Fieldclimate



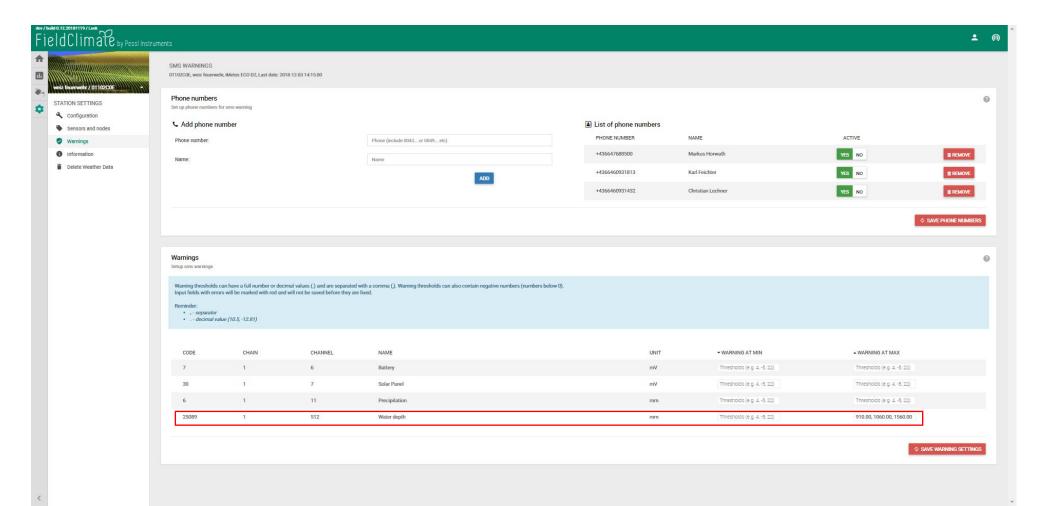
Use case: Flood warning in Greven (GER)

- Application of water level sensors in a flat area.
- In the station map in Fieldclimate plattform you can see the last data of the selected sensor (precipitation in this picture).



Set SMS alert

- Water level live reading is updated every 5 minutes
- Set in Fieldclimate a minimum or maximum threshold
- SMS sent directly to your mobile phone



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