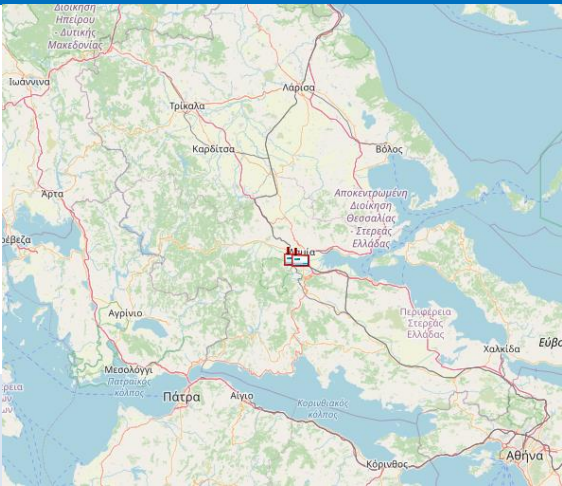


## TELEMETRIC WATER LEVEL AND VELOCITY MONITORING SYSTEM TO SPERCHIOS RIVER



### Project ID:

The project was about supply of equipment used in the implementation of research of the pilot project:

### “SUPPLY OF EQUIPMENT OF A PILOT SYSTEM FOR EARLY FLOOD WARNING TO SPERCHIOS RIVER»

which monitors the water level and velocity of river at predetermined points, logging simultaneously hydrometeorological data in real time.

The network provides accurate data to use them for estimating the level of flood risk.



### IN BRIEF:

**System** : Water level and velocity monitoring network

**Place** : Sperchios river

**Period** : September 2020

The power supply of the stations is made by small solar panels, while the transmission of the data is wireless from the stations to the offices of the region, without mobile telephony.

### ADMINISTRATOR:

Region of Central Greece

### Important:

- Zero cost of data transmission

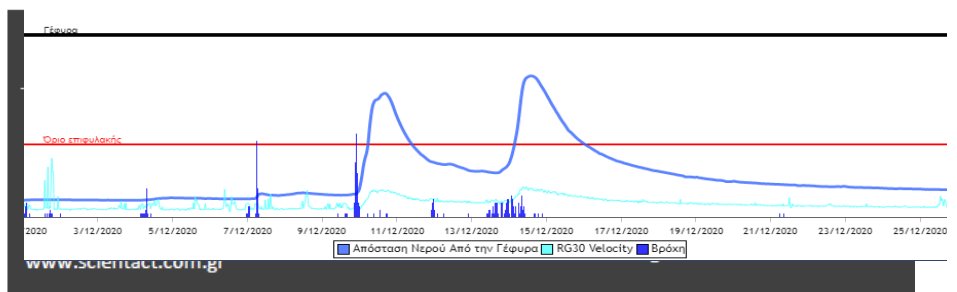
-Radar technology without need of frequent calibration

- Fully expandable regarding the number of stations and the variation of measured parameters



The processing and visualization of the measurements is based on the most complete and reliable platform, “addVANTAGE Pro”.

The platform can supply in real time various data processing and risk assessment software.

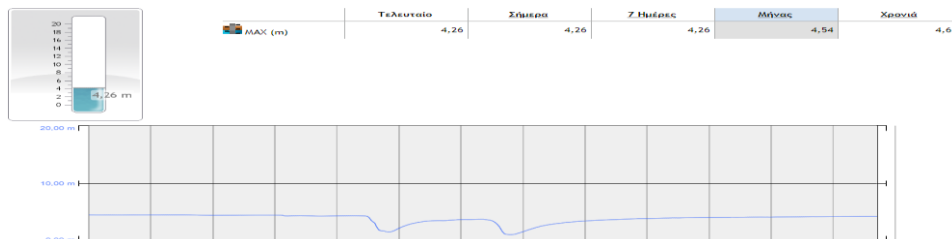


## TELEMETRIC WATER LEVEL AND VELOCITY MONITORING SYSTEM TO SPERCHIOS RIVER



### Radar Water Level Sensor

- Measuring range up to 20m.
- Accuracy  $\pm 2\text{mm}$
- Beam angle  $10^\circ$ .
- It has SDI-12 output for connection with data logger.
- Protection NEMA 4X.
- Operating temperature  $-40^\circ\text{C}$  up to  $+60^\circ\text{C}$ .

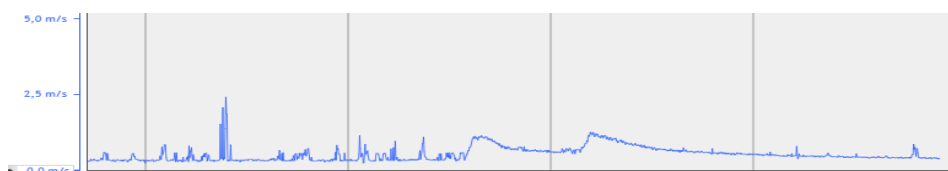


### Telemetry Unit

- Durable wireless telemetric unit.
- Powered by solar panel.
- Data transmission up to distance  $> 20000\text{m}$ .
- Protection Degree: IP 67

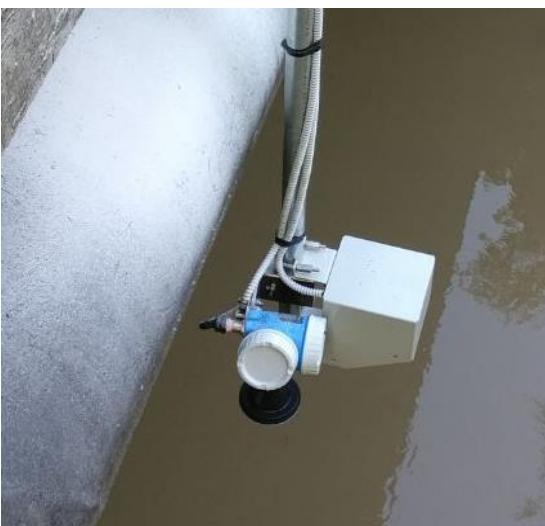
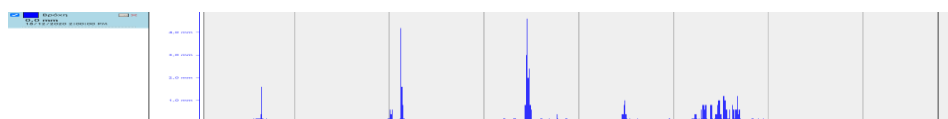
### Radar Water Velocity Sensor

- No maintenance required.
- Protection Degree: IP 67.
- Operating temperature: from  $-40^\circ$  up to  $60^\circ\text{C}$ .
- Water velocity measuring range:  $0.10 - 15\text{m/s}$ .



### Rain Gauge

- Type: tipping bucket.
- It has sensitivity / resolution  $0.2\text{mm}$  rain per tipping.
- It has pulses output (1 pulse per  $0.2\text{mm}$  rain).



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