REPUBLIC HYDRO METEOROLOGICAL SERVICE OF SERBIA (RHMS)

Serbia National Disaster Risk Management Program - Hydrological and UHF equipment

In July 2019, **Italian technology** has been chosen to implement the new **Hydrological and UHF Communication Network** in Serbia, within the Project "Serbia National Disaster Risk Management Program".

The Ministry of Agriculture, Forestry and Water Management - Directorate for Water, Republic of Serbia, on behalf of Republic Hydrometeorological Service of Serbia, has received financing from the **World Bank**, for the procurement of Hydrological and UHF Equipment.

The project aims at the realization of an **Early Warning System**, based on **open technologies** and **established reference standards** in the monitoring field, able to meet the current requirement of territory knowledge, as well as the future ones according to the increasing knowledge of the monitoring phenomena.

Summary

Client: Republic Hydrometeorological Service of Serbia (RHMS)

Work completion: 2019

Focus: Hydrological Risk

Challenges:

- Implement and modernize the Hydrological System for RHMS of Serbia
- Implement an Early Warning System, based on open technologies and established reference standards

CAE solutions:

- 65 hydrological monitoring stations with different kind of water level sensors
- UHF radio communication network
- Control center with CAE software suite
- Staff training and technical assistance

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innovation for a safer world.

FEATURES

The project represents the most effective way to accomplish and modernize the **Hydrological System** for Republic Hydrometeorological Service of Serbia. Delivery, installation and testing of hydrological equipment and the realization of the **first UHF radio transmission system** as well as supporting services during warranty period represents the main characteristics of this project.

The **UHF transmission system** together with **mobile communication** guarantees the highest reliability and minimum loss of data, especially during emergency, easy operation, possibility of system query according to needs and the lowest operating costs.

The system provided is a **modular**, **flexible** and **multipurpose** instrument and the technology allows the integration of various monitoring requirements. The proposed system will allow the purchaser to rely on a valid instrument for territory knowledge, which will produce a wide range of organized information concerning the current environmental problems.

The system assures an optimum monitoring of the meteorological phenomena of the territory, a rapid and efficient spreading of **alerts** aimed at **reducing environmental risks**, for **civil defense** and **human safety purposes.**

COMPOSITION

The project includes all elements necessary to guarantee the achievement of the highest targets, in terms of constant operation of the system, **"robustness"** of equipment, **durability** over time and **accuracy** of data and includes:

- **65 hydrological monitoring stations** equipped with different kind of water level sensors (radar, pressure, bubble, shaft encorder);
- **UHF radio communication network** consisting of 1 radio base station and 4 repeaters;
- **Control centre**, including several CAE software for network management and data visualization;
- Full and continued **staff training**;
- Guaranteed technical **assistance.**