To avoid wastage of water and enable more efficient use of resources, more and more often water systems are getting automated. It ensures that water use is optimized and requires less human effort.

In this project, ALES company created an automation system for remote control of an underground well pump intended for transportation of sanitation and irrigation water in a remote monastery. The water was intended to be transported between two points with a 160 meters elevation and 1.5 km distance which crossed out the wired control option as too expendable.

Although nowadays modern technologies make remote control a fairly simple challenge, however, simplicity and cost efficiency were key points to this solution. Due to the remoteness of the place related to significantly higher costs, broadband connection over cable was ruled out. The only viable solution was utilizing the cellular network. Using an omnipresent cellphone, the pump would be controlled by calls or SMS messages. This simple control solution was superior to a much more expensive approach such as control over the internet using a smartphone app.

ALES is a company with extensive experience in the market providing an array of products and services within the electromechanical industry. The company’s work experience is based upon three pillars, which are: manufacturing, engineering, and automation. The main focus areas are automation and visualization of industrial processes, manufacturing machinery, and HVAC systems. ALES develops automated control systems that include PLC control, industrial user interface (HMI & SCADA), and various other automation solutions.
WHY TELTONIKA NETWORKS?

As stated by ALES representative: “Teltonika Networks offered a product with small space occupancy, simple utilization, cost-effectiveness, and ubiquitous software for a simple yet powerful solution. Teltonika Networks Remote Management System (RMS) simplified the customer support. The RMS enabled remote management of the solution satisfying the requirements raised by the customer. Teltonika Networks was the clear choice in our case. We were especially impressed by their effective customer support and responsiveness, which enabled rapid workflow with our customers.”