Powering the IoT Revolution

Drones, Sensors and Blockchain
Some Facts and Figures

- More than 25% of the fresh water in the world is located in Russia.
- More than 50% of this water does not meet sanitary standards.
- More than 10 M people in Russia do not have access to quality drinking water.
- Less than 8% of the wastewater is correctly treated.
The project.

Kuybyshev Reservoir. Monitoring: temperature, pH, dissolved oxygen, water conductivity, ions: NH4+, NO3-...
Libelium overview
Quick numbers

• Founded 2006.
• IoT is our only business.
• Customers +120 countries.
• 90 partners worldwide.
• 44 distributors in America, Europe, Asia, Africa, Pacific…
Libelium's Technology

Libelium main target: Interoperability!!!

- Connect any sensor
- Using any communication protocol
- To any cloud platform
Waspmote, Meshlium and Plug & Sense!

New IoT sensor platform worldwide certified
Libelium's experience.

Physical parameters:
- Temperature,
- Dissolved Oxygen,
- Electroconductivity,
- pH,
- ORP,
- Turbidity.

Chemical parameters:
- Nitrites NO2-,
- Nitrates NO3-,
- Ammonia NH4,
- Calcium,
- Potassium,
- Magnesium,
- etc.
Smart Water Xtreme.

- Higher accuracy,
- Top level sensors,
- Lower maintenance and calibration,
- New parameters (TSS, etc)
- Best performance even in salted water.
Libelium’s Advantages

- Flexibility,
- Quick development,
- Completeness,
- Good ratio

Accuracy / Cost
Drone on the Volga

Airalab Rus, Smart IoT distribution and Tolyatti University Solar Team designed a solar-and-battery-powered water drone able to navigate the reservoir measuring water quality parameters in different points.
Robonomics platform
Thanks for your kind attention!

Live webinars:

Twitter: @libelium

Contact: j.gabas@libelium.com

sales@libelium.com