

Holistic solution for digital transformation In water utilities

New (4th) generation of SCADA system – much more than just a SCADA

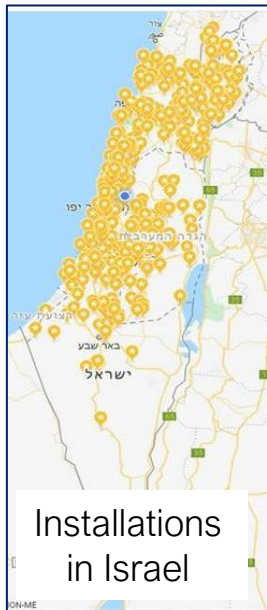
Real time remote-control & data management
Smart, simple & affordable






By Ran Kedem – Partner at Reali Technologies Ltd, Israel.

About Reali Technologies Ltd.

Reali Technologies Ltd. is an Israeli leader and pioneer company in IIoT & cloud computing since 2008, the developer of **RealiteQ** – **real time remote control & data management**

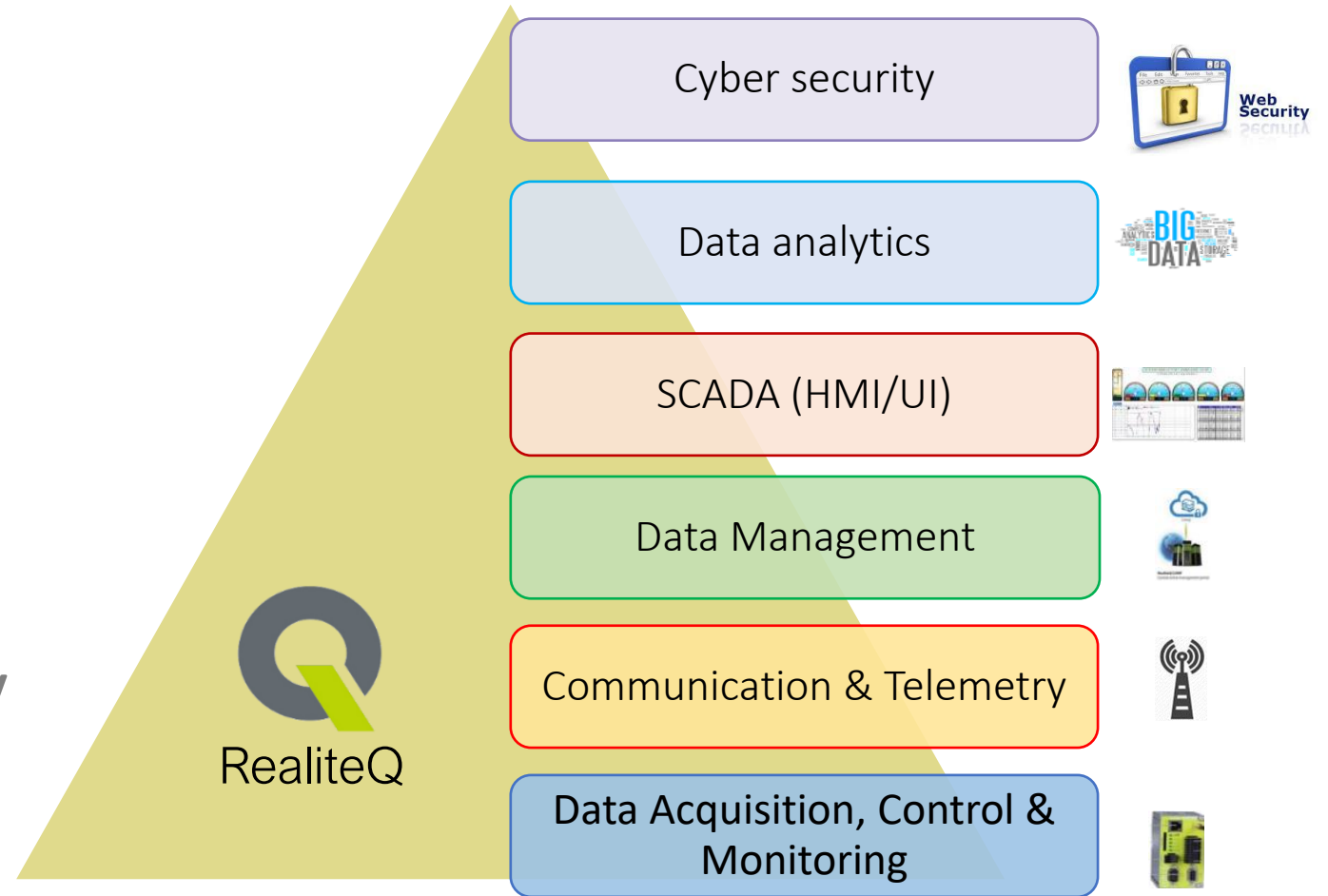
Today RealiteQ is a proven technology for wide range of applications, with installations in more than 40 countries in 5 continents including



	Water Reservoir, Water treatment plant, Water tower Desalination, Wells, Distribution System, River/Lake
	Sanitation Water treatment plant, Lift Station Water Quality
	Electricity Grid monitoring, Genset control Wind station, Solar station
	Gas Distribution system, Tank monitoring PRS / PRMS / City gate
	BMS Energy efficiency, Cooling tower, chillers
	Industrial Cooling towers, Factory Silos Water treatment plant, Desalination
	More EV Charging, Vending machines, Irrigation Water quality, Street light



Holistic (hardware & software) solution for real-time remote control & data management system from the infrastructure level through the ICT & SCADA level up to the Cybersecurity & data analytics level.

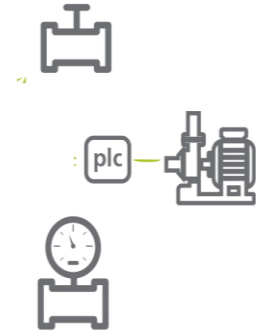


Providing significant benefits along the main strategy operative dimensions: Costs, Quality, Speed , Reliability & Security

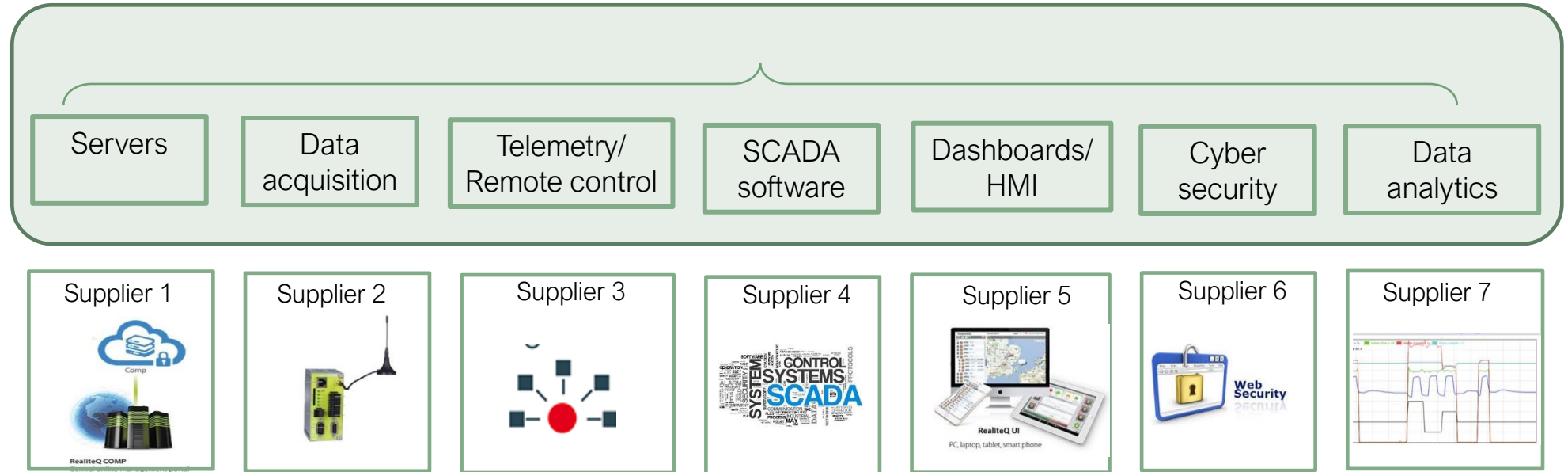
RealiteQ Holistic solution Vs. traditional solution

Holistic solution – One integrated solution

Site/ network



PLC analyzers
sensors...



Traditional solution – built of different technologies with limited interface between them which require long, complicated and expensive process of installation & maintenance

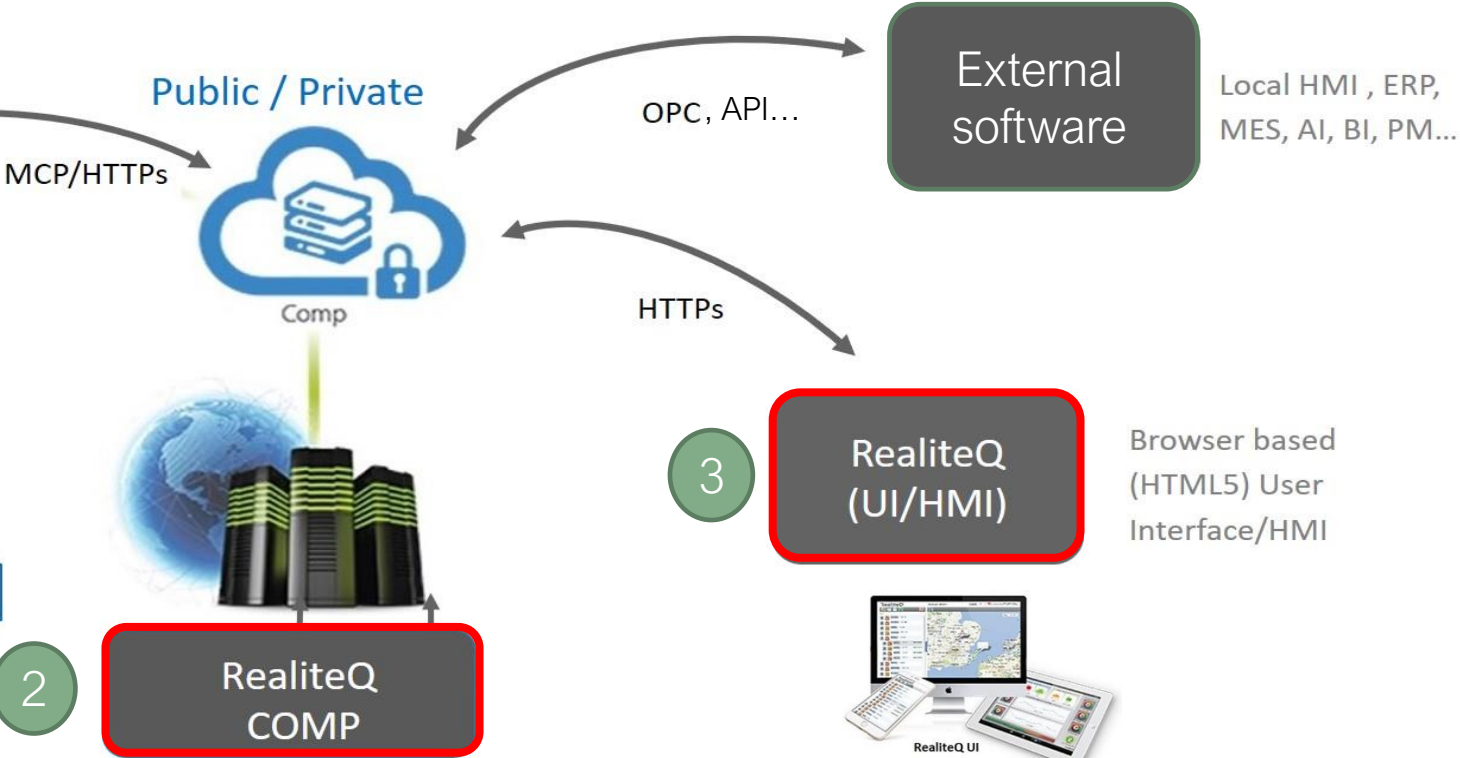
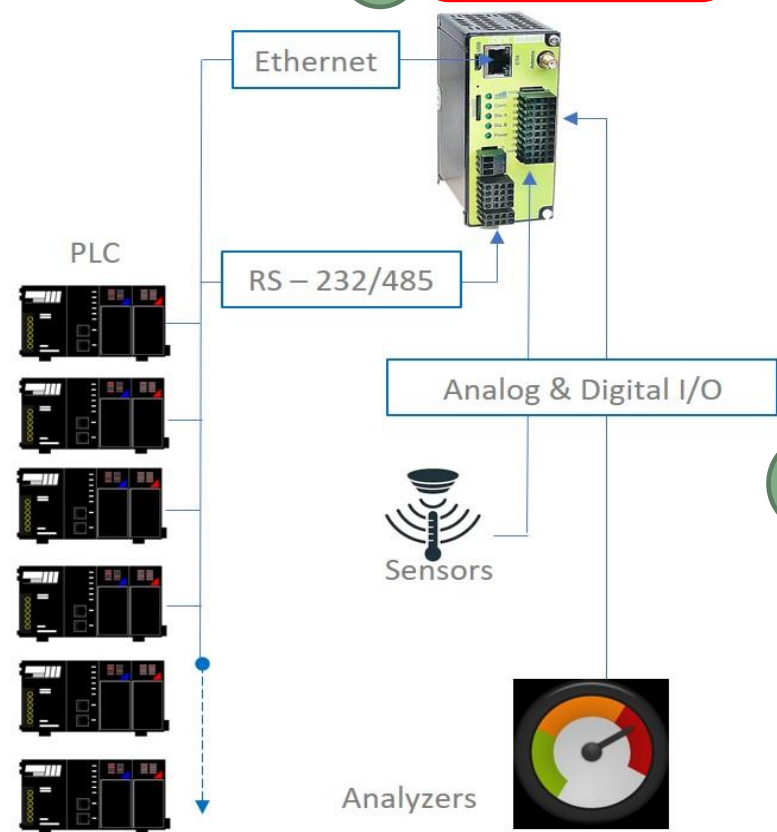
RealiteQ holistic solution for remote control & data management

Solution components – smart & Simple Only 3 components



ICEX - On site Data
Producer. Explores sensors,
analyzers, controllers etc.
Support 3 different
Protocols in parallel

1 Data
Producer
(Icex)



COMP - Central Online Management Portal
Mediates all communication, defines security
and user permissions, manages the Historian,
streams live data and sends Alarms
notifications.

Any device is connected to the
internet, anytime, anywhere.

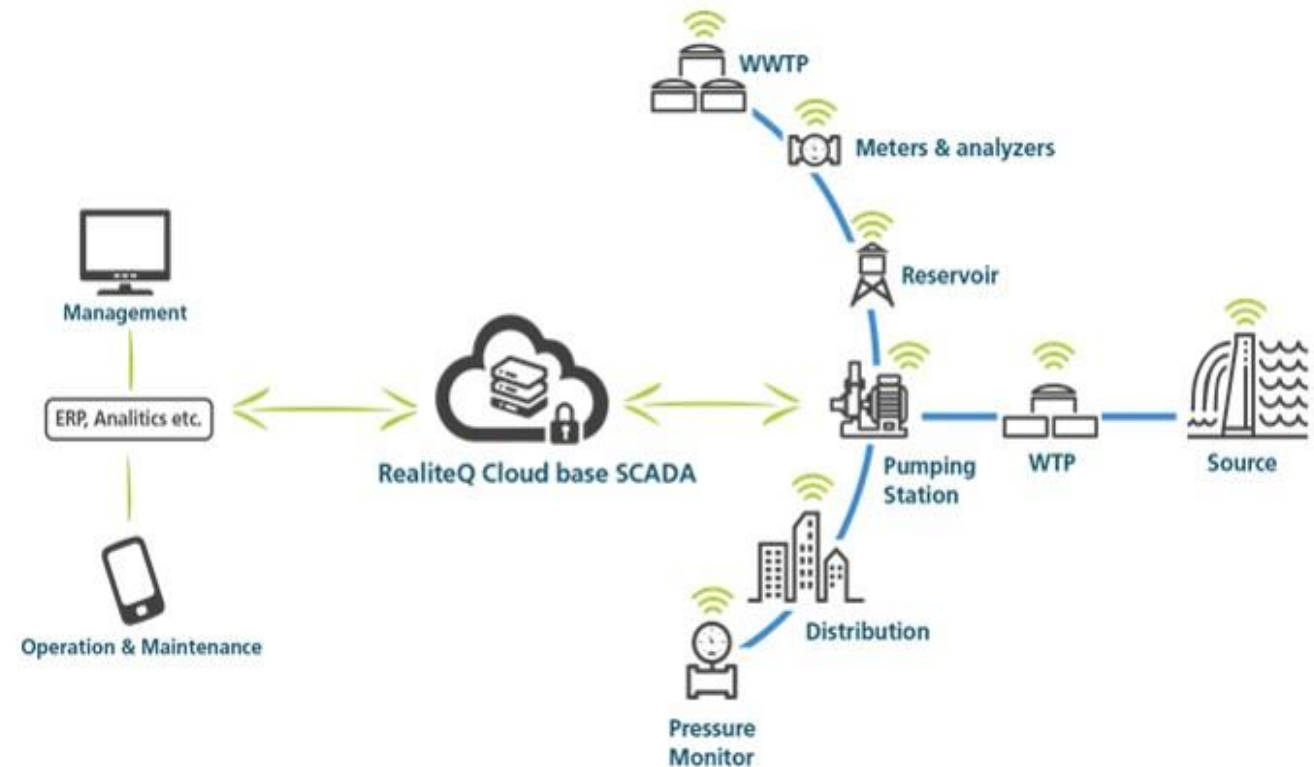
RealiteQ – turning any network to smart network

No limits of:

- Data
- users
- All kinds of Devices
- Sites/Locations

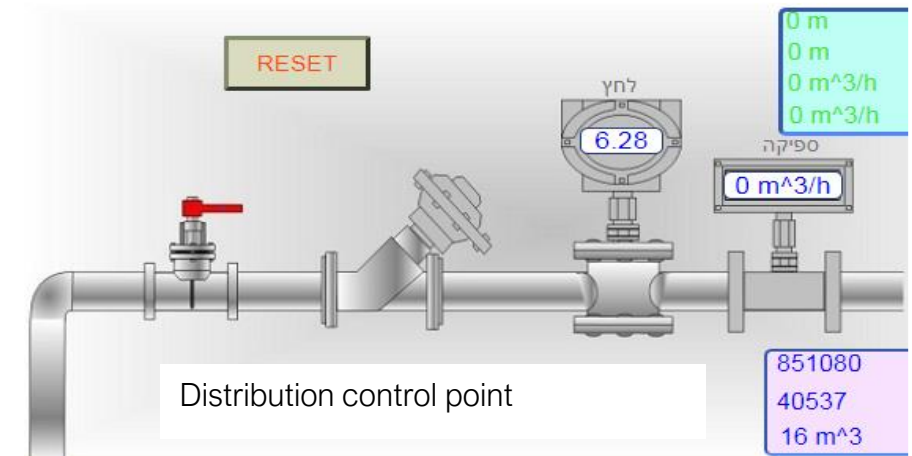
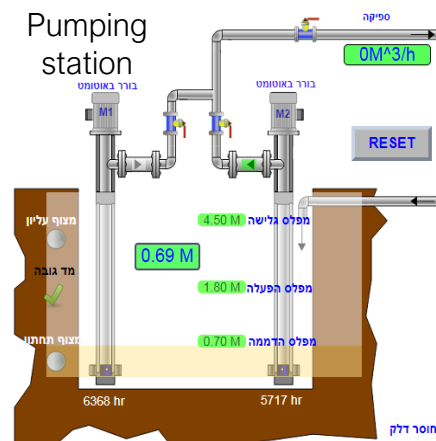
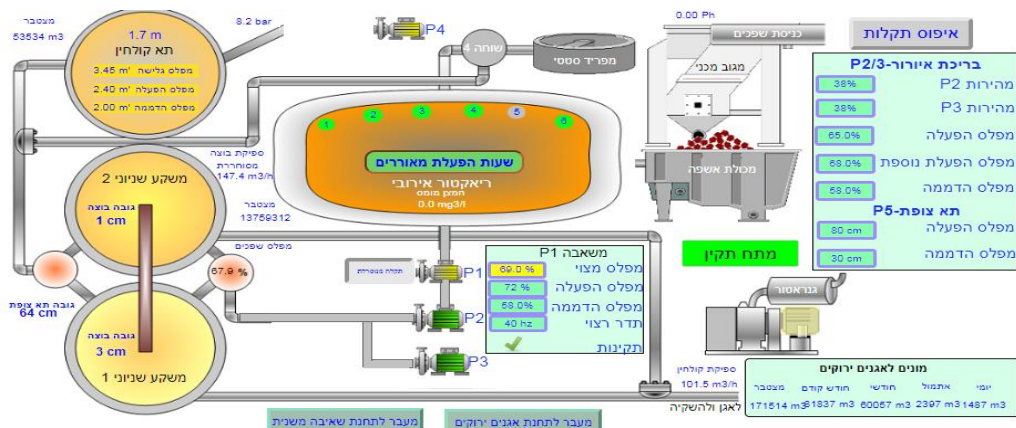
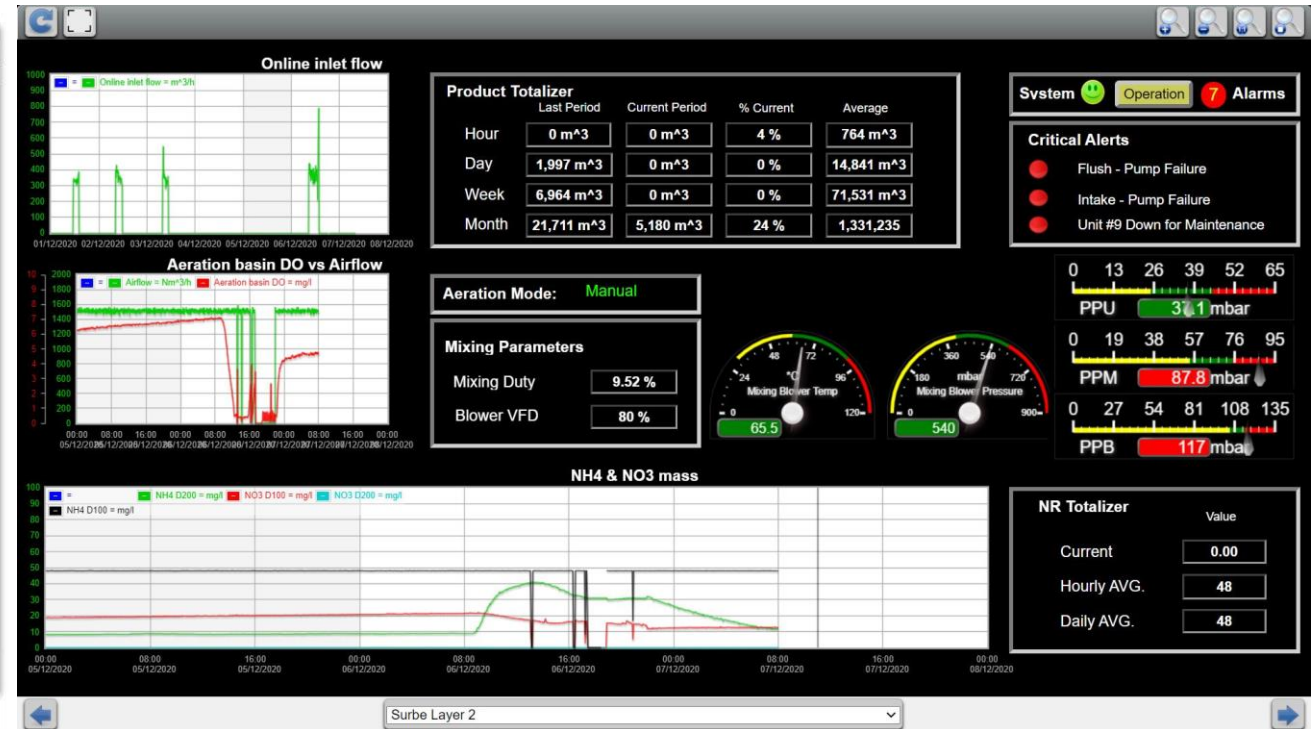
No limits to the distance between sites or type of topography.

to the entire network (100% Modular)




Smart network - One management system for one water network

Built in Editor – customized BI & operational dashboards



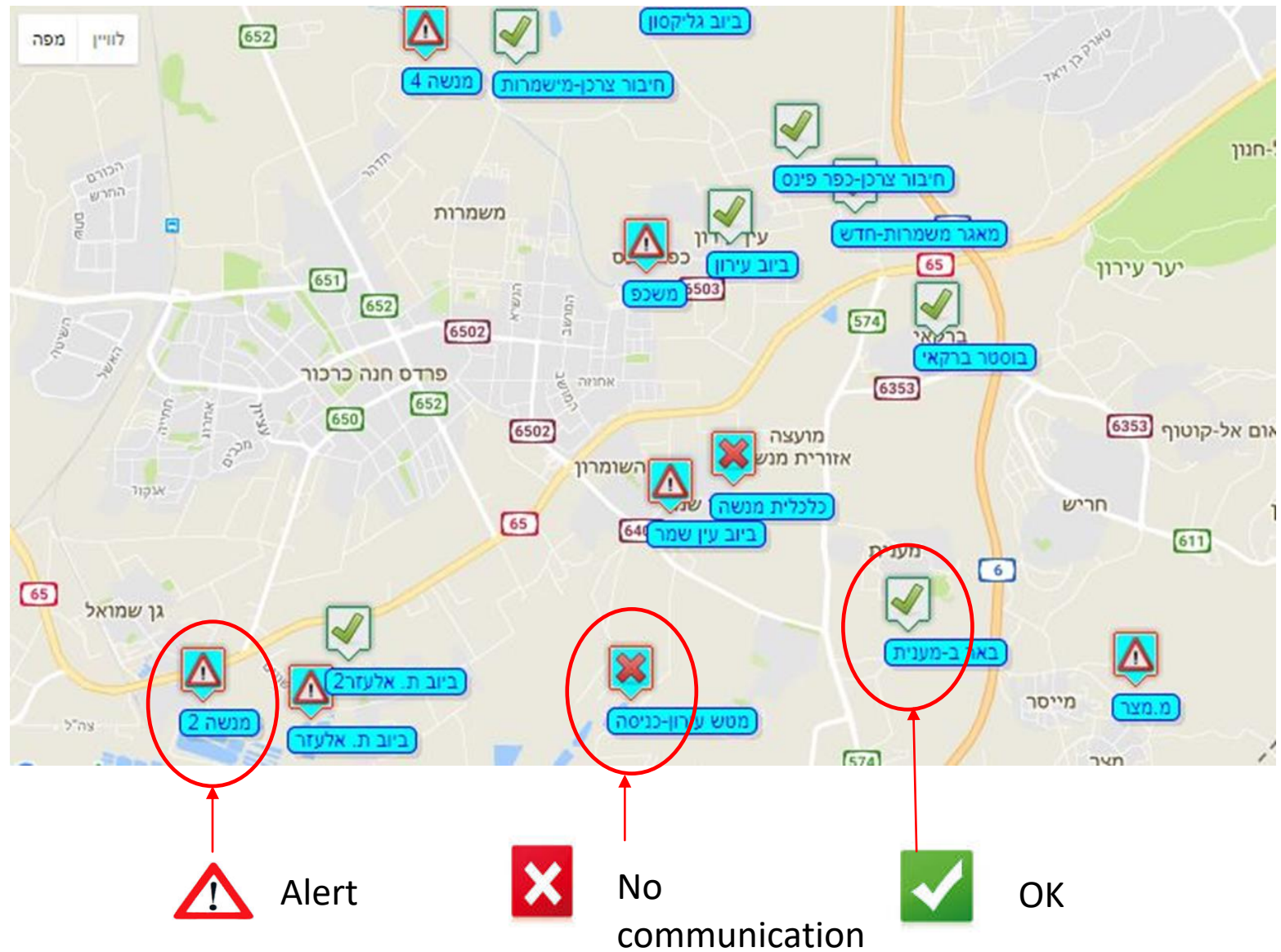
Wastewater Treatment plan operation screen



REAL TIME “ASSET HEALTH” STATUS

ELIMINATE THE OPERATIONAL MOST COMMON RISKS:

- Risk of ignorance
- Risk of ignoring
- Risk of late response



Hierarchical Organizational Structure for Corporates

**National/corporate
level**

Access to all sites, local or global

**State/Regional
level**

Access to all regional sites

**Utility/costumer
level**

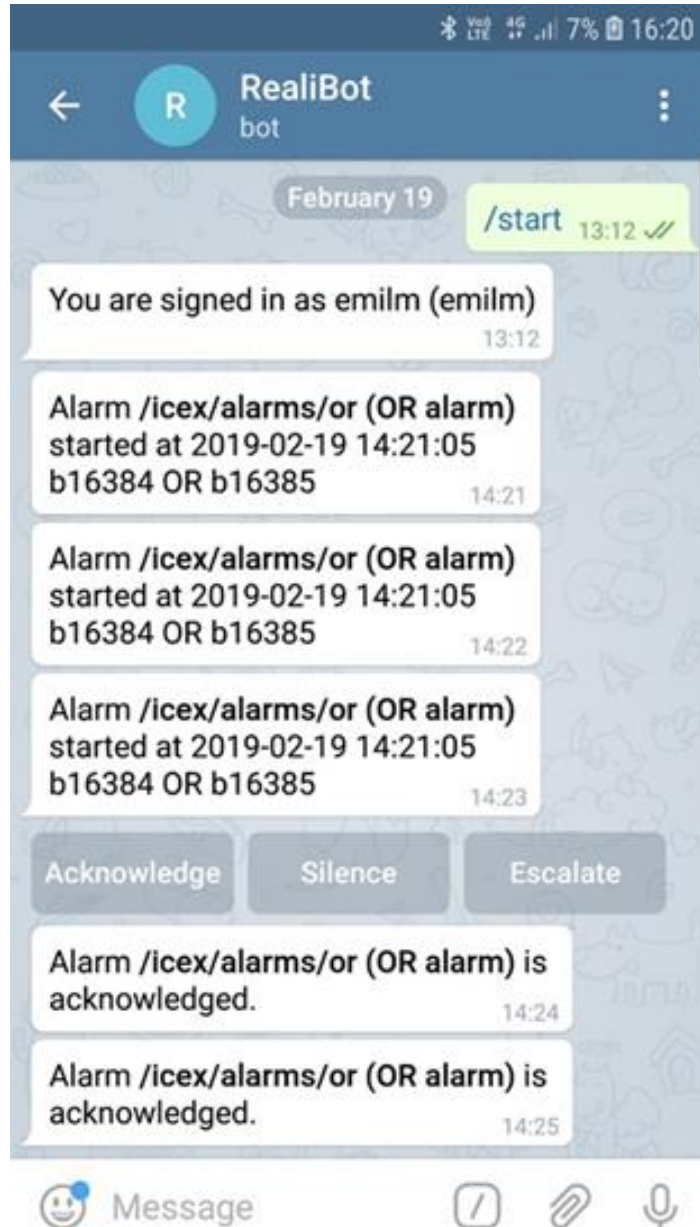
Access to related sites

Site level

Access to single site



Smart alert management



Cyber security - Built for Cyber



STATE OF ISRAEL



25 February 2020-04-07

To whom it may concern:

Dear Ms./Sirs

Re: Software and End Units of REALITEQ Adaptation to the Cyber Protection Procedure

Per request of the supplier, ICEx end units and software of the REALITEQ company were examined by the Governmental water and sewage authority and our consultant teams.

I hereby confirm that the software and end units in fact comply with the requirements, according to the cyber protection procedure of the water authority.

The Challenge:

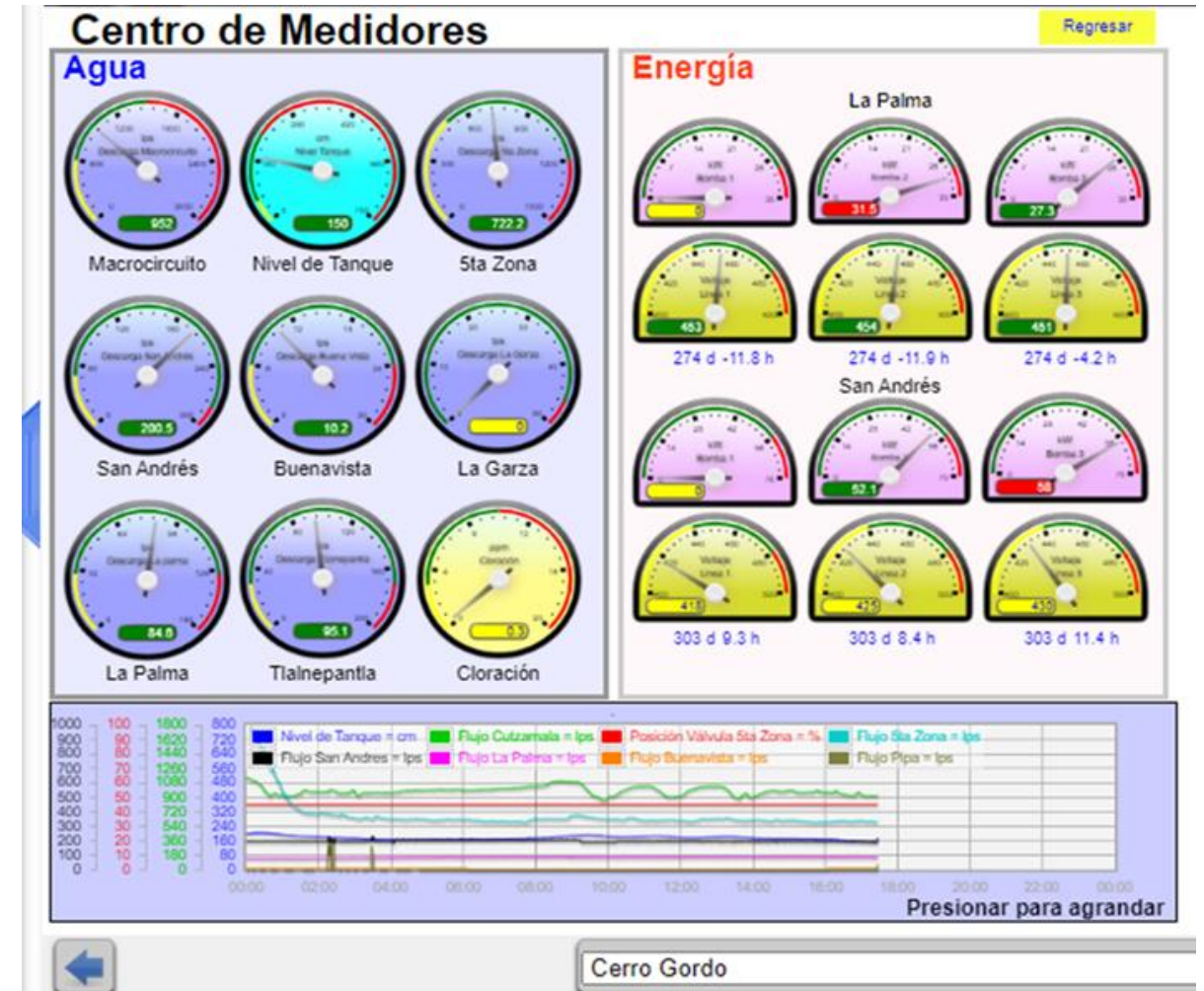


- limited corporate governance
- Only basic data analytics and reports were made manually
- Poor maintenance and service level with high OPEX
- **Late response for critical events** (overflow...) Cusses for large damages and costs in different remote sites

Case study – CEMA water utility in Mexico - 2

The Results:

- Increase in Operational safety
- Service without interruption
- Significant savings of water (~50%)
- Significant savings of electrical power (~50 %)



The Extension: As for the success of the project, the project was expended to 20 sites and the plan is to connect all the network sites to RealiteQ (installation stopped as for the COVID-19).

Summary of benefits

RealiteQ Benefits

- Simple fast and undistributed installation
- Maintenance free and easy to use
- No need for special IT capabilities, manpower or infrastructure
- 100% modular, Interfacing with existing equipment & software

RealiteQ Improves:

- Real-time routine & crisis events management capabilities
- Operational optimization
- Corporate governance



Affordable & accessible also to Small/rural utilities

For more information,
please contact:



*Papa, With
RealiteQ the
future is already
here!*

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