VISUALIZING TWO-WAY COMMUNICATION

INFOGRAPHIC

How your data travels from station to software

OTT HydroMet

Two-Way Communication from Station to Software

BENEFIT

Sensors collect data from the field based on user defined intervals. Some sensors allow for direct measurement storage, post-processing on raw data, and programing of custom transmissions

1

Physical inputs:

- SDI-12
- RS485
- RS232
- Status
- Impuls
- Frequency
- Analogue (U/I)
- Ethernet

Sensor protocols:

- SDI-12
- Modbus
- UMB
- RS-232 Customer Specific
- TCP/IP

BENEFIT

Data loggers allow for local operation via:

- Integrated display
- Wireless connection to operating system on Windows PC or Smartphone app
- Wired connection to operating system

2

Loggers perform the following actions:

- Collect measurements at flexible intervals
- Process data
- Store data
- Output data signals (i.e. power up or control external device)
- Transmit data for events and alarms

BENEFIT

Telemetry options that also allow for two-way communication include:

- Mobile com
- LAN
- IoT

3

Data is transmitted via telemetry such as satellite and cellular.

Telemetry options can include:

- Mobile com
- LAN
- Geostationary satellite low orbit
- IoT
- LOS/Radio
- Industrial Communication (Bus/OPC)

BENEFIT

End users can access the data fully remotely, via:

- Car
- Office
- Home
- Cell phone

4

Software solutions receive data, either on-premise or cloud, in order to:

- Automatically import and integrate in minutes
- Correct and quality assure
- Compare raw and corrected data
- Build rich statistics, maps, alarms, and live reports

Data to You

Sensors/Camera

Datalogger

Telemetry

Software

End User

Data to Field

7

Sensors receive inputs directly from the data logger in near real-time to immediately adjust settings and perform diagnostics in the field.

BENEFIT

Make critical decisions quickly by having remote access to your field equipment at all times. Remote communication allows for increased confidence in data by ensuring accuracy and no data gaps.

6

Data loggers receive information via:

- TCP/IP
- FTP (secure)
- HTTP (secure)
- VPN
- Socket
- SMS
- Satellite

Receiving Station

- Gateway
- PLC

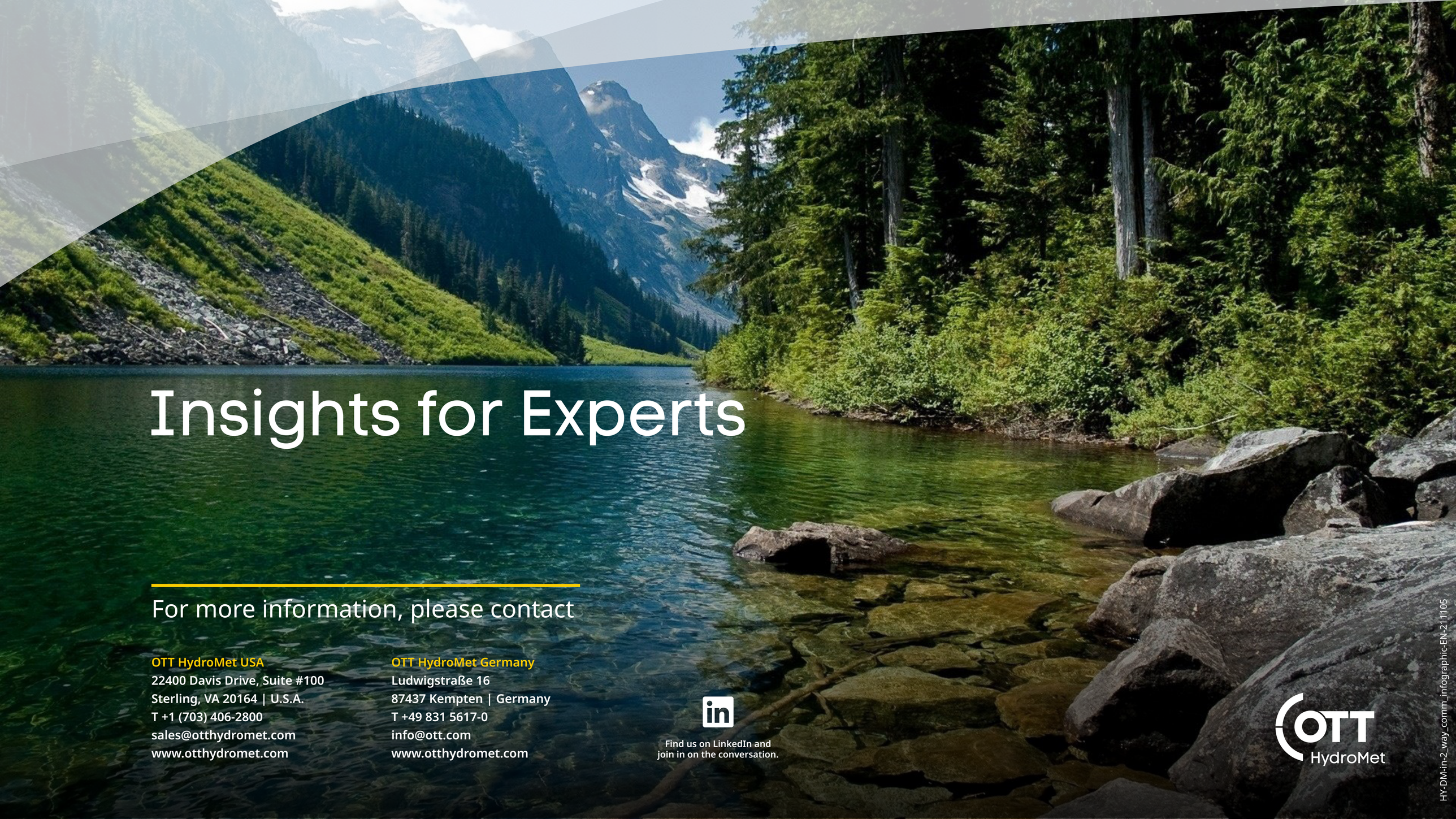
BENEFIT

Avoid costly, time-demanding trips to the field by sending commands and checking data remotely.
Quickly visualize and forecast potential problems using software like AQUARIUS directly from your office or computer.

5

Use software solutions to send remote commands to dataloggers in the field including:

- Power on/off
- Download data
- Adjust alarm thresholds
- Finetune measurement setups to improve data capture
- Run diagnostics
- Update firmware



Insights for Experts

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