

**Dryp.**<sup>TM</sup>

Smart Water Management

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A Product for Data Monitoring & Proactive Management of Water Infrastructure

Easy • Simple • Open • Low-cost

European Technology

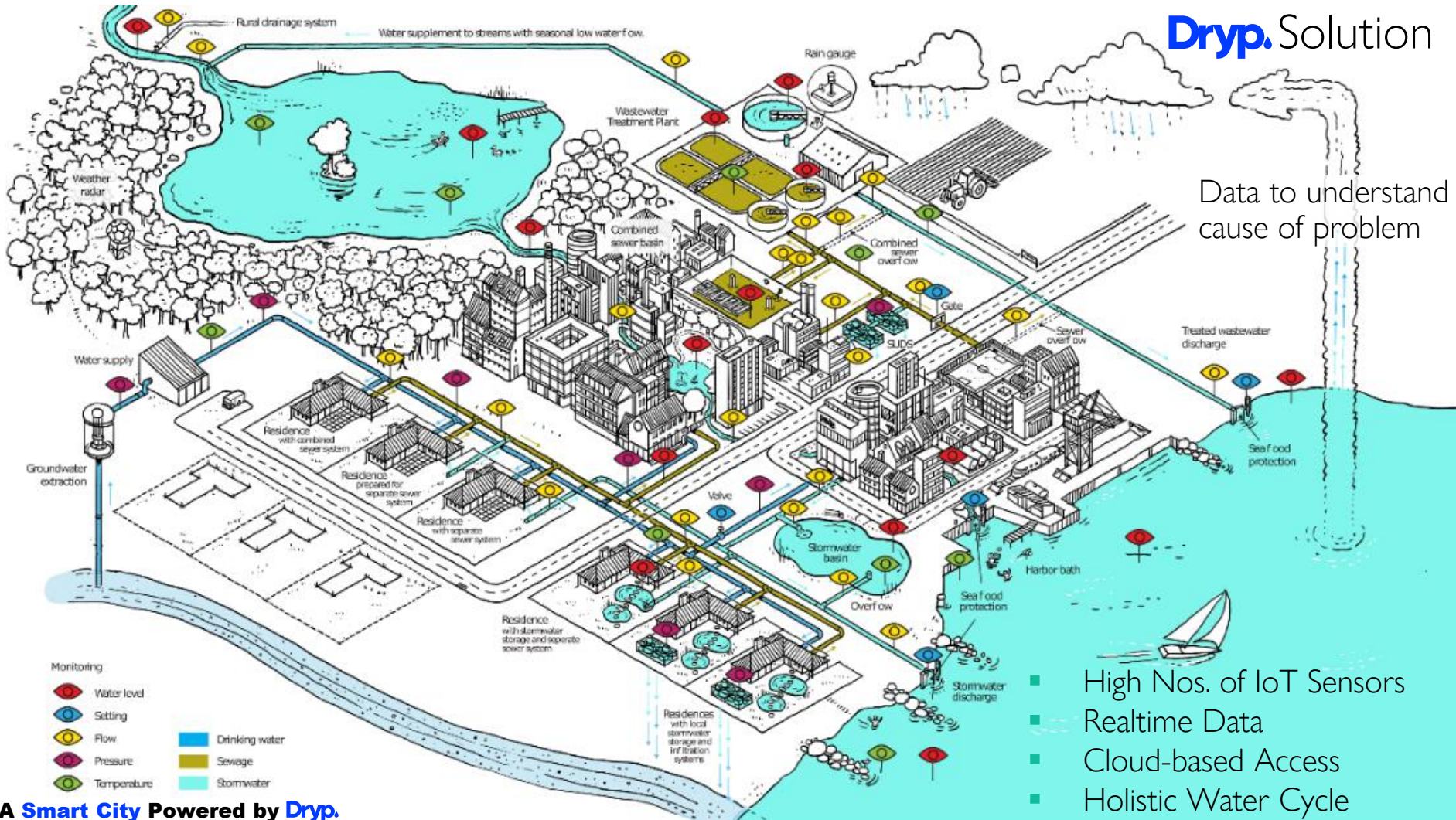
# Contents of Presentation

- Problem & Cause
- Solution & How it Works
- How to get Started & Results (demo & free trials)
- Costs & Resource Requirements
- Benefits & Long-term

## Problem & Cause

- Non-revenue water → No water balance
- Wastage → Leaks and overflows
- Intermittent water supply → Lack of holistic pressure management
- Urban flooding → Inefficient rainwater runoff
- Groundwater decline → No conjunctive use of surface and ground water
- ...and many other water issues

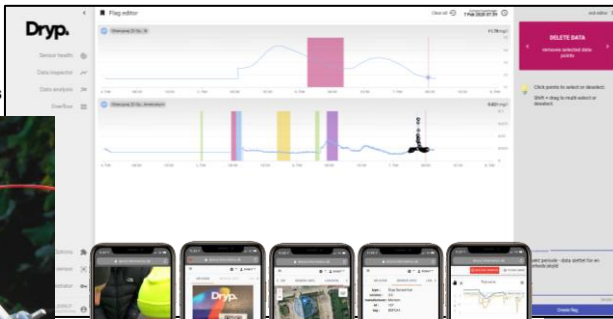




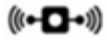
Data to understand cause of problem

- Monitoring
- Water level
  - Settling
  - Flow
  - Pressure
  - Temperature
  - Drinking water
  - Sewage
  - Stormwater

- High Nos. of IoT Sensors
- Realtime Data
- Cloud-based Access
- Holistic Water Cycle



# How Dryp Works



## HARDWARE



## CONNECTIVITY



## CLOUD



## INSTALLATION AND APPLICATION

High-resolution water level sensor

Variable and adaptable measurement frequency

Long battery life

Edge processing

Optimized for the challenging conditions in the water sector

Global connectivity

Two way communication

Variable and adaptable transmission frequency

Optimized for the challenging underground transmission conditions

Data availability and visualization

Automated data validation

Data API for full control

User defined thresholds

Data integration: GIS, weather and other sources

Predictive capabilities utilizing machine learning

Plug 'n' play installation

Self-configuration capabilities

Self-calibration and diagnosis

Intelligent alarm system

Device management and automated health monitoring

Data-driven overview of man-made and natural water systems



Sensor health

Data analysis

Overflow

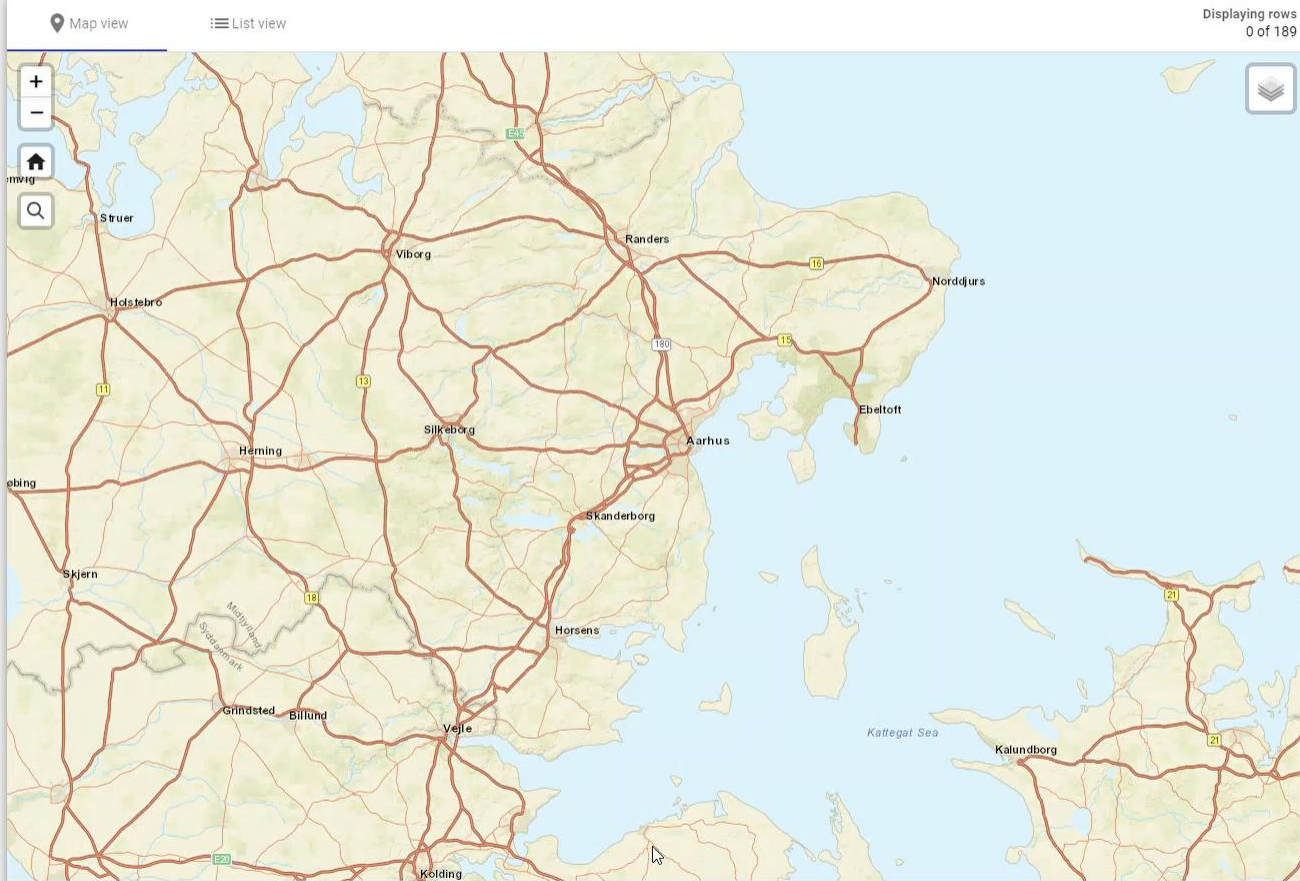
Options

Register sensor

Administrator

AAV\_DONUT

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SOURCES

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# How to Get Started with **Dryp.**



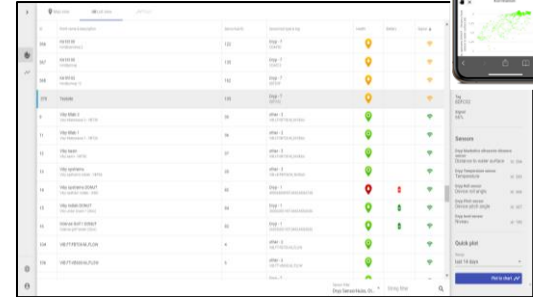
*Enggro  
& Singh*

- Get PoC Start-package with 10 water level sensors
- Scan QR code on each sensor, and it is registered (plug 'n' play, self-configured and -calibrated)
- Log into your web service (Smartphone or PC) and view via preconfigured dashboard



## Expand and Customise your Own System

- Add any other flow-, pressure-, level- or other sensor through standard connectivity protocols
- Log into your web service (Smartphone or PC) and view via preconfigured dashboards
- Your own IT vendor can further customise analyses and dashboards through open source APIs



## Costs of Standard Package

- Standard Start-package for Proof of Concept – 10 ultrasonic water level sensors – 3 workshops over 6 months – online support
- Price for sensors and SaaS services – INR 50,000 per month – Minimum 12 months
- Thereafter INR 5,000 per sensor per month for SaaS service incl. support

## Alternative packages

- **Small** – 5 ultrasonic water level sensors – INR 25,000 per month (min. 12 months)
- **Medium** – 10 ultrasonic water level sensors – INR 50,000 per month (min. 12 months)
- **Large** – 20 ultrasonic water level sensors – INR 100,000 per month (min. 12 months)
- Consulting assistance in planning, setting up, linking to e.g. Smart City system – separate project quotation as per specifications\*)
- Consulting assistance in customisation or in O&M – separate project quotation as per specifications\*)





# Your own Resources

- Water domain expert<sup>\*)</sup>, who can plan DRYP sensor deployment and DRYP application for better Decision Support or Automation
- IT supporter<sup>\*)</sup> who can establish internet connection, link to internal IT databases etc.
- Installation (on rod, under bridge structure or similar) of sensor, and security measures against theft etc.
- Additional sensors and/or other online data such as rainfall, river gauge levels etc.
- IT equipment and routers to link to internet/cloud services



<sup>\*)</sup> Additional consulting services can be provided if needed

## Benefits & Longterm gains of **Dryp.**

- From day-1 own information and decision support system
- Expansion of water utility digitalisation with your own speed (and budget)
- Open source, meaning any local consultant can customise
- Can integrate with any existing SCADA system or Smart City system
- 3-tier support (local consultant, national IT consultant, international SaaS)

**Simple !**

**Low-cost !**

**Open source !**

**Easy !**

## Contact information

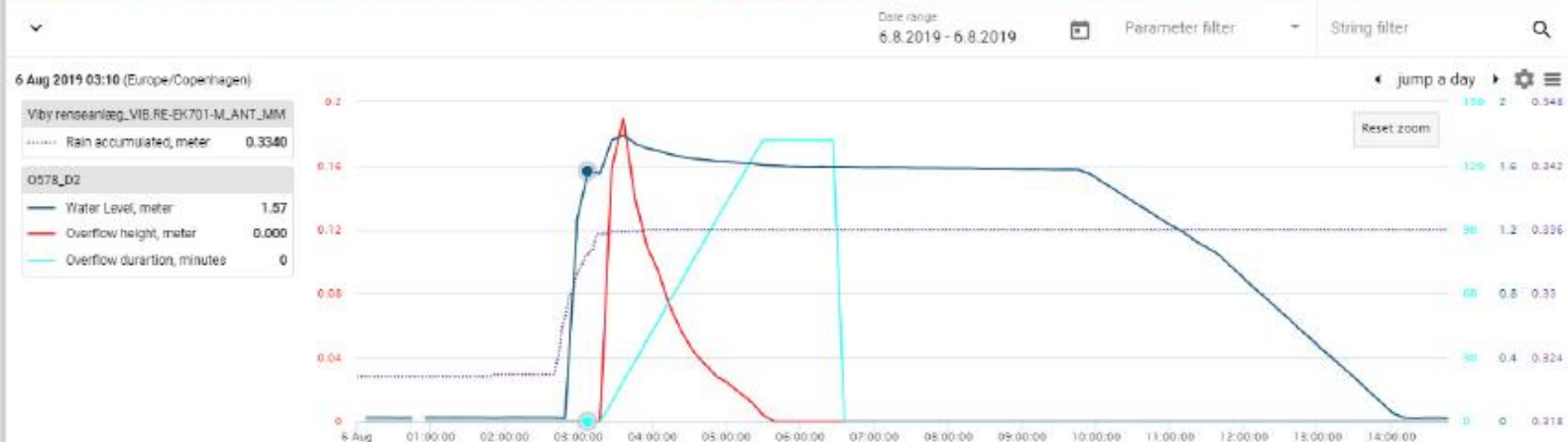
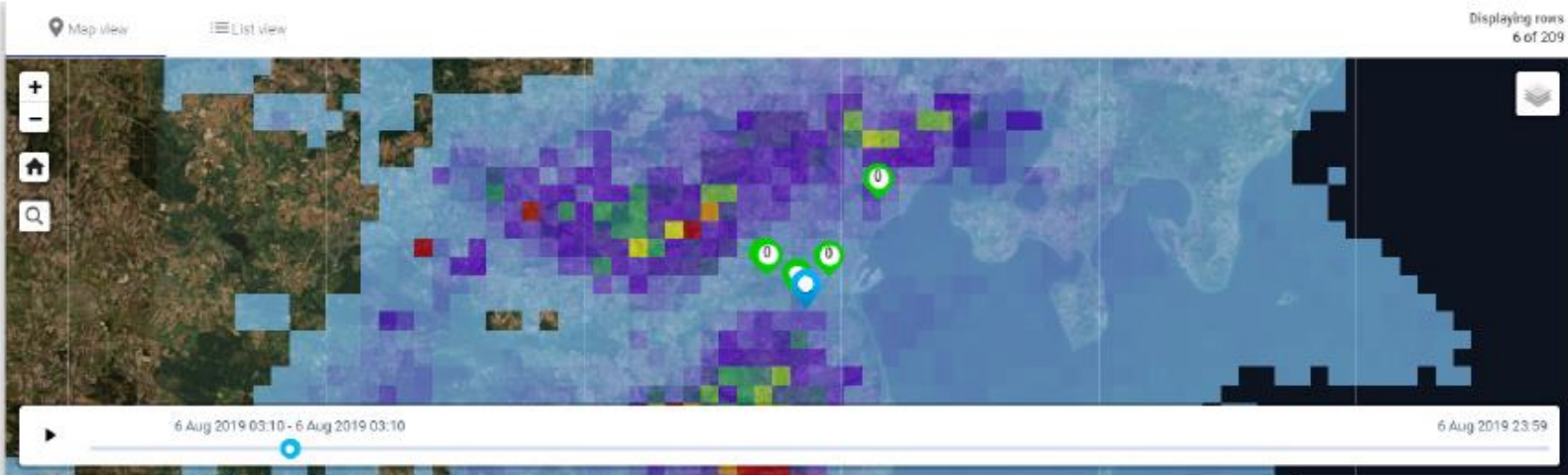
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Thank you!

More brochures online: <https://www.dryp.global/solutions>

Dryp.

- Sensor health
- Data analysis
- Overflow



- Options
- Register sensor
- Administrator