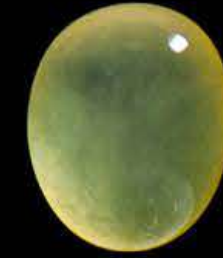


Kirloskar Brothers (Thailand) Limited

WATER PUMPING SOLUTION

PRESENTATION

ask@kirloskar.co.th
www.kirloskarthailand.com



SPP
PUMPS

Kirloskar
Sustainable Smart Pumping Solutions



PRESENTATION HIGHLIGHT

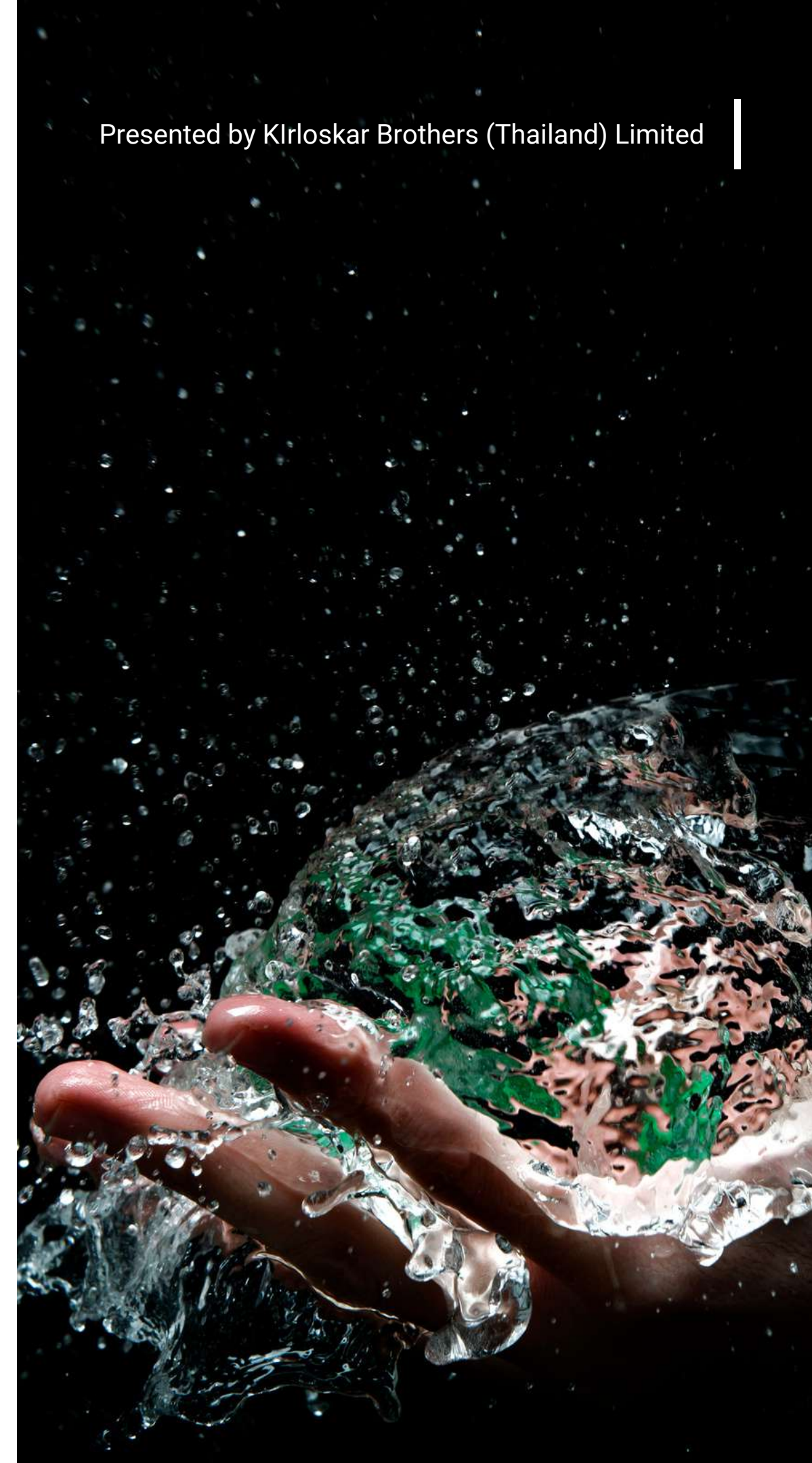
03 Introduction

04 Project Expertise & Application Range

05 Water Pumping

06 Waterpump.ai

10 Monitoring water loss



KIRLOSKAR BROTHERS (THAILAND) LIMITED

KBTL CAPABILITIES

- BOI Promoted facility
- Total floor area : 9,600 m²
- Assembly shop with crane capacity up to 15.000 kg
- Hydrostatic testing up to 120 bar
- Repair and Service Area
- Meeting and Training rooms
- Pump sets and UL / NFPA 20 Fire Pump Systems
- Spare part warehouse / on-stock pump program
- Certified welding, fabrication, machining
- Paint Booth and coatings (including Blygold product)
- Engineering & Design
- Testing pump sets in our test lab up to 500 m³/h – 250 kW

LOCATED

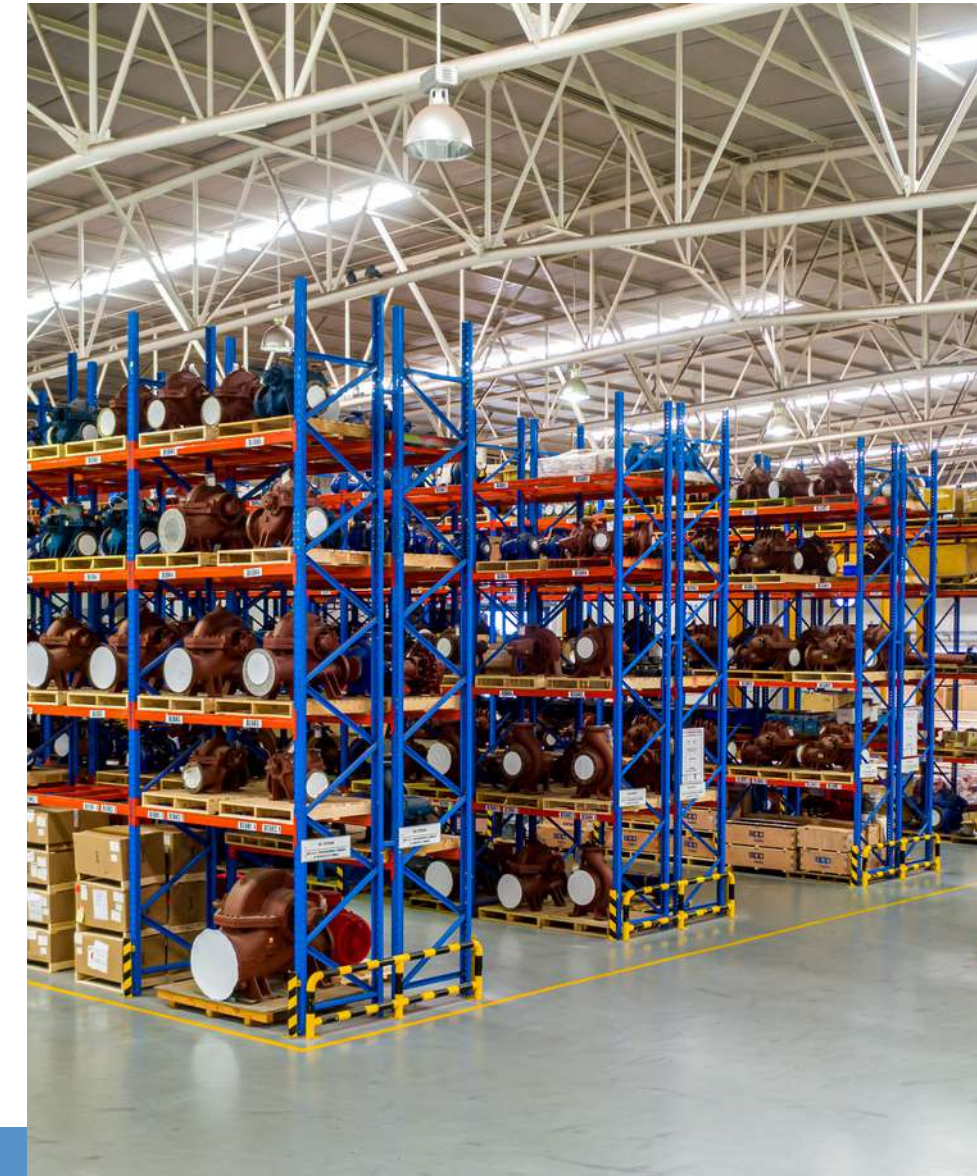
Our head office

50 Sukhumvit 21 Road (Asoke), GMM Grammy Place Office Building, 18 FL., Unit 1805, Khlongtoey-nua, Wattana, Bangkok 10110 Thailand.

Our factory

Amata Nakorn Industrial Estate (Phase 8), 700/711 Moo 1, PhanThong, Phan Thong, Chonburi 20160 Thailand.

OUR GROUP COMPANIES



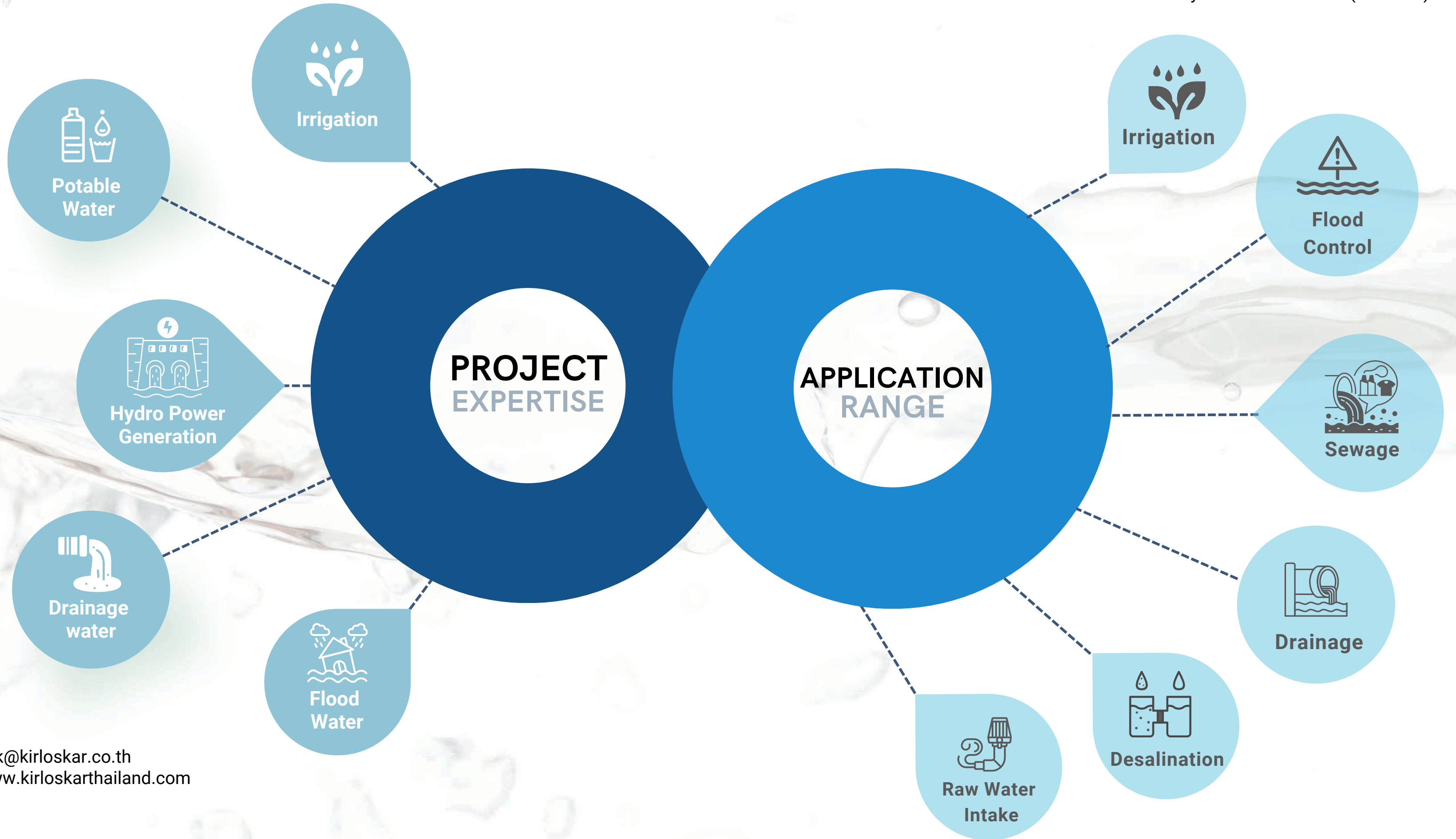


PROJECT EXPERTISE & APPLICATION RANGE

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WATER PUMPING

Vertical Split case

Capacity: on request
Head: on request



Vertical In line

Capacity: 0.7 to 200 m³/hr
Head: Max Pressure 33 bar



Vertical Turbine

Capacity: Upto 1550 m³/hr
Head: Upto 225 m



Booster set

Capacity: 0.7 to 200 m³/hr
Head: Max Pressure 33 bar



Submersible

Capacity: Max to 1300 m³/hr
Head: Max Head 52 m



Split Case

Capacity: 470 to 40,000 m³/hr
Head: Up to 250 m



End Suction

Capacity: 20 to 2100 m³/hr
Head: Up to 150 m



Drainage

Capacity : 200 to 600 m³/hr
Head : 4 to 28 meters



LLC

Capacity: Upto 3500 m³/hr
Head: Upto 200 m



Borewell Submersible

Capacity: Upto 1,300 Liters/min
Head: Upto 561 m



The logo icon for WaterPump.AI, consisting of three stylized, rounded shapes in shades of blue and white, resembling water droplets or pump components.

WATERPUMP.AI

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WATER PUMP



MONITORING SYSTEM

Help you to ensure reliability through real-time monitoring, predictive maintenance. It enhances cost savings via energy efficiency, reduced upkeep. Operational optimization enables efficient water distribution with data-driven insights. Remote accessibility allows timely issue responses anywhere. This system's environmental impact curbs energy consumption, promotes water efficiency, aiding sustainability.

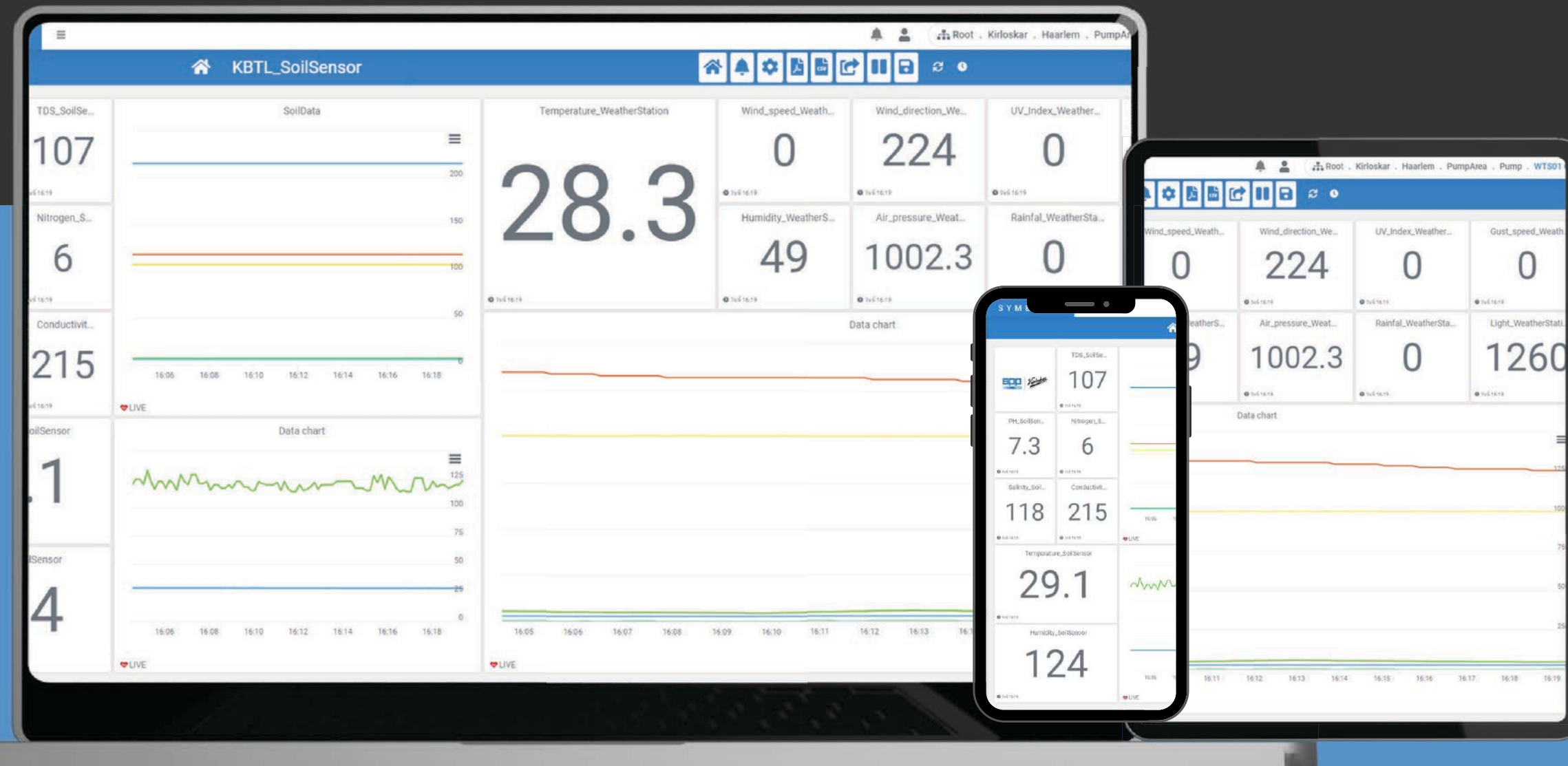


CUSTOMER VALUE PROPOSITION

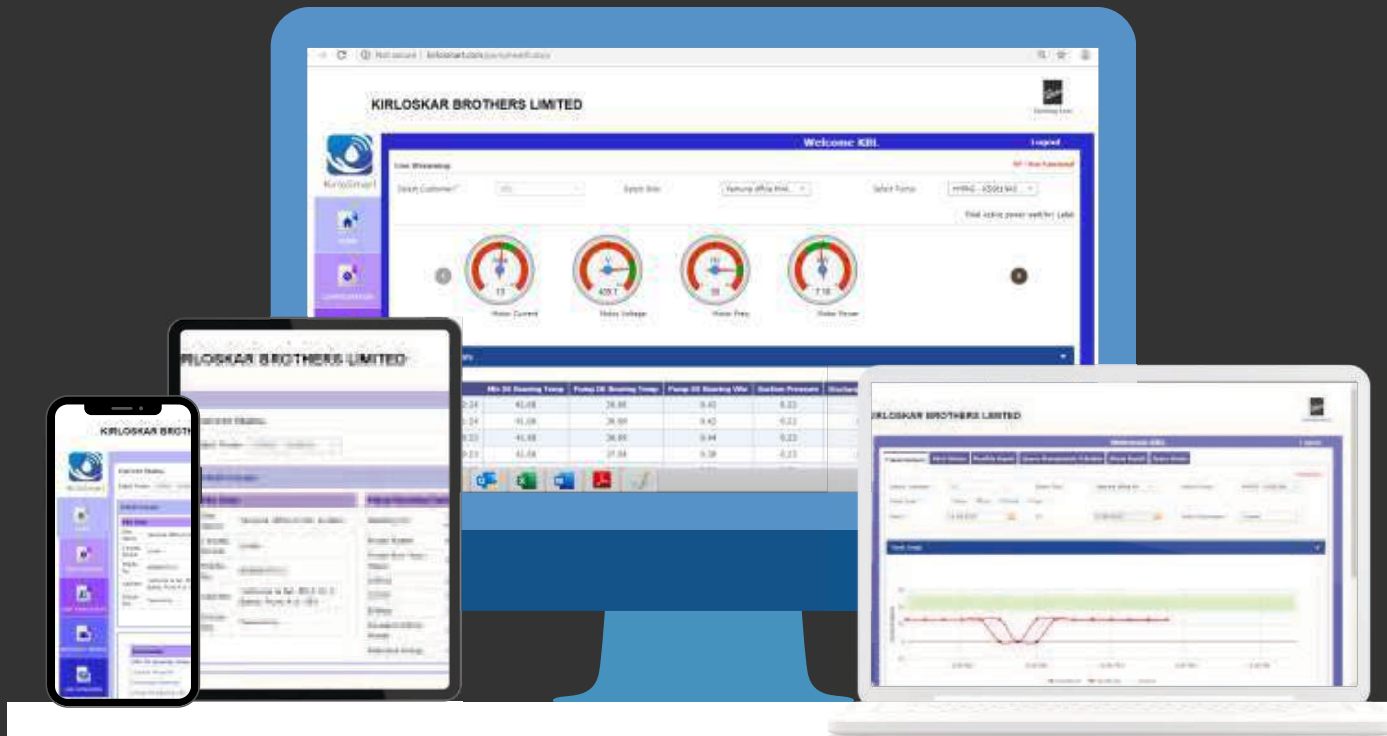
- 24/7 Monitoring
- Remote Access Anywhere
- Secure Data Storage
- Instant Alerts
- Inspection Reports in the Cloud
- Reduce Human Error
- No Lost Data & Records
- Never Disconnected



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WATERPUMP.AI

IoT REMOTE MONITORING SOLUTIONS

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01

UNIQUE FEATURES

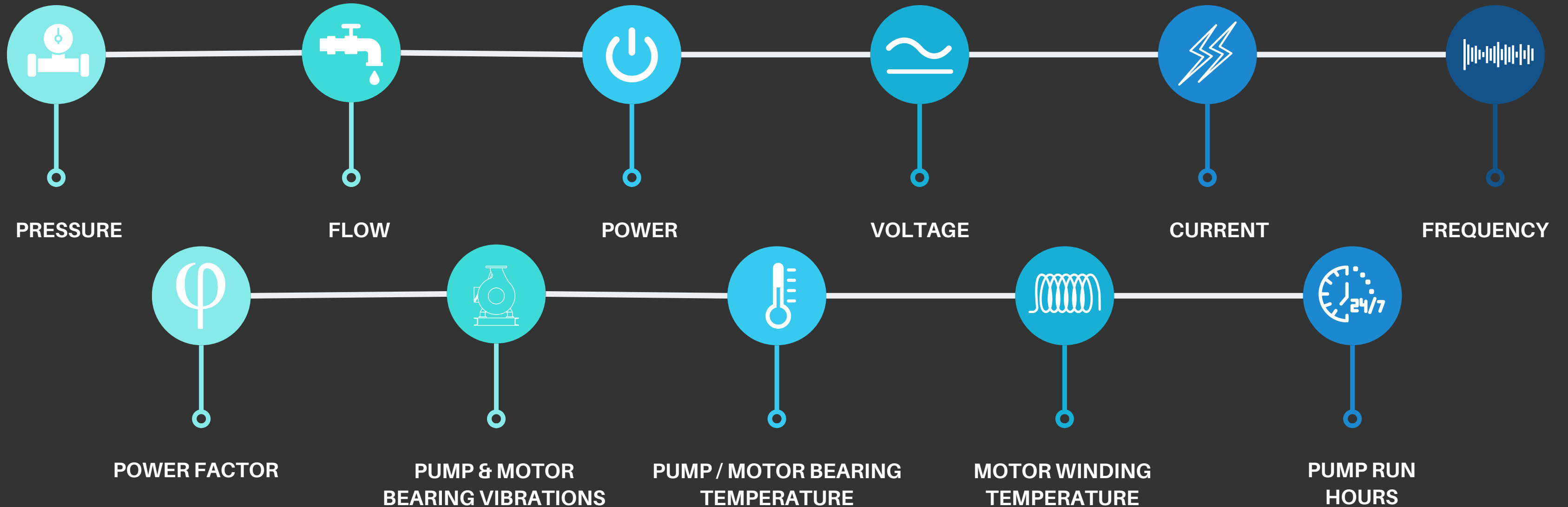
- Predictive maintenance alerts with probable causes (SMS & email)
- 24 x 7 Real Time Monitoring, Historical Data & Trend monitoring, Graphical Indications
- Remote Diagnostic of the issues at early stages
- Pump Spares management – Estimation of service life
- Storage of data in event of communication failure
- User configurable sensors
- Communication mode selection (Mobile Data (GPRS) / Ethernet)
- Cost effective, Simple, Plug & Play
- Facilitates easy Integration with existing equipments

02

BENEFITS

- Reduces operational cost, repair cost, labor hence improves profitability
- Reduces unplanned breakdown, improves process / plant Safety & reliability
- Increased equipment life & less down time
- Eliminates cost of assets like Servers, Modems, Computers etc.
- Improves equipment efficiency

PARAMETERS



INSTRUMENTS EXAMPLES



Sensors
mounting



Wire water
level sensor



Triaxial
Vibration
sensor



Wire water
level sensor
(Ultrasonic)





PRESSURE MANAGEMENT TO AVOID WATER LOSS

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NON-REVENUE-WATER (LEAKAGE) PREVENTION WITH PRESSURE MANAGEMENT

Water loss reduction

The pressure level in the network has to be kept and controlled on a minimum level, which is just necessary, to maintain the actual water demand. Too low pressure can cause pipe vacuum, booster pumps of high rises, ground water leaks into the water pipeline

Reducing pipe bursts

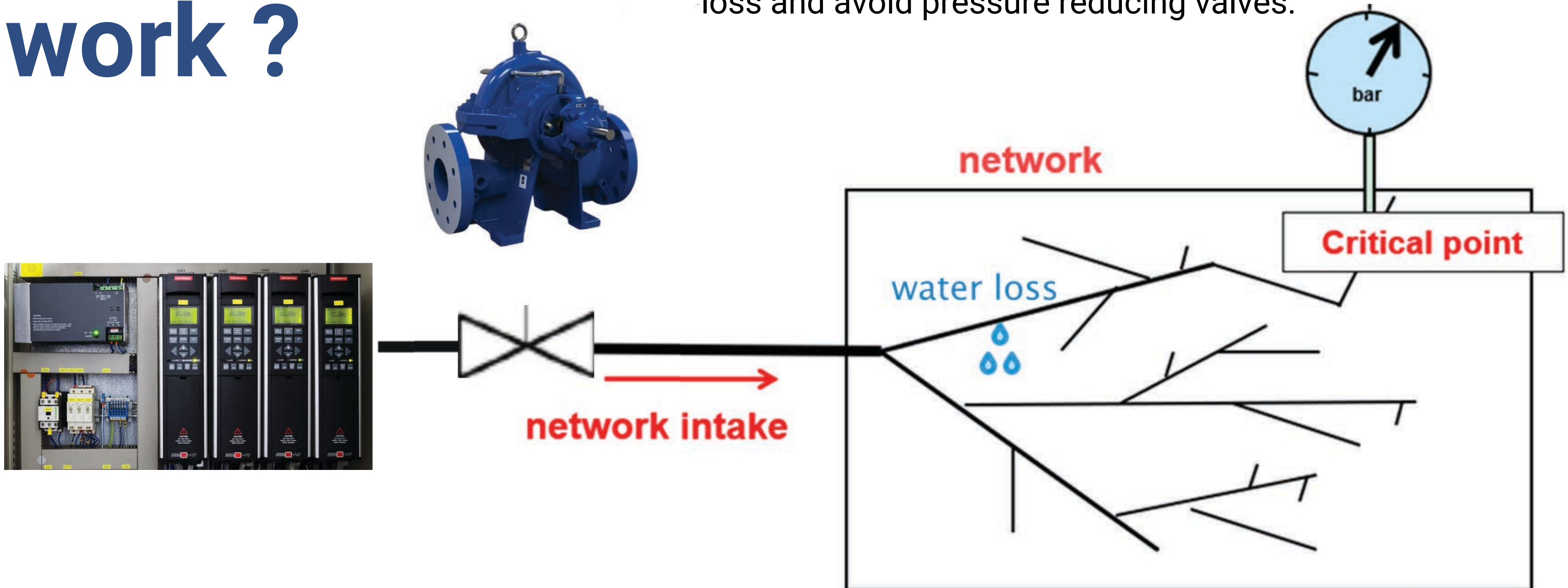
The amplitude of the pressure variation should be kept as small as possible, to prevent the network from damages . Pipes always break at night.

Create a District Metering Aea (DMA)

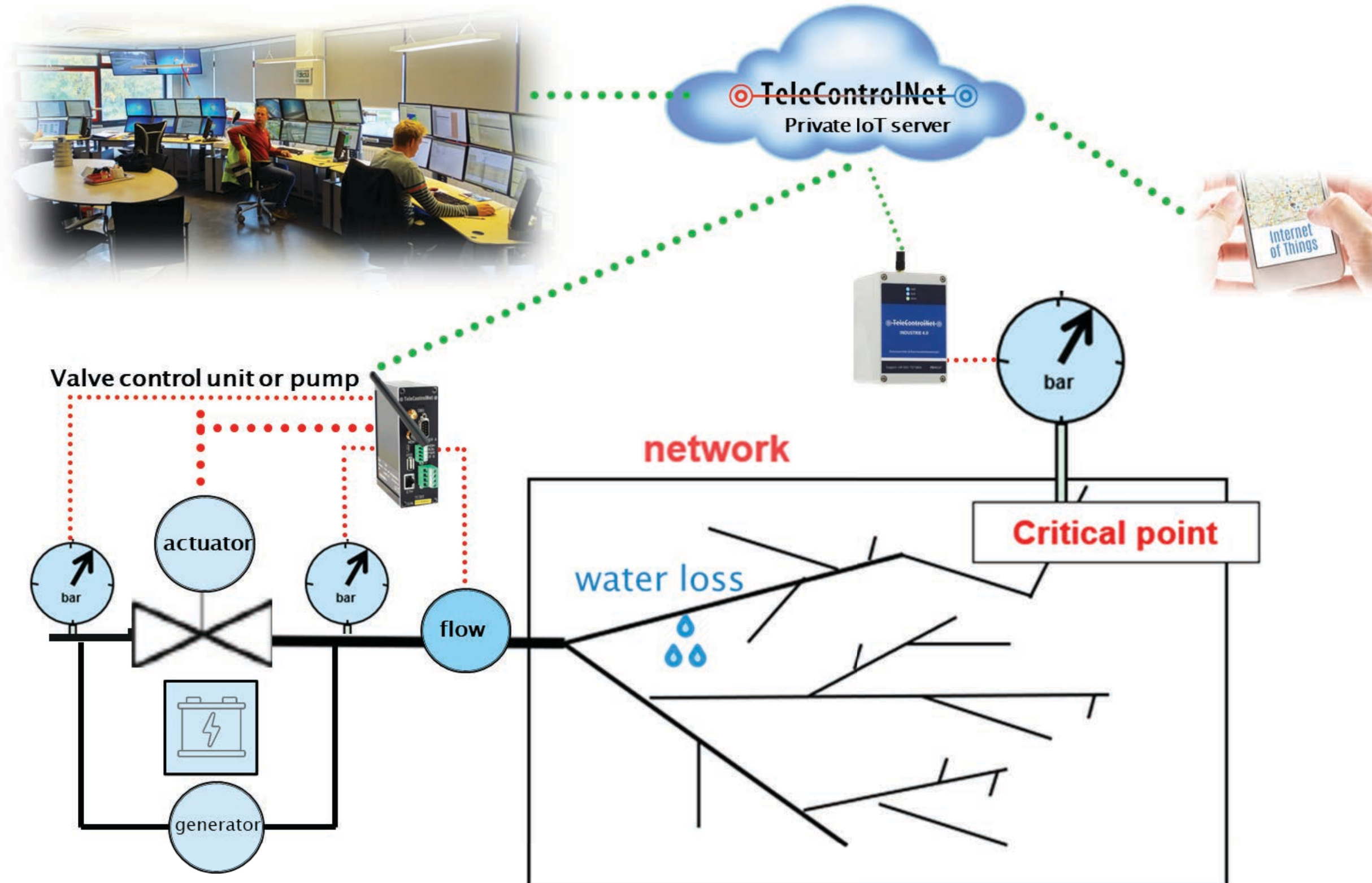
Determine the leakage spot with acoustic, flow and pressure based leak detection. (Leaks are quickly and precisely found on every pipe material without digging.)

How does solution work ?

- Manage pressure via pumps controlled by VFD and AI software reducing energy consumption. Water loss and avoid pressure reducing valves.



District Metering Area (DMA)



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Pumping Solutions



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