

VORTEX.IO

“KEEP AN EYE
ON OUR RIVERS,
ANYTIME & ANYWHERE”

www.vortex-io.fr/



EXTREME FLOODING EVENTS ARE RISING

INCREASING WORLDWIDE NEED

FOR HYDROLOGICAL REAL-TIME MONITORING SOLUTIONS!



x 2,5
IN 20 YEARS



1/3 of Europe
THREATENED



EXTREME FLOODING EVENTS ARE RISING

IN-SITU STATE-OF-THE-ART SOLUTIONS

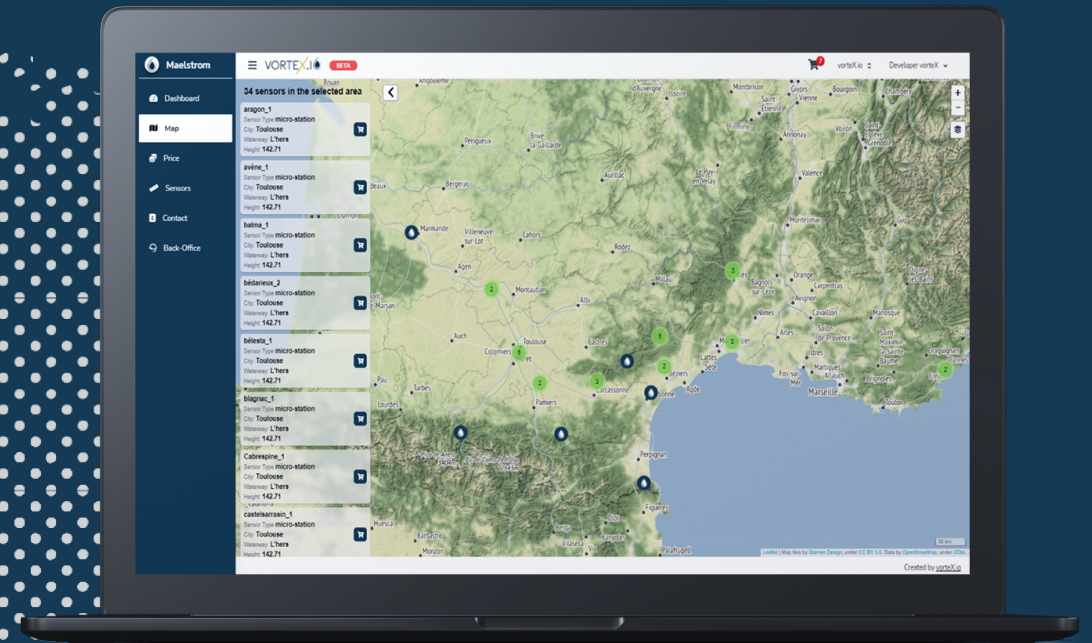
ARE OUTDATED & NON SCALABLE

A few %
WORLDWIDE
WATERCOURSES
MONITORED



HYDROLOGICAL DATA ANYTIME & ANYWHERE

WE OFFER A REAL-TIME HYDROLOGICAL MONITORING AND NOTIFICATION SERVICES
BASED ON AN IN-SITU CONSTELLATION OF VORTEX.IO INNOVATIVE SENSORS

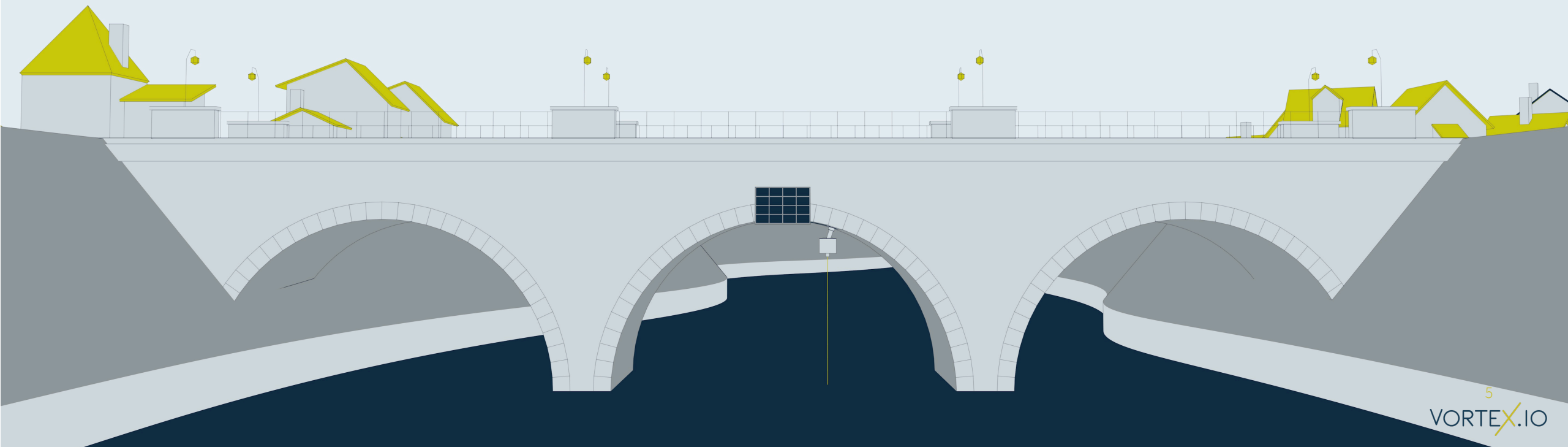


A UNIQUE COMBINATION OF AN

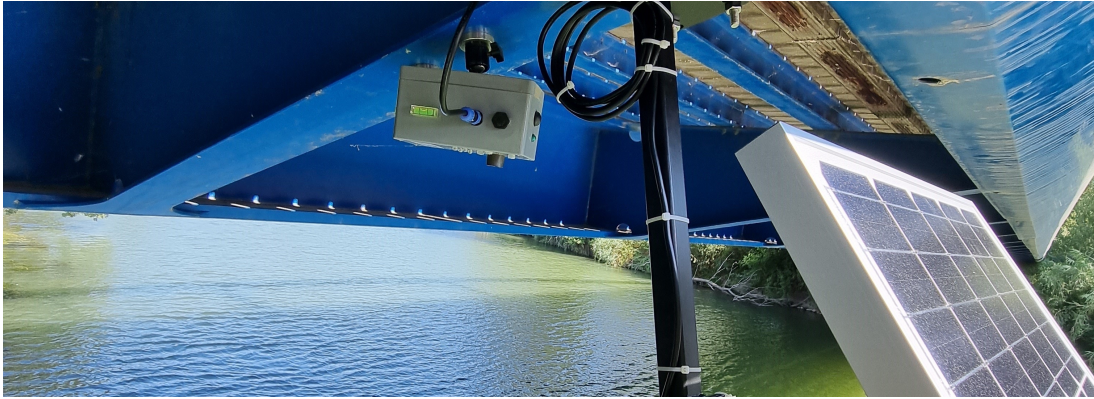
INNOVATIVE SENSOR

AND A

DISRUPTIVE DISTRIBUTION MODEL



SERVICES BASED ON A UNIQUE COMBINATION



A REMOTE SENSING INNOVATIVE SENSOR : **THE MICRO-STATION**

- Patented space transfer technology
- Fast installation and commissioning
- Digitalized maintenance & remote management



A SELF-SUBSCRIPTION SERVICE THROUGH AN ALL-INCLUSIVE **SAAS PLATFORM**

- Market place system for data subscription
- Real-time data dissemination
- Real-time notifications

AN INNOVATIVE SENSOR: THE MICRO-STATION



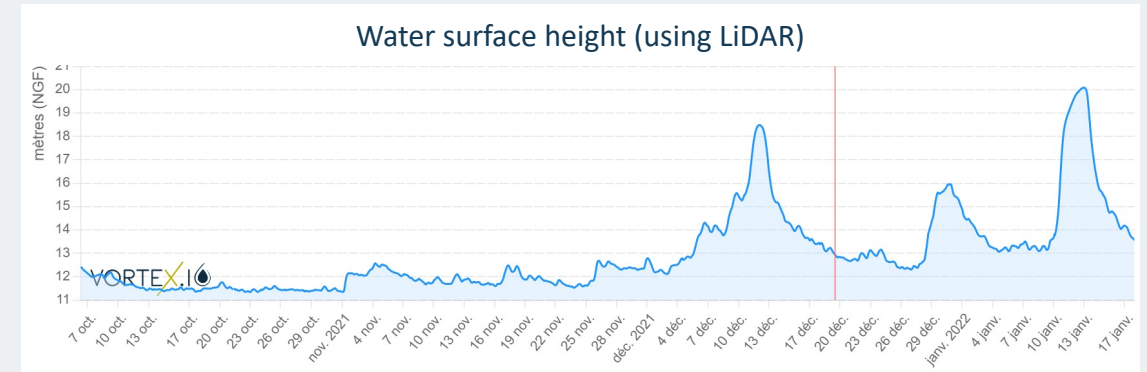
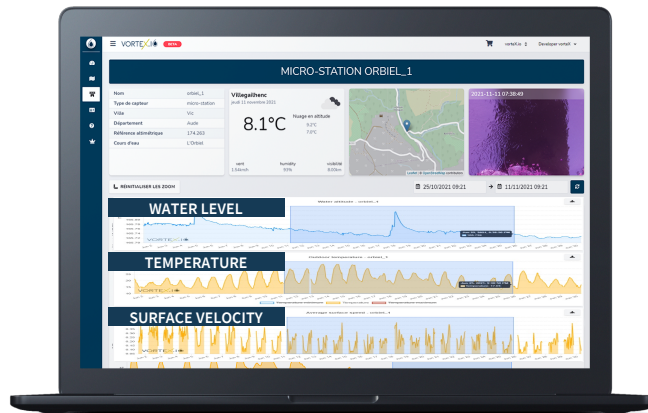
- Compact and lightweight
- cm-level accuracy LiDAR sensor
- 8 Mpx camera
- Fully autonomous
- Fully connected
- Real time measurements:
 - ✓ Water surface height
 - ✓ Water surface velocity
 - ✓ Images & videos

A DISRUPTIVE DISTRIBUTION MODEL

A SELF SUBSCRIPTION SERVICE THROUGH AN ALL INCLUSIVE SAAS PLATFORM

- Market place system for data subscription
- Real-time data dissemination
- Real-time notifications

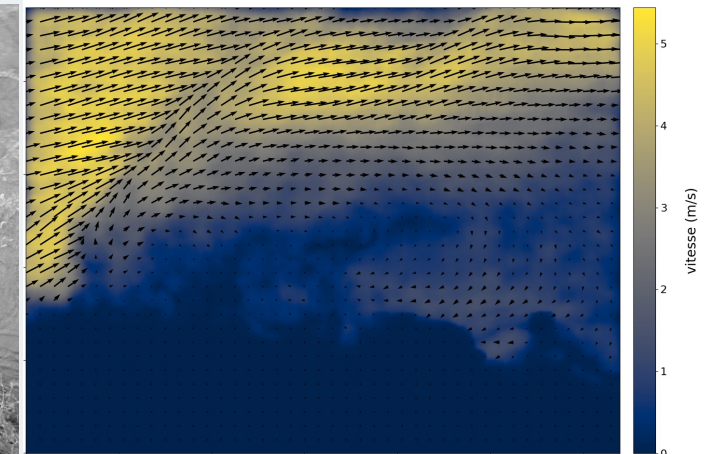
<https://maelstrom.vortex-io.fr>



Snapshot



Water surface velocity



Measured by the combination of ⁷ LiDAR and Camera VORTEX.IO

CO-FOUNDERS: A COMPLEMENTARY DUO

Jean-Christophe Poisson

CTO & COORDINATION MANAGER

Remote sensing & signal processing
expert in space altimetry

jeanchristophe@vortex-io.fr

+33 (0)7 84 90 39 97



Guillaume Valladeau

CEO & BUSINESS MANAGER

Engineer & expert
in satellite hydrology

guillaume@vortex-io.fr

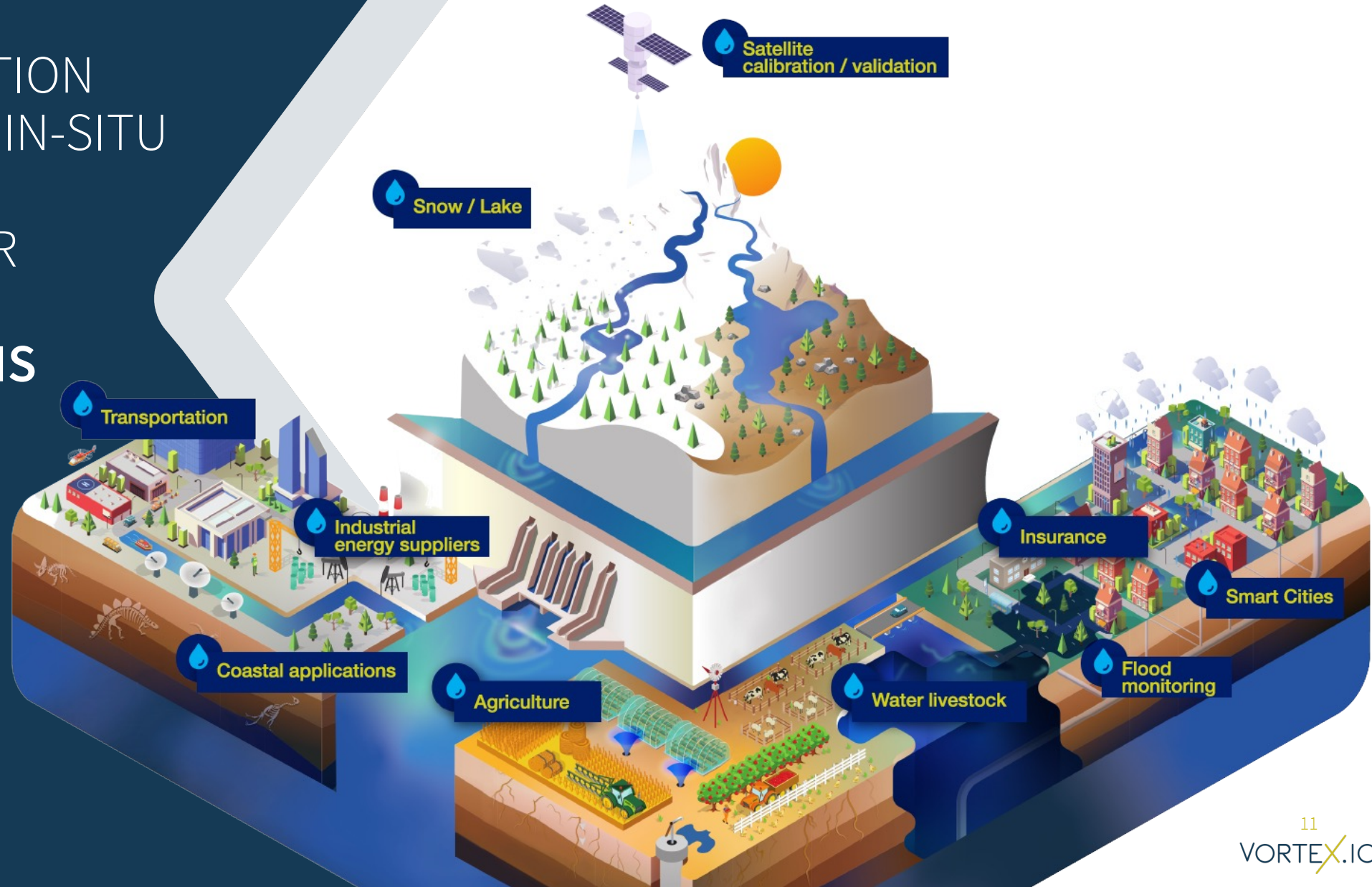
+33 (0)7 71 92 76 78

A 10-PERSON OUTSTANDING TEAM FOR A UNIQUE OPERATIONAL SERVICE
IT & PLATFORM, SUPPLY CHAIN, BUSINESS DEVELOPMENT, ADMINISTRATIVE SUPPORT



LARGE NUMBER OF APPLICATIONS

THE CONSTELLATION OF LARGE-SCALE IN-SITU MEASUREMENTS CAN BE USED FOR A WIDE RANGE OF APPLICATIONS



TOWARDS AN ANYTIME/ANYWHERE HYDRO-METEOROLOGICAL DATABASE

2021

2022

2023

2024-2025

SERVICE PRODUCT

SCALABLE
MICRO-STATION

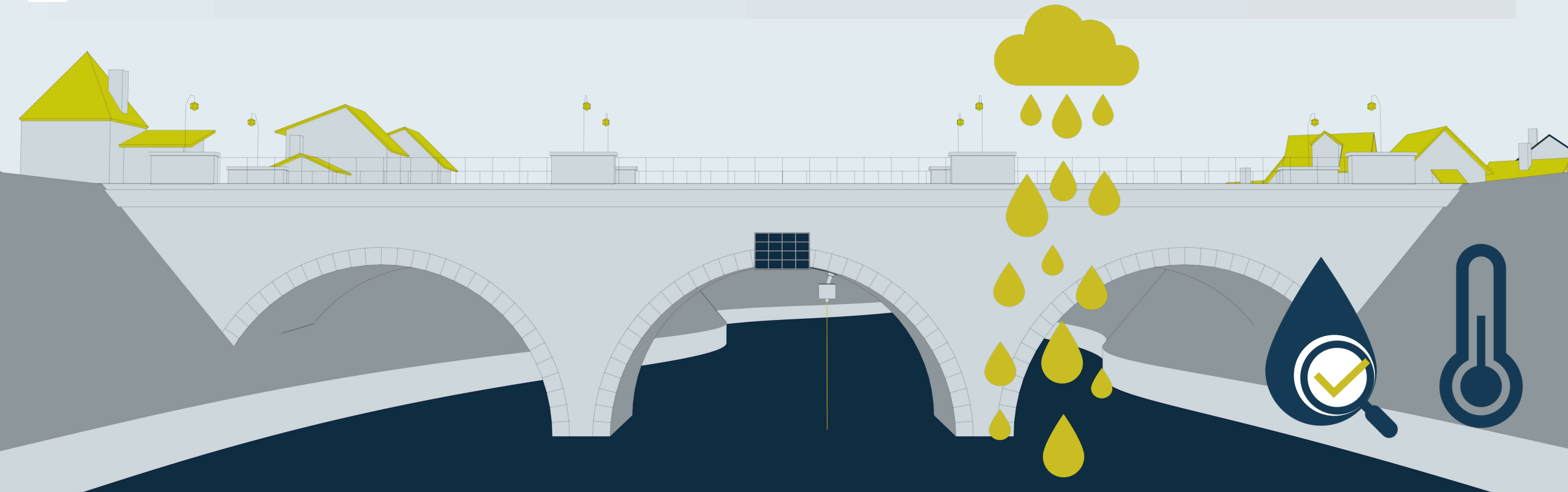
SPACE IOT CONNECTIVITY

NEW HYDRO-METEOROLOGICAL PARAMETERS FROM REMOTE SENSING TECHNOLOGIES

SAAS / DAAS WEB
PORTAL

LARGE SCALE MICRO-STATION DEPLOYMENT IN FRANCE & EUROPE

INTERNATIONAL
DEPLOYMENT



Thank you.



www.vortex-io.fr