Interreg
North Sea Region
NON-STOP
European Regional Development Fund
EUROPEAN UNION

# FLUVES

## FLOW MONITORING

EVERY METER, EVERY MINUTE

# FLUVES

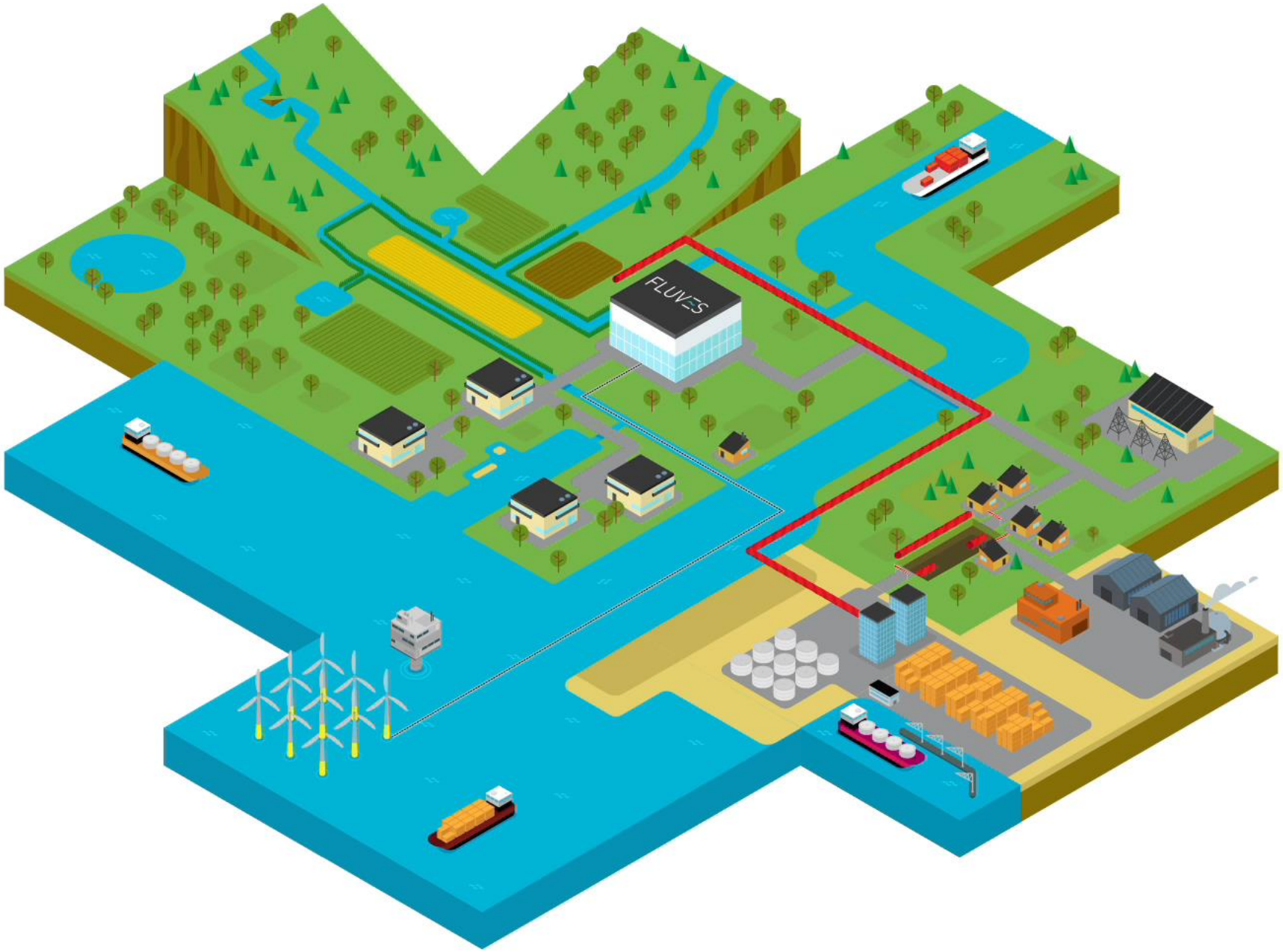
Monitor every meter every minute

Predictive maintenance platforms including

Sensors

Data Analytics

Web portals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# IoT

2010
**10 000 €**

→

2015
**5000 €**

→

2020
**500 €**

→

2021
**< 500 €**

GPRS

LoRA

NB-IoT

LTE-M

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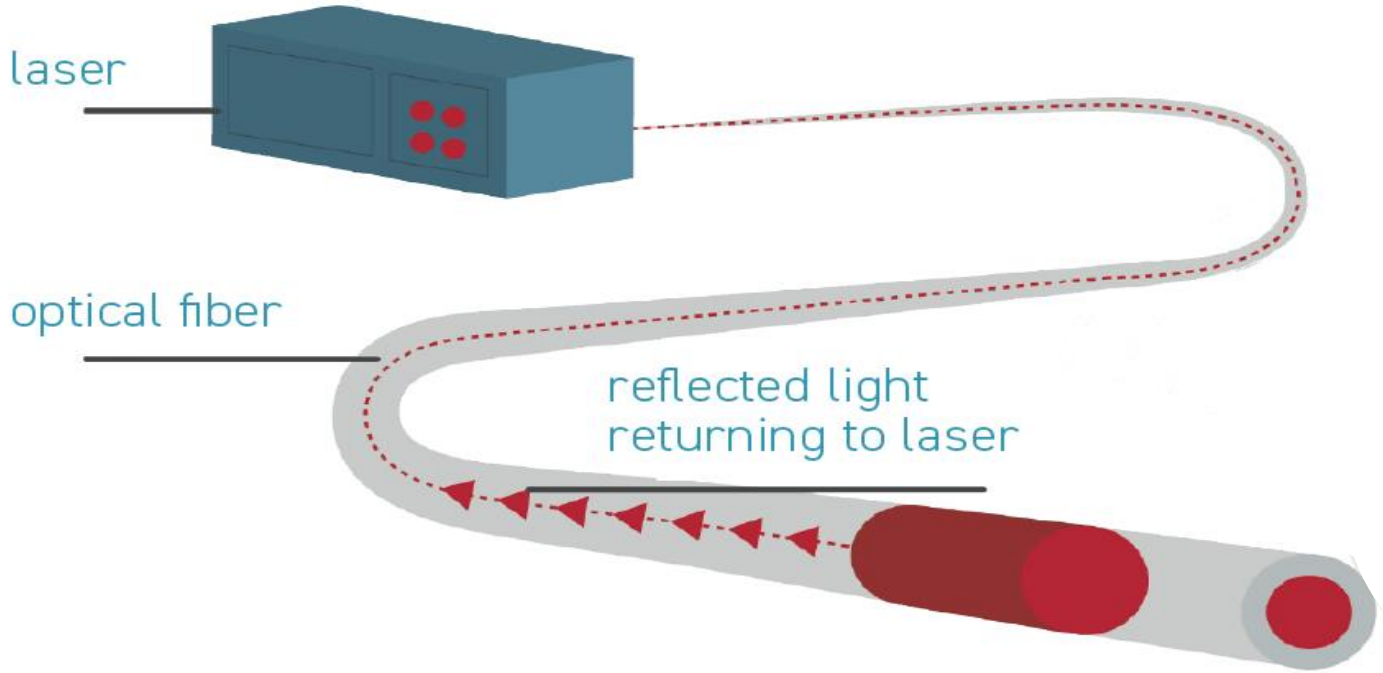
# **Fiber optic** cable = chain of 10 000's of sensors




**Temperature**

**Strain**

**Acoustic**

ADVANTAGES
Fiber Optic
Sensors

Only light

Every meter
a sensor

Extremely long
ranges

Ultra low
cost/sensor

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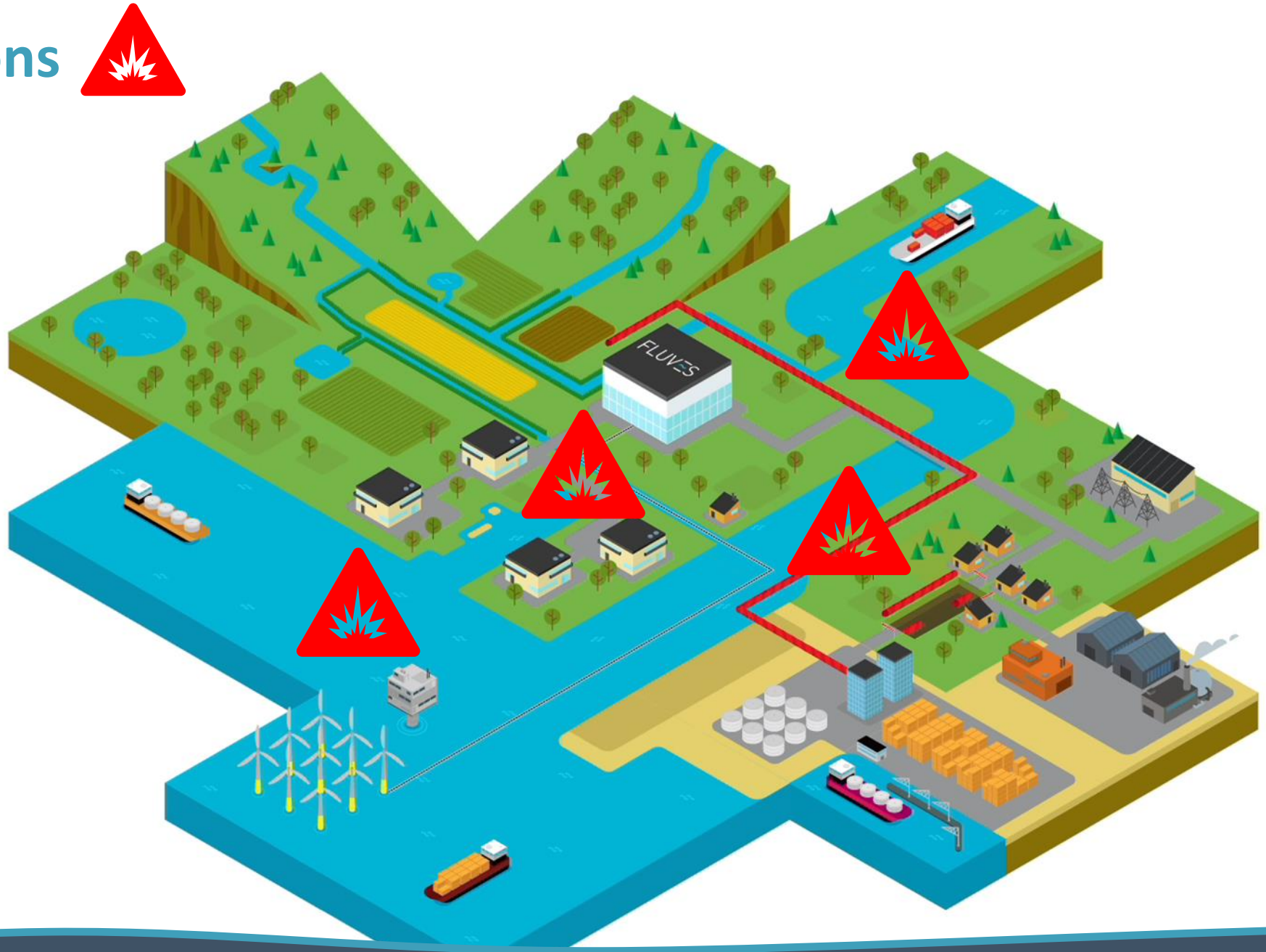
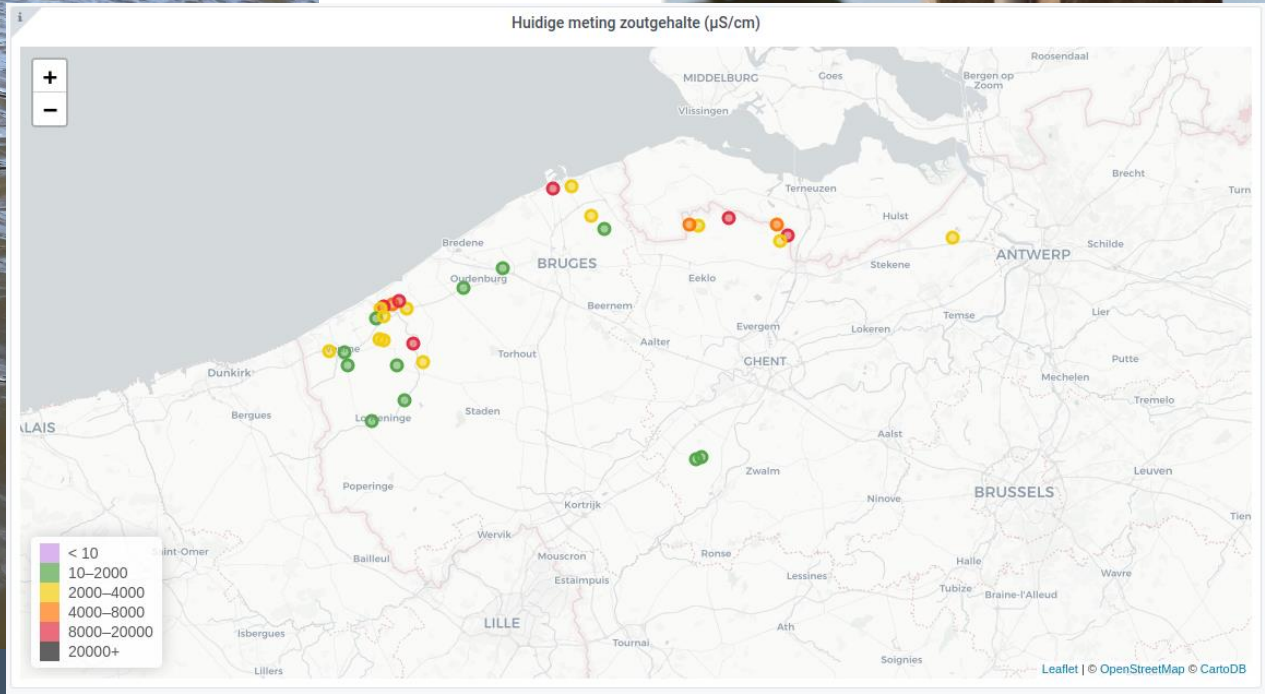
# Applications



# Status water bodies

## Salinization → IoT EC-sensors

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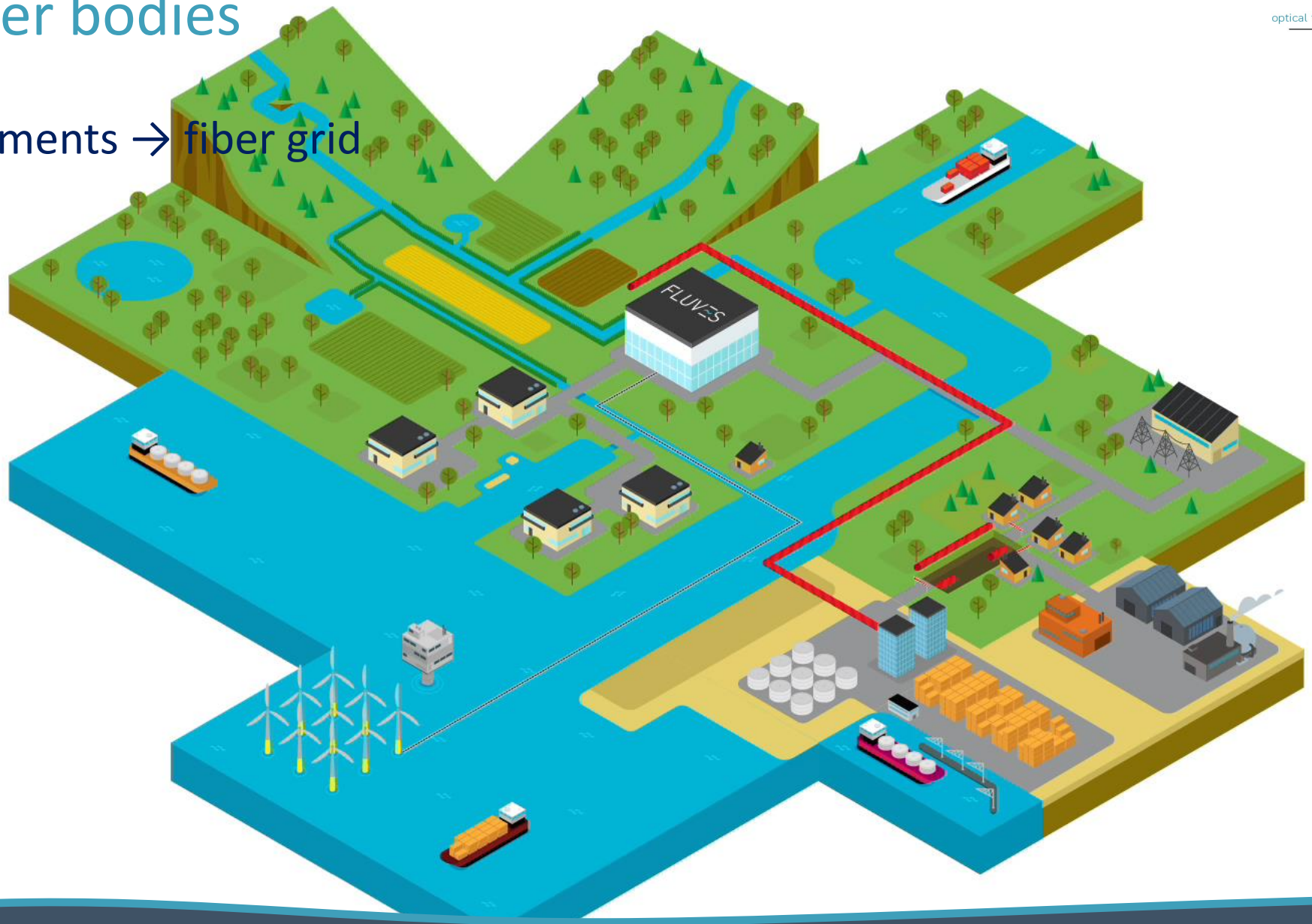
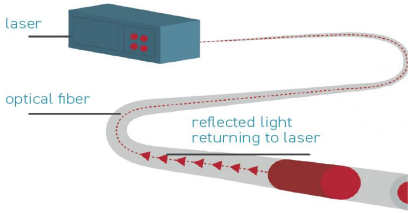
# Status water bodies

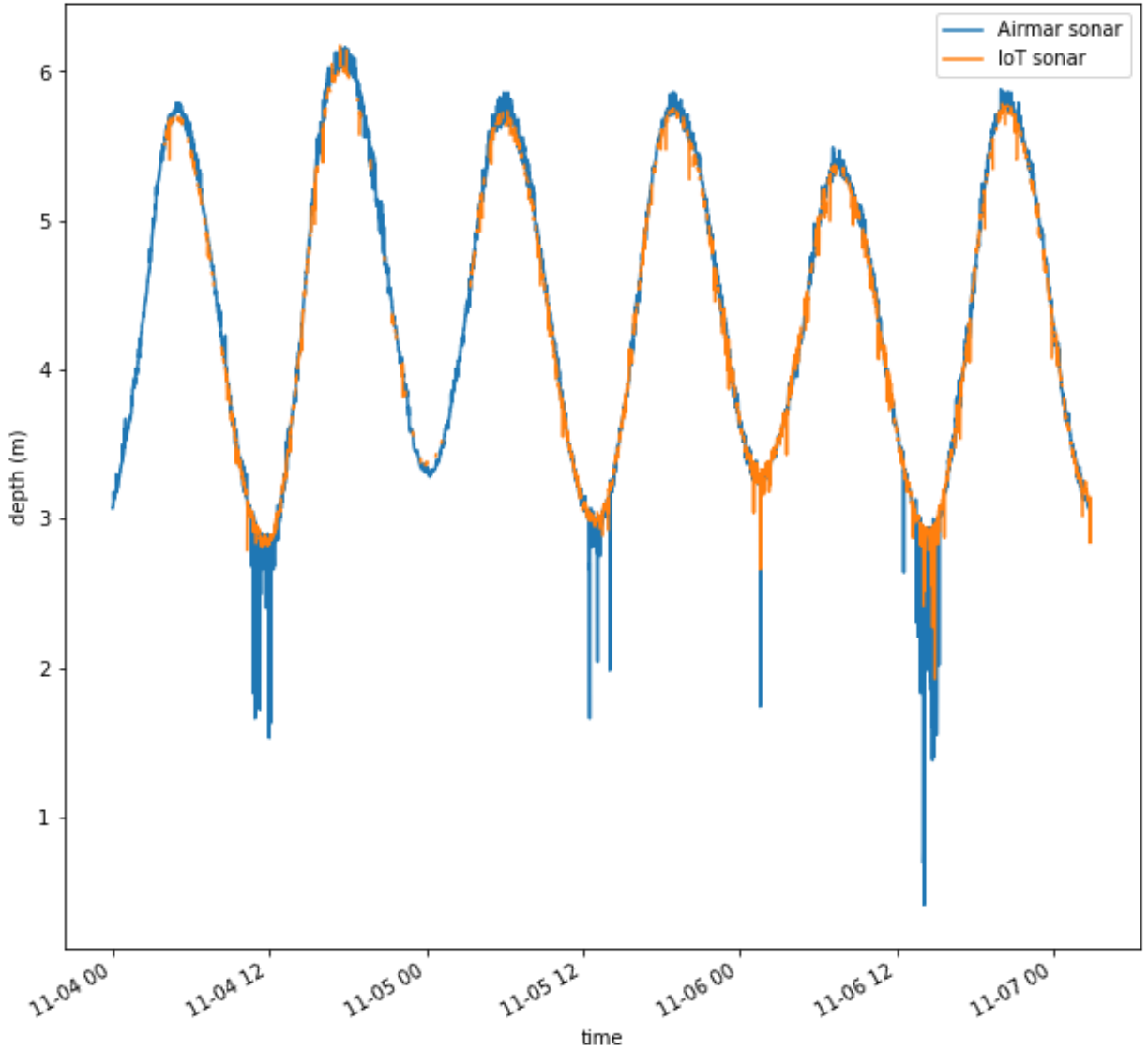
Polluted sediments → fiber grid



# Status water bodies

## Lock gates sedimentation → IoT sonars



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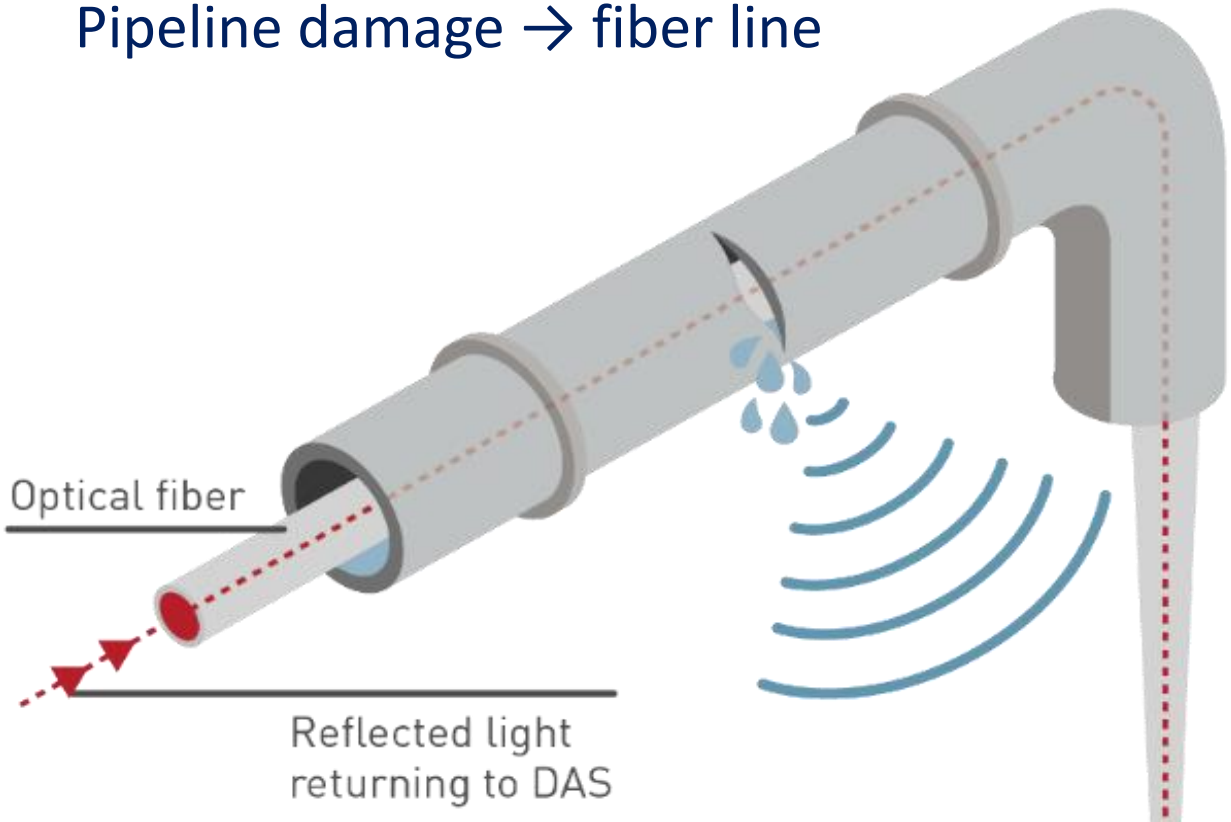
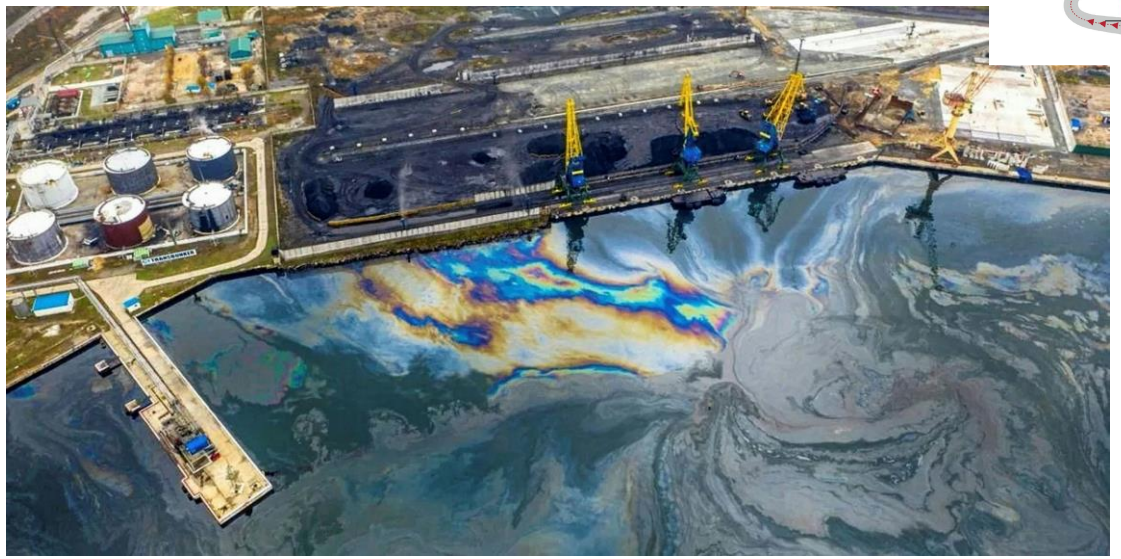
# Source control

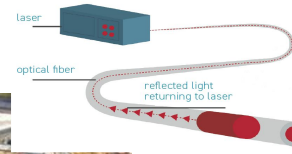
Sewer overflow → IoT tilt meters

# Source control

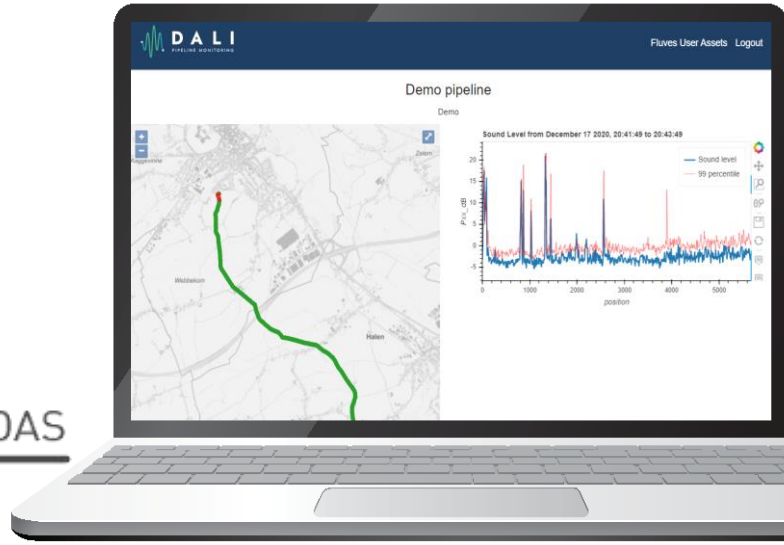
## Pipeline damage → fiber line



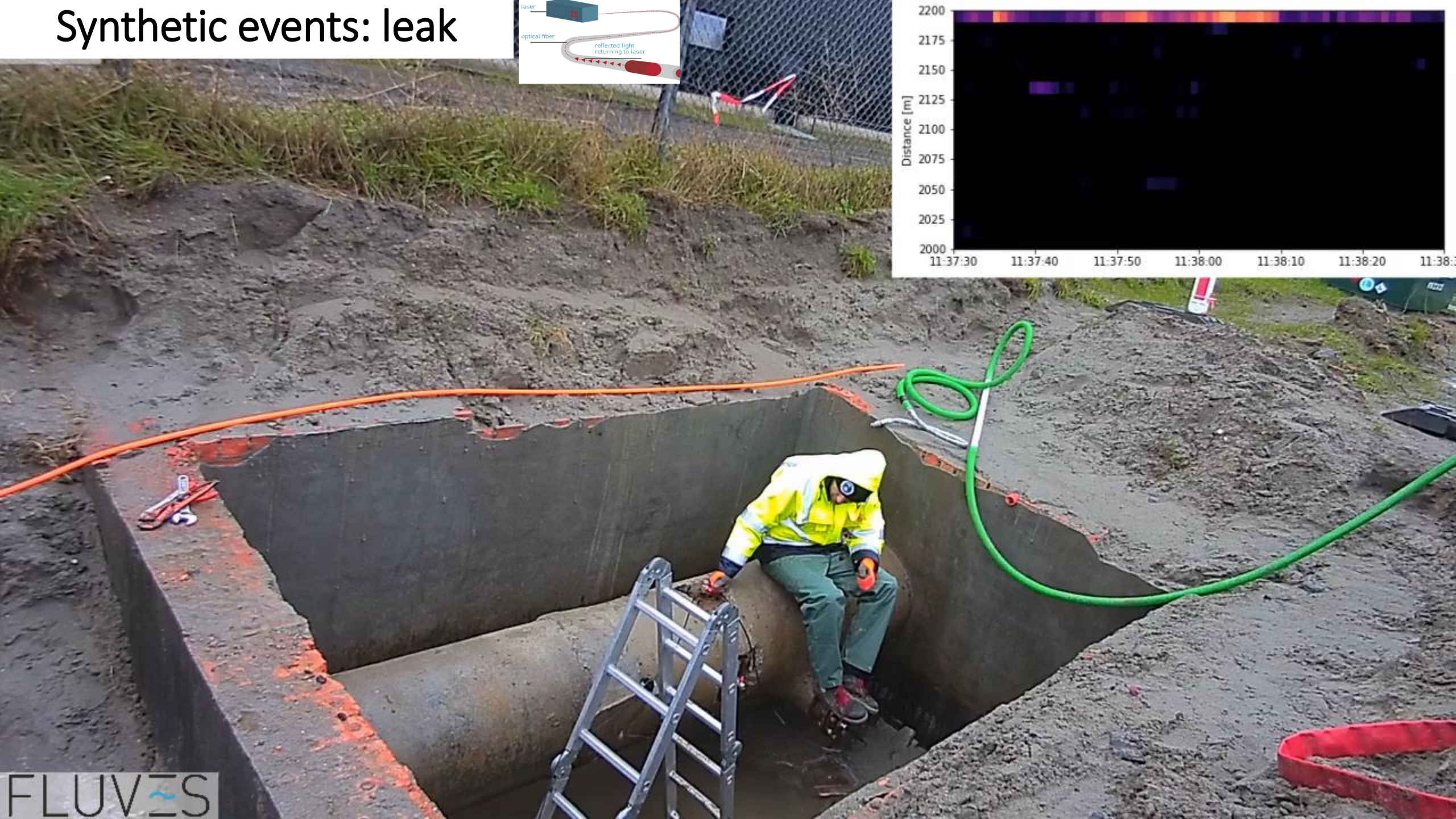





DAS



# Synthetic events: leak



# Thank you!

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