Case study

BoatSense - Waterway Traffic Monitoring

MOBILITY SENSING

BoatSense

BoatSense technology applied to monitor Dutch waterway traffic and optimise lock and bridge operations

Case

Bridge openings cause severe congestion and impatient road users. Likewise, bridge operators also want to avoid traffic jams on the waterway.

If a complete view of all vessel traffic is available, locks and bridges can be operated more efficiently.

The Province of Zuid-Holland called on Mobility Sensing to create a complete and continuous picture of all vessel traffic on their inland waterways.

"BoatSense is a safe, secure and economic solution that provides waterway operators with a continuous live picture of all vessel traffic on their waterways. The project in Zuid-Holland proved the reliability of BoatSense."

Tom van de Ven
Mobility Sensing

Tom van de Ven
Founder Mobility Sensing

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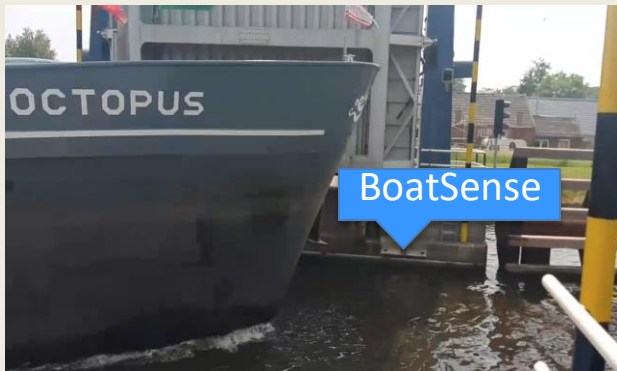
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BoatSense

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Approach

BoatSense sensor pods were deployed on the main waterways.

Each BoatSense device detects every individual passing vessel and determines vessel length, sailing speed and direction. The compact, autonomous, IoT sensor pods collect live data on vessel traffic. A data feed reports every single vessel passage in real-time.

Outcome

The BoatSense data allowed the Province of Zuid-Holland to build a digital twin of their waterway network, allowing the development of more efficient ways to operate locks and bridges.

New developments

Mobility Sensing is looking for partners to develop a solar powered version of BoatSense that can be installed anywhere along of waterways.

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