

TRAFFIC SITUATION IN HAMBURG IN FIGURES

3,900 KM OF ROAD
771,573 REGISTERED CARS/YEAR
4,000 BUILDING MEASURES/YEAR

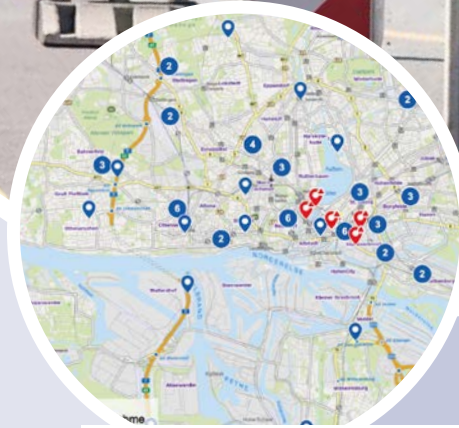
30,000 BEACONS

FOR BETTER TRAFFIC FLOW THROUGH SENSOR INTEGRATION



Find out more about the GeoNetBake project.

Current status in Hamburg: no registration of building measures in real time



Current representation of construction sites as points



Simplified idea, illustrative representation of a construction site as an area

THE OBJECTIVE OF THE INNOVATIVE, PIONEERING GEONETBAKE > IN FUTURE ALL CONSTRUCTION SITES SHOULD BE REPRESENTED GEOREFERENCED, IN REAL TIME AND AS AN AREA IN DIGITAL MAPS.

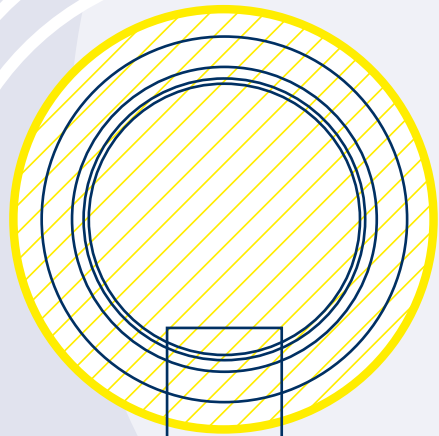
The GeoNetBake project is a joint project of the City of Hamburg and the federal government. The project is being implemented under the direction of the Landesbetrieb Straßen, Brücken und Gewässer (LSBG) in cooperation with selected sensor manufacturers. Hamburg, as the forerunner and host of the ITS World Congress 2021, will present the anchor project "live im Einsatz" (live in use) with all its advantages for a secure traffic flow.

THE GEONETBAKE PROJECT



LSBG
Landesbetrieb Straßen,
Brücken und Gewässer
Hamburg

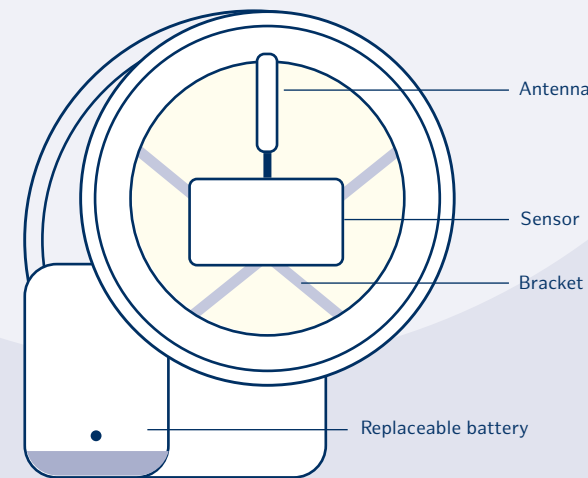




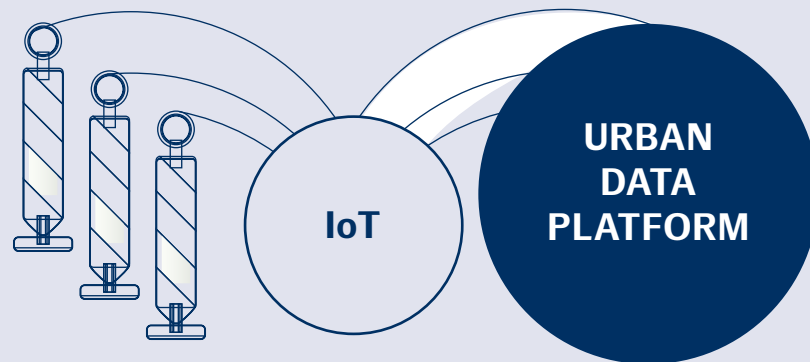
SENSOR INTEGRATED INTO THE WARNING LIGHTS

The installed sensor registers the georeferenced location and transmits the data to the "Urban Data Platform". It also registers action differentiations like relocation of the beacon or the impacts of accidents, as well as the battery status.

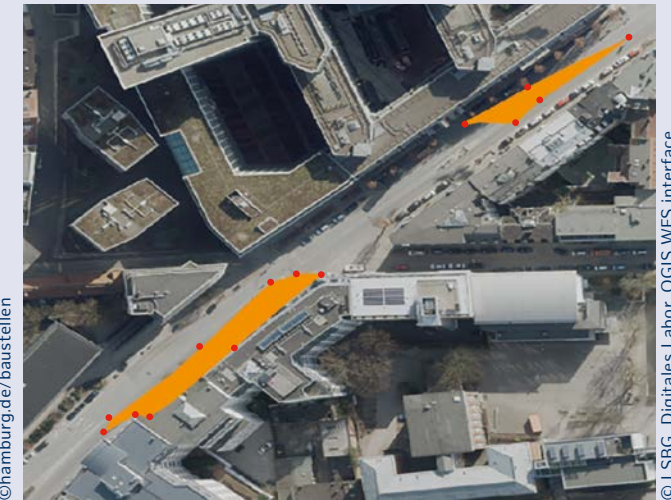
Warning light with integrated sensor



Data transmission from the sensors via the specialised procedure to the Urban Data Platform



Current representation at hamburg.de/baustellen, entered manually



In future, sensor-supported, graphic representation; digitally registered

© LSBG, Digitales Labor, QGIS WFS interface

USES AND ADVANTAGES OF THE SENSOR-SUPPORTED UPGRADE

- Detailed overview for City of Hamburg of all construction measures in real time
- Support of official approval, inspection and accounting procedures
- Data accessible to third parties (e.g. police, navigation services, line operators, traffic jam forecast, traffic service)
- Consideration of the data for traffic planning and control of additional building measures
- Overview in real time for construction execution
- Early recognition of sources of danger and anti-theft measures
- Battery status registration of the warning lights for more efficient replacement

FUNCTION

- Registering of digital data in real time by the sensor integrated into the warning light
- Precise determination of position, traffic lane, direction of travel, as well as the beginning and end of the construction site
- Automatic registering of all construction sites in Hamburg
- Visualisation as polygons in digital maps
- Usage of the data via the central data platform "Urban Data Platform Hamburg"
- Solution can be used anywhere in Germany

A SENSOR-SUPPORTED UPGRADE



LSBG
Landesbetrieb Straßen,
Brücken und Gewässer
Hamburg



Alberding GmbH

ifak

