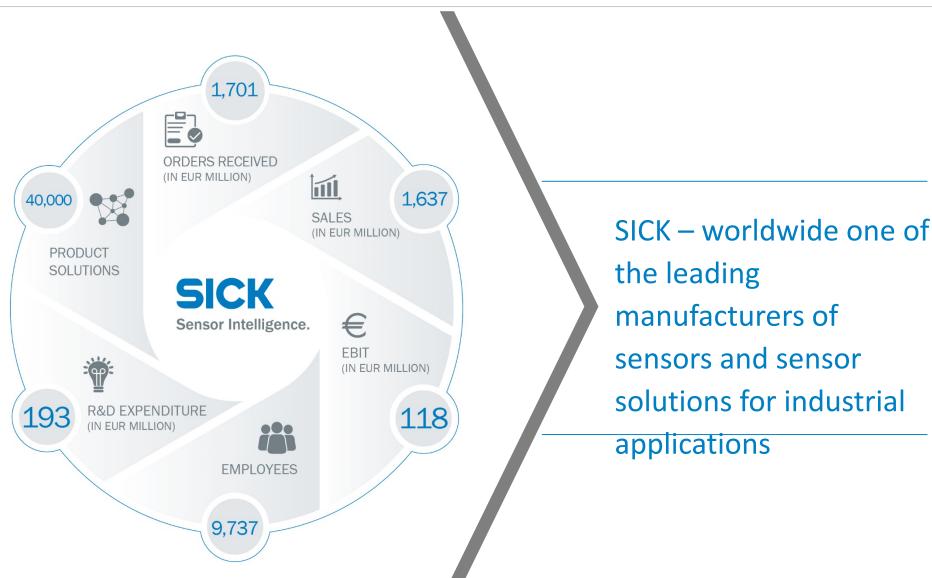


Monika Bantle
Profiling and Anti-collision
17.09.2019

COMPANY OVERVIEW





FIRST CONTACT WITH BRIDGE COLLISION



(Minimun) Requirements of request in 2014:

Detection of bridges and their substructure

- Range: 120m@10%

Scanning angle: 120... 160°

- Accuracy: +/— 50 mm

- Operating temperature –40 °C to +60 °C

- Numbers of Layers - min. 8

- Expanded penetration through fog, dust, rain etc.

Laserclass 1



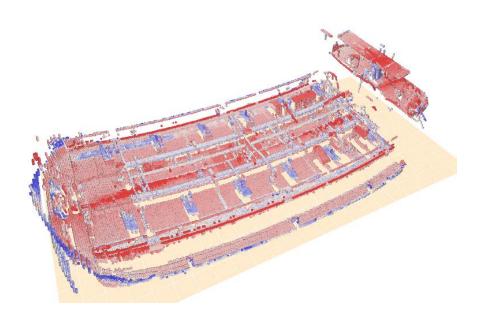
Limiting points:

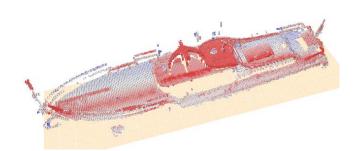
- ► Measurement accuracy of +/-50mm in 100m distance
- Expectation of fully integrated system able to lower the wheelhouse automatically

SYSTEM INTRODUCTION



- New request (2018)
 - Profiling / classification of vessels

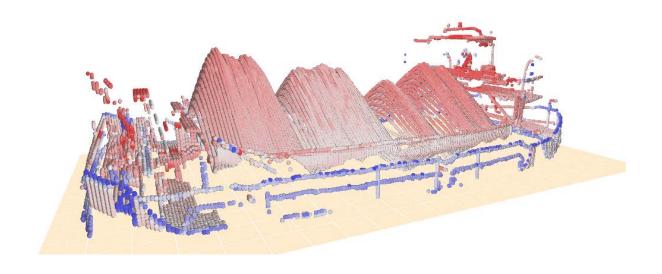




SYSTEM INTRODUCTION



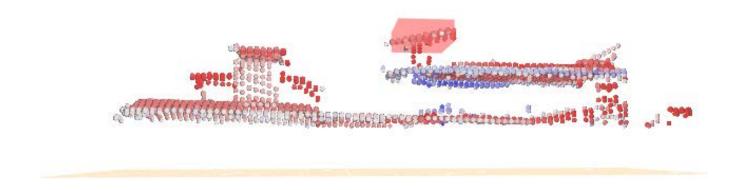
- New request
 - Profiling / classification of vessels
 - ► Height measurement



SYSTEM INTRODUCTION

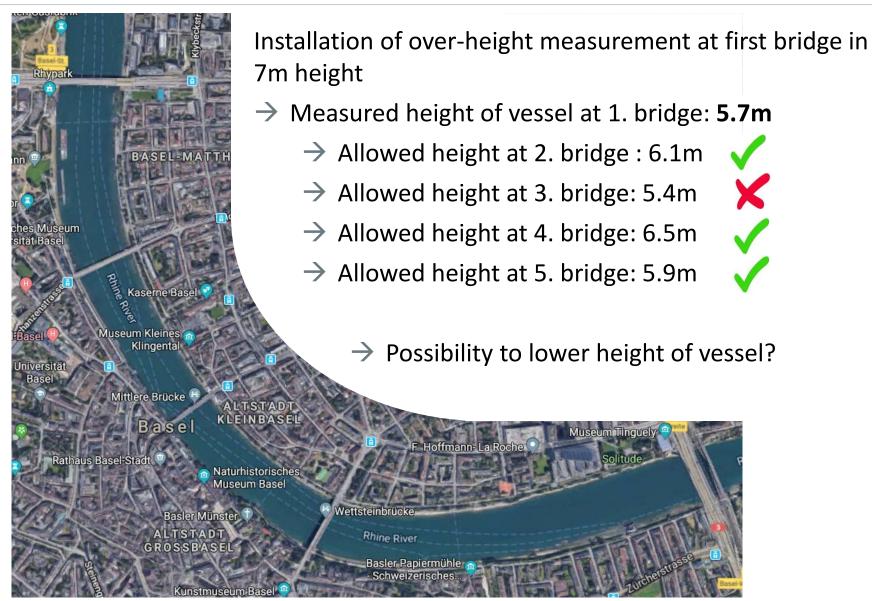


- New request
 - Profiling / classification of vessels
 - ► Height measurement
 - Over-height detection



APPLICATION EXAMPLE





SUMMARY



- System overview
 - ► LiDAR based
 - Over-height alarm
 - Pointcloud of vessel with height information
 - Accessible information through web interface



MANY THANKS FOR YOUR ATTENTION.

