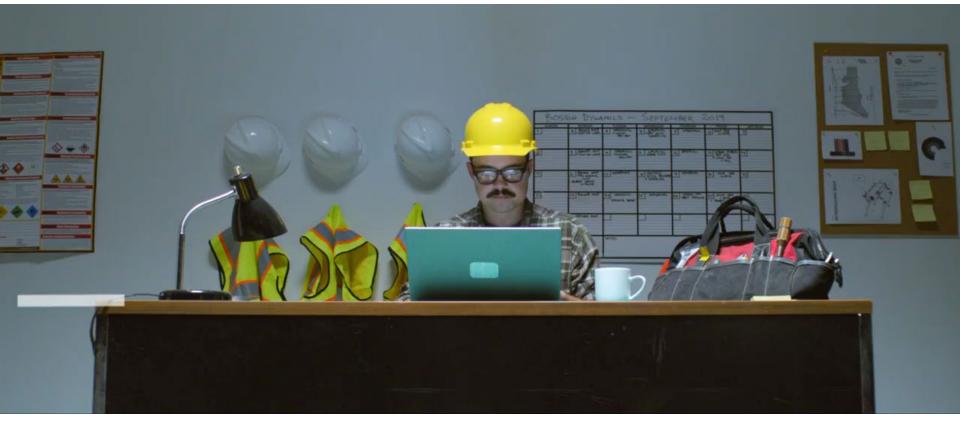


Uli Baldauf – Head of Research & Development, Hamburg Port Authority 26 May 2023

## Who is SPOT?







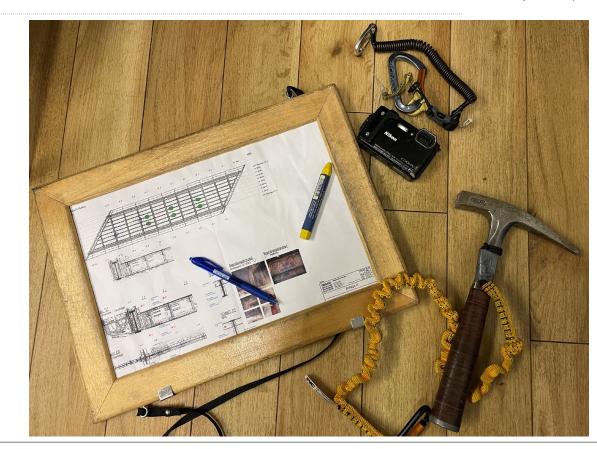




## Conventional tools for bridge inspections



Except for the digital camera there are not many digital tools...



### SET UP A PROJECT



#### Scope:

- Spot walks through 1000 m inside the bridge autonomous
- Spot takes pictures with 30-times optical zoom
- Spot creates point clouds
- Digital Twin of the bridge is generated
- Pictures have coordinates and time-stamps
- A dashboard for comparism of pictures is provided
- Cracks and damages are assigned in the digital twin
- Cracks and damages are shown via augmented reality within the bridge (demo case)

#### Time:

01/2022 - 06/2023







# **Thank You!**



Uli Baldauf, Head of R&D