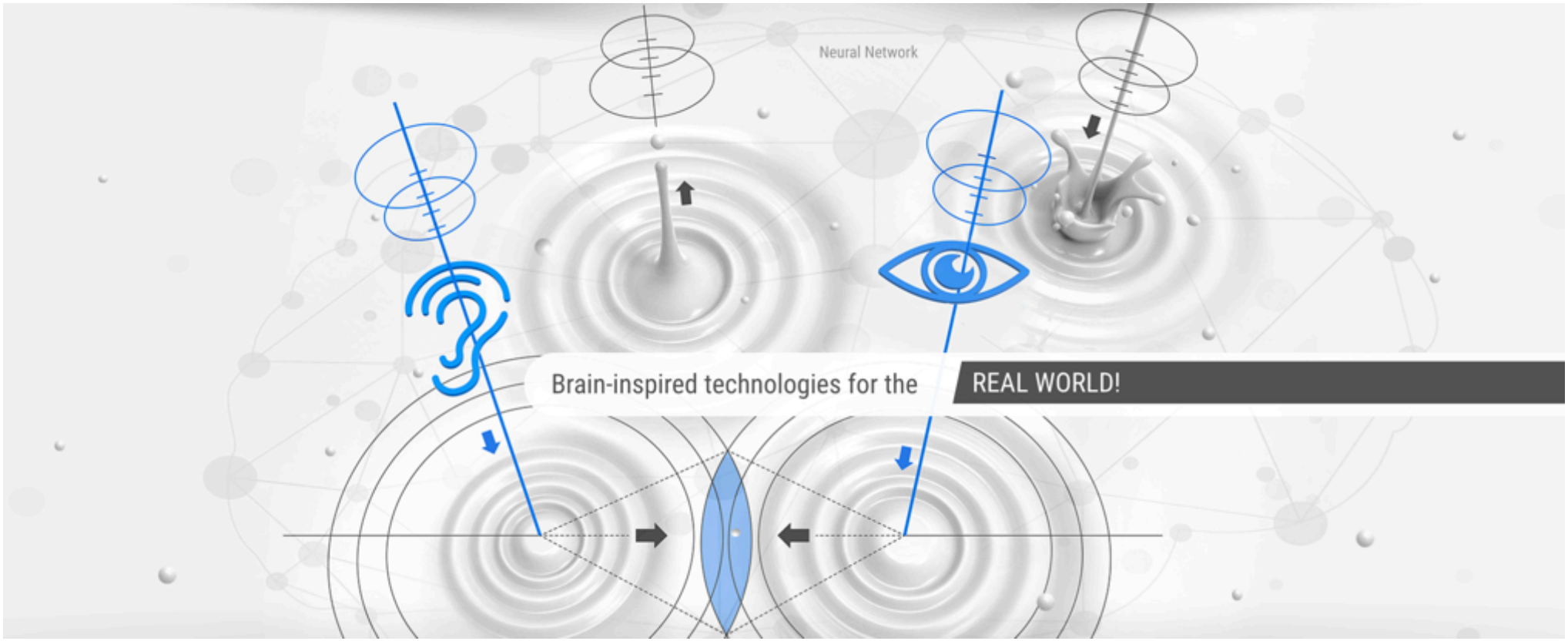


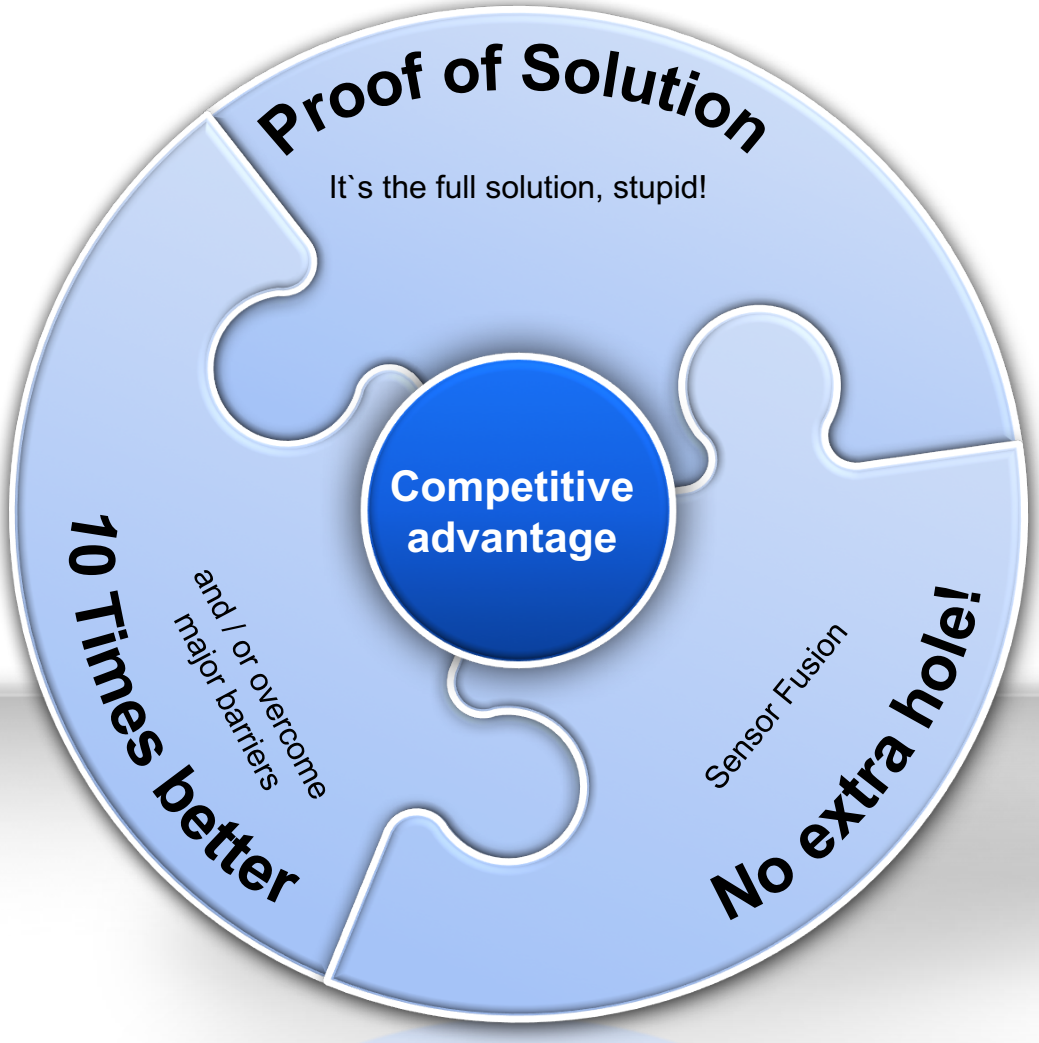
iniVation @ ICRA 2017

Dr. Sven-Erik Jacobsen, CEO

Singapore, 2nd June 2017

iniVation
Content.

iniVation
Key Hypotheses.



1	Hypotheses and Setup iniVation
2	Applications in Focus
3	Lessons Learned and Hypotheses

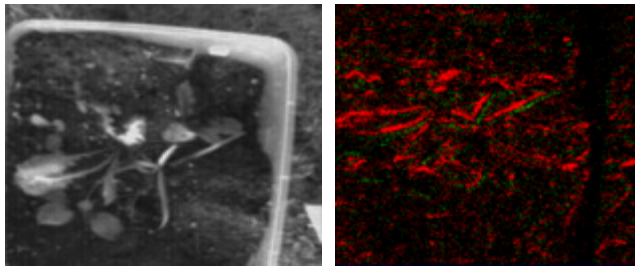
iniVation`s Roadmap

From Detection to Visual Positioning.

Today - Medical

Medical: Fluid Analysis

Robotics Sensing

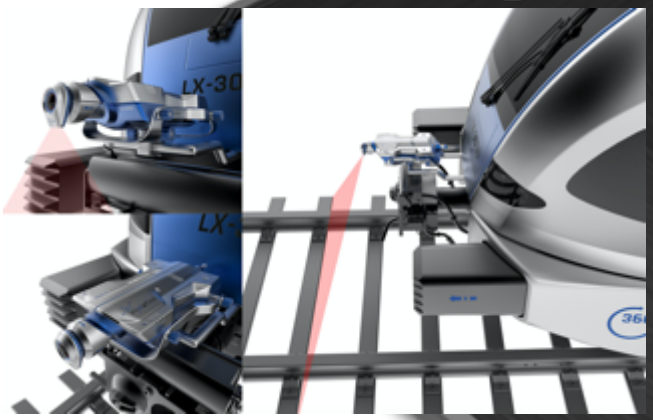


2017 / 2018- Smart Agriculture

Classification: See and Spray

2018 - VP and VO Non-Safety – ADAS KIT

Visual Positioning as supplementary, non-safety applications

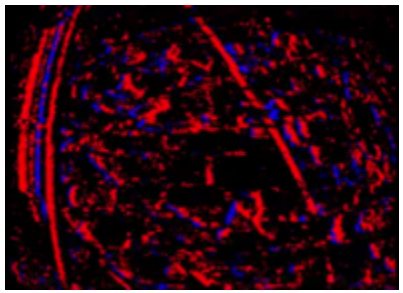
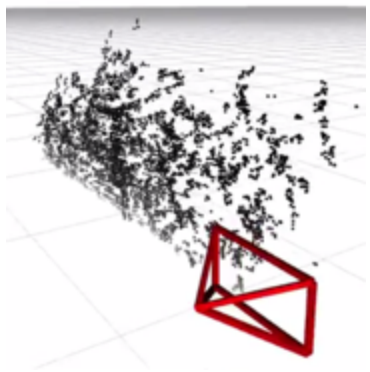
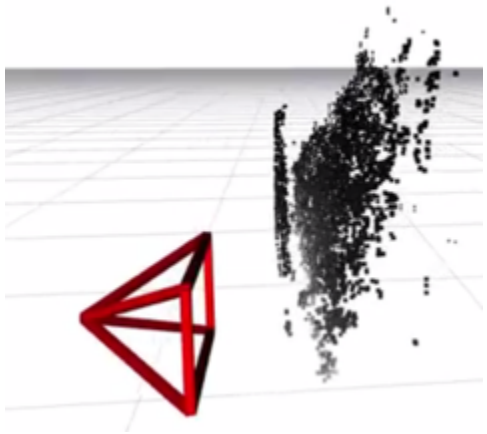
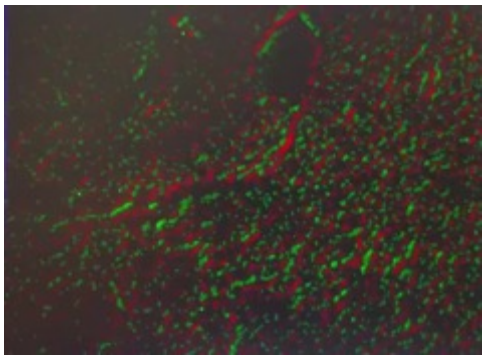
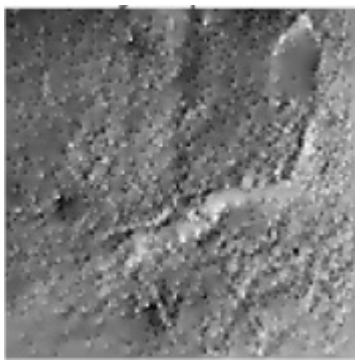


2019 – Visual Positioning

Autonomous Driving / Robotics / Intralogistics

Application Example (I): Infrastructure Scanning

3D Reconstruction for Context – HD Visual Contrast for Detection.

Customer Pain and Gain:

- From person-based visual inspection to pattern analysis
- Gathering of relevant know-how to enable semi-educated workers to perform complex analysis
- Transfer Smart Building Approach to Smart Infrastructure

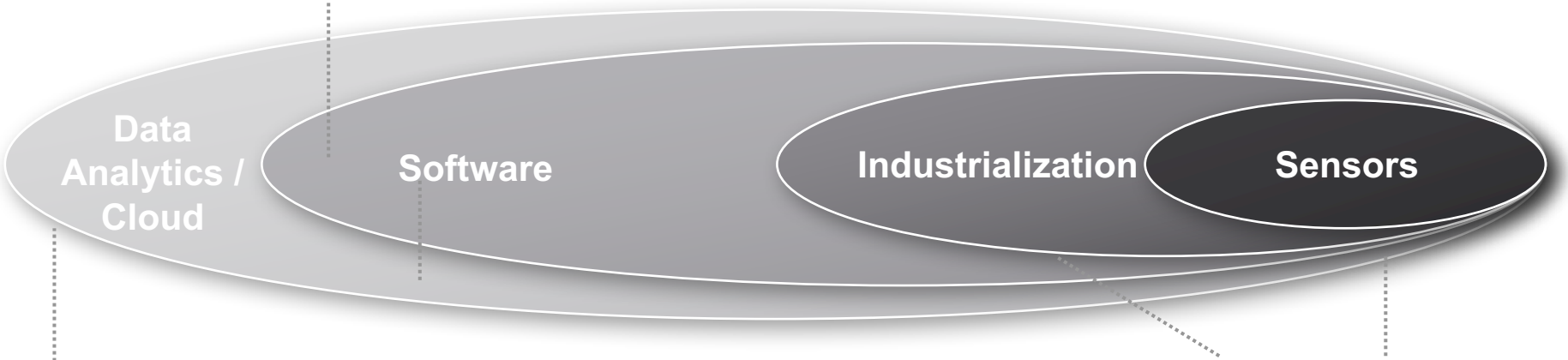
Application Example (I): Infrastructure Scanning
From Hardware through Software to Solution.

Raw Data Processing and Data Processing

Digitilization

Algorithms

Pattern Recognition



Customer Specific Solutions
For Operators / Infrastructure Owners / New Business Models

Hardware
Sensor
Housing
Chip
Scanner

Application specific Combinations:

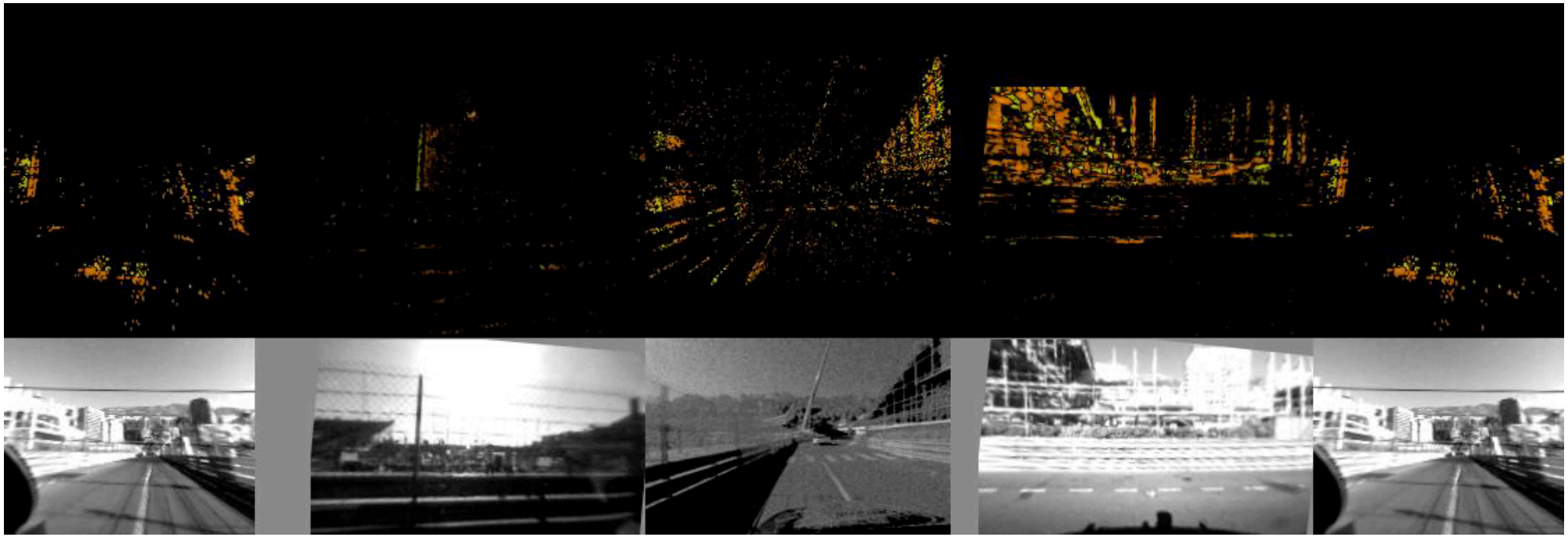
Application View:- Track Geometry – Clearance – Track Assets – Rail Profile – Cracks –

Market View: - Initial Rail Quality Check **-** Ongoing Measurements –

Customer View: - Condition Monitoring **-** Predictive Maintenance –

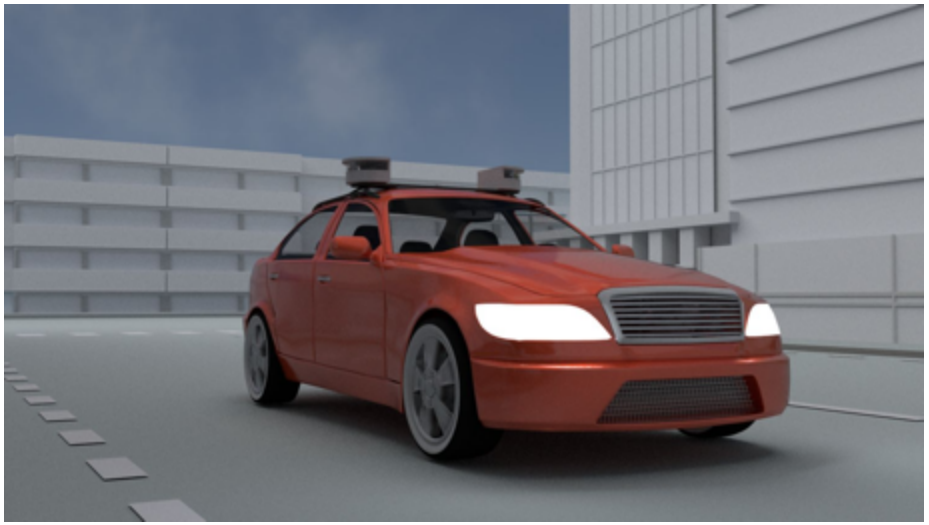
Application Example (II): VP and VO

Sensor Fusion to fully integrated ADAS solution.



Application Example (II): VP and VO

iniVation ADAS Kit – coming soon.



1	Vision and Business Model iniVation
2	Applications in Focus
3	Lessons Learned and Hypotheses

iniVation

From Technology Push to Market Pull.