



XENSE

V I S I O N

XENSE Vision are experts in computer vision and AI technologies. We build systems that improves the traffic flow in cities and enables connected and autonomous vehicles to make safer and more efficient decisions. We believe in a future where traffic has less negative impact on the environment, on the safety of citizens and the use of space in cities

Our Vision: Efficient and Safe Urban Autonomous Driving

- Enable Autonomous Driving in complex traffic
- Enable new business models for the automotive industry and cities
- Efficient travel from A to B in complex traffic
- Focus on using roads more efficient instead of building new ones
- Avoid future "autonomous congestion"
- Enable "less complex" autonomous vehicles

XENSE Approach - Infrastructure based 3D sensors



- Mounted in existing infrastructure to provide a bird's eye view of a traffic scene

Edge computing: all image, AI-processing and reporting is performed on the sensor

- Multiple sensor can inter-operate to create a merged 3D view of a traffic situation
- Sensors Report anonymized data, in real-time, to any configured recipient: Cloud, Telco Edge, Infrastructure Edge

Sensors powered by a single POE cable

AD Research projects

VINNOVA

ERICSSON VOLVO

veoneer

CEVT

zenseact

kista SCIENCE CITY

kapsch >>> challenging limits

AI SWEDEN

DRIVE SWEDEN

TRUSTED START UP AI

NVIDIA INCEPTION PROGRAM

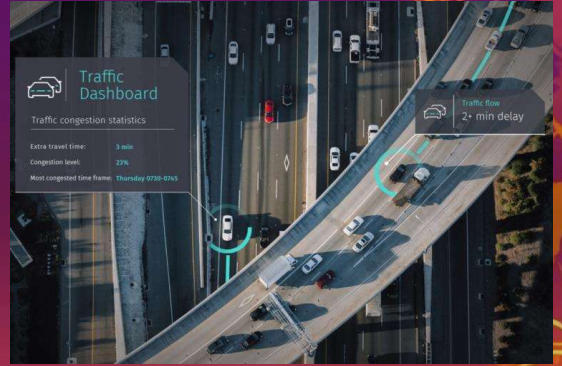
AI Readiness SCIENCE PARK JONKÖPING UNIVERSITY

Confined Area Autonomous Driving



XENSE VISION

Detailed traffic insights



The team

Highly knowledgeable team with a common background from stereo vision at Kapsch TrafficCom AB.

Currently owning the company to a 100%



Christian Karlström
CEO
Embedded Computer
Vision Engineer

Björn Crona
COO
Business developer

Ibraheem Al-Nuaimi
Machine Learning
Engineer

Claes Markström
System Engineer



Simon Börjesson
Embedded Computer
Vision Engineer

Göran Boström
Embedded Computer
Vision Engineer

Andreas Ternstedt
Machine Learning
Engineer

Nils Jonsson Lindahl
Embedded Computer Vision
Engineer

XENSE as TECoSA members

- What we expect
 - To better be able to cooperate with KTH and the partner companies
 - Interesting projects, in the area of collaborative ITS, where we can learn more about the research and commercial aspects
- Our contribution
 - 3D sensors, SW and data to be used by the center
 - Possible SW-adaptions needed for the projects
 - Knowledge about real-time 3D perception of vehicle users