Seyond.

We help cities
See smarter™.

"**25**% of inductive loops are not working at any given time"

SIMPL AI & Lidar detection

Teisko 34
Kangasala 18
Tammela 0,5
Rautatieasema 0,2

40

PIKEUR

MXZ-753

RELIABLE & REAL TIME: High resolution, long range, lidar detection and classification.

SEYOND

Traffic   Statistic ∨   Devices   Upload ∨   Status ∨   Account ∨   admin

H 2D 3D   lidar1 lidar2

All direction / Today

Traffic Flow
543

Direction list

North ∨
391
N-0   N-1
113   278

East ∨
152
E-0   E-1
87   65

SIMPL in Action

PointCloudIdx:89405 | BoxIdx:89404 • 2024-03-28 12:15:00:005

IPC

SEYOND   **Traffic**   Statistics ⌄   Devices   Upload ⌄   Status ⌄   Account ⌄   👤 admin

🚗 Traffic Flow   🧍   👥   H   2D   3D   lidar1   lidar2   ‹

Virtual Loops Today

🚗 Traffic Flow

18,872

Direction list

North ⌄

🚗 **7,873**

N-1	N-2	N-3	N-4
470	636	3,212	3,083

N-5

472

East ⌄
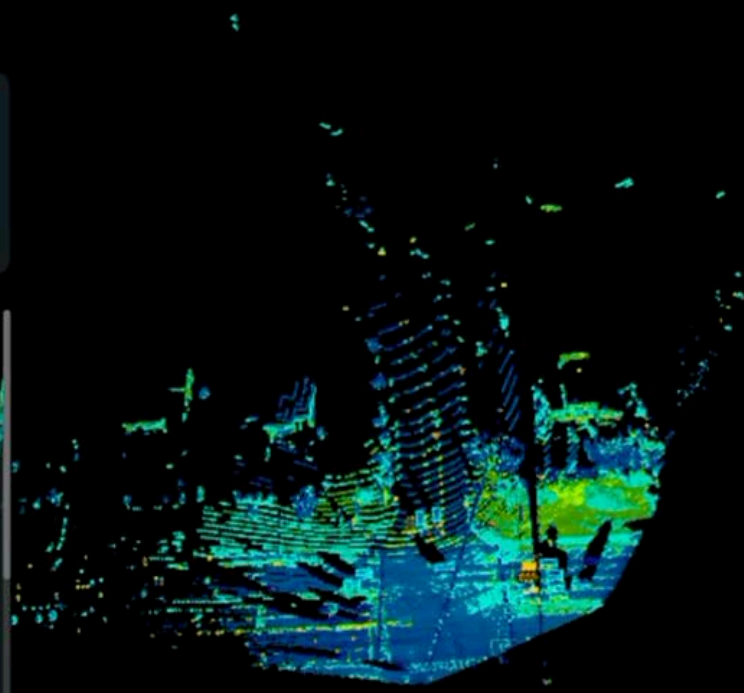
Benefits of AI & LiDAR Detection

- **Accurate**
  Laser measurements provide absolute distance to objects.

- **Reliable in All Conditions**
  Performs consistently in adverse weather and low-light environments.

- **Easy to Install and Maintain**
  Simplified setup and minimal maintenance reduce operational disruptions.

- **Multimodal Detection**
  Accurately identifies vehicles, pedestrians, and cyclists, enhancing safety and traffic flow.

- **Privacy Safe**
  Protects personal privacy by avoiding the capture of identifiable images.

- **Enhanced Safety Data**
  Delivers precise, multimodal data to improve safety analysis and interventions.

- **Real-Time, Shareable Data**
  Provides instant data integration and sharing for quick decision-making.

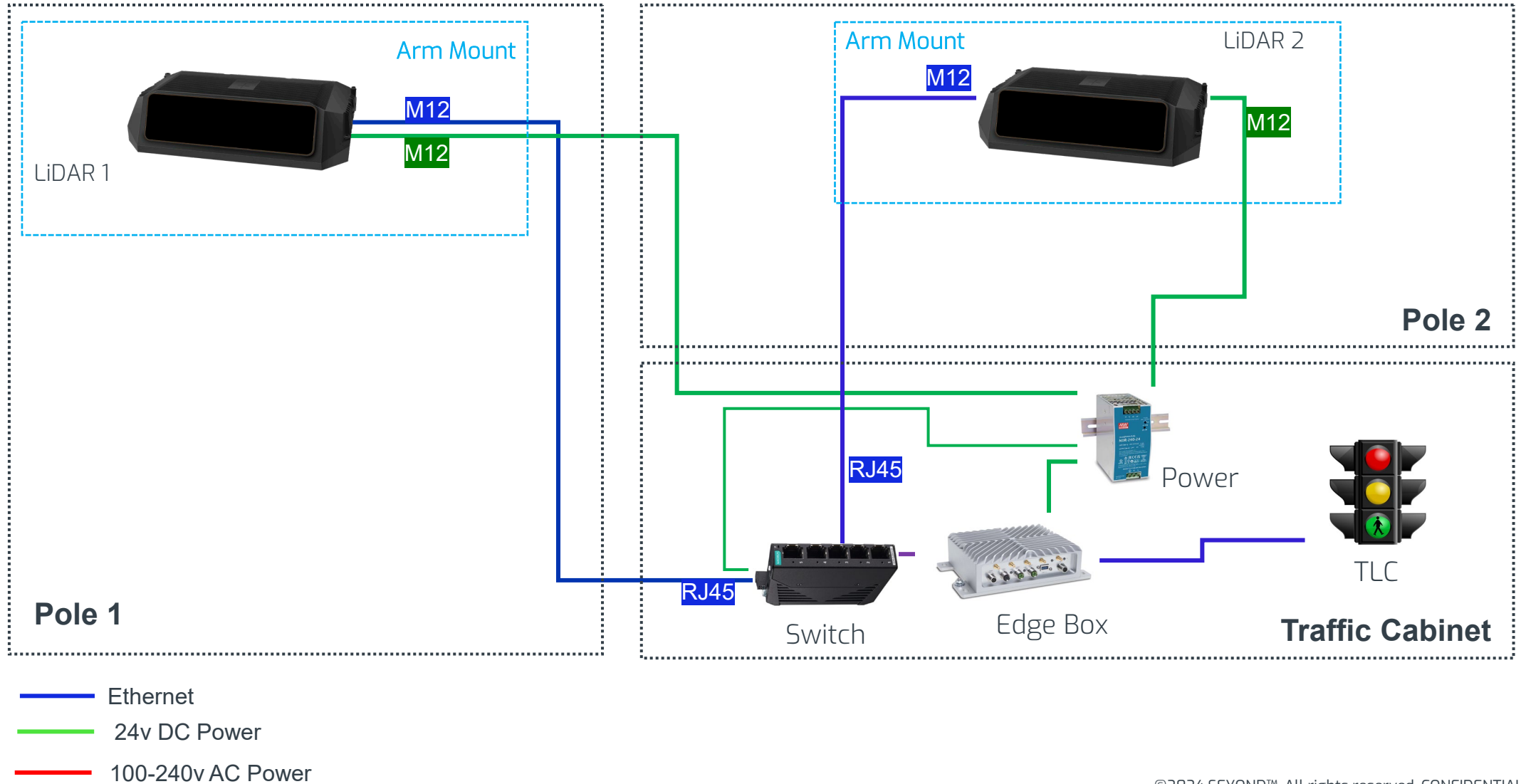- **Scalable and Future-Proof**
  Easily expandable and upgradeable to adapt to future needs.

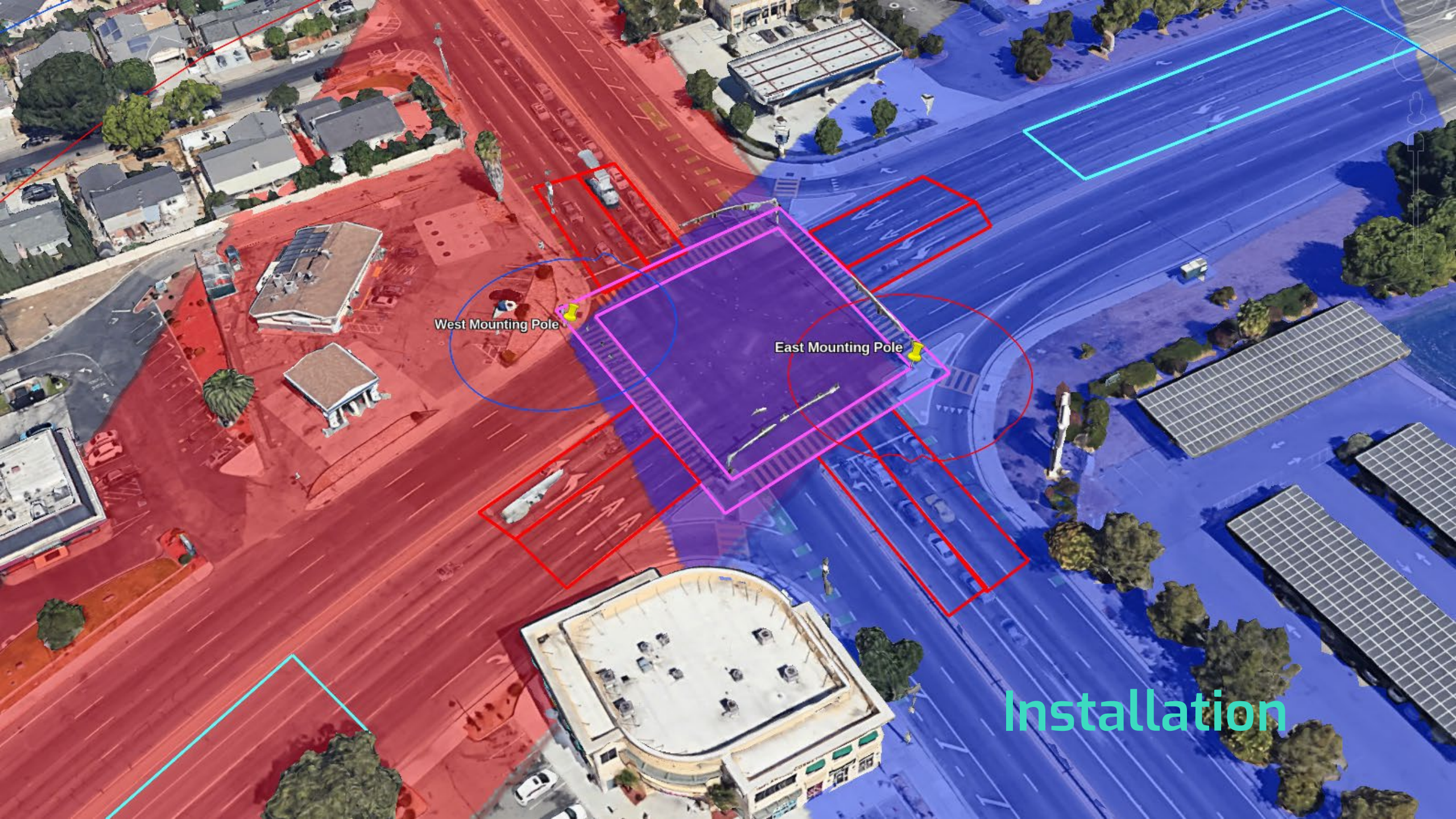- **Enhanced Pedestrian Safety**
  Superior detection accuracy ensures greater protection for pedestrians.

System Topology

Arm Mount

M12
M12

LiDAR 1

Pole 1

Arm Mount

M12

LiDAR 2

M12

Pole 2

RJ45

Power

RJ45

Switch

Edge Box

TLC

Traffic Cabinet

—— Ethernet
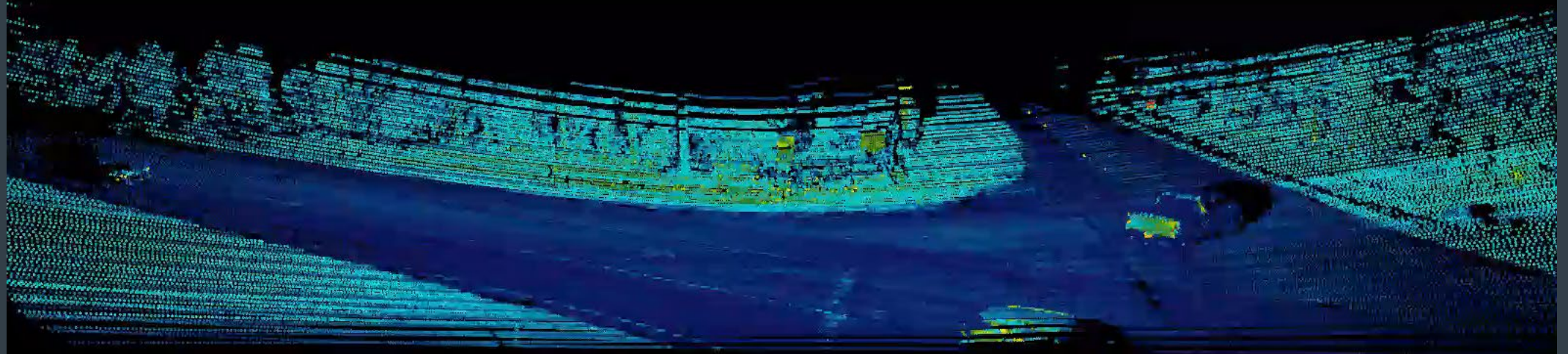
—— 24v DC Power

—— 100-240v AC Power

West Mounting Pole

East Mounting Pole

Installation

SIMPL Lidar detection during Hurricane Milton

Reykjavik, Iceland

Use Cases

- Vehicle Detection
- Traffic Signal Actuation

Parties Involved

City: Reykjavik

Contractor: Rafal

Distributor: Reykjafell

TLC: Swarco AI

About Seyond

Seyond was founded as "Innovusion" in Sunnyvale, California in 2016 with a vision to provide market-leading LiDAR products

- Re-Branding of the Company in December 2023 into "Seyond"

- Global footprint with over 650 employees worldwide

- Headquarters and R&D in Sunnyvale, California

- EMEA office in Eschborn

- Development and manufacturing centers in China.

- Manufacturing expanding to USA, Europe, Japan and SE Asia.
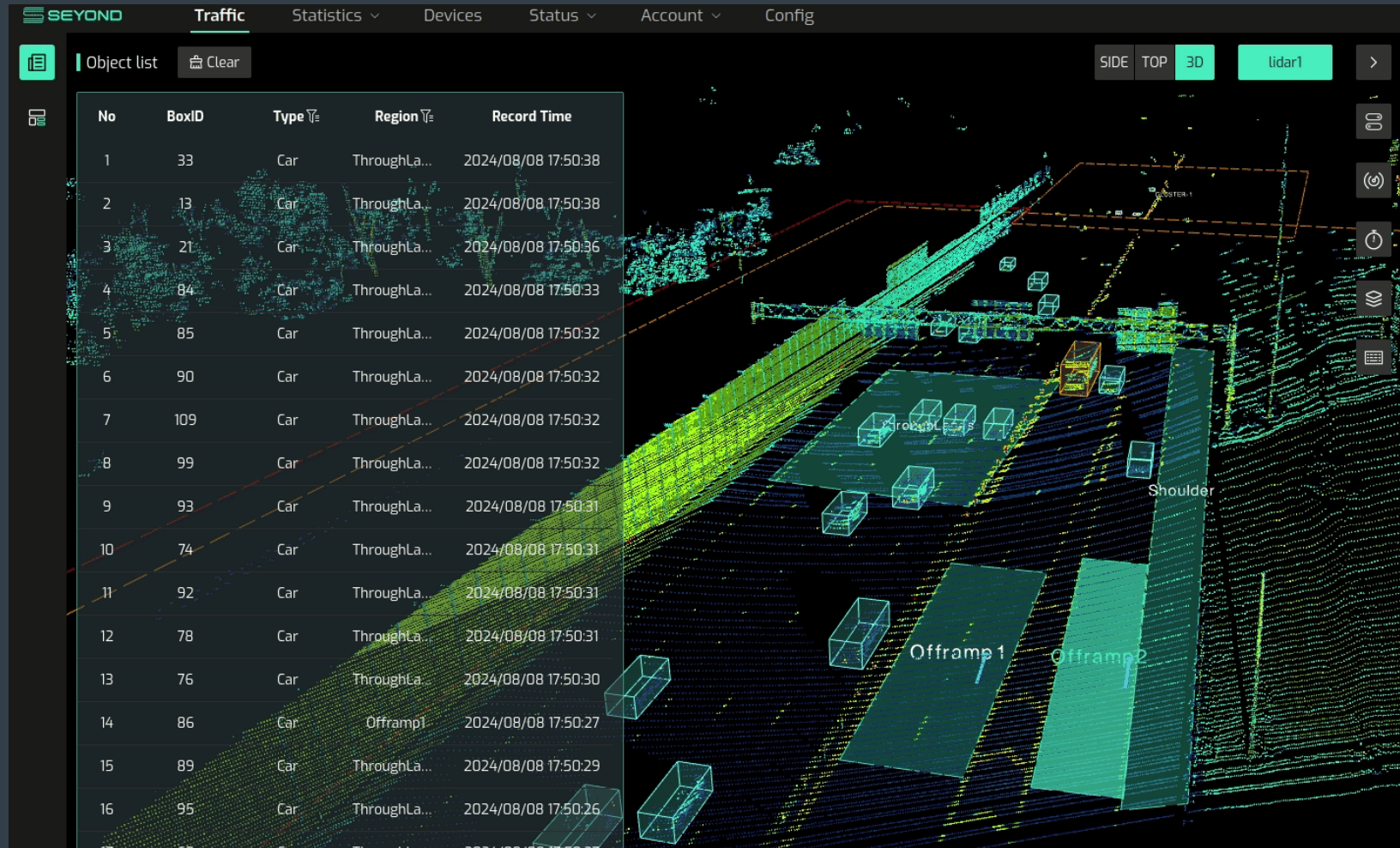
- Current production is 20-25k per month

Learn more...

simpl.seyond.com

- Wrong way detection

- Congestion detection

- Pedestrian detection

- Stopped vehicle detection