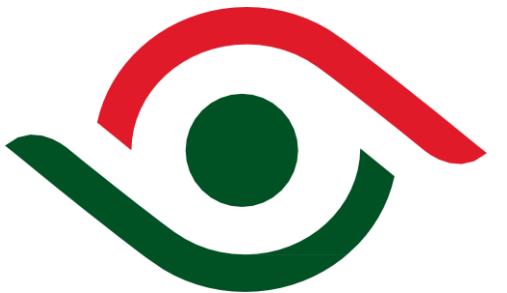


Confidential



Visual Intelligence Pioneer

STRADVISION

Perceiving the Road Ahead



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Company Overview

In 5 years since foundation in 2014, already at the mass production stage



Establishment

Founded in 2014;

Headquartered in South Korea and San Jose, CA



Software Product

Develops deep-learning based perception software using camera sensors for autonomous driving and ADAS



Production- ready

5 production projects with automotive OEMs in China and Germany (first SOP¹) was in 2019)

ASPICE CL2 certified (2019)



Organization

110 employees;

Total 90 engineers in data, algorithm, optimization, software and quality assurance

Sales networks in Korea, Germany, Japan, China, US and India



Investment

Total funding of US\$ 40Mil (incl. Series B of 27Mil in Dec. 2019)

Investors include Hyundai Motor Company, Hyundai Mobis, LG Electronics and IDG Capital



Unique Selling Point

1. Maturity – production ready
2. Best for customer ADAS cameras – SoC platform independent
3. Fast adoptions of latest SoCs –

Business Area

Camera based perception, platform independent software

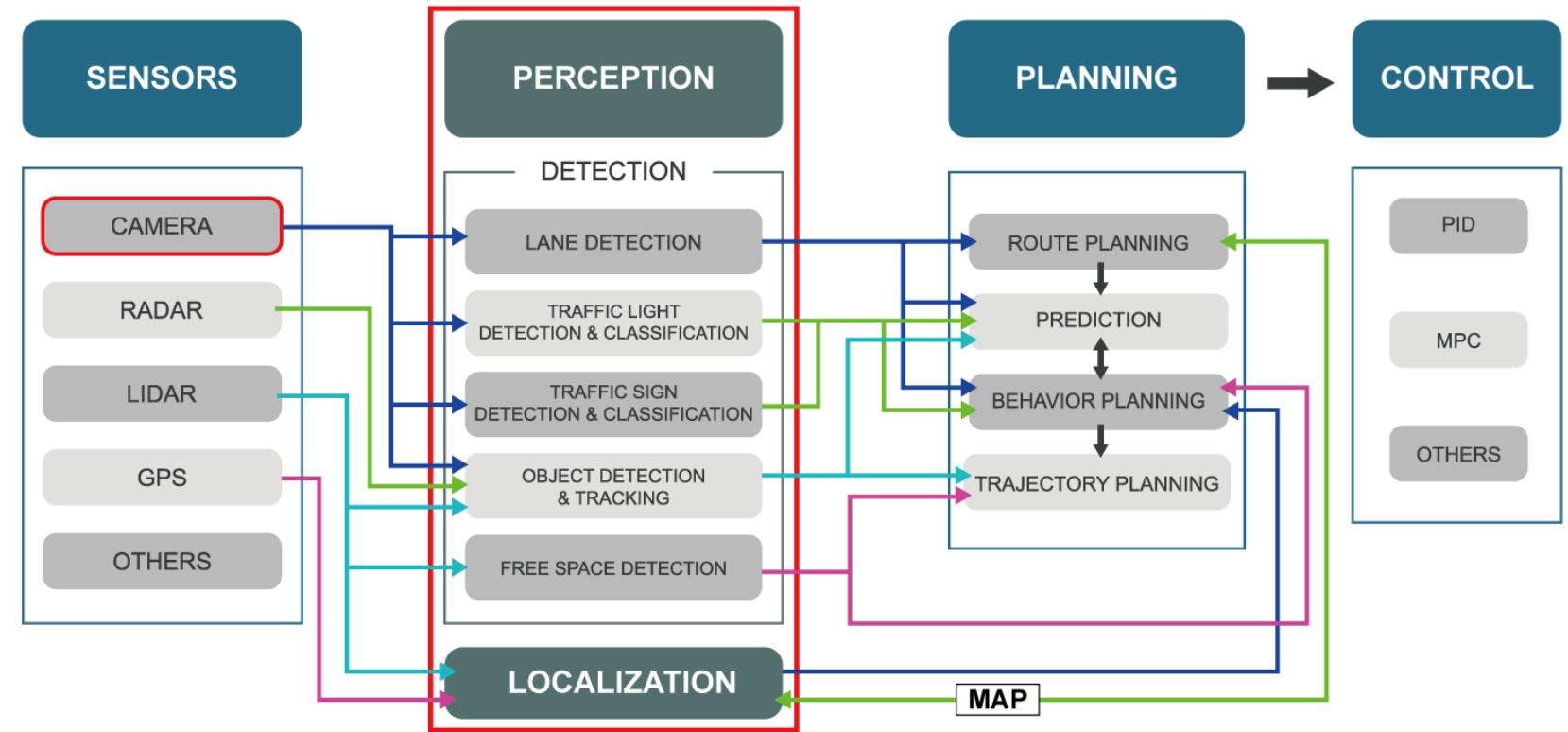
StradVision develops vision processing technology driving Advanced Driver Assistance Systems (ADAS) and Autonomous Vehicles

StradVision's Coverage

Autonomous Vehicle Components and Technology



- Cameras
- LIDAR
- RADAR
- Computing



Leader in IP & Adaptation

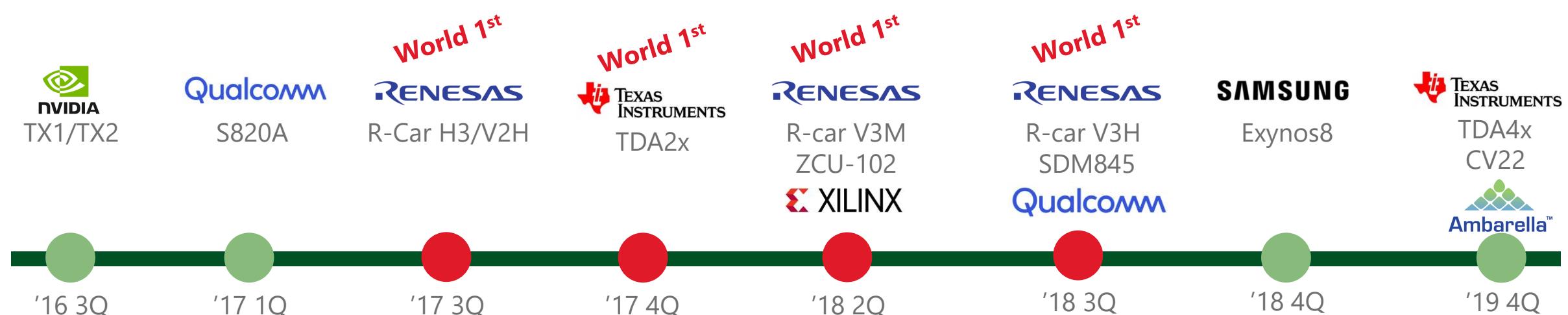
StradVision is at the forefront of identifying, utilizing, and adapting cutting edge platforms

Pragmatic innovator – 75 US patents issued, 79 in progress

- *Patents about application of deep neural networks (DNN): efficient implement, training, faster inference, data engineering, and optimization*
- *Demonstrated the key idea of the IP via intensive experiments and optimization results*

Goal-oriented Quick Execution

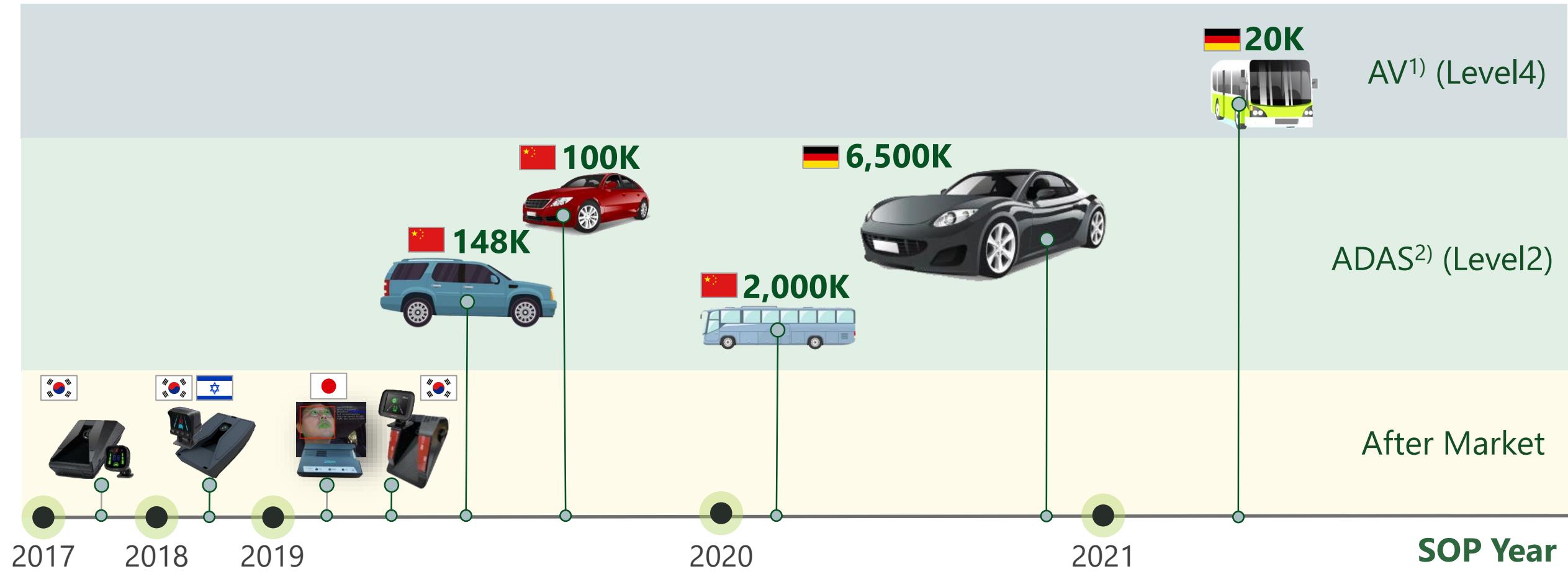
- *Constantly implementing DNN based object detection on embedded platforms within short periods (3~6 months)*



Products on the Road

Total 8.8 million vehicles are planned to be on the road with SVNet software

Unit: EA over lifetime



1) AV: Autonomous vehicles

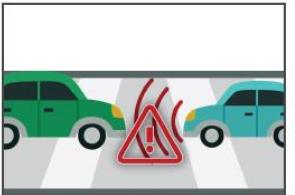
2) ADAS: Advanced Drivers' Assistance Systems

Product – SVNet External

SVNet External enables vehicles to execute ADAS and self-driving functions

Functions Example

Forward Collision Warning



Traffic Sign Recognition



Speed Assistance



Pedestrian & Cyclist Warning



Pedestrian Collision Warning



Blind Spot Detection



Driver Status Monitoring



Lane Departure Warning



Displays



Platforms



R-Car



S32V



TDA

Qualcomm Snapdragon



NVIDIA

TX2 &
DPX2

Product – SVNet Internal

SVNet Internal monitors both driver's and passenger's status to enable a safe driving experience

Functions

- Simultaneous driver & passenger detection and assessment
 - Gaze Detection
 - Drowsiness Detection
 - Age & Gender Detection

Platforms

RENESAS

R-Car

TEXAS INSTRUMENTS

TDA

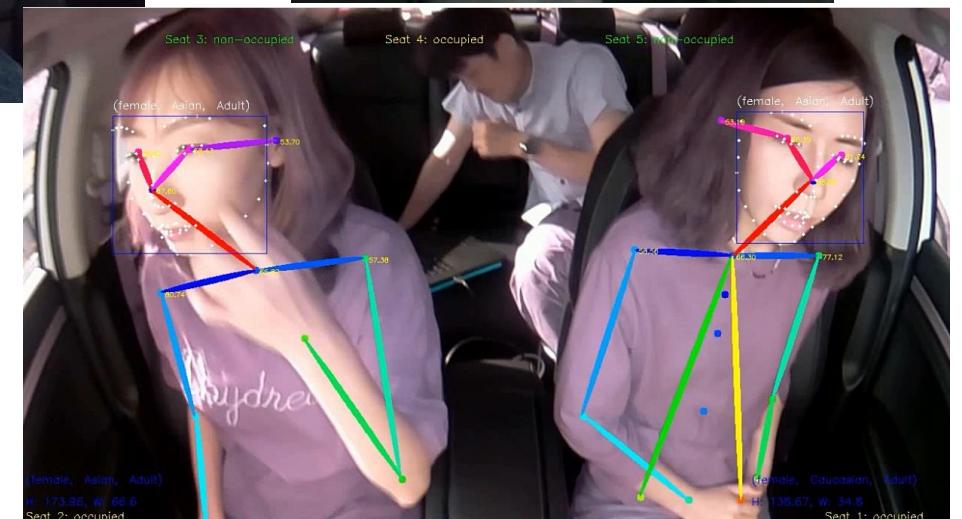
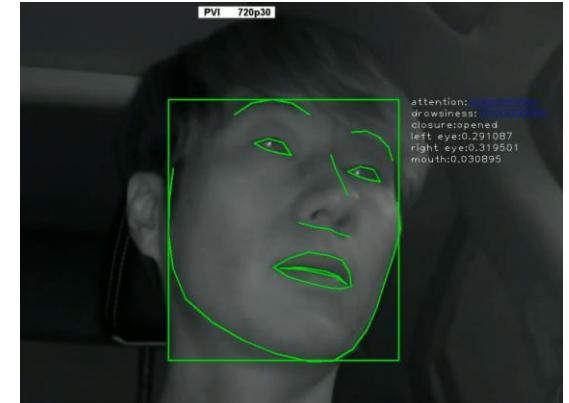
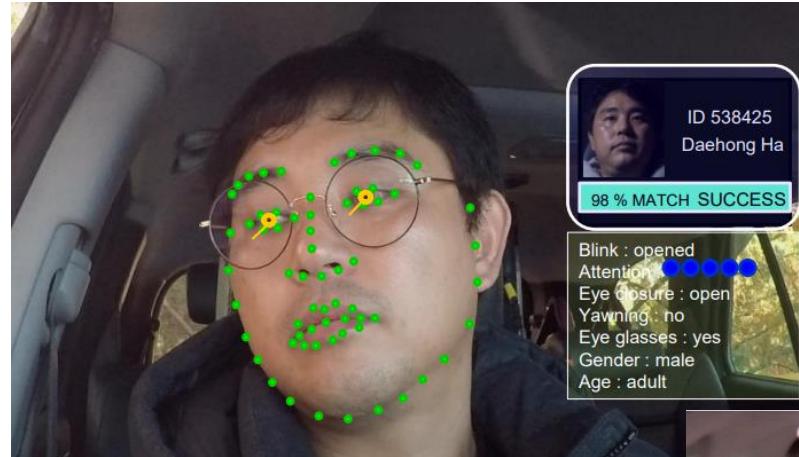
Qualcomm

Snapdragon

arm

CPU

Display



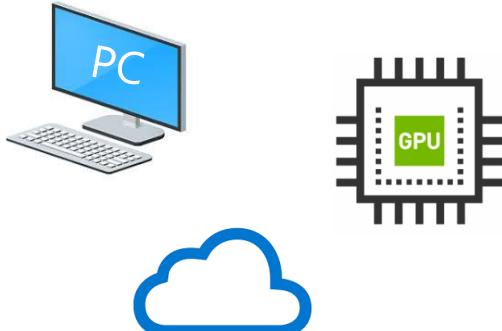
Product – SVNet Tool

Enables operational efficiency by guaranteeing data independence

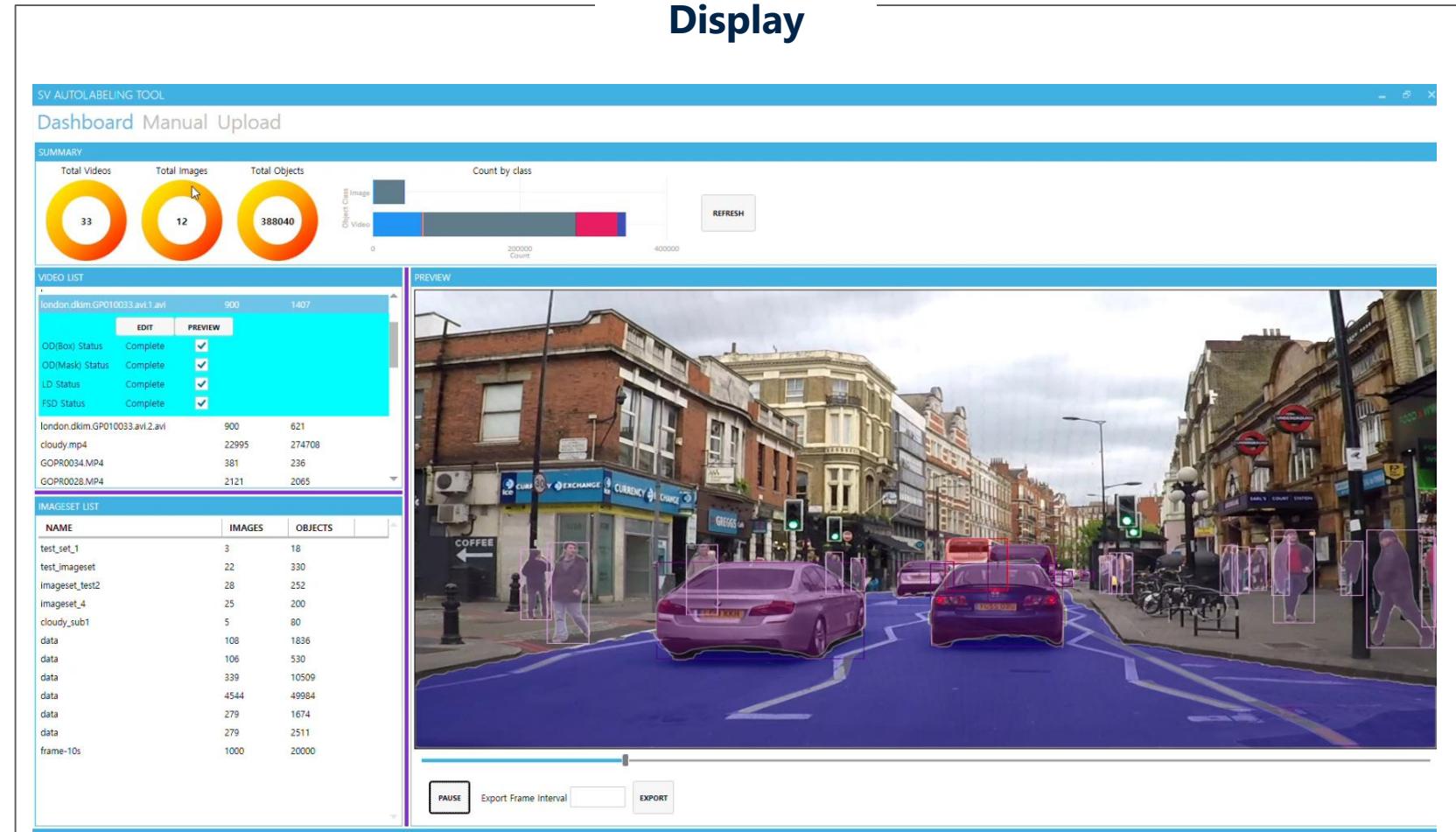
Functions

- Auto Labeling System
 - Human intervention is required ~5% of the time
- Data Training Suite
- Platform Optimization Suite

Platforms

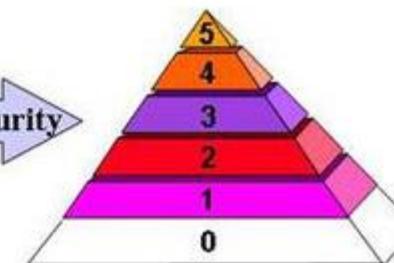


Display



Competitive Edge in Europe – Certification

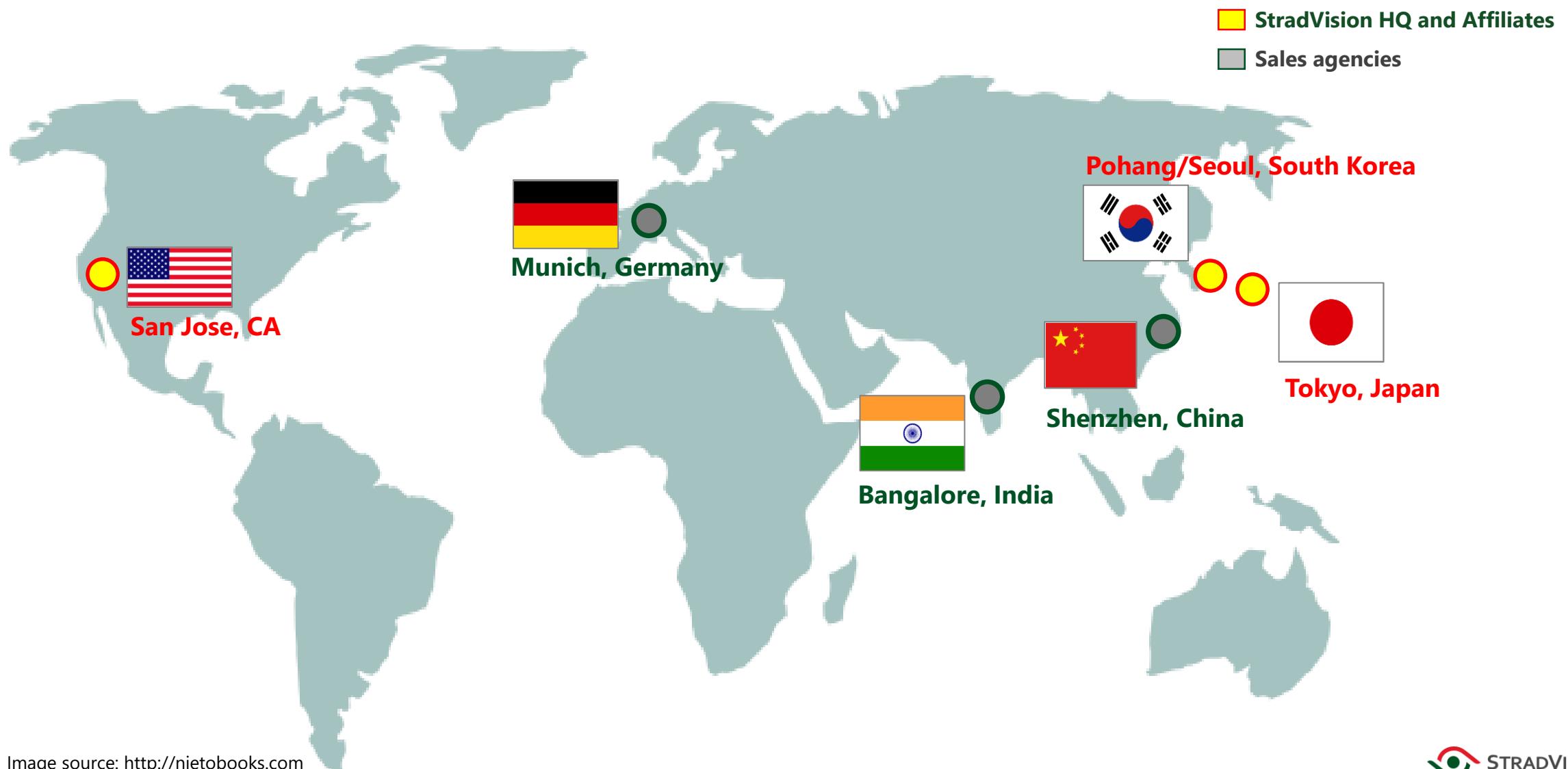
1st deep-learning-based perception software ASPICE CL2 certified with aims for fully compatible with ASIL B for Functional Safety



ASIL: Automotive Safety Integrity Level

ASPICE: Automotive Software Performance Improvement and Capability dEtermination

Global Operation





Thank you