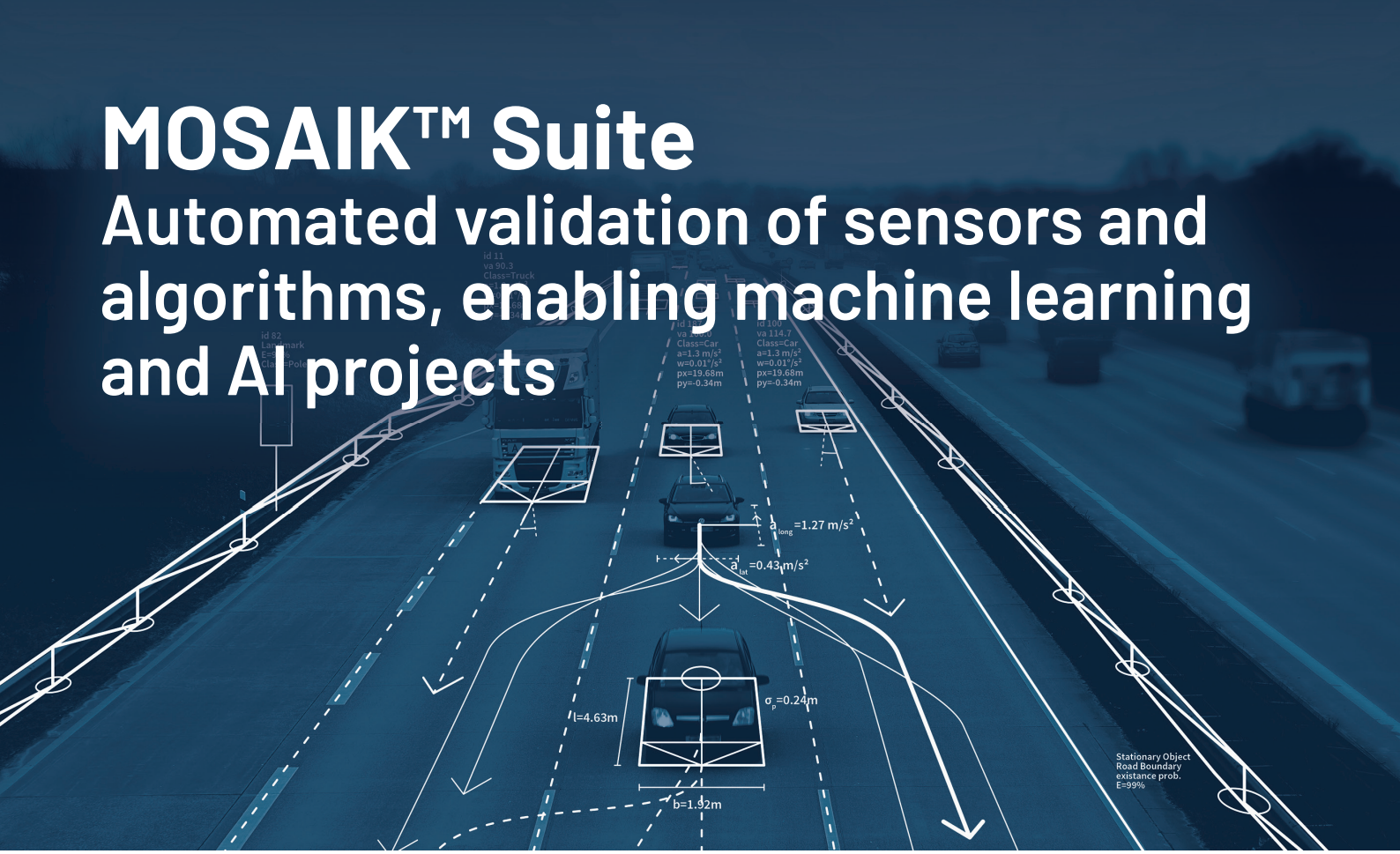
MOSAIK™ Suite

Automated validation of sensors and algorithms, enabling machine learning and AI projects



Key Features

- Includes MVIS Auto-Annotation software
- Automatically annotates objects and lanes
- Allows for manual editing of objects and lanes
- Supports data of selected third-party lidars
- Scalable due to cloud-compatible architecture
- Offers the complete toolchain from a single source
- Compatible with MVIS SyncBox Pro

Toolchain

STEP 1 Real-time Tracking and Recording

0 % raw data — 100 % raw data

Recording System

Hardware

- Lidar
- Lane tracker SLMS
- Third-party lidar sensors*
- MVIS ECU
- MVIS SyncBox Pro
- IMU / GPS

Software

- MVIS ECU Recording Suite
- MVIS CaliGraph

STEP 2 Recorded Data Validation

0 % GT** data — 100 % GT data

MVIS Validation

MVIS Auto-Annotation Software

- Automatic object detection, classification & tracking
- Automatic lane marking and road boundary detection (highway)
- Automatic scenario detection
- Cloud-compatible architecture due to Docker image
- Intuitive graphical user interface
- Data formats:
  - For objects .json
  - For lanes OpenDRIVE xODR

MVIS Reference Software

- Visualization for scan point, object, and lane data
- Editors for object, lane and scenario data
- Interface software development kit (SDK)

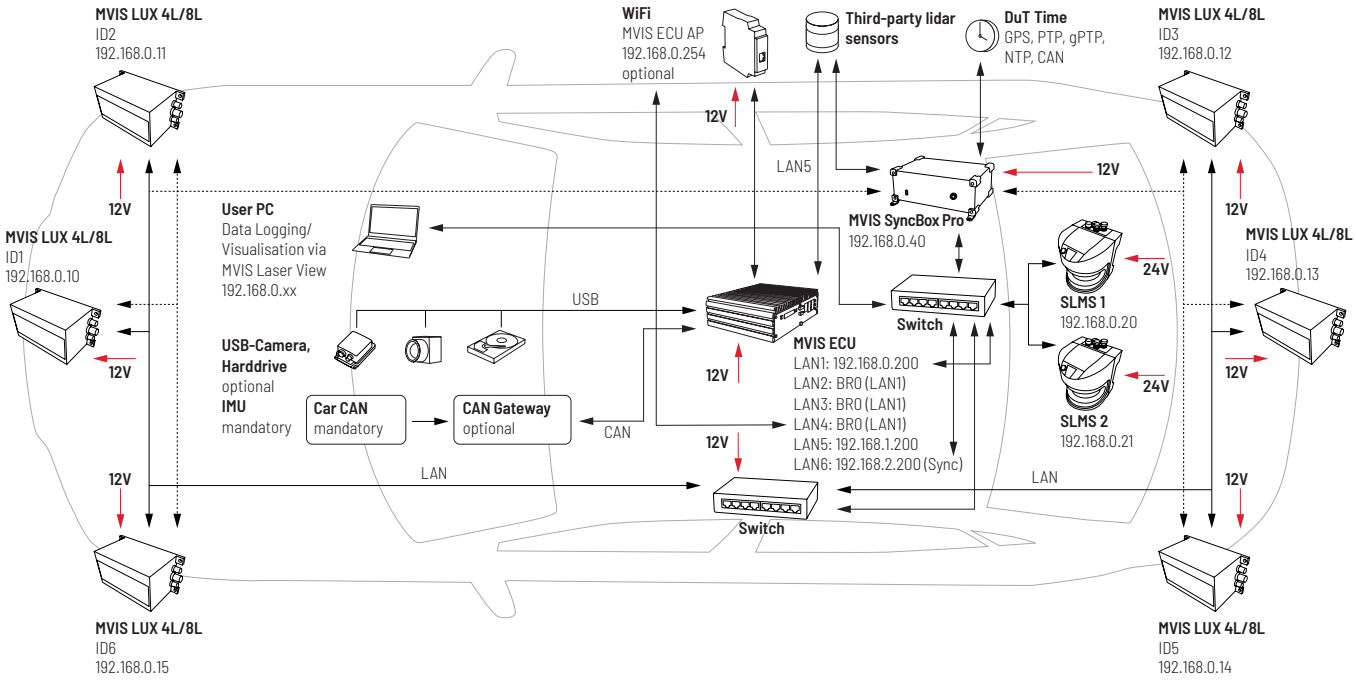
*Selected third-party hardware not in MVIS product portfolio; real-time object data not available

**GT = Ground Truth

Safe mobility at the speed of life

MicroVision

System Architecture



MOSAIK™ Suite: Our Difference

Third-Party Lidar Data Support

- MOSAIK™ Suite supports selected lidar devices from other suppliers
- Offers increased flexibility through support of third-party lidar devices (e.g., 360° lidar on the rooftop)
- Enables simultaneous operation of different devices to accommodate any use case

Object and Lane Editing

- Quick and intuitive tools to increase object and lane quality of the reference data manually
- Enables modification of objects and lanes, such as position, orientation, and classification
- Applies changes to the entire object track instead of frame-by-frame editing

MVIS SyncBox Pro

- Time management device that synchronizes all systems in the car to a single source of truth
- Able to function as leader clock or follower clock for each connected component or protocol
- Ensures data time quality of all systems in the car
- Supports all common time protocols (such as PPS & NMEA, gPTP/PTP, NTP, CAN) and can be configured to the use case accordingly
- Monitors synchronization status for various interfaces