SHERPA engineering

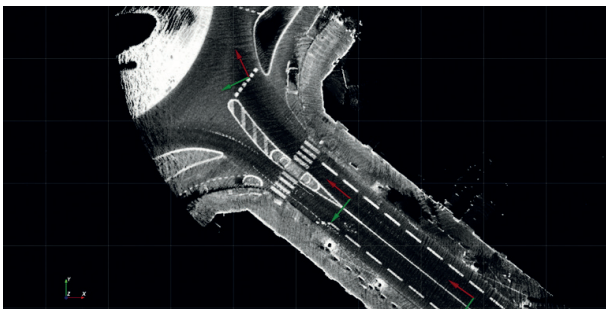# PERCEPTION AND LOCALIZATION PLATFORMS

Calibrated data.
Lidar data projected on camera image.

Lidar, camera or GNSS **high-quality datasets,** **time-stamped, synchronized and calibrated** for you to:

• build databases,

• develop perception or localization algorithms,

• develop ADAS and autonomous vehicle applications,

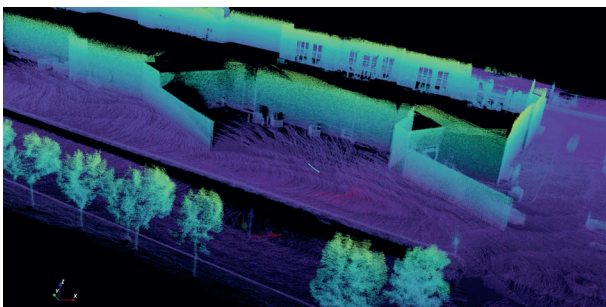• develop robotics applications.

… for your projects

Mapping and localization in road environments.
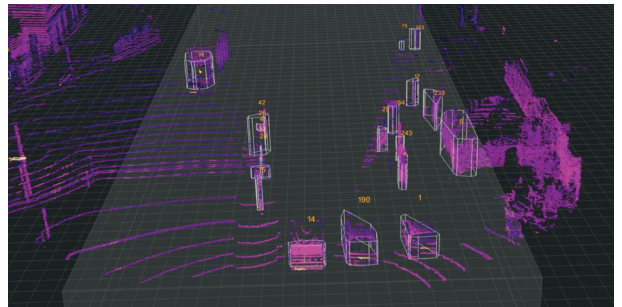**Applications**: ADAS, autonomous vehicles, road infrastructure analysis.

Line detection using image processing.
Applications: ADAS, autonomous vehicles

3D localization by lidar.
Applications: mobile robotics, logistics, autonomous vehicles.

Object detection by lidar.
Applications: mobile robotics, logistics, autonomous vehicles

PLATFORM EXAMPLES

Platform in use at our partner University Gustave Eiffel - Nantes

Features:
- 1 lidar
- 4 cameras
- 1 GNSS/IMU fusion
- 1 sensor synchronization and time-stamping system
- 1 recording system
- SHERPA Engineering algorithms: localization, object detection

Applications:
- Mobile robot
- Road infrastructure analysis

Platform developed as part of the ALADIN consortium - NextMove competitiveness cluster

Features:
- 6 lidars
- 8 cameras
- 1 GNSS/IMU fusion
- 1 V2X connectivity box
- 1 sensor synchronization and time-stamping system
- 1 recording system

Applications:
- Autonomous vehicles
- Multi-sensor data fusion
- Creation of datasets for the development of AI-type algorithms

For all your applications:
- Driver assistance systems (ADAS) or autonomous vehicles,
- Mobile robotics, logistics,
- Cartography, road infrastructure analysis, …

don't hesitate to ask us.

SYSTEM ENGINEERING, MULTI-PHYSICAL MODELLING, CONTROL SYSTEM DESIGN, ARTIFICIAL INTELLIGENCE

Tel: +33 (0)1 47 82 08 23 - commercial@sherpa-eng.com - www.sherpa-eng.com