

# SDAV — SmartData for Autonomous Vehicles

## 1. Overview

**SmartData for Autonomous Vehicles (SDAV)** is an internal [LISHA](#) project that aims at adapting [EPOS](#) and [SmartData](#) to support applications in the Autonomous Vehicles scenario, developing additional runtime components that are specific to such applications.

## 2. Project Documents

- [Work Plan](#)
- [SDAV - Mobillis EV Prototype](#)
- [SDAV - Breaking Actuator](#)

## 3. Models

- [SDAV - SmartData Model](#)

## 4. Datasets

- [SDAV - V2X Datasets](#)

## 5. Assets

- [Ethernet to CAN adapters documentation](#)
- [Yolo Explained](#)
- [Previous experiences on Path and Motion Planning](#)
- [Modeling Dynamic Systems Using Neural Networks based on Physical Properties](#)

### 5.1. Platform

- [SmartData Middleware](#)
- [Digital Platform](#)
- [SmartData @ Linux VF2](#)
- [OpenCV and cameras use @ Linux VF2](#)

### 5.2. Autonomy

- [SDAV Artery Simulation](#)
- [Camera Perception for Lane Tracking](#)
- [Embedded MultiSmartData](#)
- [Multimedia using SmartData](#)
- [Path Planning](#)
- [Decision Making](#)
- [Model Predictive Control](#)

### 5.3. Autonomy Y2

- [Sensor and ECU Setup](#)
- [Perception Sensor Fusion](#)
- [PINNs Applied to Vehicle Mass Estimation](#)
- [Ecologic Driving Profiling](#)
- [Secure V2X](#)

## 6. Technical Documentation

- [EPOS](#)
- [IoT Platform](#)
- [IoT Platform Internals](#)
- [SmartData Series Semantics](#)
- [LISHA PC - Internal Reviews](#)