ADAS @ NTT GROUP
prostep ivip Systems Engineering Day Japan 2019

Jens Krueger, Head of Global Automotive Engineering Center of Excellence
Johannes Kreckel, Product Manager Simuloop (ADAS Validation)
Global expert team to support global accounts such as BMW, VW, Daimler, Tier 1 suppliers or Japanese OEMs outside Japan

Global business strategy in Engineering domain (PLM, CASE) including offering development / innovation, vendor & partner management, group company support

Coordination of global proposals

Global sharing of innovation & best practices

PLM partnerships

- PLM: Traditional PLM portfolio including AMS / DevOps and software development covering all domains.
- PLM4CASE: MBSE, ADAS validation, AI for CAE, embedded software
Simuloop is a cloud-based ADAS validation platform

**Challenge**

- Development and validation of autonomous driving (AD) vehicles requires billions of kilometers test drives
- this can not be done in real life

→ **most of the test drives for AD vehicles can be done in a virtual world**

**Solution**

- Cloud-based service for AD development and testing
- Open approach for multiple simulation tools, e. g. CARLA, TESIS
- Leverage AI for scenario identification
- Test planning and workflow management

**How it works**

- Simuloop Full Stack Platform
- **Simulation Software**
- **Web - UI**
- **Integration**
- **Service**
- **Infrastructure**
- **World/Content**
- **Simuloop Users**
- **Simuloop Partners**

**Benefits**

- Accelerate vehicle development & test
- Apply agile principles to automotive engineering (continuous delivery)
- Use well defined test scenarios
- Reduce cost for computing, storage and network
NTT DATA ADAS Validation Platform
Simuloop Demo

Simuloop Introduction

Scenario Recognition