Vehicle ICT Arena
Competence & Innovation Node

VICTA Lab –
Supporting the vehicle software eco-system
2017-03-22
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VICTA Lab

Function Developers

Future innovation cloud

Off-Board platform

On-Board platform

Test bench

FFI Second Road F2

VTI Sim IV

Developer Zone (developer support)

SDK:
IDE, API, Platform emulator

AGA

Vehicle MIL/HIL simulator

Desktop simulator

(Developer-in-the-loop)

Platooning

Autonomous Parking

SDK = Software Development Kit
IDE = Integrated Development Environment
API = Application Programming Interface
MIL = Model-in-the-loop
HIL = Hardware-in-the-loop
Vehicle MIL/HIL simulator

- Developed as part of FFI Second Road F2
- Developed by VCC, VTI, Semcon, HiQ, and RISE Viktoria
- Launched 2017-03-22
- Supports development and testing of active safety functions and infotainment applications
- 3 demo cases implemented for user inspiration
- Located at Lindholmen Science Park
Vehicle MIL/HIL simulator

Simulation environment on VIP platform

Vehicle simulator run

VIP SW

PC HW

Test scenario

Environment, driving, core, and data logg

Simulation on VISIR

Camera stream

VISIR SW

PC HW

Simulation HW (Exynos 5)

Vehicle simulator run Simulink models on the Scalexio platform

Cloud Services (TBD)

SPA models Center - stack display (touch screen)

Audio system

CAN

Flexray

Ethernet

WiFi

Noise system

Test scenario

Driver I/F with visual system

VICTA_Open_Model 3PP (Third Party Product)

VIP SW

Camera stream

PC HW

VISIR SW

Camera stream
DEMO-CASE

ELECTRONIC HORIZON
BASED CURVE ADVISOR

See the road ahead...
Using on-line maps, road condition reports etc...
DEMO-CASE IMPLEMENTATION: ELECTRONIC HORIZON BASED CURVE ADVISOR
Upcoming activities

- VICTA lab launch at VICTA Innovation Bazaar 22/3
- FFI Simulation Scenarios (Started in March, common scenario descriptions & toolchain at VCC, Volvo, VTI, VICTA, AstaZero)
- FFI Open Innovation Lab (Kickoff in April, VICTA DeskSim & collaboration between VCC, Volvo, VTI, Semcon, HiQ, Viktoria)
- DOIT (Application submitted, Truck experiment platform for AD at VICTA lab, SAFER ReVeRe, Drive Sweden, in collaboration with Volvo)
- Several projects in discussion phase
How do I get access?

- Information and downloadable resources at VICTA lab web site for inspiration
- Hourly fee for direct use of the MIL/HIL simulator
- FFI projects for extended use cases
- User Agreement and Security Policy
- Technical support
VICTA Lab located @ LSP, Göteborg

Contacts

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