



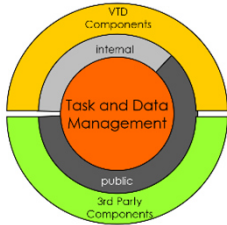
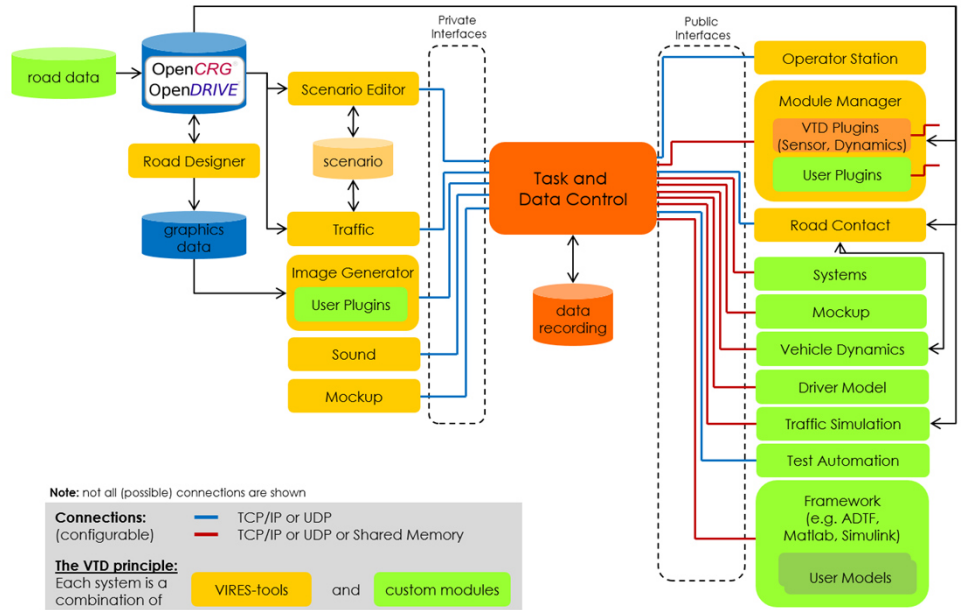
VIRES Virtual Test Drive®

VIRES Virtual Test Drive (VTD®) is a complete tool-chain for driving simulation applications.

VTD provides a modular tool-set for road generation, scenario definition, traffic and sound simulation, simulation control, image generation etc. It uses established standard file formats.

VTD provides open interfaces for 3rd party components and a plug-in concept with API for 3rd party modules.

VTD is an established software package which is in service at numerous installations in the automotive and railroad industry.



VTD supports **OpenDRIVE®** **OpenCRG®** **OpenSCENARIO**



The Components in Detail:

- Road Designer ROD®** *interactive road network editor*
 - road design for roads in Europe / USA / China etc.
 - extensive libraries of 3d objects, textures etc.
 - creation of tiled databases
- v-TRAFFIC** *traffic / scenario editor, monitor and simulation module*
- v-SCENARIO**
 - autonomous and deterministic traffic
 - custom trigger options / simulation control
 - pedestrian simulation
- v-IG** *high-end image generator*
 - real-time shadows / sun-glare / weather effects
 - environment mapping
 - fish-eye distortion / warping / blending
 - real-time ray-tracing
 - high-dynamic-range rendering
 - infrared module
 - high quality headlight visualization
 - on-the-fly video generation
- v-TaskControl** *core module*
 - task and data management
 - simulation control
 - record/playback functionality
 - gateway for 3rd party modules

Add-on Modules:

- Sound
- OpenDRIVE Gateway
- Interfaces to Simulink®
- Interface to ADTF®
- Simplified GUI
- Data Recorder
- Sensor Plug-ins:
 - Perfect Sensor
 - Camera Sensor
 - Crash Sensor
 - Lidar Prototype
 - Radar Prototype
 - etc.



VTD is Linux-only.