



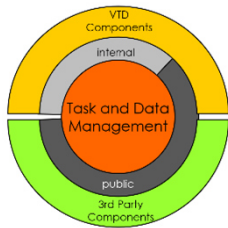
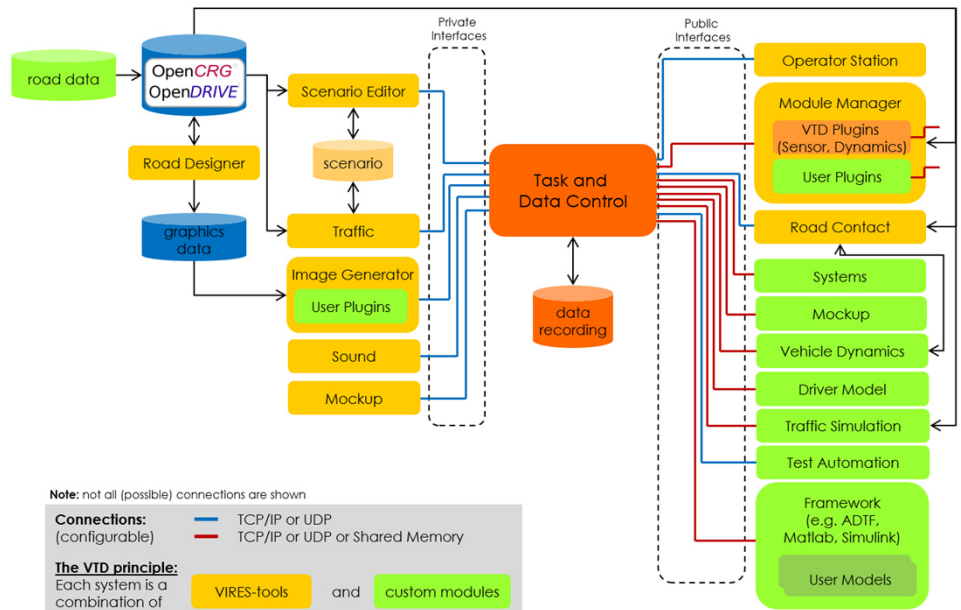
VIRES Virtual Test Drive®

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® | <p><i>interactive road network editor</i></p> <ul style="list-style-type: none"> • road design for roads in Europe / USA / China etc. • extensive libraries of 3d objects, textures etc. • creation of tiled databases |
| v-TRAFFIC
v-SCENARIO | <p><i>traffic / scenario editor, monitor and simulation module</i></p> <ul style="list-style-type: none"> • autonomous and deterministic traffic • custom trigger options / simulation control • pedestrian simulation |
| v-IG | <p><i>high-end image generator</i></p> <ul style="list-style-type: none"> • 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 | <p><i>core module</i></p> <ul style="list-style-type: none"> • 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.