

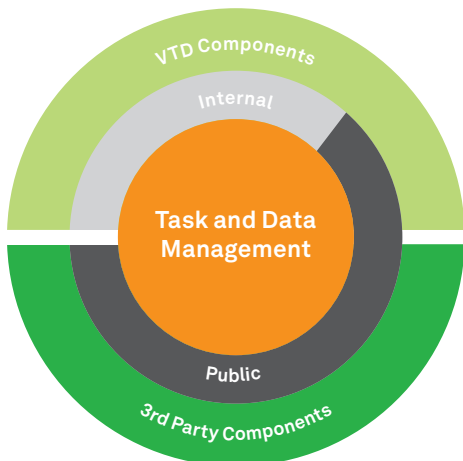
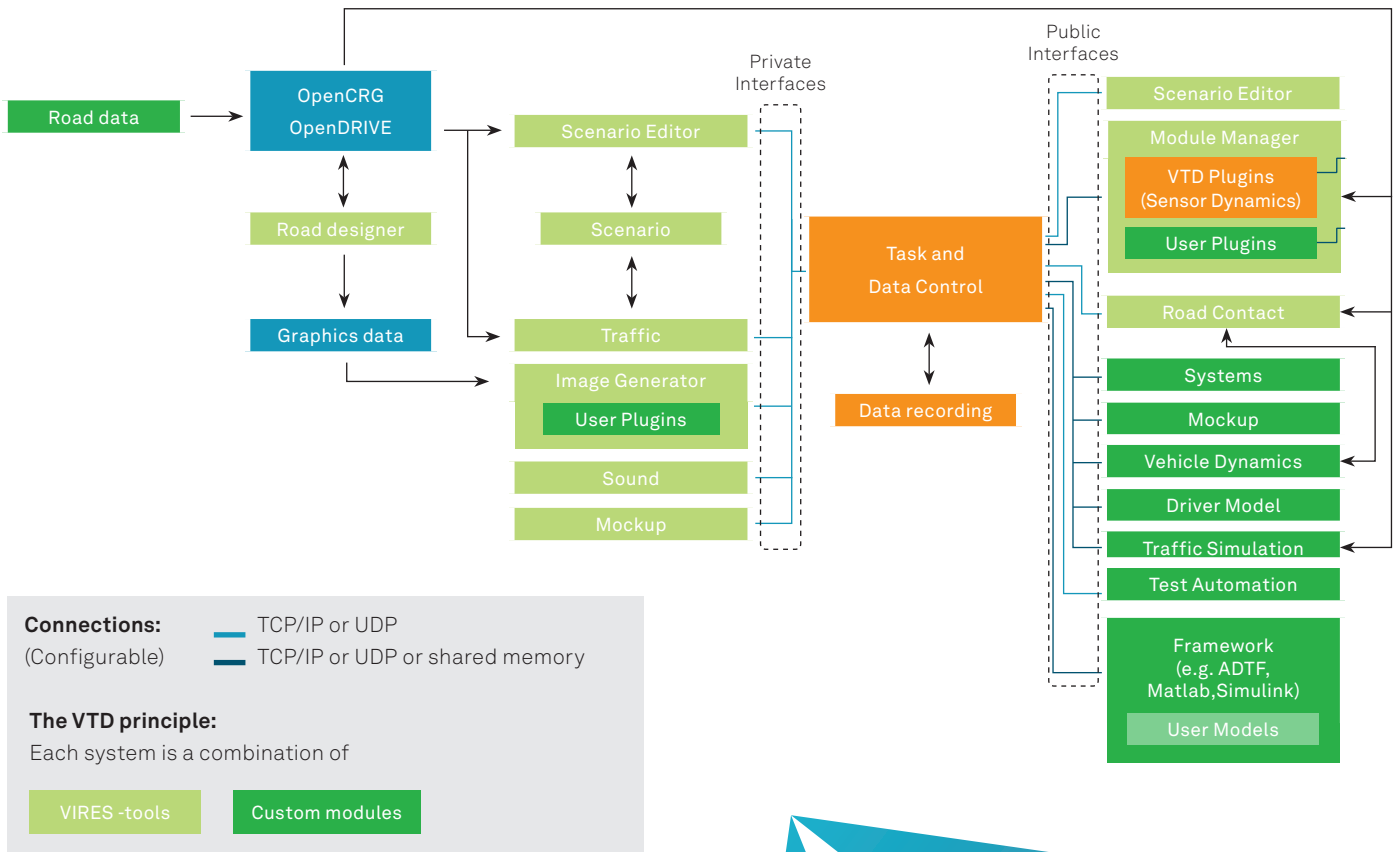
# VIRES Virtual Test Drive®

VIRES Virtual Test Drive (VTD®) is a complete toolchain for driving simulation applications

VTD provides a modular toolset 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.





## 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

#### v-SCENARIO

Traffic / scenario editor, monitor and simulation module

- 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.



Hexagon is a global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications.

Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon's Manufacturing Intelligence division provides solutions that use data from design and engineering, production and metrology to make manufacturing smarter. For more information, visit [hexagonmi.com](https://hexagonmi.com).

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