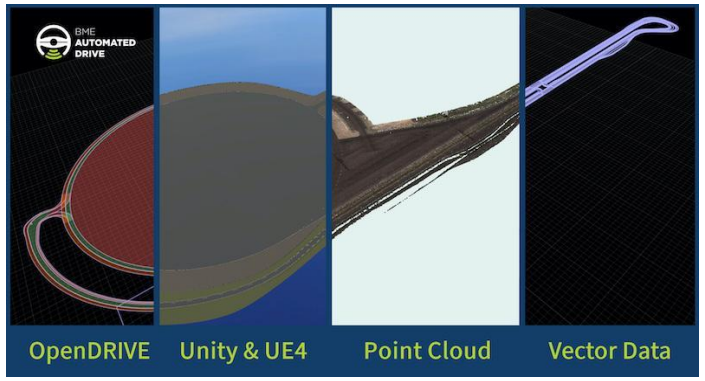
ZalaZONE Proving Ground - 2022 May

Available elements in use:

1. Motor road
2. Dynamic platform
3. Braking surface
4. Smart city
5. Conference centre
6. High-speed handling track
7. University track
8. Test centre
9. ADAS surface
10. Motorway
11. Noise meas. track
12. Wet handling track
13. Rural roads
14. Slopes

zone

Combination Virtual and Physical Testing at ZalaZONE



Static and Dynamic ground truth

- HD map of the area
- Infrastructure sensor based digital twin dynamic data (Real-time or Offline)
- Differential GNSS based dynamic data (Real-time or Offline)
- Drone based sensor information (Offline evaluation)

Creation of highly detailed digital copy of the real-world traffic

- Static level with HD map information
- Real-time dynamic Information based on Infrastructure and vehicle sensors (GNSS, dynamic data and perception data) data
- Derived data from dynamic information (e.g. Traffic density,…)

Real-time communication of the Digital Twin data

- Available now via Collective Perception Message (CPM) and SENSORIS standards
- Low latency, DSRC and 5G communication support

zone

Combination Virtual and Physical Testing at ZalaZONE

Mixed-Reality Test Support at ZalaZONE

Mixed reality solution provides more freedom in testing

- Cheaper, safer and faster option for reproducible testing

Mixed Reality scenarios contain real and virtual objects at the same time

- Real-time digital twin is running continuously
- Virtual objects can be injected into the scene, impacting the Vehicle Under Test's behavior (ViL)
- System can control real test elements (ADAS targets, remote vehicles) at the same time