

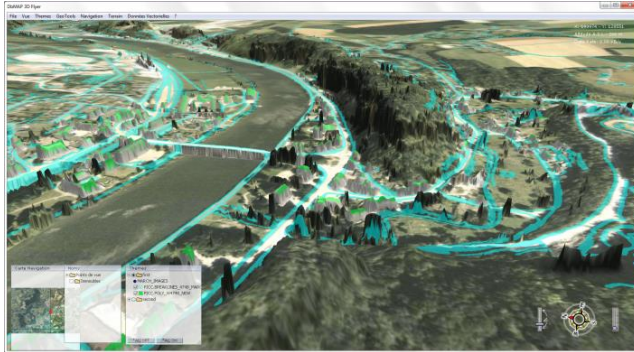
# 3D

## Description of the project

Three dimensional data is used increasingly often, enabling numerous analyses such as the extent of shadows, streamflow, movement of air and the dispersion of noise in the urban environment, a posteriori analysis of road accidents etc. Oracle can **store a large quantity of data in 3 dimensions** and can also **generate Triangulated Irregular Networks (TIN), point clouds, volumes** representing buildings etc. OSCARS can help optimise use of 3 dimensional data.

## Illustrations

Visualisation of an MNT and vector data stored in Oracle using the Abaco software (conducted by OSCARS for the Public Service of Wallonia)



Visualisation of buildings extruded and stored in Oracle using Google Earth (conducted by OSCARS for the Public Service of Wallonia)



## Technologies and prerequisites

- Oracle Database Enterprise Edition
- Oracle Spatial Option
- Data in 3D or in 2,5D (2D + altitude) (vectors, volumes, Lidar, point clouds etc)
- Software for visualisation of data in 3D (Oracle 3D viewer, Abaco etc)

## References

Public Service of Wallonia

## Kit for implementation of the project

- Training: Pro Oracle 3D 11G - Introduction (1 day for an overall introduction, 3 days for a complete training including exercises)
- Creation of a TIN (2 to 5 days)
- Creation of a point cloud (2 to 5 days)
- Extrusion of buildings and generation of volumes (3 to 5 days)
- Visualisation of 3D data using an appropriate software (Oracle 3D viewer, Abaco etc) (3 to 10 days)

The number of days indicated is for guidance. Each project is different and may require a variable number of days. An estimate is required before the beginning of each project. In addition, this kit enables implementation of the project so that the customer can subsequently carry out the project autonomously. It is not an A to Z assessment of the project.

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