



Simulating, assessing and improving GNSS reception in urban environments

SE-NAV is a new product dedicated to the assessment of GNSS signals reception in stringent environment. This software predicts the performance of systems such as GPS, COMPASS or GALILEO integrated into 3D virtual scenes representatives of real urban areas. SE-NAV provides user with output to estimate and to locally improve the signal reception in a given environment.

### Main Features:

- Kernel (Orbit computation, Ray Tracing calculation)
- Constellation design capabilities
- Advanced emitters sets: repeaters, pseudolites, ...
- Custom 3D terrain import
- Physical material manipulation
- Electromagnetic settings

### Main Outputs :

- 3D display of scene and results
- 3D multipaths display
- Visibilities reports
- Dilution Of Precision (DOP) reports
- Multipaths delays reports
- 3D visibility mask display
- Error budget assessment reports
- Signal to Noise Ratio computation
- Doppler shift reports

