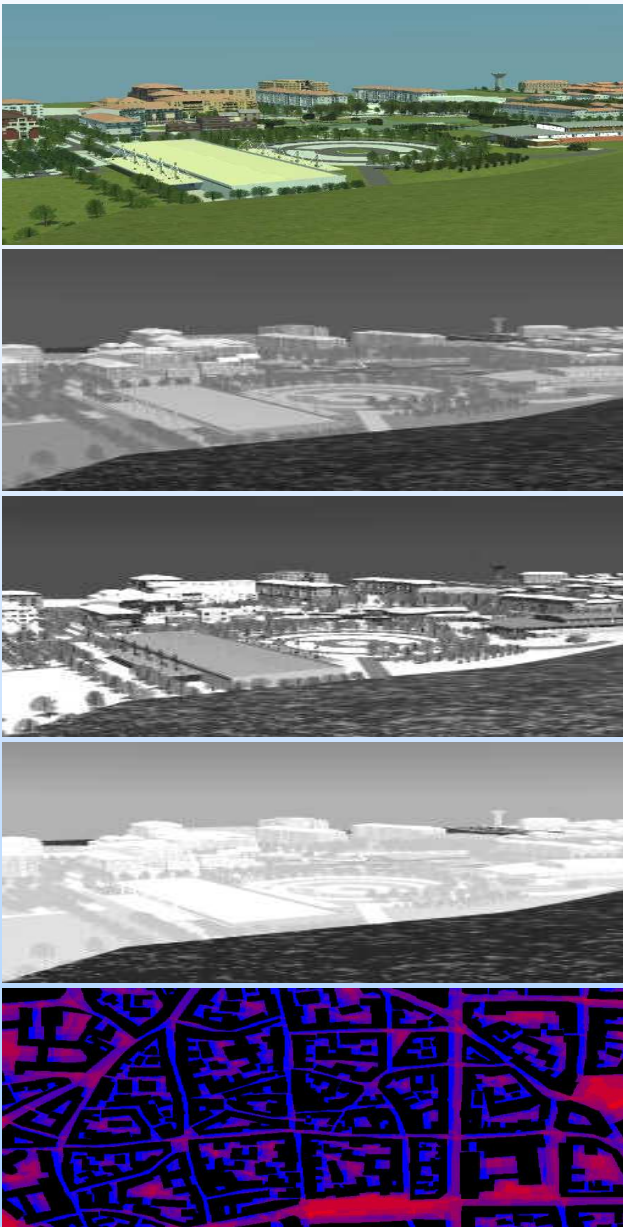


OKTAL-SE

The **S**ynthetic **E**nvironment and **S**ensor Company

Synthetic Environment Modeling - Sensor simulation COTS software
Integrated solutions for 3D real-time simulation

Predictive physics and advanced sensor phenomenology simulation



OKTAL-SE is a French SME, the European specialist editor of **sensor simulation COTS software** for Research and Development as well as for Real-Time immersive training applications.

OKTAL-SE is the editor of the world class product **SE-Workbench** software considered as a reference for several MoD around the world.

The **SE-Workbench** simulation suite offers a coherent solution for **synthetic environment modeling** and for **sensor simulation** in the following wave bands:

- Electro-Optic (visible & infra-red),
- and Radio-Frequency (electromagnetic domain).

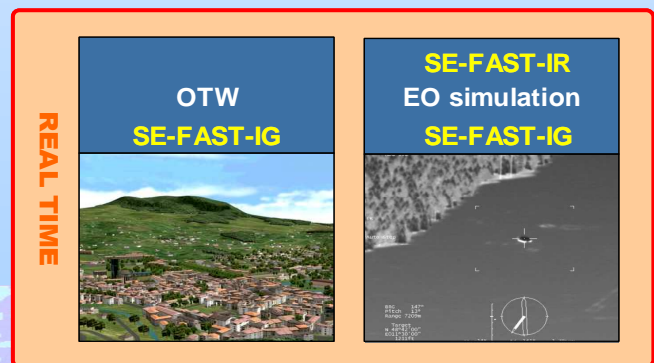
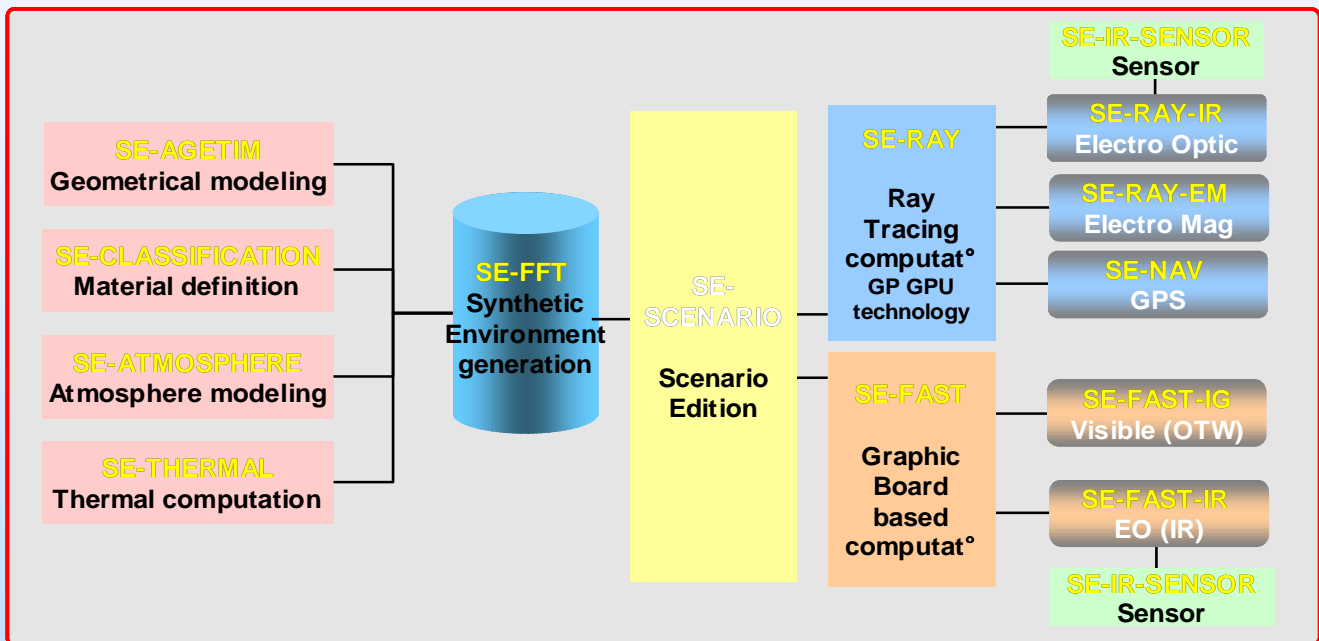
An application dedicated to GPS coverage assessment completes the offer.

They all combines ray-tracing technologies with state of the art graphic-rendering techniques to enable the best in sensor simulation.

NON-REAL-TIME – REAL-TIME – MULTI-SPECTRAL – VIRTUAL 3D

HYPER-SPECTRAL – HARDWARE IN THE LOOP – INFRA-RED – LASER – RADAR – GPS

SE-Workbench : One unique approach to multi-sensor simulation



Company skills

1 - Simulation Software

- Software catalogue
- Training sessions
- Maintenance

2 - Synthetic Environment Modelling

- 3D Terrain & Object catalogue
- Production of Synthetic Environment on demand

3 - Tailor made customer focused solutions

Customer short list

DGA, ONERA, BWB (WTD81), FGAN-FOM, FGAN-FHR, DLR, FOI, MnD South-Korea, DSO, MBDA-FR and UK, SAGEM-DS, EADS-DS, EADS-MA, TAS, TAD, Diehl-BGT, INSTA, UE (FP), ANR, CNES, FT R&D,...

SE-Workbench success stories



Supported by the French MoD within the CHORALE project for more than 10 years and used as a common analysis tool for programs involving sensor simulation studies.



BWB

Jointly acquired by the German MoD, Research Centres and Industry for sensor systems validation and qualification.



Approved by MBDA on the missile program.



Used by SAGEM for the AASM missile development.



Acquired by THALES and INSTA for the training platform delivery of the CROTALE-NG system for the Finnish Forces.

R&D partners



Associated technologies



3DSmax™



SE-Workbench use cases



SE-Workbench-EO

Spectral visible image using global illumination and photon-maps.



SE-Workbench-EO

Spectral infrared image combining fluid dynamics and ray-tracing.

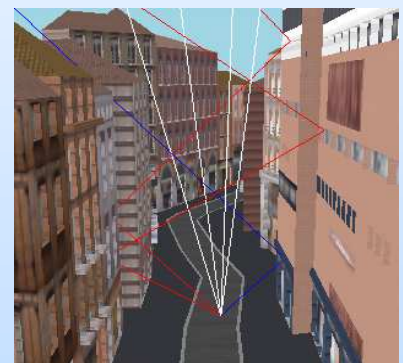


SE-Workbench-RF

35GHz Synthetic Aperture Radar (SAR) image of rural area.

SE-Workbench-GNSS

Reception assessment in urban canyon – GPS + pseudolites.



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