

# Synthetic Environment modeling and SEnsor simulation

OKTAL-SE is the French editor of the world class product **SE-WORKBENCH** software considered as a reference for several MoD around the world for research simulation. **SE-WORKBENCH** aims at computing the response of a 3D scene in Electro-optic and Radiofrequency domains. The performances of visible camera, infrared sensor, radar and GNSS receiver can be analysed in any locations all over the world and in any atmospheric conditions.



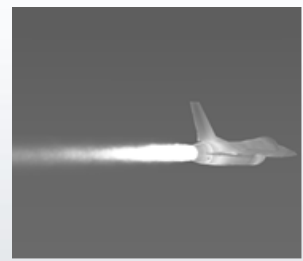
**SE-WORKBENCH-EO**  
Spectral visible image



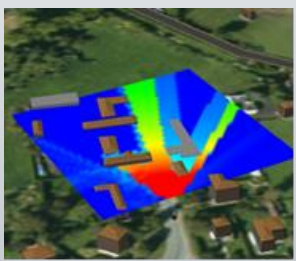
**SE-WORKBENCH-EO**  
Infrared sensor simulation



**SE-WORKBENCH-AEO**  
Active EO simulation



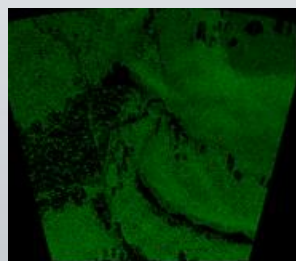
**SE-WORKBENCH-EOS**  
Infrared signature of aircraft



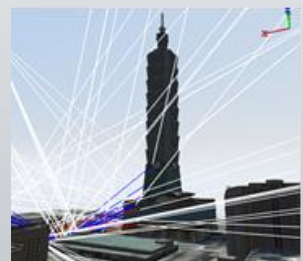
**SE-WORKBENCH-RF**  
1GHz 100GHz RF signal propagation



**SE-WORKBENCH-SAR**  
Synthetic Aperture Radar

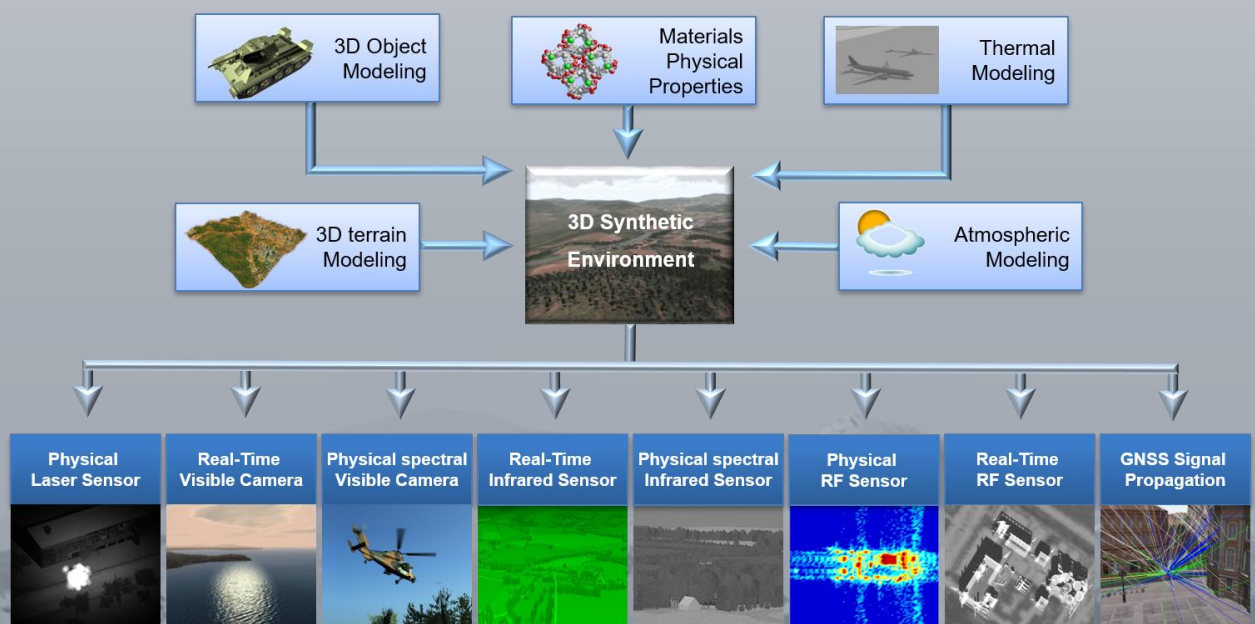


**SE-WORKBENCH-RGBM**  
Real Beam Ground Mapping radar

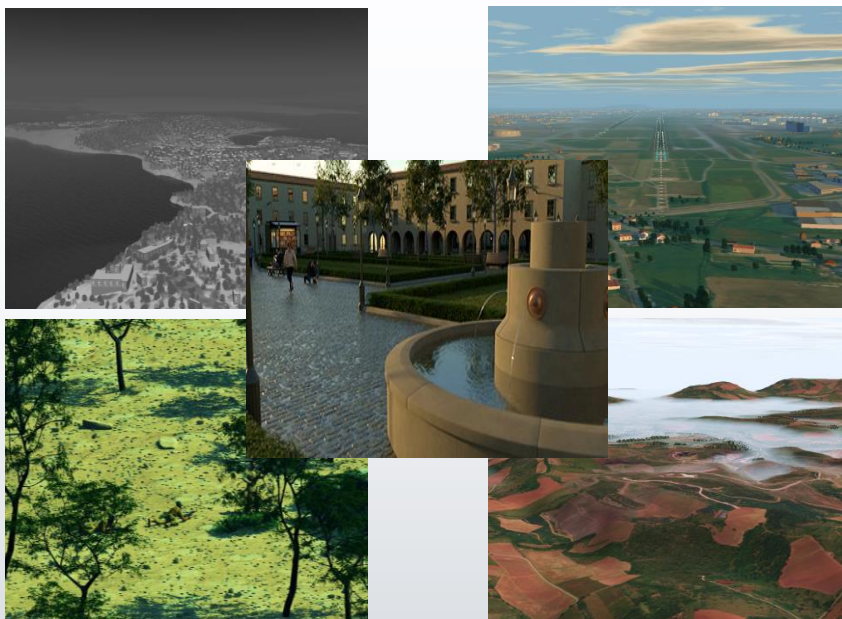


**SE-WORKBENCH-GNSS**  
Reception assessment in urban

## SE-WORKBENCH : « a unique approach for multi-sensor simulation »



## Creation of realistic 3D scenes



## SE-WORKBENCH applications

Our customers take the most of the SE-WORKBENCH simulation for the development and qualification of their sensor based systems in Defence, Aeronautics, Automotive and Telecommunication domains.

## Our references



Supported by the French MoD within the CHORALE project for more than 20 years and used as a strategic tool for programs involving sensor simulation studies.



Approved by MBDA on several missile programs. OKTAL-SE and MBDA\_Fr have signed in 2013 a partnership agreement on multispectral image simulation

