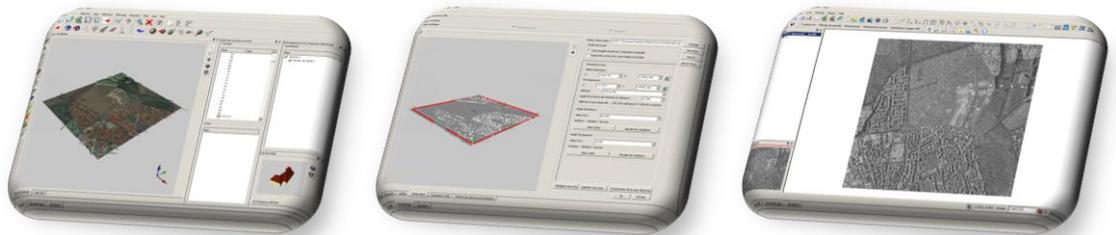


Innovative ideas for realistic SAR simulation

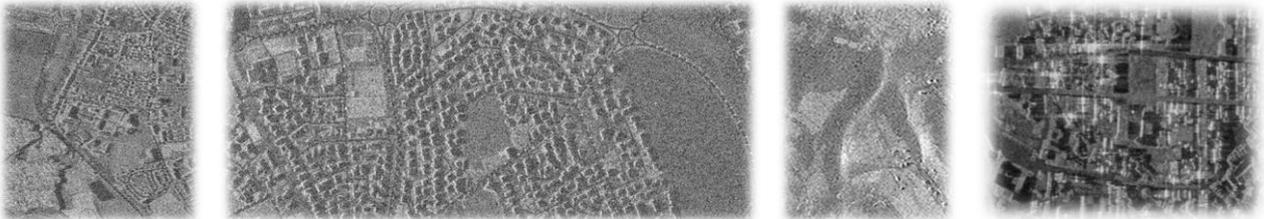
A complete package easy to use: with **DIONISOS**, creating and simulating is straightforward, and set-up times are extremely low. The **DIONISOS** software package provides a turn-key solution, with a creation studio, a material editor, an image generator and an image analysis tool all in one.

OPEN is proud to announce the release of its next version of **DIONISOS SAR Simulation** software.

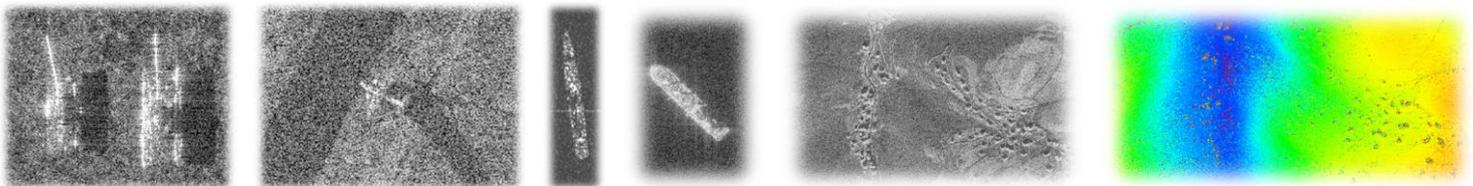


Technology: This physically-based simulator can produce high fidelity synthetic imagery. **DIONISOS** is able to provide **raw data** and **images** for **spaceborne** and **airborne** systems, **static** and/or **dynamic** scenes. Its complex creations, based on physically correct models and data, can help image interpreters to understand the content and various effects that SAR images might exhibit.

Educational purposes: SAR images sometimes appear difficult to understand. For educational purposes, this software offers an attractive way to explain capabilities and limits of SAR images; **DIONISOS** is a valuable tool to prepare operators to work with SAR images and to help them for image interpretation.



Assessment of new systems and algorithms: Many SAR studies suffer from the lack of raw data/images or control on SAR image content. Providing a wide variety of images and SAR effects (e.g. studies on scene content, SAR resolution, PSLR, nes, incidence angles, material properties...), **DIONISOS** appears as an interesting tool to assess new processing algorithms and to tune them afterwards (e.g. ATR, Interferometry).



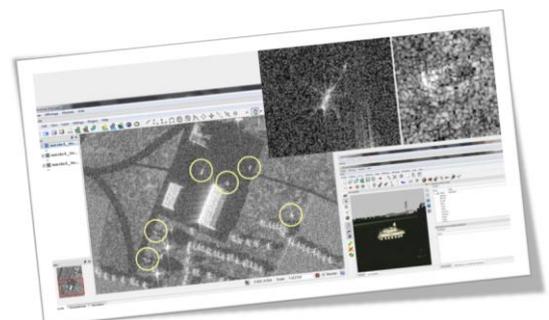
To summarize, **DIONISOS** main features are:

- Intuitive 2D/3D GUI (in english).
- Fast generation of 3D scenes (STUDIO).
- Material properties editor.
- Parametric studies.
- Image Analysis (ANALYST).
- Slant Range Projection.
- Efficient Visibility computation.
- EM methods or measurement data for diffuse effects.
- Dihedral and trihedral effects.
- Moving vehicles.
- SLC image or Raw Data simulation.
- Interferometry/Radargrammetry/Polarimetry.
- Image formation algorithms (RDA, Chirp Scaling, Omega-K).
- Geocoded products.

Point of contact: Reynald DUMONT
OPEN RENNES (FRANCE)
+33 (0)2 99 12 71 71

Reynald.Dumont@open-groupe.com, <http://www.open-groupe.com/expertise-defense-spatial>

*"The provision and use of **DIONISOS** SAR simulated images has been a cost effective and efficient way of supporting our SAR training courses. **OPEN** has been a reliable partner perfectly matching with our requirements and beyond" E.U. SatCen*



To simulate SAR images and raw data of complex and extended scenes, **DIONISOS** is a fully functional **end-to-end SAR simulator** that has been developed & **validated** for **civilian** and **defence** applications, and used in many **scientific studies**, **radar courses** or **military applications**. This software is of great interest for all teams that are involved in SAR image analysis.