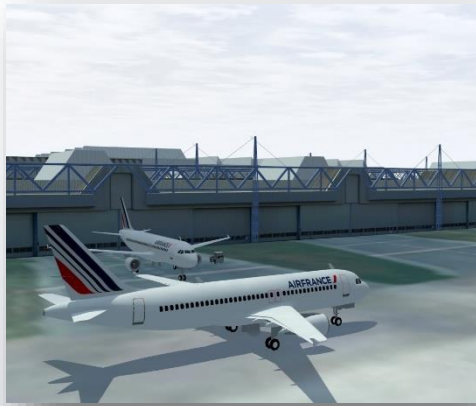
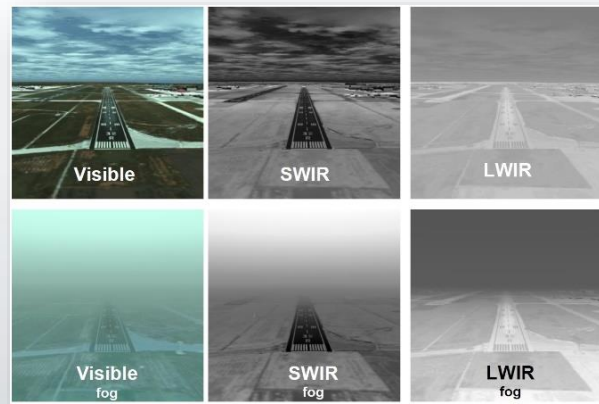


TRT: (Trusted and Resilient Trajectory)



Airport Database (Blagnac, Toulouse, FR)



Landing runway views

The TRT project sponsored by DGAC (Direction Générale de l'aviation civile) has been launched by **AIRBUS** in association with **OKTAL Synthetic Environment** and **ONERA**. This collaboration aims at improving the autonomy of landing aircraft.

As part of this project, OKTAL-SE is introducing the **SE-WORKBENCH-EO** as a new platform of sensor simulation to study the navigation functions based on vision. These functions will be used in the frame of SPO (Single Pilot Operation) and autonomous aircraft.

TRT is the declination of ATTOL experimentation for critical condition of landing such as night, visibility and fog... for which infrared sensors are needed to train the Image Processing algorithm (based on Artificial Intelligence).

OKTAL-SE is developing SE-AGETIM-AIRPORT. This version of the SE-AGETIM terrain modeling tool is focused on airport. Thanks to a semantic approach, many varieties of situations can be assessed such as categories like light approach and runway lights, topology of taxiways and runways (paralleled, crossed, marks and panels...)

3 work packages have been entrusted to **OKTAL-SE**:

- Physics based simulation qualification, realized in Toulouse Blagnac Airport synthetic environment.
- Creation of a real time simulation environment to test computer vision algorithms at landing, in close loop applications (SWIL)
- Development of an automatic builder of 3D airport synthetic environments