

Combining GIS Technologies with Defense Reconnaissance Tools

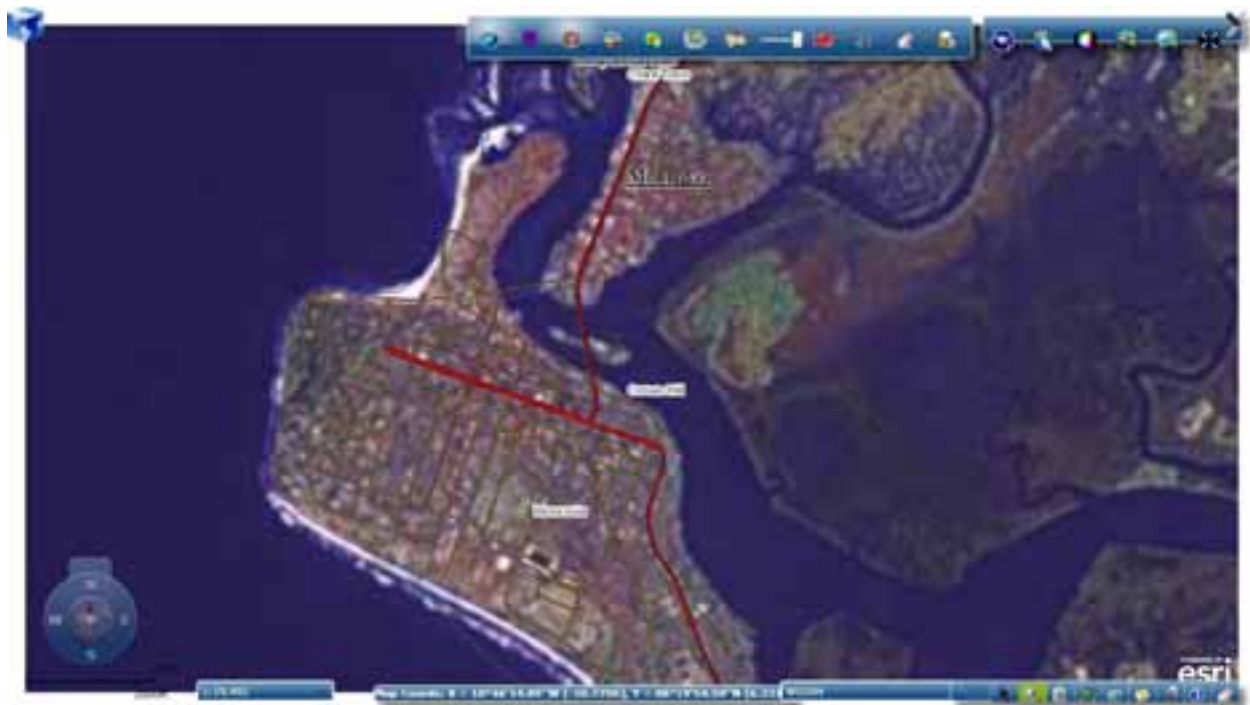
The EUSC

The mission of the European Union Satellite Centre (EUSC) is to support the decision-making of the European Union by providing analysis of satellite imagery and collateral data.

The EUSC is an Agency of the European Union. It is one of the key institutions for European Union's Security and Defense policy, and the only one in the field of spaces.

The Catalog

In 2011 the EUSC decided to develop a global web catalog of its satellite images, vectors and collateral data using ESRI Technologies and Silverlight. During the development phase it appeared very quickly that the technologies chosen allowed further functionalities without too much effort. It was then decided to add rapid analysis features and to integrate the already existing reconnaissance engines that the agency had previously developed in the same catalog.



The EUSC Catalog

The Reconnaissance Engines

Those tools are web applications based on databases containing standard descriptions of equipment based on visible characteristics that can be identified from satellite images or collateral data. The user chooses the criteria based on observation and the tool propose the relevant equipment list photos.

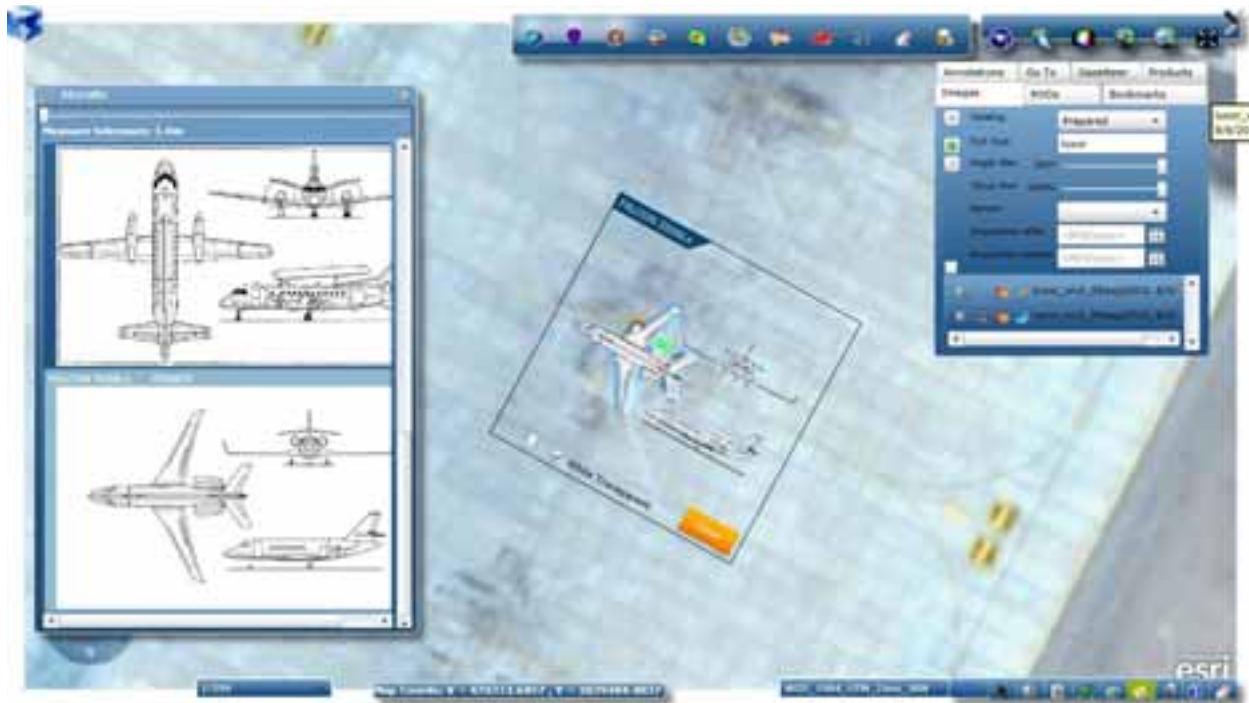


The EUSC Aircrafts Reconnaissance Engine

While such tools are efficient, they require the analyst to switch from the image he/she is analyzing to another application and to reproduce criteria that he/she was measuring using GIS software.

Integrating the Reconnaissance Engine in the Catalog

The ESRI Silverlight API and the capacities of Silverlight allowed an integration easy to develop and very simple to use by the analysts. With this integration analysts measure directly equipment on the image and obtain a list of candidates that they can superimpose with transparency on the satellite image to confirm that they match.



Superimposition of the blueprint of a Falcon 2000X on a satellite image of an airport



Identification of a ship

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