

Geo4i and Artificial Intelligence (AI).

Founded in 2014, Geo4i is a French company specialized in the processing and exploitation of geospatial information in the branches of Defense, Security and Safety. The imagery experts served for years at the ministry of defence.

Nowadays, we heard a lot about Artificial Intelligence. Considering his core business in imagery, Geo4i couldn't ignore the potential of AI for his future development. The number of satellites providing accurate data having dramatically increased recently and all the forecast plan that this will not stop soon, dealing strategically with a dramatic increase of volume of data to treat is an absolute necessity and AI represents a solid opportunity to select the right information at the right moment. From this statement, Geo4i has developed an automatic processing on its platform.

Based on his professional background from the ministry of defense, Geo4i took at first, distance with AI. As we know with our experience there are a lot of algorithms presented to the armed forces and the fact is that these algorithms do not work correctly. Indeed, specialists spent more time checking false alarms. So, there is a real need to trust the processing at the first launching.

Consequently, the objective for Geo4i is to identify directly the equipment. There are three steps:

- Identification (Type of equipment).
- Reconnaissance (Family of equipment).
- Detection (Class of equipment).

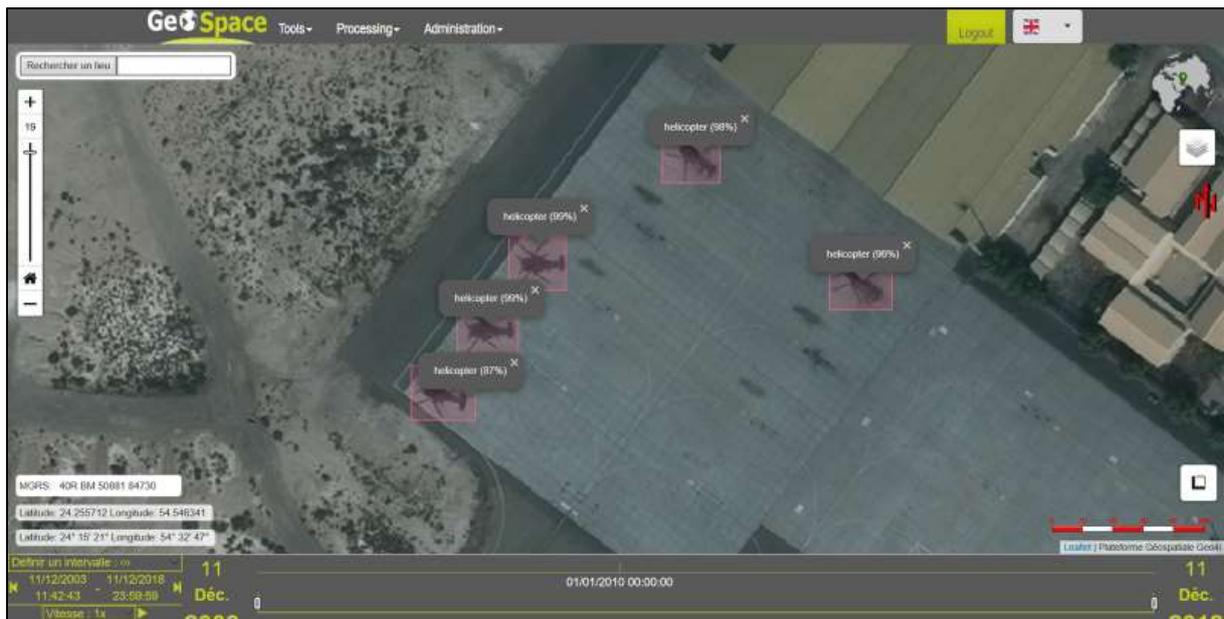
Thanks to the AI, we can prepare automatic reports.

- With a date, time, location ...
- With a high rate of confidence.
- With an accurate identification of the material.

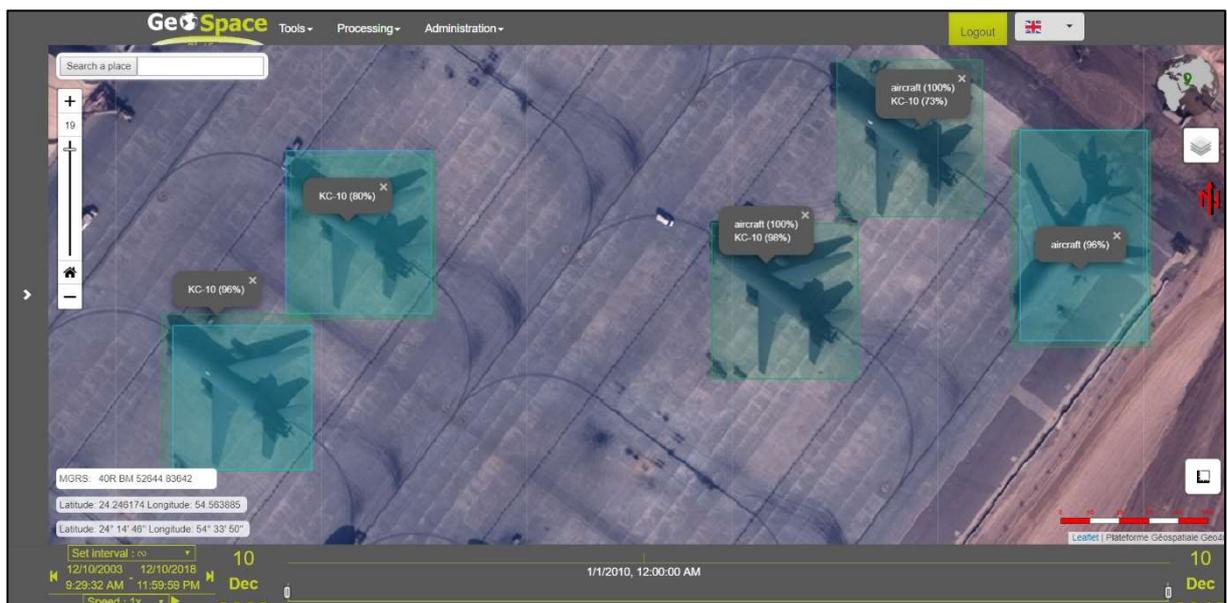
Our strategy is to bring the vision of an image analyst into AI and to save time for the specialist.

We produce analysis on different sites. We are focused so far on the airfield all around the world in order to identify the equipment in presence.

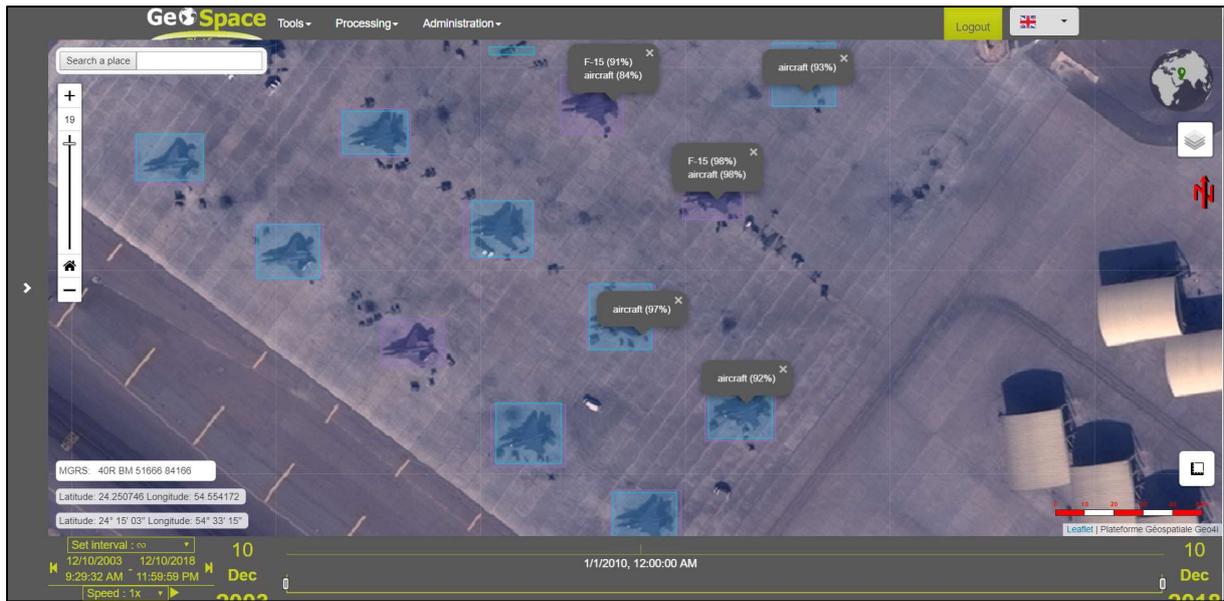
At this time the machine learning is done on the aircraft and helicopters.



It is possible to identify clearly an aircraft and to establish the differences between a fighter, a tanker, an electronic warfare aircraft...



...and finally, to obtain the name of the equipment with a high rate of confidence which is a remarkable challenge.



The machine learning at Geo4i is in continuous working progress and we are confident to show more equipment identified in the future with new evolutions of our artificial intelligence.