

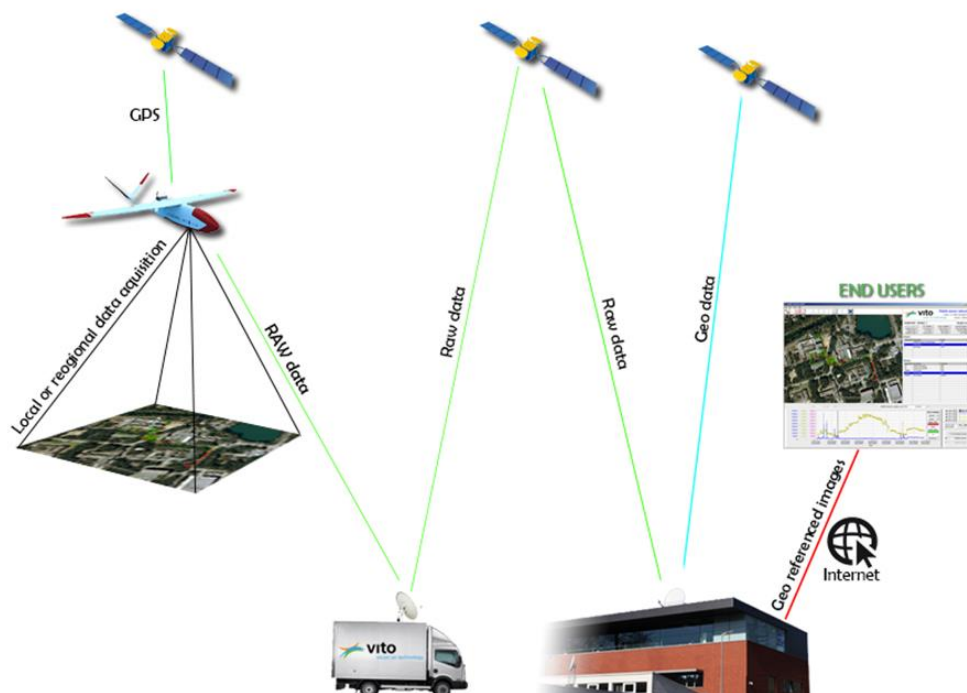
## Demonstration of Maritime Surveillance with RPAS

**Location :** Victor Horta 40, Brussels

**Timeframe :** Thursday 11<sup>th</sup> of October 2018 (depending on meteorological conditions)

A typical surveillance mission will be demonstrated using an RPAS operating at medium altitude during day time and providing live video imagery. The expected mission duration will be approximately 3 hours, mainly depending on the meteorological conditions. The main purpose of the operation is to monitor movements, behavior and actions of ships and vessels.

The demonstration will be given by **VITO** in cooperation with the LUMEN partners **NORUT** and **NEWTEC**. The flights are operated by NORUT and will take place over coastal waters outside Harstad in Norway.



For the demonstration the RPA will be equipped with a gimbal camera capable of acquiring both RGB and TIR video imagery. The acquired image data will be visible in a real-time video stream in the demonstration room in Brussels. All video data is recorded, geo-coded and remains accessible for further analysis by rewinding the video stream.

A communication system will allow the users to instruct the internal pilots to perform an action e.g. follow a vessel, identify the name of the vessel and map the water around the vessel for oil spills. From the video data an overview map is generated that can be consulted to get a static overview of the imaged area.

Special thanks to our partners that make this demonstration flight possible