

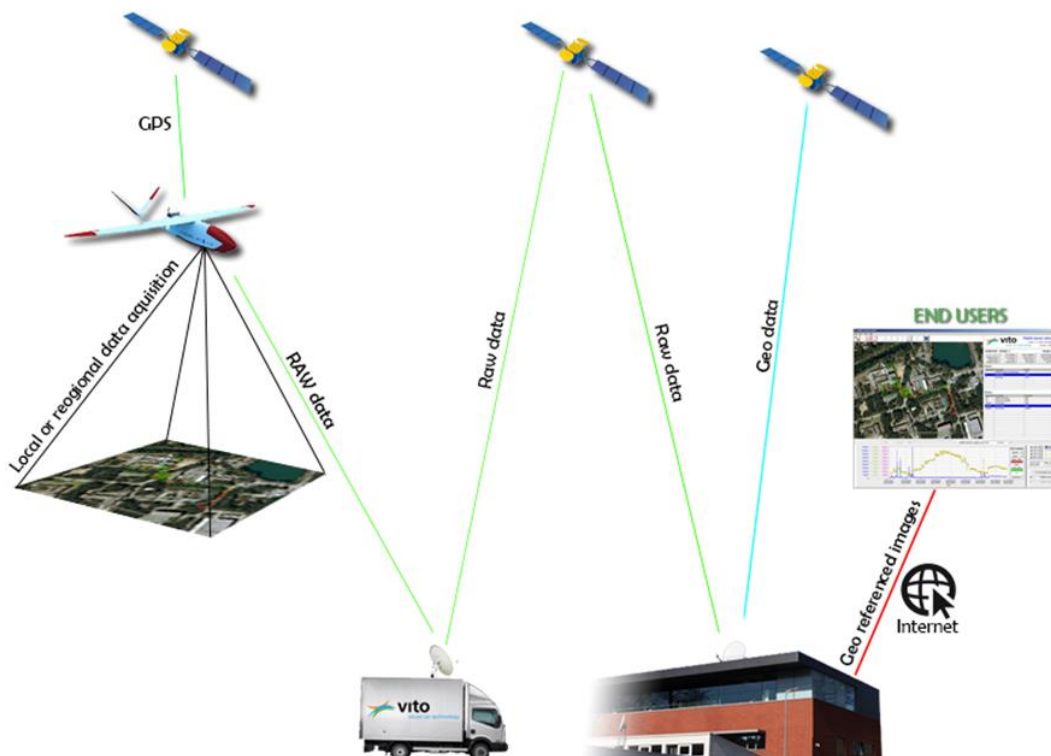
## Demonstration of Flood Monitoring with RPAS

**Location:** VITO premises, Roderveldlaan 5, Antwerp

**Timeframe:** Tuesday 9<sup>th</sup> of October 2018 (depending on meteorological conditions)

A typical flood monitoring mission will be demonstrated using an RPAS operating at medium altitude during day time and providing RGB and IR imagery. The expected mission duration will be approximately 20 minutes. The main purpose of the operation is to estimate the extend of a flooded area. The flooded area is simulated by flying over a make lake and river delta.

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 the Øvrevatnet lake area near Elvenes airstrip.



For the demonstration the RPA will be equipped with both RGB and TIR camera. The acquired image data will be visible in real-time in the demonstration room in Antwerp. All data is recorded, geo-coded and remains accessible for further analysis. After the flight the operated will be able to indicate the estimated flooded area in a web application.

A communication system will allow the users to instruct the internal pilots to perform an action e.g. an additional pass over the lake.

Special thanks to our partners that make this demonstration flight possible