

senseFly

Autonomous flying sensors



GeOnG 2012

6th November 2012

Safe & easy UAV for mapping

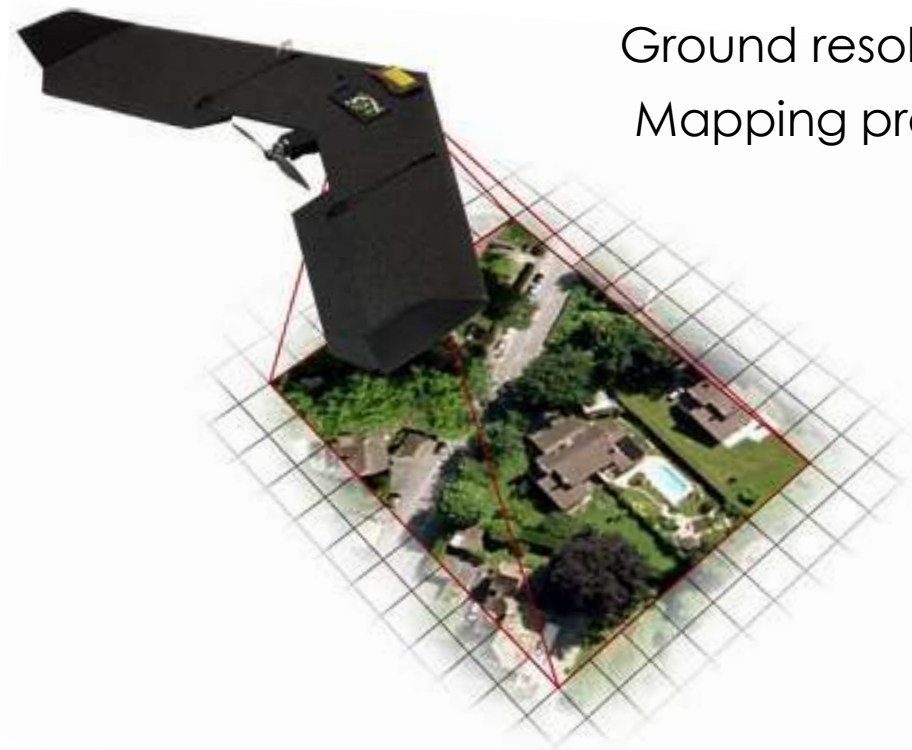
80 cm wingspan, 500 grams total weight

Fully autonomous, hand-launched

Covers up to 1'000 ha in 30 minutes

Ground resolution 3-30 cm/px

Mapping precision 10-20 cm



Recommended retail price: 8'300 EUR

Market

- » Classical GIS segments:

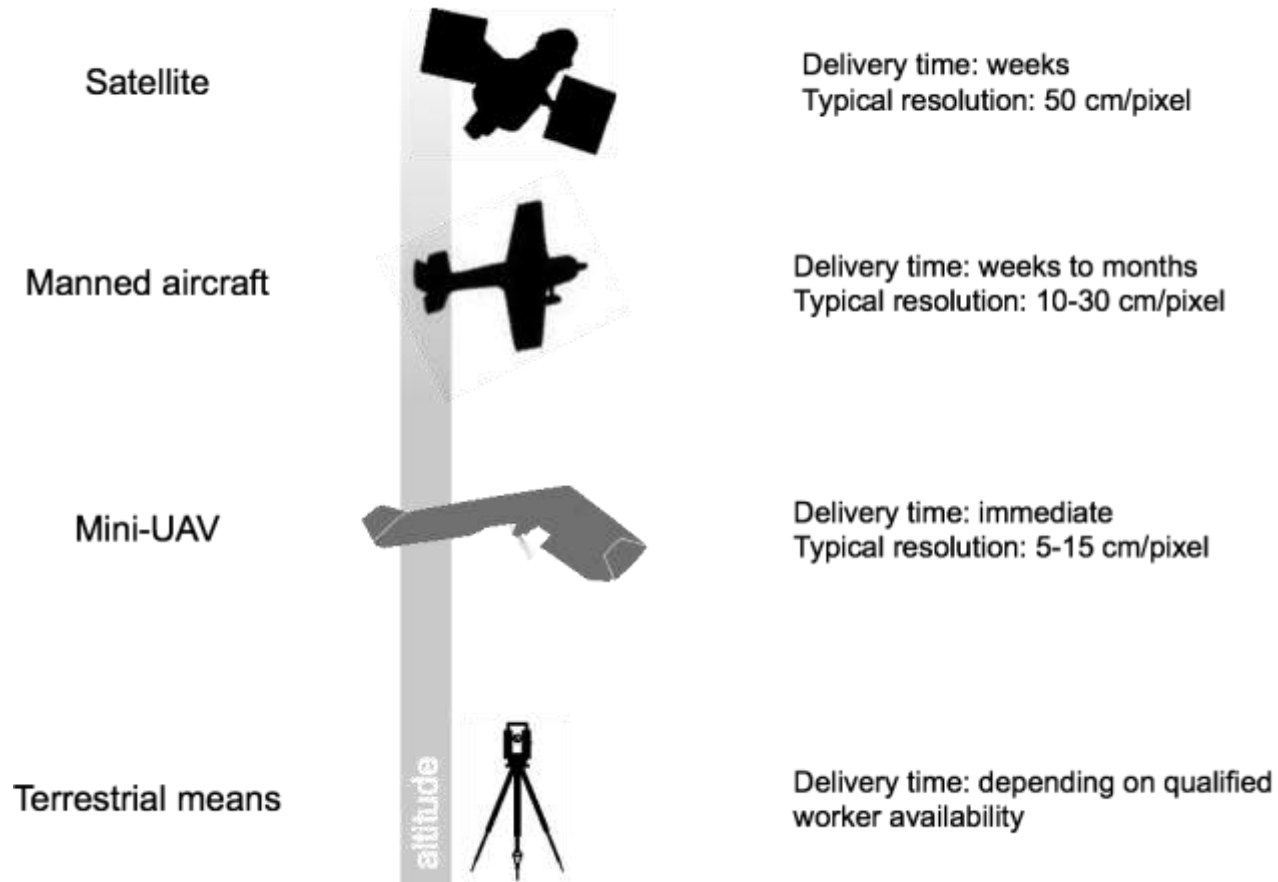
- » Monitoring of construction sites & infrastructures
- » Land management
- » Mining

- » Emerging segments:

- » Precision agriculture and livestock management
- » Science & environment (ex. nature protection, wild-life monitoring, archeology)
- » Humanitarian aid (ex. UNOSAT, GICHD)

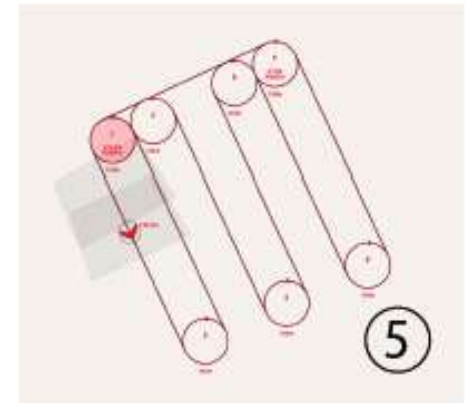
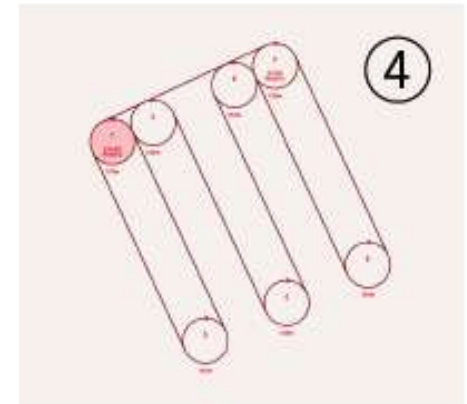
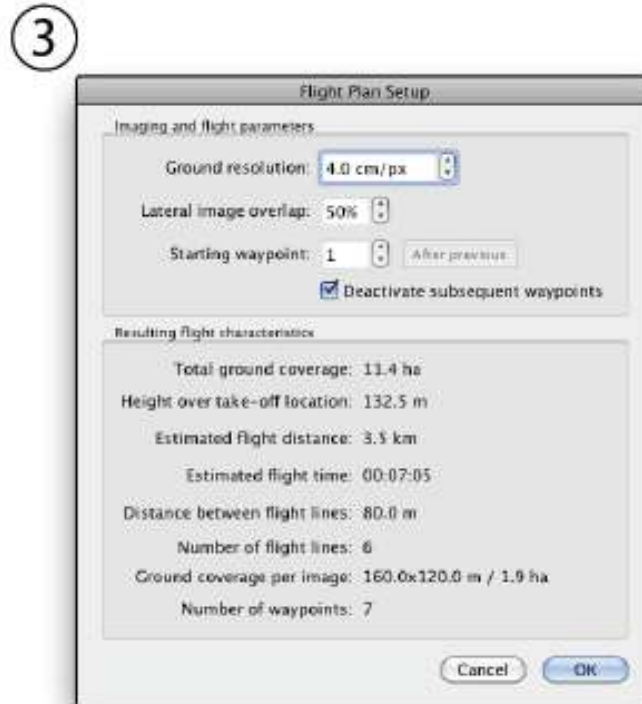
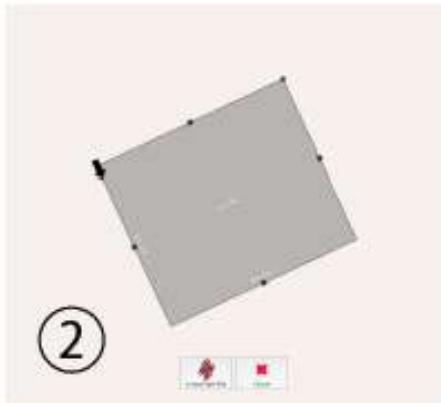


Filling a gap



Automatic flight planning

automatic flight planning



Area that can be covered during one flight (0.5-10km²)

This depends on the flight altitude (and thus the ground resolution):

At **150 m** (ground resolution of 5 cm/pixel), one flight covers nearly **1 square km**.

At **300 m** (ground resolution of 10 cm/pixel), one flight covers about **2.5 square km**.

At **1000 m** (ground resolution of 30 cm/pixel), one flight covers up to **10 square km**.

After the flight

Download images



Direct interpretation

senseFly Software



Geo-tagging & Google Earth
visualization

external Software



Mosaicing
Georeferenced Orthophotos
3D Point Clouds

