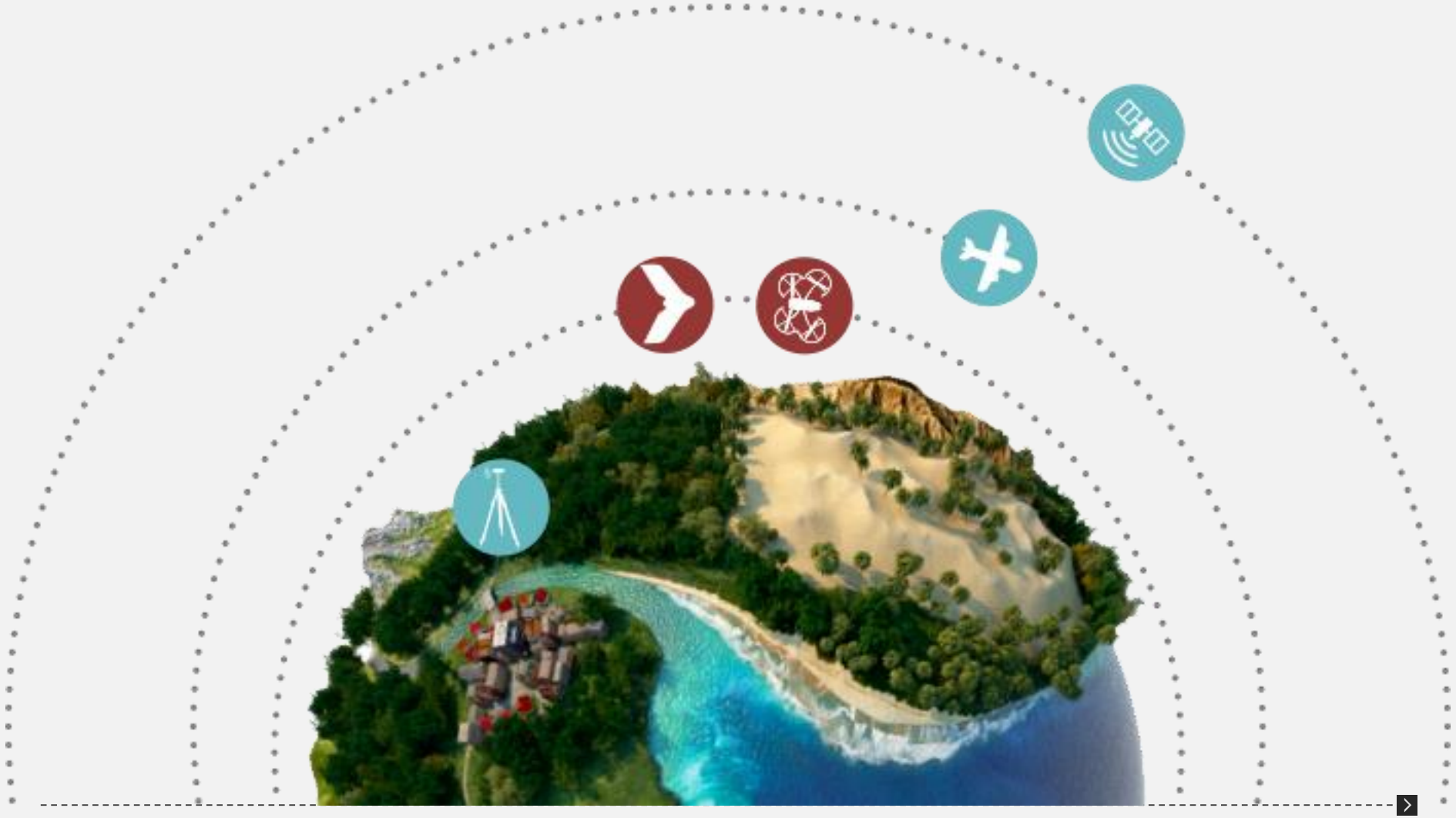
senseFly
a Parrot company

INNOVATION IN RISK MAPPING

DRONES & MORE

DAVID ROVIRA

Filling the gap

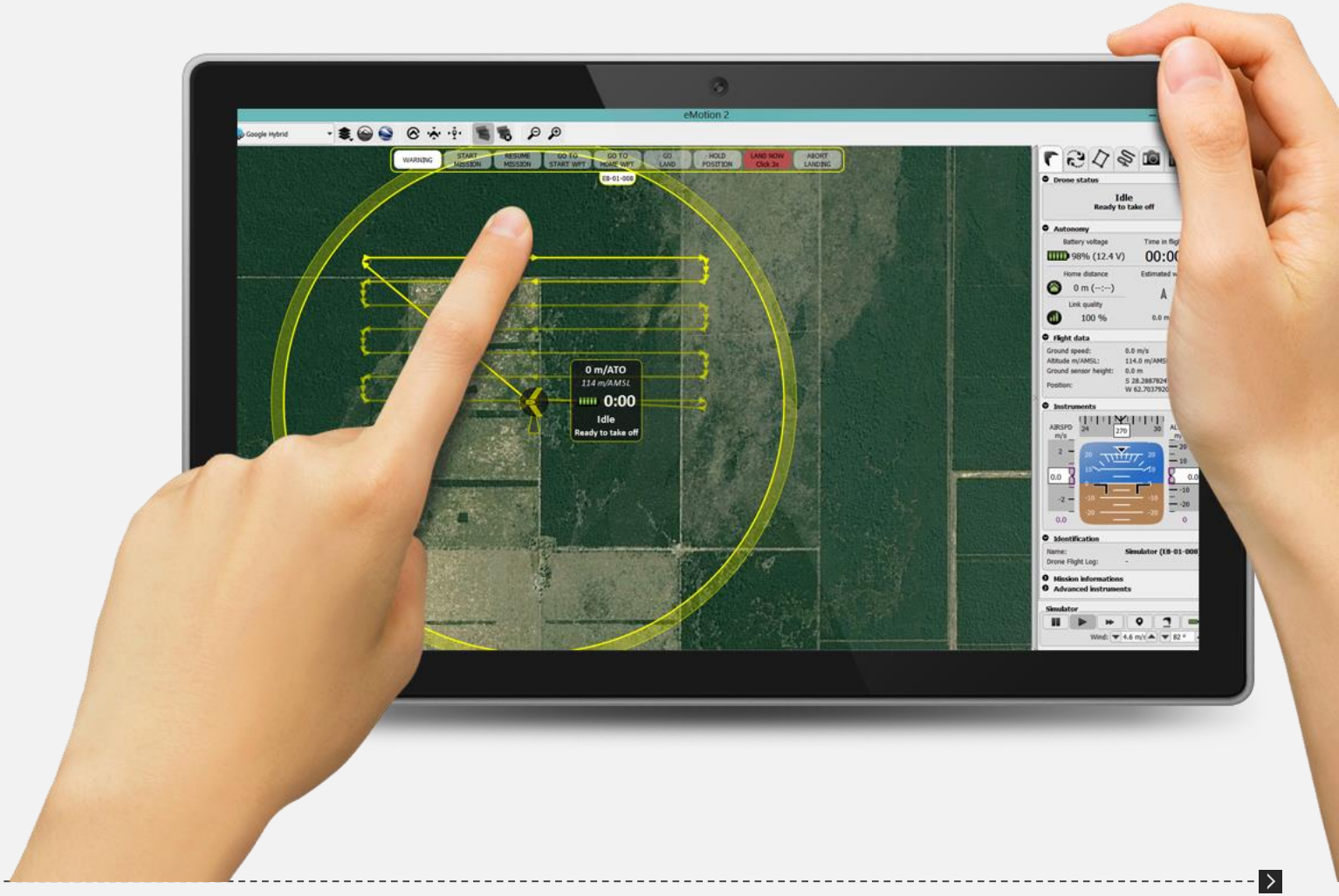


The eBee

- Minimal take off / landing space required
- **Less than 700g**
- Very low impact energy
- 45 minutes flight time, **covers up to 10km^2**
- Fully autonomous
- Works with multiple payloads

The flight plan

Plan, simulate, monitor and control your flight.



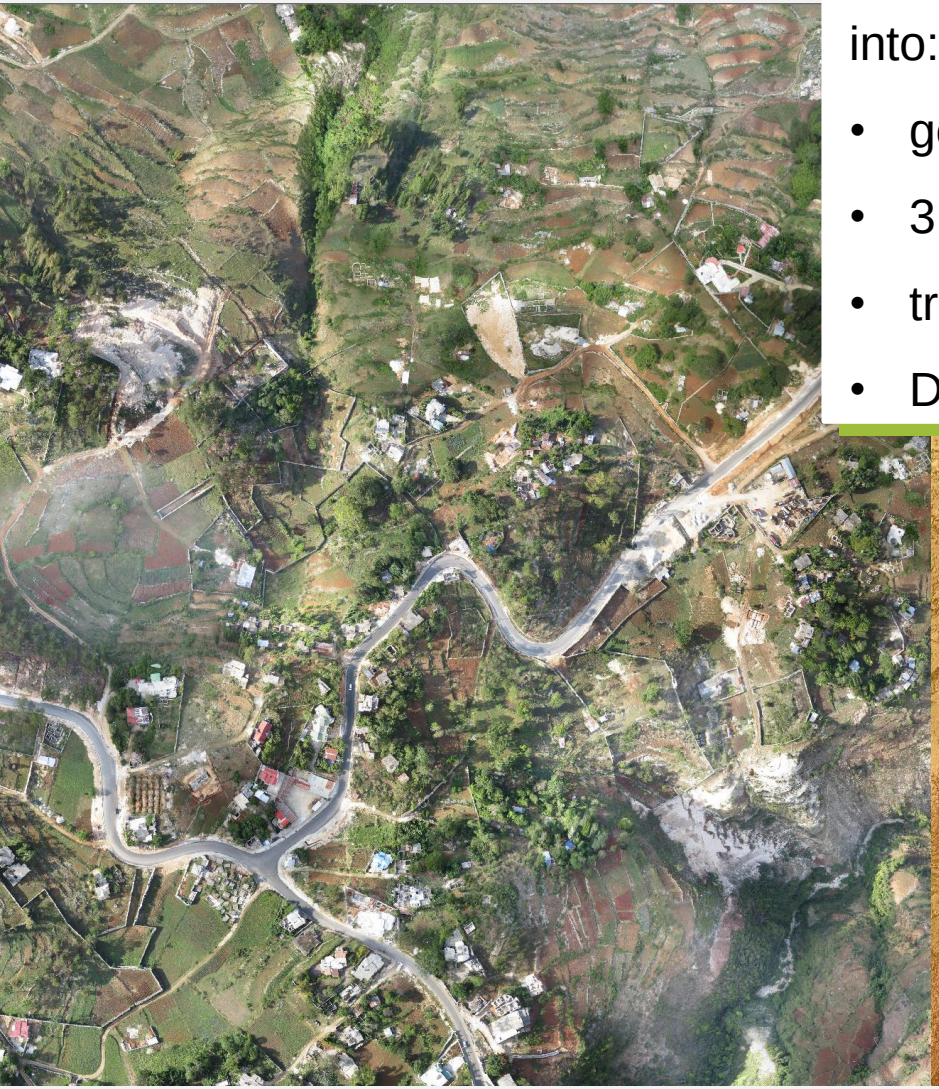
The flight

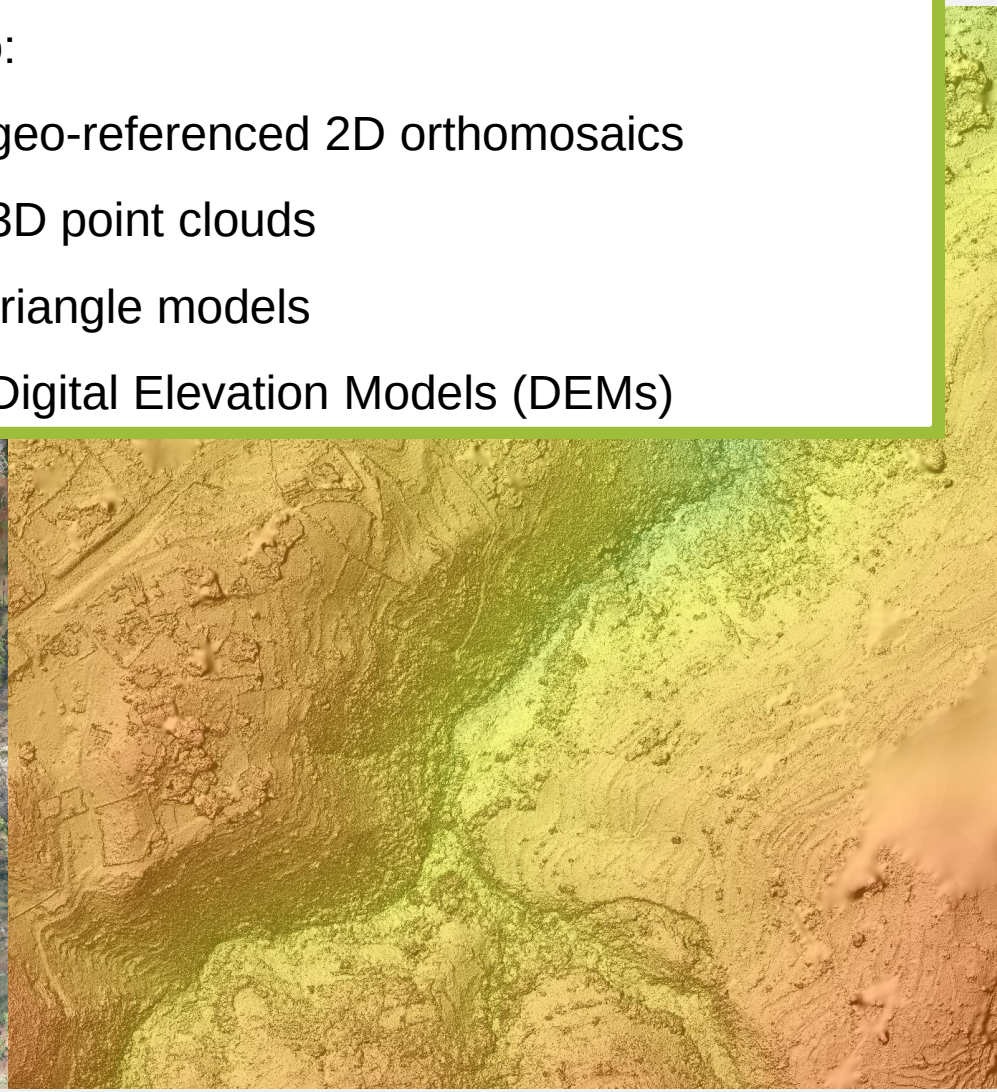
Shake it 3 times and launch.

The results

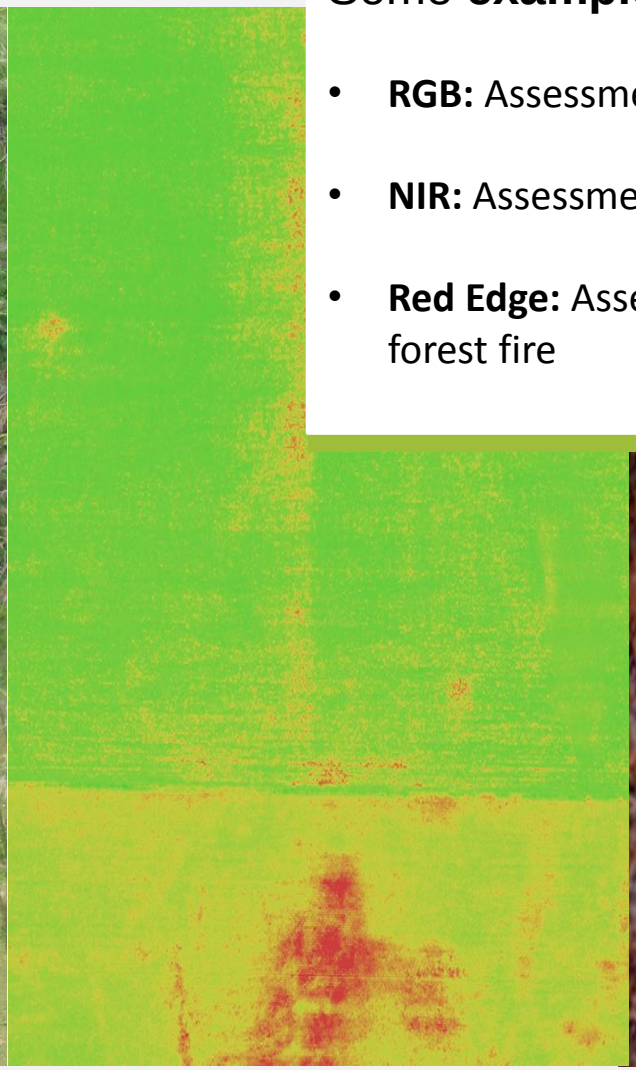
In a few clicks **transform the imagery** into:

- geo-referenced 2D orthomosaics
- 3D point clouds
- triangle models
- Digital Elevation Models (DEMs)



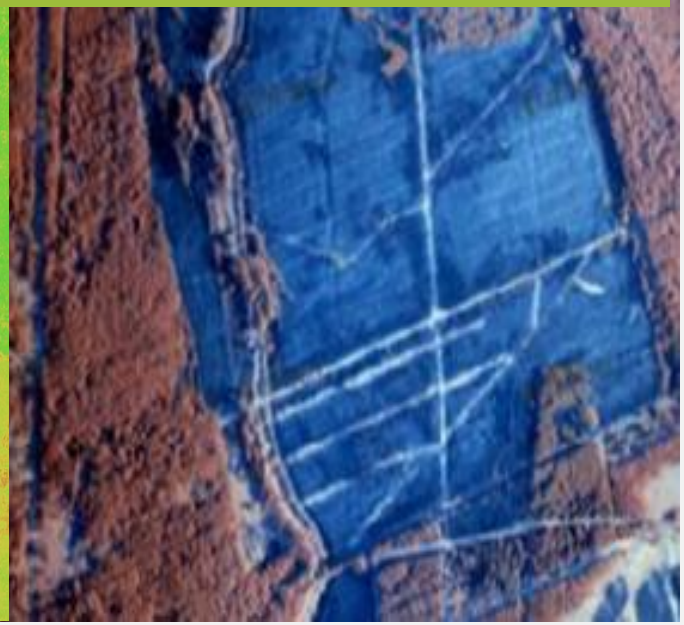


The Ag results



Some **examples** with different **cameras**:

- **RGB:** Assessment of damage after natural disaster
- **NIR:** Assessment of plant health through NDVI
- **Red Edge:** Assessment of damage area after a forest fire



The workflow

Plan
flight

Collect
“fresh aerial imagery”

Create
centimeter precise 2D/3D maps

Analyze
& share data

Assessment
of situations, needs and dangers

Plan & monitor new infrastructures

senseFly
a Parrot company

DRONE ADVENTURES

Drones used for good

ACTIONS TO TAKE

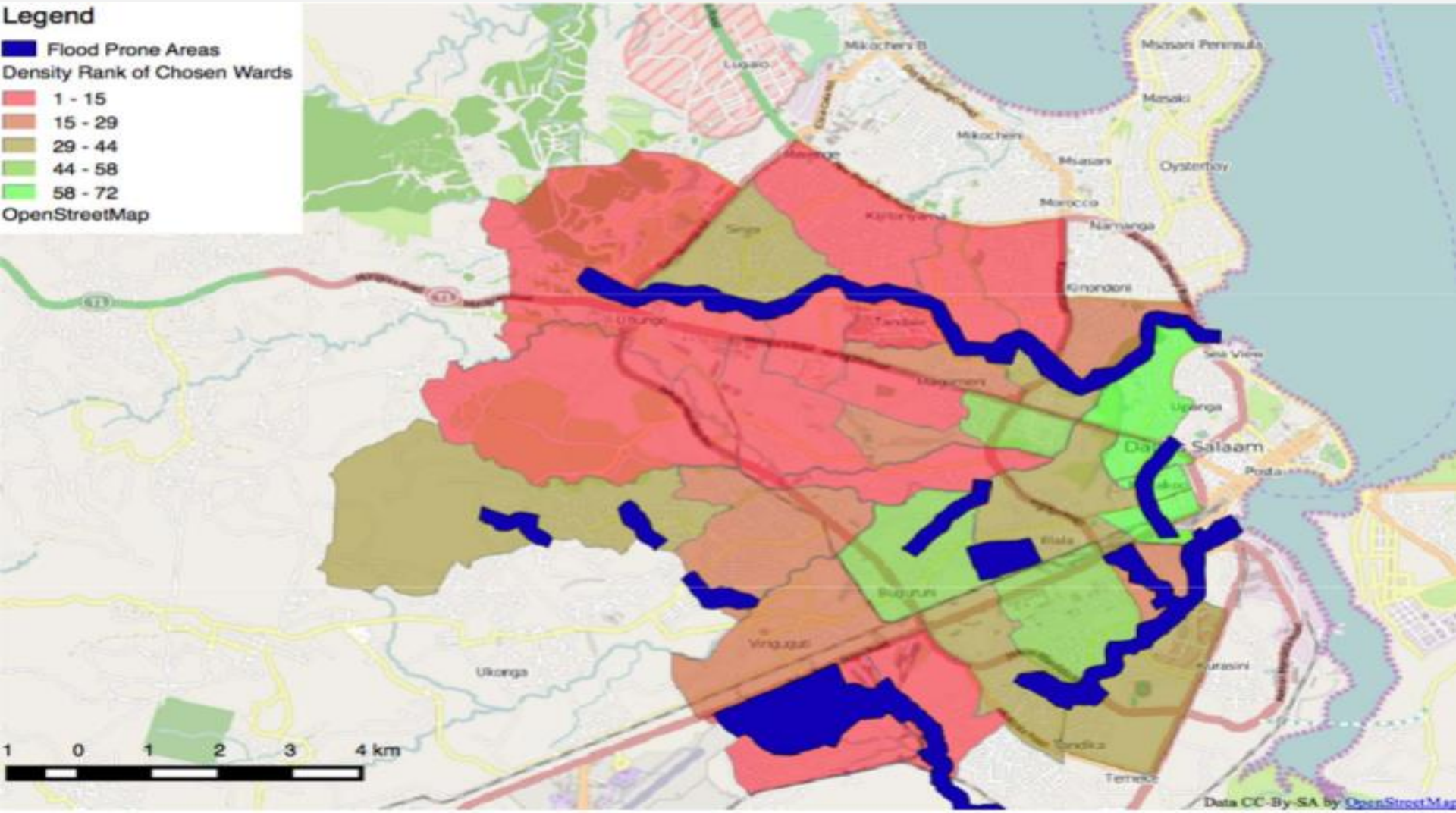
PREVENTION
Tanzania

DAMAGE ASSESMENT
Philippines

RECONSTRUCTION MONITORING
Fukushima

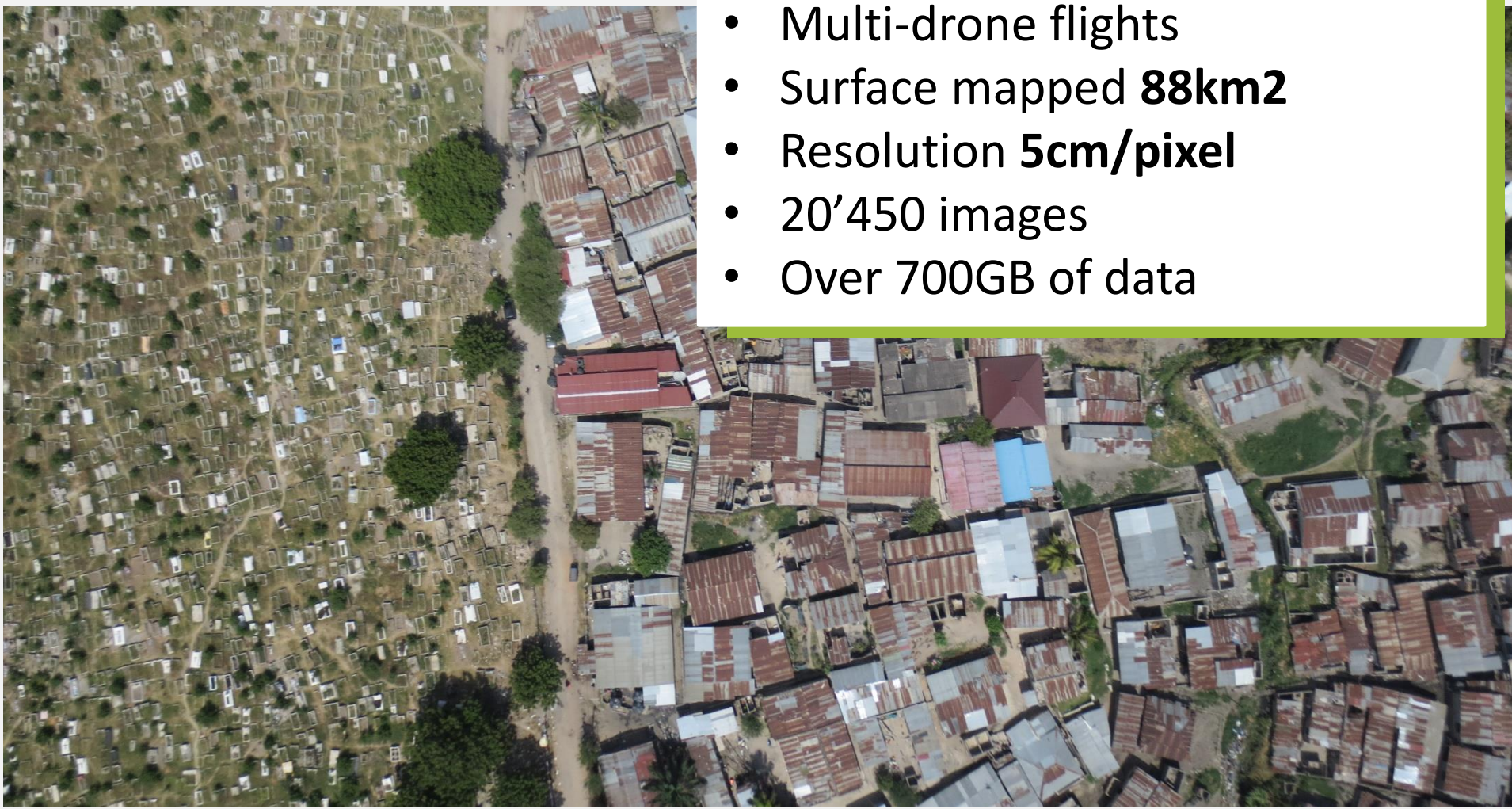
TANZANIA 2015

Flood risk mapping



The mission

- 2 weeks
- Multi-drone flights
- Surface mapped **88km2**
- Resolution **5cm/pixel**
- 20’450 images
- Over 700GB of data




Terra
3D

DTM for flood simulation

Community capacity building

Drones for **good**