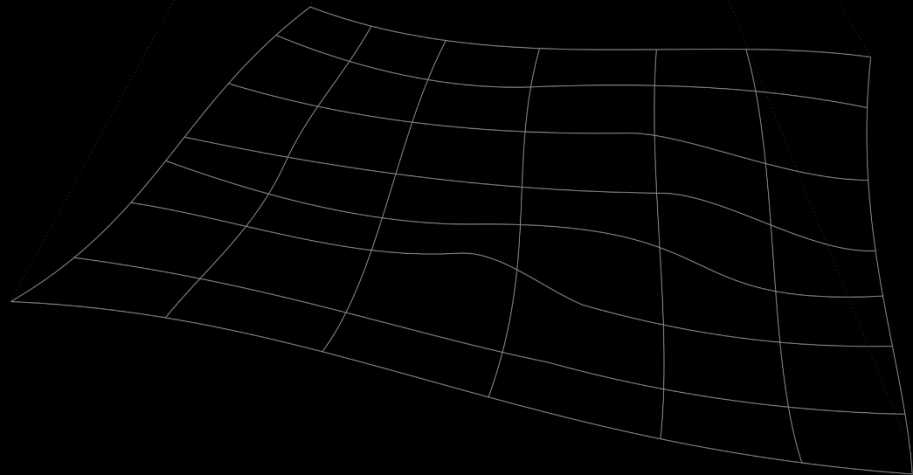


SKYWARD INDUSTRIES

Mapping our future, one flight at a time



SKYWARD
INDUSTRIES

What is **SKYWARD** INDUSTRIES?

The South Pacific Islands' Advanced Mapping Provider

Developers of the UAV industry in the South Pacific Islands

- **Agricultural Vegetative Indexing & Health Monitoring**
- **3D Mapping & Surveying**
- **Maritime and Fishery Surveillance**



3cm resolution

SKYWARD
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Agricultural Health

Vegetative Mapping & Indexing

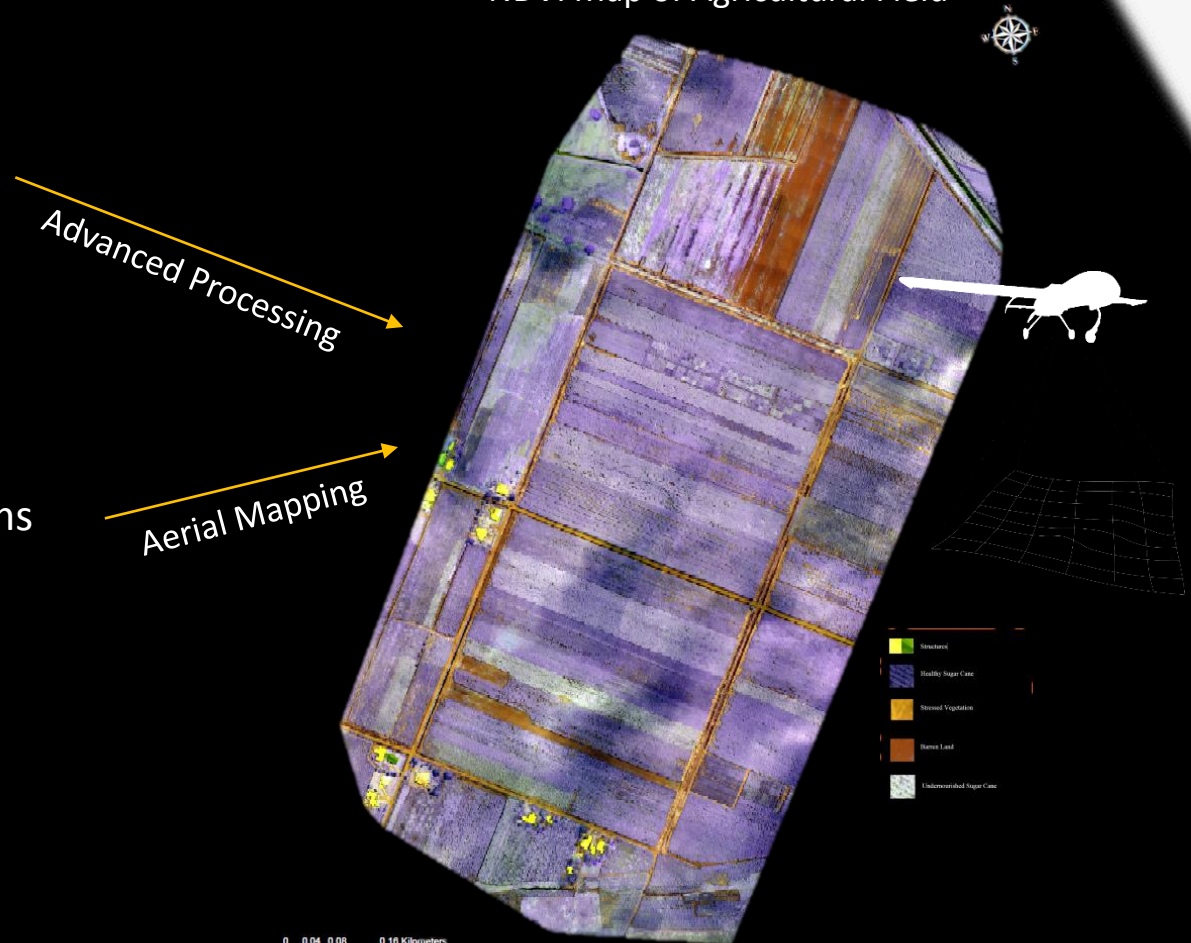
- **NDVI** Normalized Difference Vegetation Index

↳ Measures Plant health, stressed areas, pesticide vs non-pesticide usage and more

- Skyward UAV's, Manned Aircraft
& Ground Remote Sensing systems

↳ Different sophisticated onboard sensors used: RGB, NIR, Multispectral, Thermal, Portable Weather Station, Ground RTK systems etc...

NDVI Map of Agricultural Field



0 0.04 0.08 0.16 Kilometers
@Skyward Industries 2015

Agricultural Health Applications

- **Increase Agricultural Efficiency**

know where the problems are & what they are

↳ Save Time, Money, and Assets

Portable and Interactive Agricultural Health Maps

- **Advanced Detection & Yield Management**

↳ Detect Stressed Vegetation - solve the problem before yielding
Calculate expected yields based on crop performance & health



3D Mapping & Surveying



3cm accuracy!

- Advanced 3D Mapping
- Virtual Surveying
- 3D Terrain re-creation
- Water flow modeling
- Mining and mineral extraction
- **Forestry Management**
- Virtual Calculations
- Mangrove Monitoring
- Climate Change Analysis (dev)



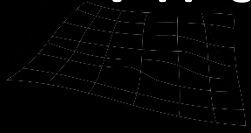
DSM



Orthomosaic

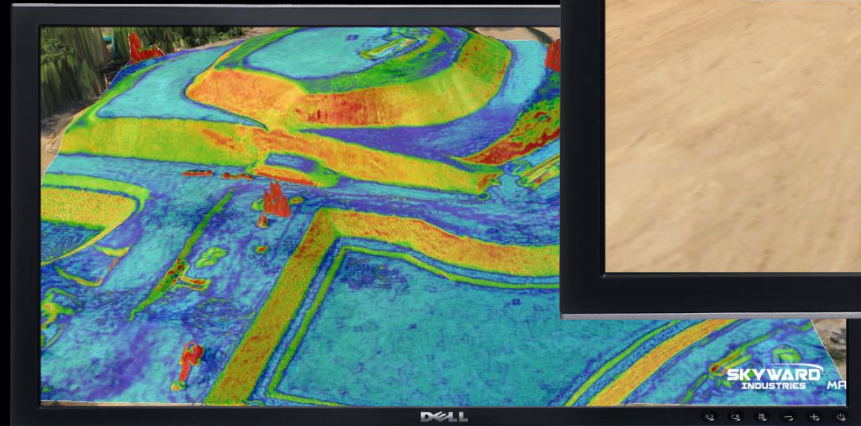


Virtual Surveying



Survey vast areas from your desk!

- Terrain Analysis
- Contour Mapping (interchangeable intervals)
- Length, width, and area calculations
- Volumetric Calculations
- Cadastral maps
- 3D Master Plan Creations
- Landscape planning
- Project Progress Tracking



*Large reductions in development
planning time*



In .DXF and others

for architects and engineers

A New Meaning to Forestry Management and Planning

(Existing Forests, planned forests, yielding, and more)

- Track Changes to Existing Forests
- New Forest Location Detection
- Terrain Suitability



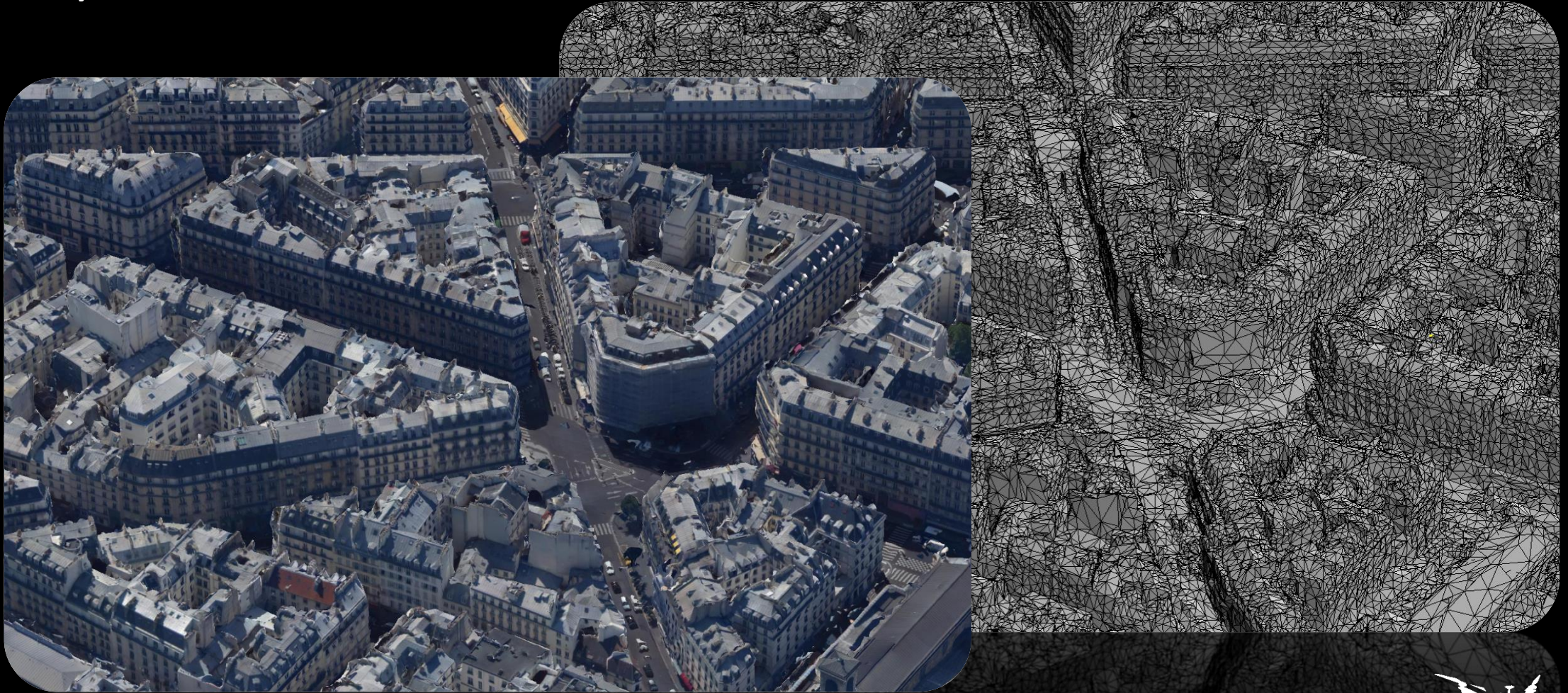
Completely Virtualize Forests

Advanced Planning and Management



Plant Forests Virtually Ahead of Time

3D City Visualization



Complete 3D City Re-construction

3-5cm accuracy and resolution

- Advanced City Planning & Management
- City Wide Virtual Survey Data



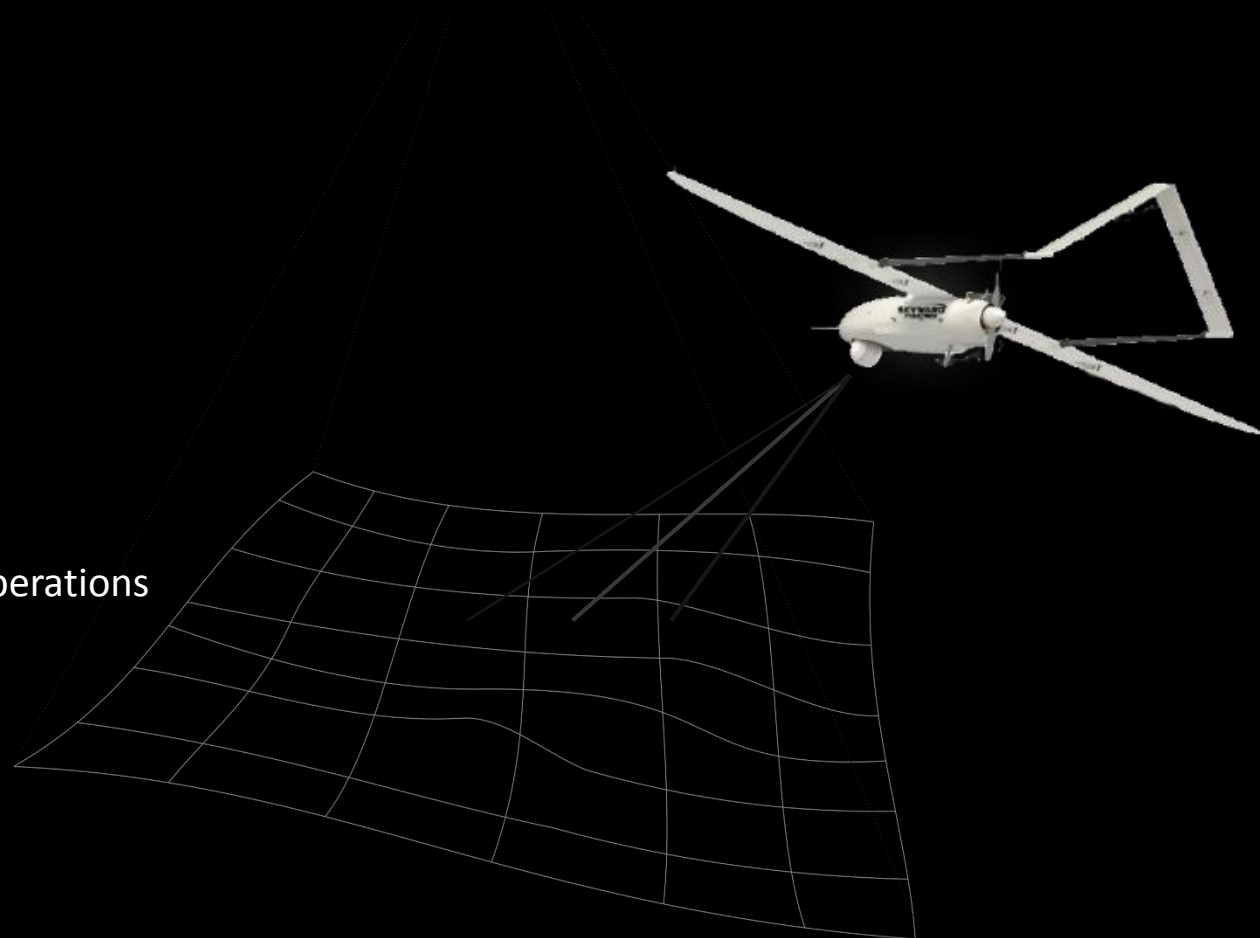
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Maritime Surveillance

(Fisheries, coastal areas, pirating, environment, etc..)

ISR (Intelligence, surveillance and reconnaissance)

- 10x to 36x optical zoom capabilities
- Thermal Imaging for heat signatures and vessels
- IR (Infrared) – heat body detection for night operations
- Wide range of platforms for different operations



Surveillance Network

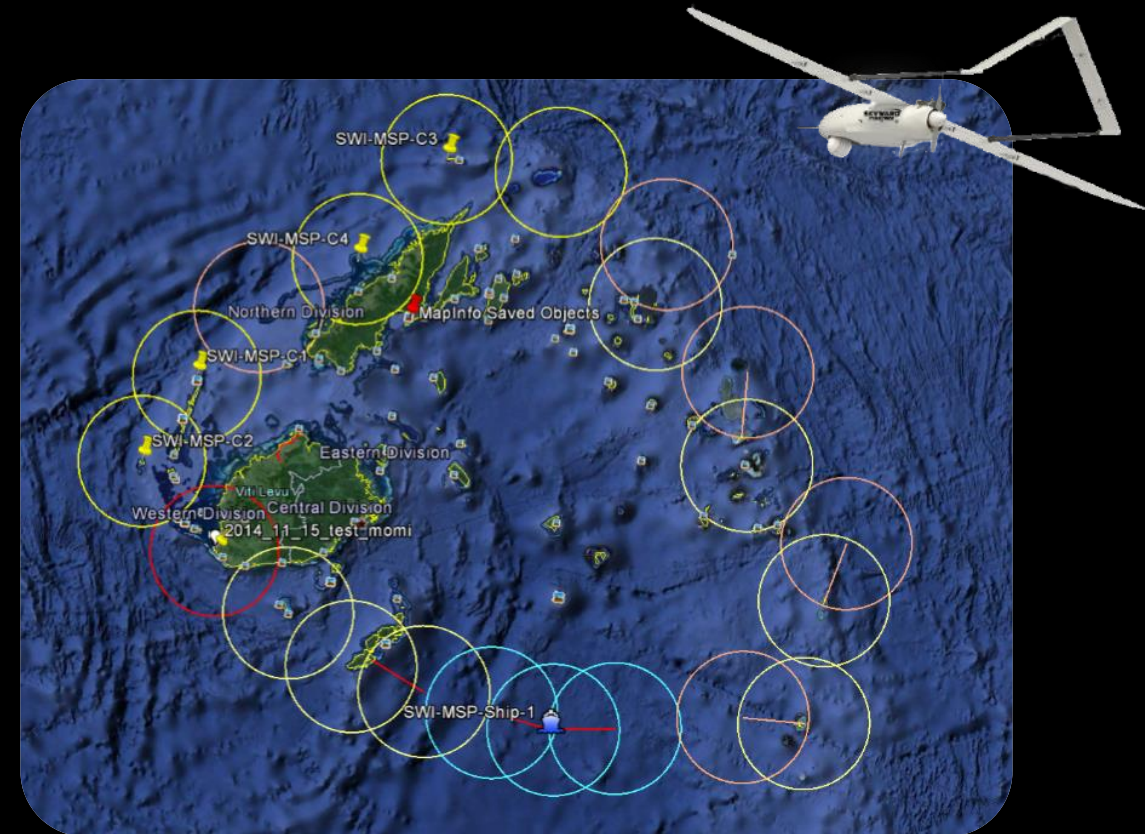
(A smart surveillance system)

Large Defense Network of Unmanned Systems

↳ Long Endurance and Live Data Range 150+km over 15h

Large Coverage to Trigger Targeted Authority Response

↳ Saving response time, money and personnel



In collaboration with
Government
International partners

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