



# eltic-Plus<sup>+</sup>

Smart Connected World

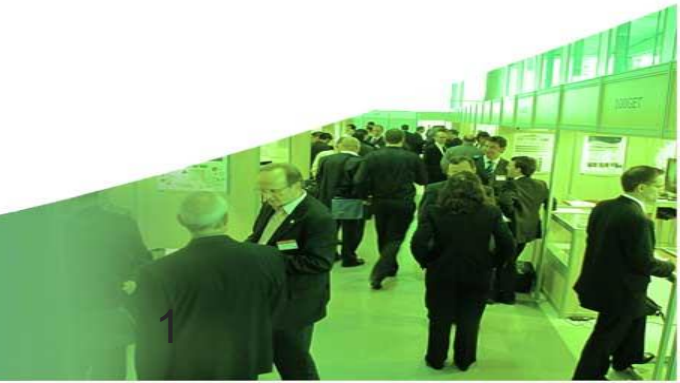


Celtic-Plus Event  
28-29 April 2016, Stockholm

## Pitch of the Project Proposal <AirVision Cloud>

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AirVision



## Teaser: What we do

We provide intelligence & forecasting  
from above.  
Instantly.

AirVision is complete vision processing  
system with ultra-high quality sensors,  
long range datalinks and advanced  
software capabilities.

AirVision

# Teaser: how we do it?

## NVidia Tegra X1 based onboard avionics

1024 GFLOPS processing power, supercomputer on module  
15W max energy consumption (1W idle)  
Credit card size (50x87mm)

## Digital Datalink Integration



## GPRS modem

GPRS modem for long range telemetry

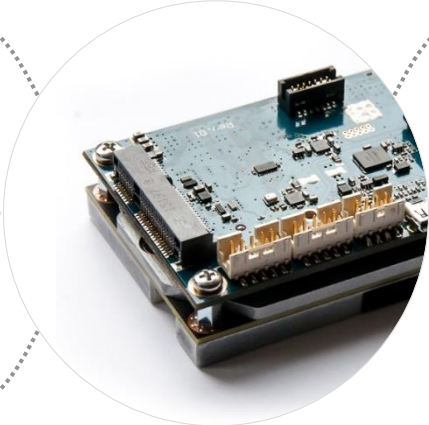


## Designed to withstand all flight conditions

All ruggedized latching connectors  
-20 /- +85 temp. range

## Hardware interfaces and sensors

SD-card, 2x USB3, 2x USB2, 3x UART, HDMI, 8x GPIO, miniPCIe, CSI. I2C  
3d accelerometer, 3d gyro, 3d compass, barometer, trusted platform module



## Sony industrial block camera

Imaging data integration from different sources, image stabilization, enhancement



## FLIR thermal imaging camera



## Gimbal control

Automatic gimbal positioning, GPS position following, object tracking



# Teaser: the result



# Proposal

Crop fields are monitored using manual visual inspection or manual inspection tools. We are offering to do that without manual inspection.

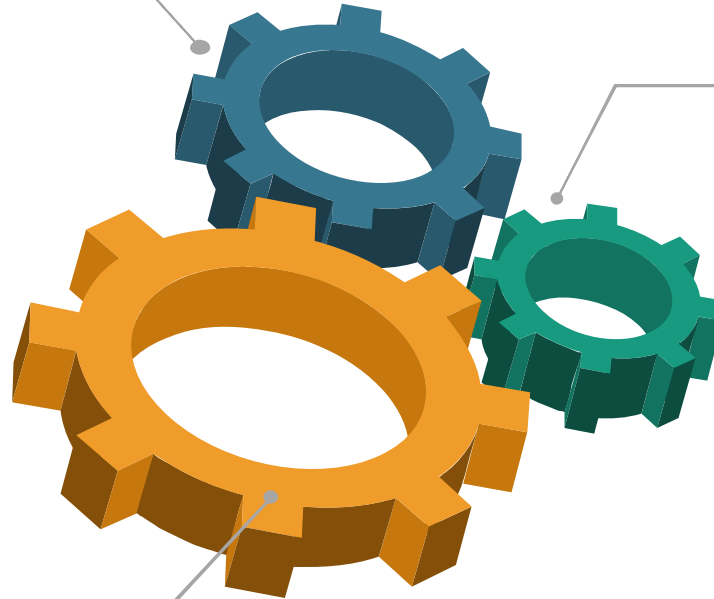
# Solution: AirVision platform

## Air component

- Sensor integration
- High-performance vision processing
- Autonomous navigation
- Object detection, tracking, classification
- Data exchange protocols

## Satellite component

Data from Sentinel-1 / Sentinel -2  
ESA satellites  
NDVI processing



## Ground component (ground control / cloud)

3D model creating from flight images  
2D model creation from flight images  
Object recognition

# Contact info

We are looking for a partners who are working in UAV / drone / image processing fields.



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