

Wind Blade Inspections 2.0

Delivering on the promise of UAV inspections



André Croft – Founder & CEO
21st October 2015, TBB, Berlin

Blade Inspections

Rope



UAV



Ground

Camera



Cost



+/- 1500 €



300 - 600 €



300 - 600 €

Downtime



4 - 6 hours



1 - 2 hours



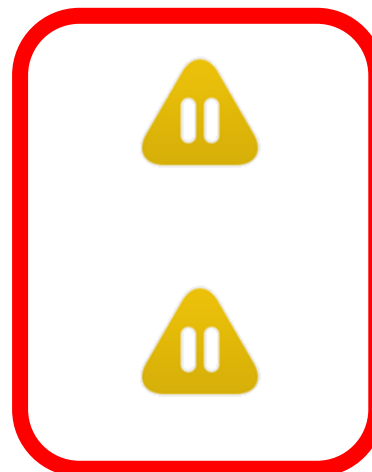
2 - 4 hours

Efficacy /

Robustness



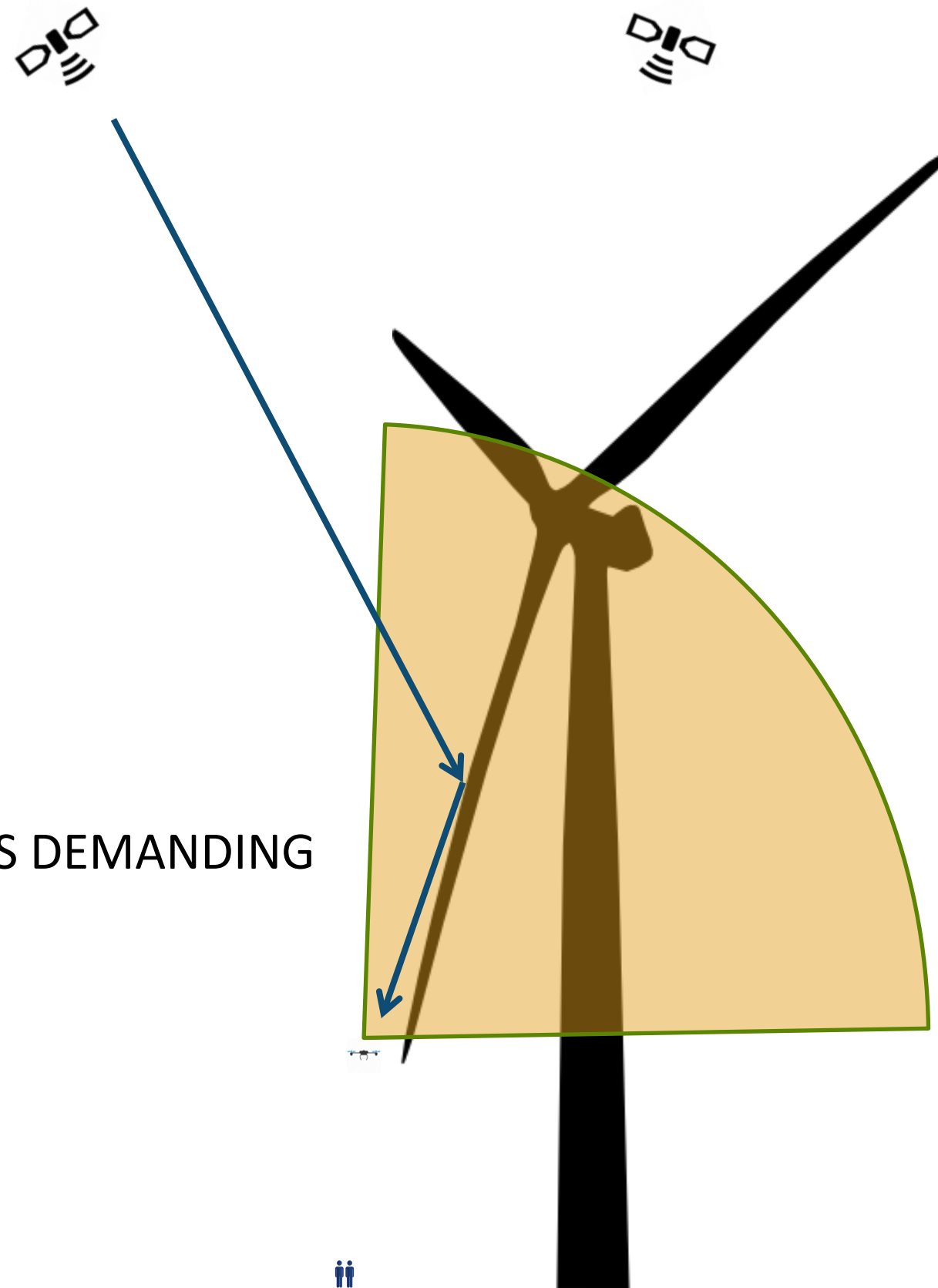
Safety



- Manual Piloting
- GPS
 - Accuracy 3-4m
 - Loss of coverage 50%
 - Signal Refraction
- Monitoring Discontinuities

NOT THE ROBUST SOLUTION THE INDUSTRY IS DEMANDING

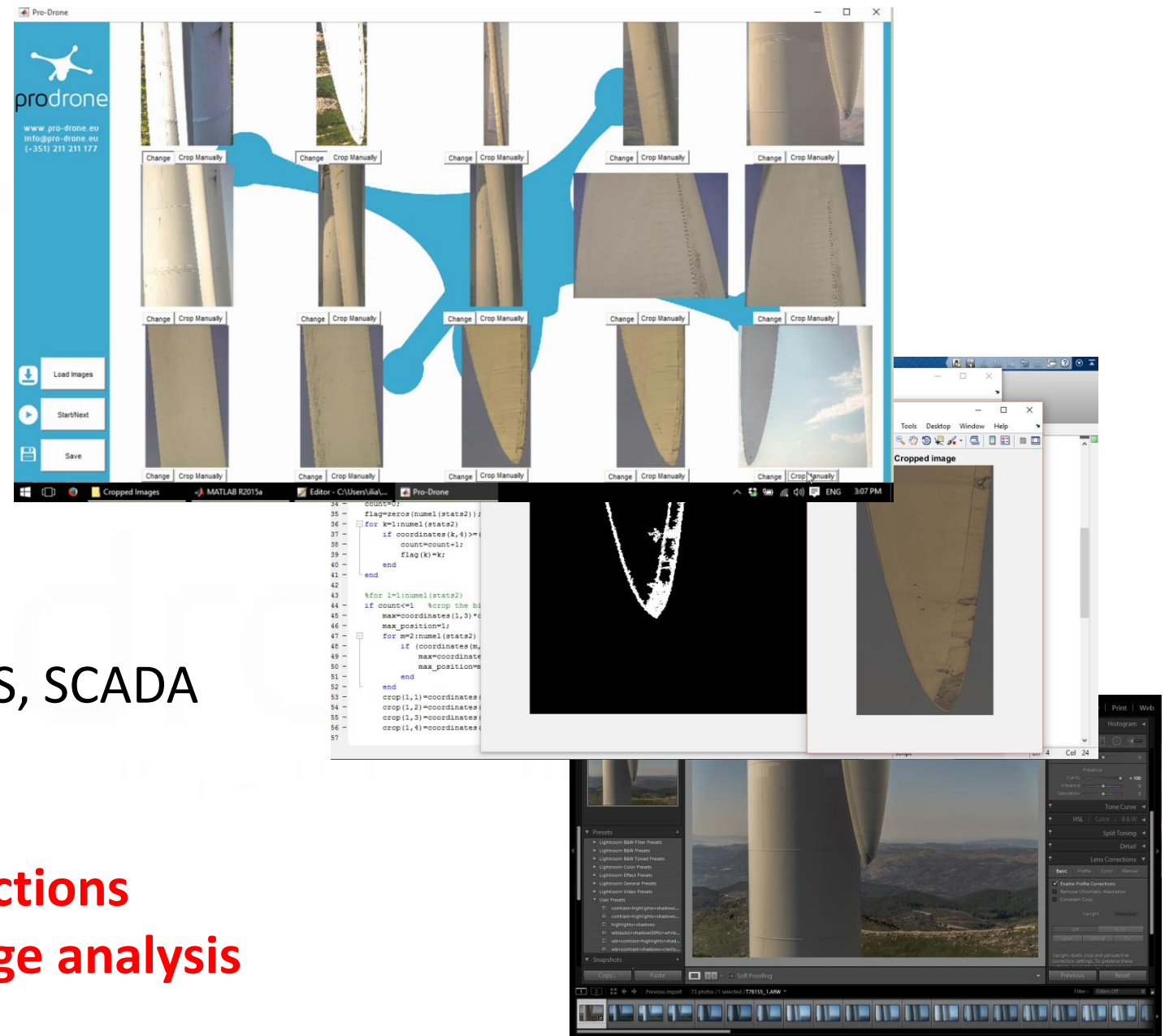
AUTOMATION



Post Processing

- Image Enhancement
- Automatic fault finding
- Integration with EPR, CMMS, SCADA

Safe, robust, repeatable inspections
High quality results and damage analysis



6bn USD market in next 9 years

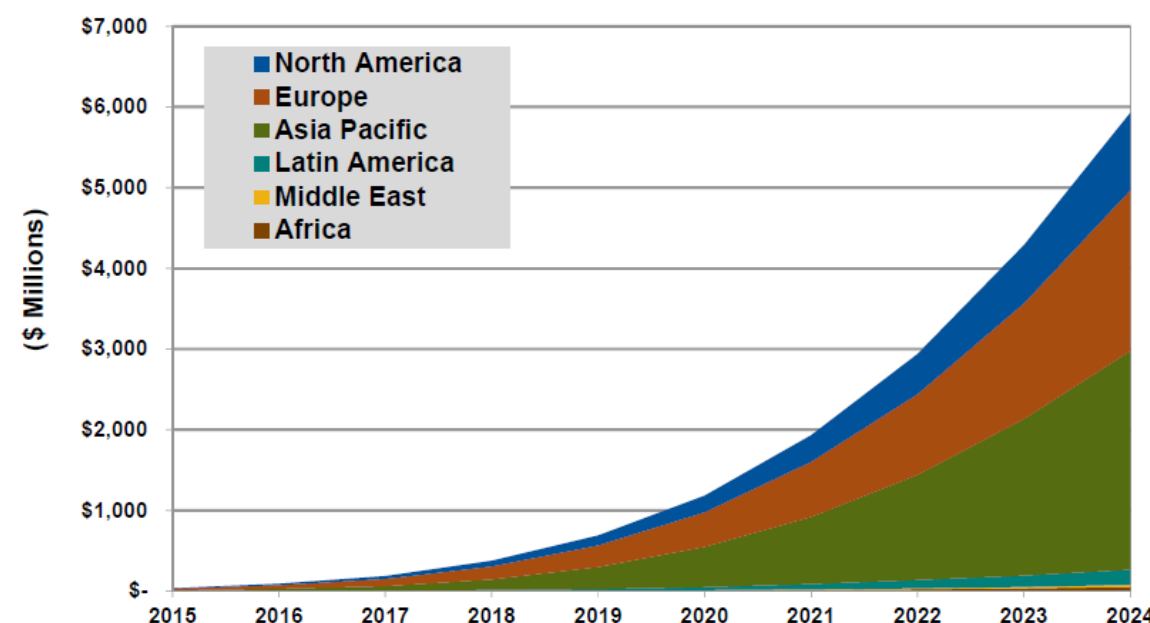
Growing Market

- 15% Onshore
- 30% Offshore
- Offshore O&M to double by 2020

Expected to become the norm in 3-5 years

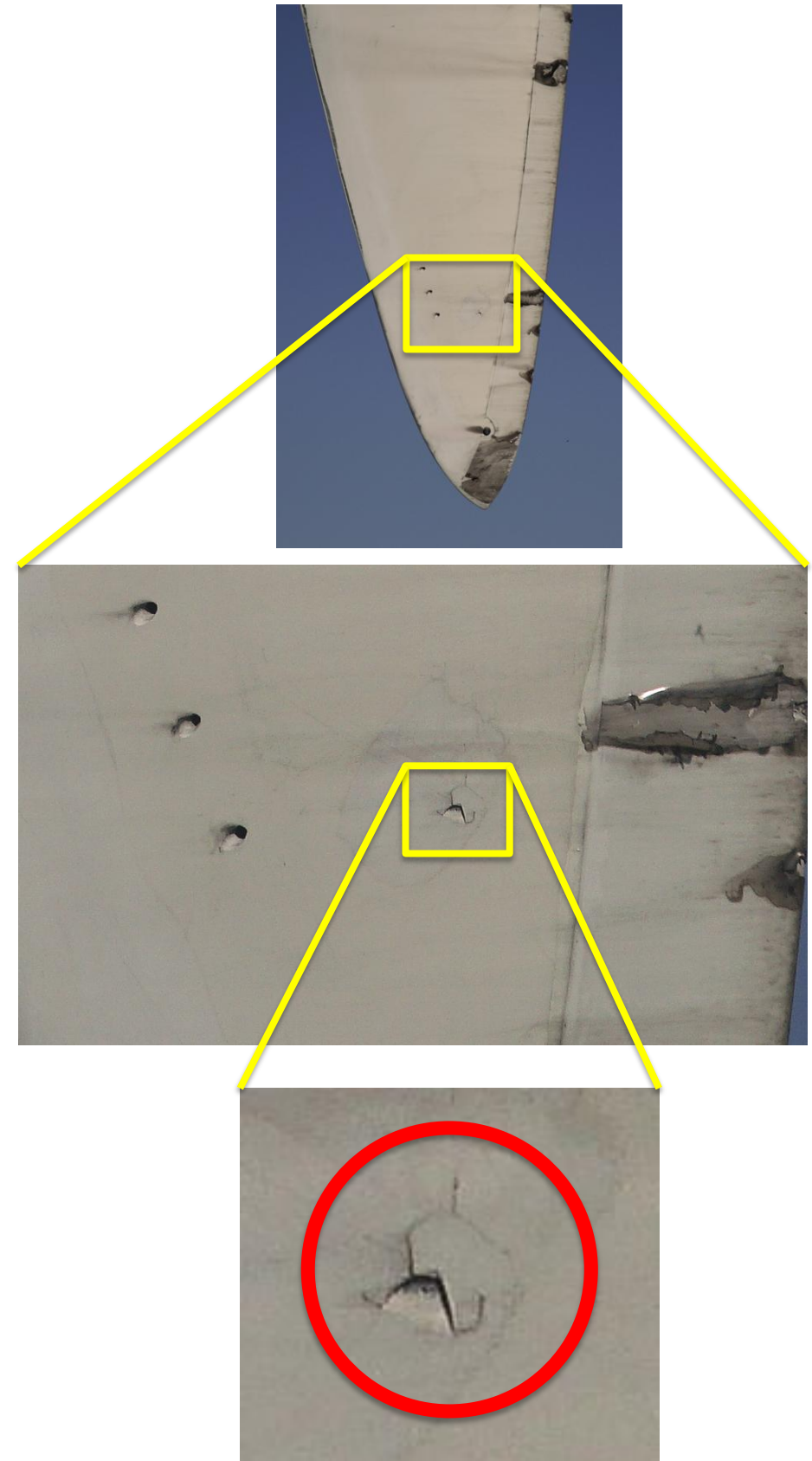
Easily transferable technology

Chart 1.1 Cumulative Revenue for UAV Units and Services for Wind Turbine Inspection by Region, World Markets: 2015-2024



(Source: Navigant Research)

- IP
 - Freedom to Operate
 - Patent Pending
- First successful service in August 2014



- IP
 - Freedom to Operate
 - Patent Pending
- First successful service in August 2015
- Working Autonomous Prototype
- MOU with market Leader
- LOI from 4 major players
- Team



André Moura
Founder and CEO



Tiago Ferreira
Head of Engineering



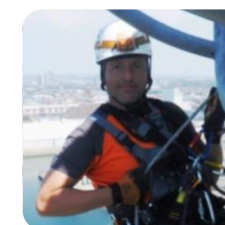
Illia Sheremet
Control Engineer



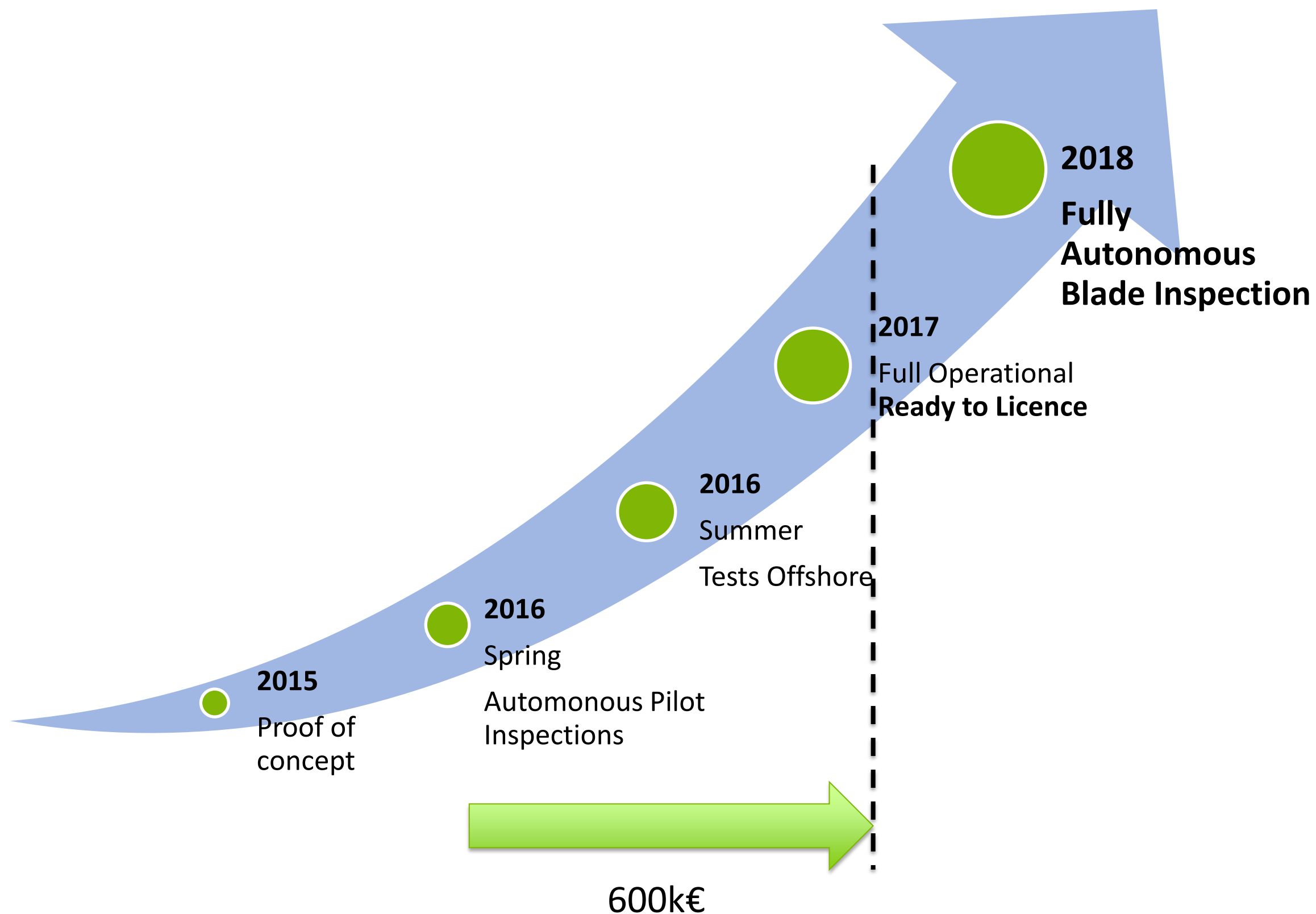
George Mitrensis
Post Processing







Bruno Guerreiro
Scientific Advisor - IST



António Pinho
Inspection specialist



The sky is not the limit
It's our office.
Thank you

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 youtube.com/user/InnoEnergy