




Replacing crewed helicopters  
for long-range drones



**5 MILLION  
KM.**

Means of inspection	Costs	Issues
	150 €/km.	<ul style="list-style-type: none"><li>➤ Costs.</li><li>➤ Personal risks.</li><li>➤ Emissions.</li></ul>

500 m.  
Max. range



Means of inspection	Costs	Issues
	300 €/km. (2x Helicopter!)	➤ Extremely expensive

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**Rarely used**



**Autonomous digitization of power lines**



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**40x range**





## Autonomous digitization of power lines

40x range

1/20 Costs



## **Autonomous digitization of power lines**

40x range

1/20 Costs

No personal risks/emissions

19 Members:

- Tech. & production.
- Management & business development.



The German Marshall Fund  
of the United States

**ElReferente**  
*Conectando el ecosistema emprendedor*

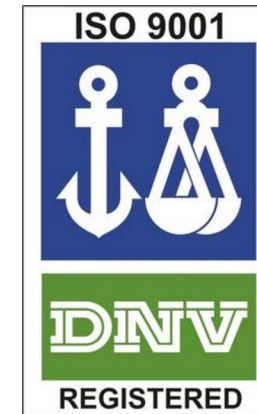
- **Only Spanish long-range authorization to inspect power lines.**
- **95% of the medium/high voltage grid.**
- **Working on EU certification.**
- **ISO-9001, 3 patents y 2 M€.**



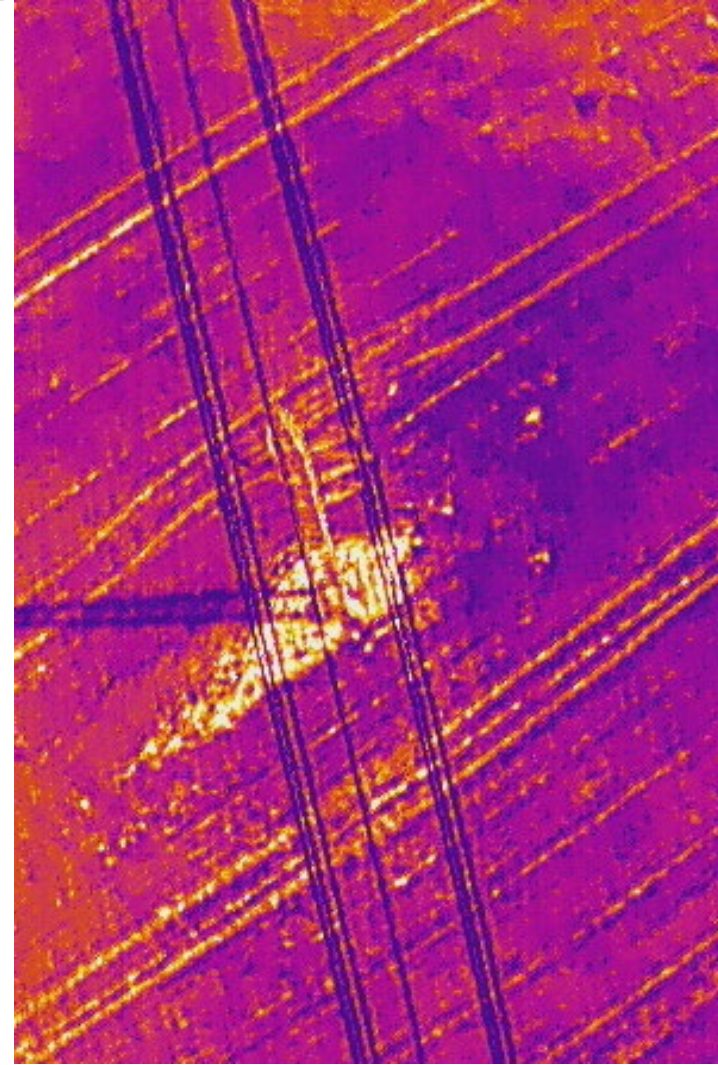
**STARTUP  
EUROPE**

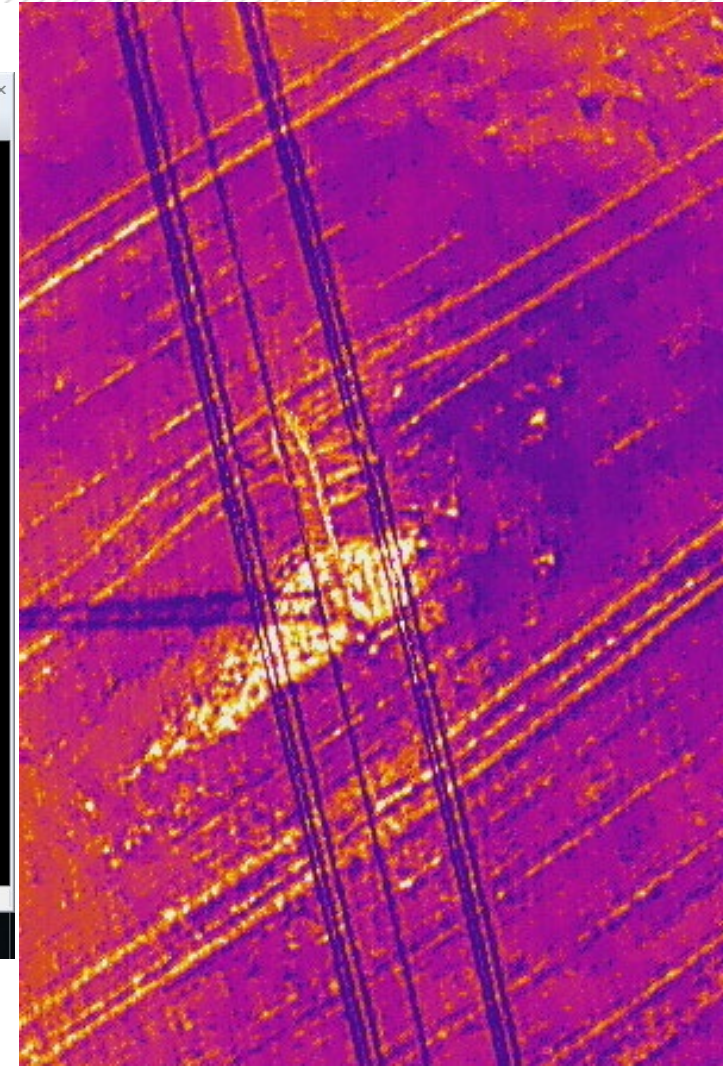
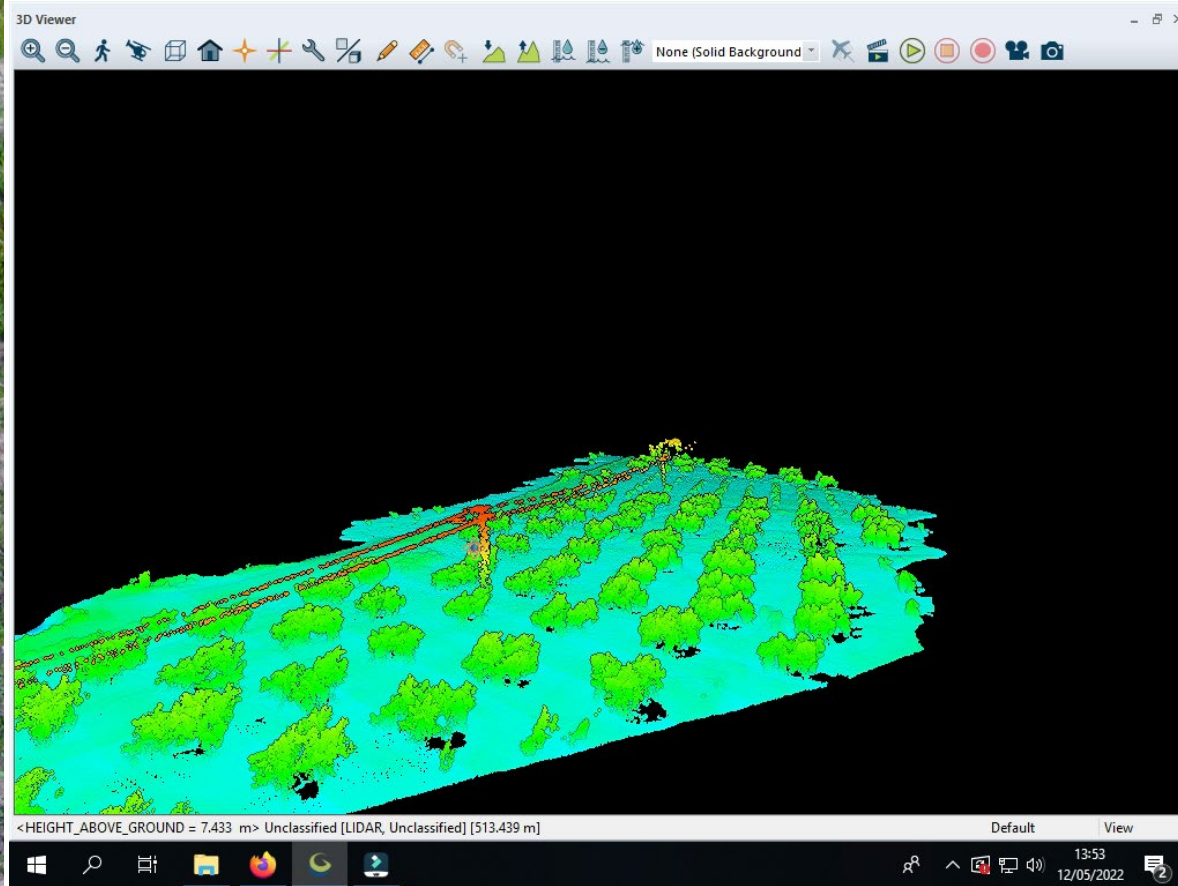


EUHUBS4DATA









➤ Flight logs.



➤ Other drone information.

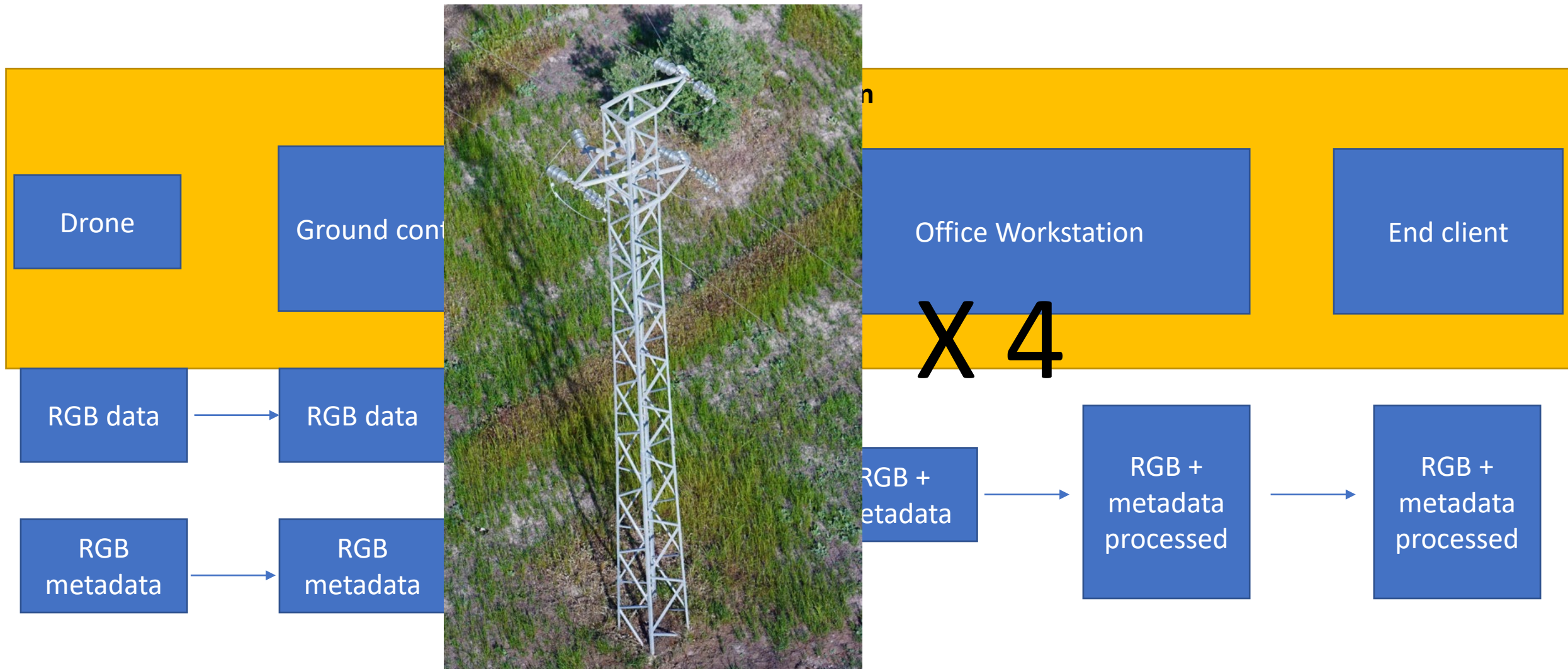


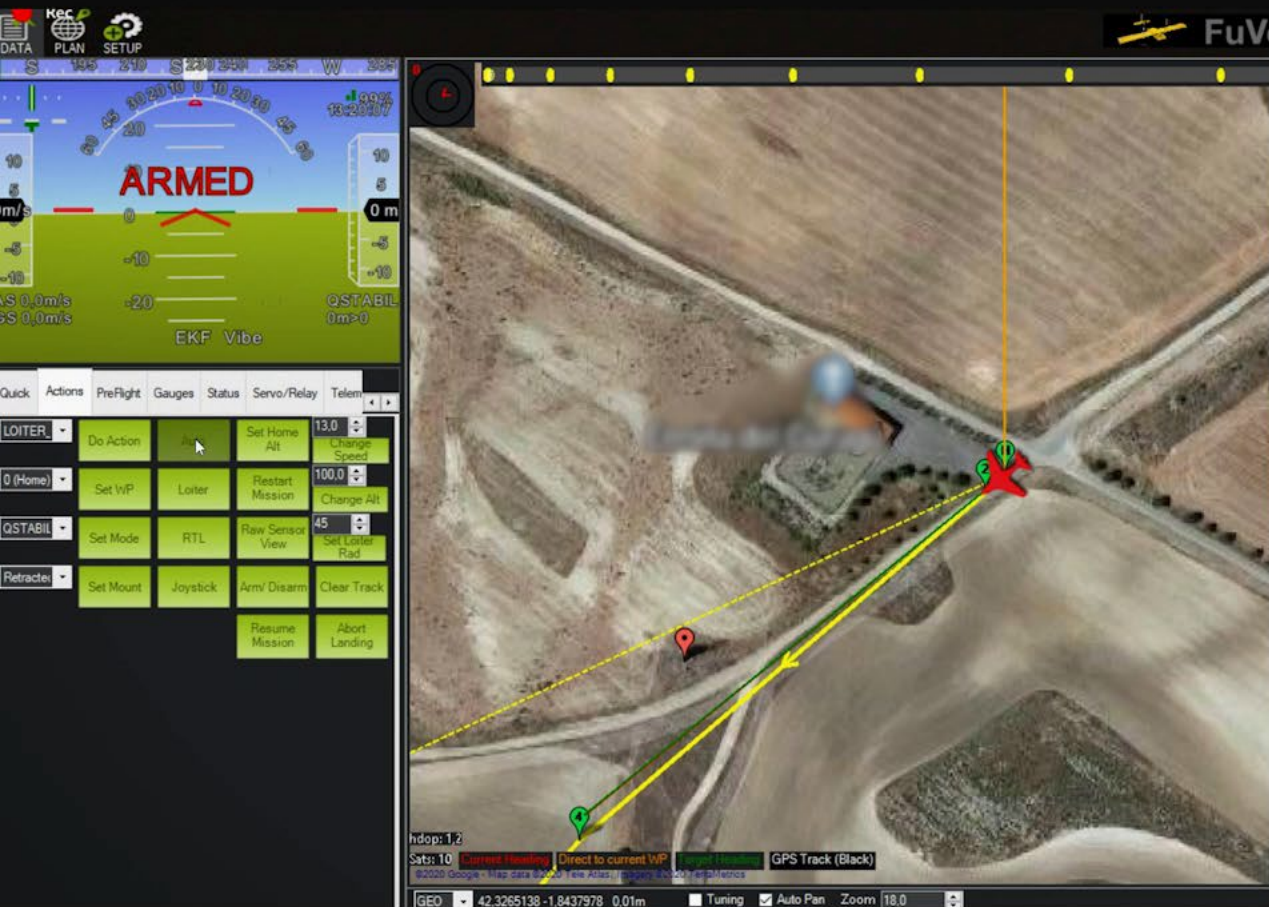


> 1.000 SD cards movements

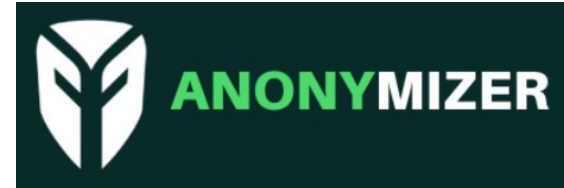


## CURRENT DRONE DATA VALUE CHAIN IN POWER LINE INSPECTION





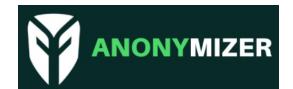
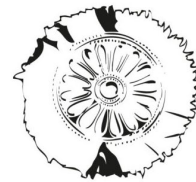
- No personal data is processed.
- External auditor to comply with GDPR.
- Data stored in EU servers.
- Secure data sharing.



➤ Expert External Support.



➤ Use of COTS.



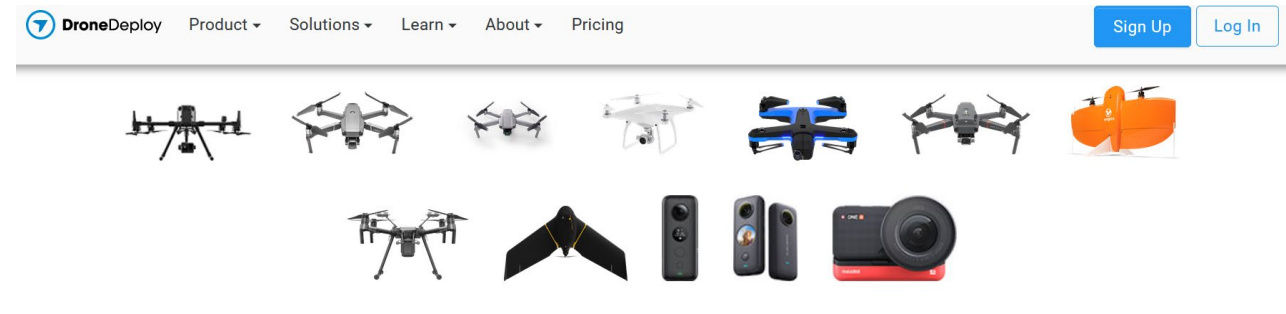
Closed ecosystems:

- No LiDAR integration.
- No scalability.
- No regulatory information.

**“One-size fits all”  
products**



The logo for UNLEASH, with the word "UNLEASH" in a bold, uppercase, sans-serif font. A red horizontal bar is positioned above the letter "E".





- 20% cost reduction.
- 6 months to hours.

- ✓ Initial design agreed with UFD.
- ✓ 1<sup>st</sup> Components developed:
  - ✓ LiDAR metadata.
  - ✓ Starlink.
  - ✓ AWS automatic upload.





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- ✓ 1<sup>st</sup> Components developed:
  - ✓ LiDAR metadata.
  - ✓ Starlink
  - ✓ AWS automatic upload.
  
- Next steps:
  - Visual camera full functional prototype.



**Carlos Matilla**  
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**+34 645 59 14 66**

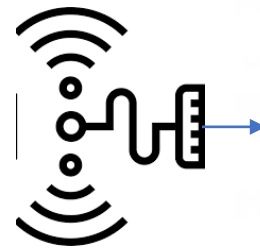
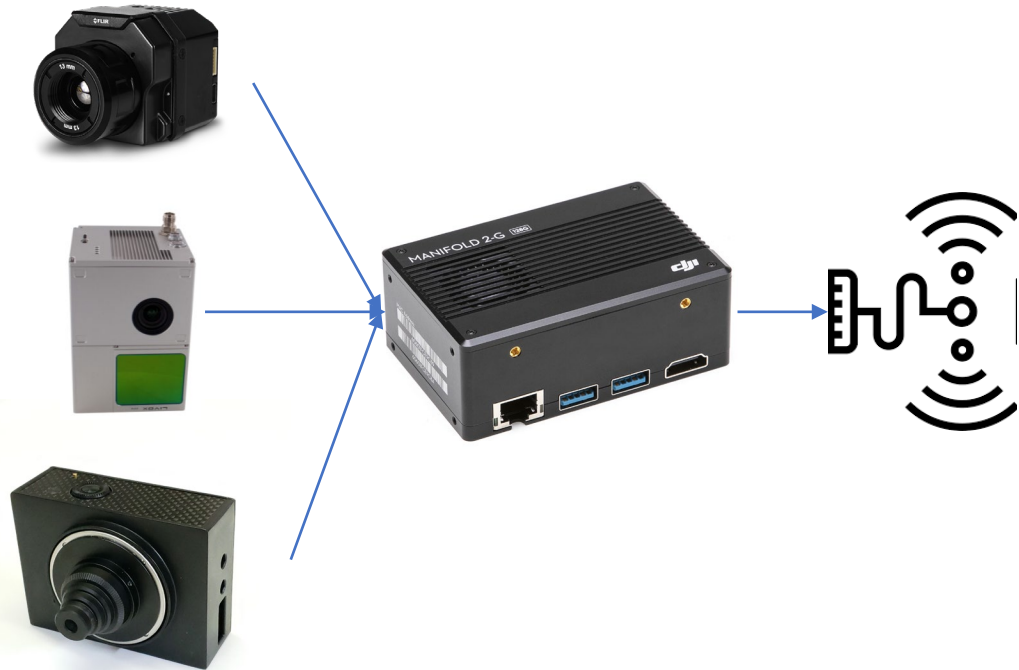
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**FuVeX**



# DroneDVC4POWER SOLUTION: UPLOADING MODULE



# REGULATION: KEY ALLIANCES

REGULATORS

ENAIRe 

 **AESA**  
AGENCIA ESTATAL  
DE SEGURIDAD AÉREA

EARLY ADOPTERS

 **DE**  
Grupo IBERDROLA

**Naturgy** 

 **Nafarroako Gobernua**  
**Gobierno de Navarra**

TECH. PARTNERS

**upna**  
Universidad  
Pública de Navarra  
Nafarroako  
Unibertsitate Publikoa

 UNIVERSIDAD DE SEVILLA

 **eSmart**  
SYSTEMS

LEGAL SUPPORT

 **CUATRECASAS**  
**ACELERA**

FINANCIAL  
SUPPORT

 **SODENA**

 **CAJA RURAL**  
**DE NAVARRA**

**ELKARGI** SGR  
Tu aliado financiero. Zeure alboan.