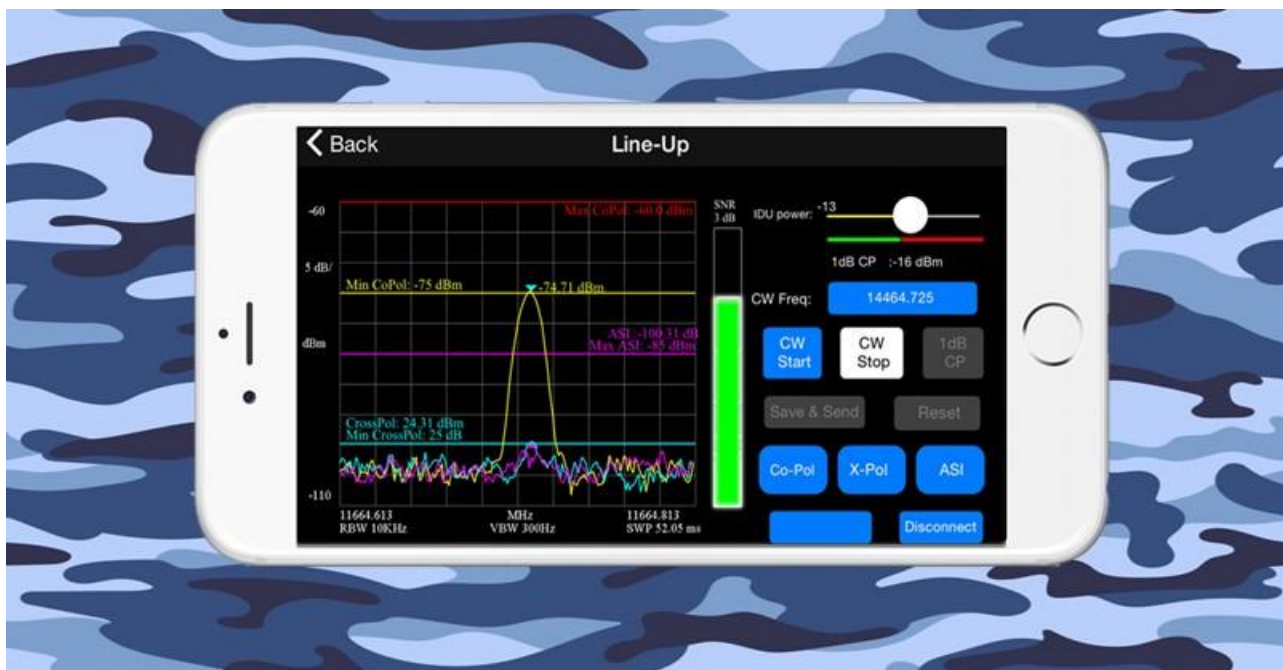




# INTEGRASYS

Secure and Reliable communication solution for Defence and Critical Infrastructure



[Pedro.ruiz@Integrasys-sa.com](mailto:Pedro.ruiz@Integrasys-sa.com)

[www.integrasys-space.com](http://www.integrasys-space.com)

- Founded in 1990, Around 50 engineers
- Specialized on wireless communication (Satellite & Terrestrial), Robust Satellite based Positioning
- 5 International prizes to Innovation during 2016-2021.
- Participating EU R&D Programme and ESA:
  - Security, Space and Defense
- Offices in Spain (2), US, Australia, Luxembourg, and Asia



# Customers that trust on us



# Network automation Tools

## NETWORK DESIGN & CAPACITY MANAGEMENT

TOOL

### Beam Budget

Links design for an optimal network infrastructure with different scenarios to define the requirements of the future network



### FlexCap

Manages the pool of capacity dynamically by allocating a different kind of users and agreements.



## DEPLOYMENT & MAINTENANCE

TOOL

### Satmotion

Helps the installation team to install a link, certifying communication with NOC



ADD-ON

### Alusat

It allows unattended maintenance of the links with the different VSATs on the network.



## MONITORING & DETECTION

TOOL

### Controlsat

Spectrum monitoring, detecting signal degradation, and reporting any anomaly



ADD-ON

### Vectorsat

Carrier under Carrier analysis, Constellation monitoring, MER, and distortion measurements



## INTERFERENCE MANAGEMENT

TOOL

### InterGeo

Geolocation for operational changes in government environments



TOOL

### Clean RF

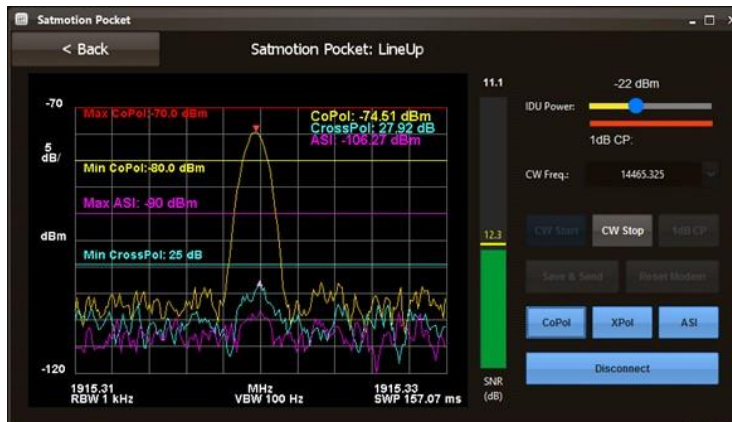
Eliminate interferences modifying the required parameters to end with them





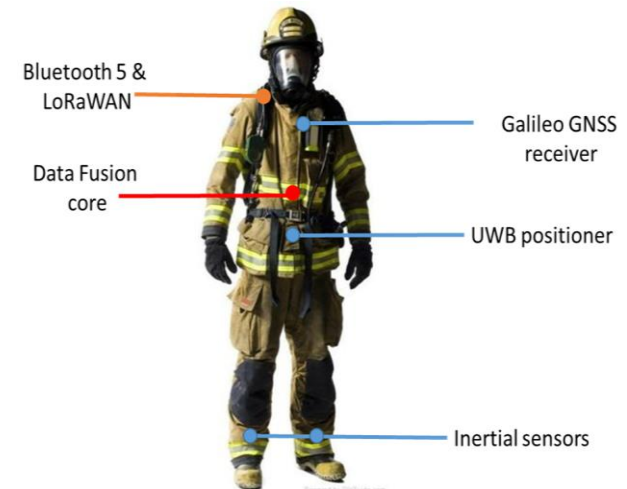
## Also provider to Government and Defense sector

- We have worked with USA Army, Sing MoD, Italy MoD, Belgium Army and NATO and multiple system integrator for civil and defense sector.

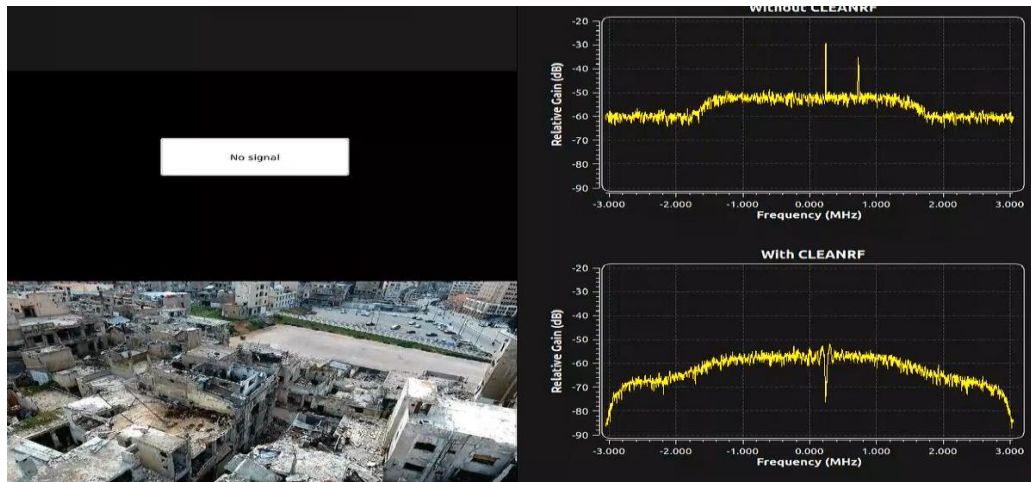


# Main expertise as a summary (IMÁGENES)

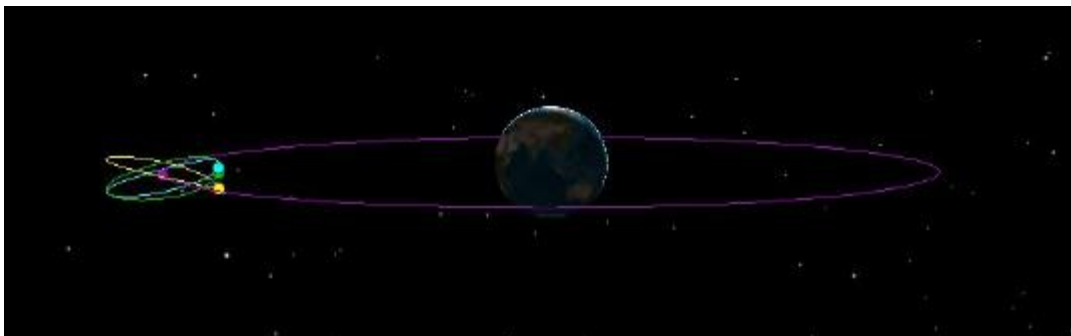
- **SIGINT – Spectrum Sensing and interference removal**
  - Signal monitoring
  - Anti-jamming solutions para SatCom & terrestrial communication
  - Smart intelligent detection, location and blocking of RF threats in military scenarios
- **Embedded software security**
  - Blockchain based solution for software integrity
- **Robust Wireless communication for harsh environment**
  - Industrial IoT, Security, applied to Electric substation, drones comms, aeronautics,



- Two proposal presented, one as coordinator, another one as partner
  - Both are granted and will start in December/January
  - Support from MoDs is important. Innovation at European Level is needed
  - Mix of consortium between expert in Defence and Civil technologies
- **RFSHIELD: Detecting and Removing interference in SatCom infrastructure**



- **NAUCRATES: Small Satellite for Geostationary Earth Orbit Space Situation Awareness**





# SPACE4GREEN

## Trusted and GREEN traceability through EU SPACE Technologies

