



İSTANBUL PROJECT ACADEMY



MARMARA ÜNİVERSİTESİ
İNNOVASYON VE TEKNOLOJİ
TRANSFER UYGULAMA VE
ARAŞTIRMA MERKEZİ





Horizon Europe Cluster 6:

Food, Bioeconomy, Natural Resources,
Agriculture and Environment Brokerage Event





Field of Expertise :

New space for IoT data connectivity world-wide

Organisation Name:

Kinéis

Addressed Topic(s) & Call(s):

IoT monitoring devices by satellite for:

- Biodiversity and ecosystem services
- Farm2fork : smart farming, smart agriculture, logistics tracking & tracing
- Circular economy and bioeconomy
- Clean environment and zero pollution
- Land, ocean and water for climate action
- Green rural, coastal and urban communities
- Innovative governance, environmental observations and digital solutions – Green deal calls



**ISTANBUL
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French satellite telecommunications operator

- 60 employees (90% R&D & Innovation engineers), Toulouse
- Experience in EU funded projects: ESA, Horizon Europe, Eurostars...
- 9 ARGOS legacy satellites + 25 nanosatellites to be launched in 2023
- Fundraising of 100M€ in 2020: new constellation fully funded
- 20.000 active IoT devices



Our expertise and technology offer

Global data connectivity for connected objects (IoT)

- Miniaturization: small modems (2cm*3cm), easy integration (UART)
- Small data packets (3 to 27 bytes) for very low energy consumption (100-500mW)
 - *Long autonomy on small batteries for autonomous devices*
- Low cost: modems (15-25 euros) and airtime (monthly fee 1 to 10 euros / device)
- Global coverage, no white spots, no roaming
- Dedicated licensed frequency bands ~400MHz
- Downlink: remote configuration, commands
- Native Doppler-effect geolocation (low precision)
- Revisit time (latency): 5 to 15 minutes



Topics cluster 6 – Different topics can use in-situ sensing devices for remote monitoring / geolocation (IoT devices deployed in the field)

- Need for satellite IoT backup data connectivity for LPWAN/Cellular, or standalone
- Low-cost satellite IoT connectivity for in isolated areas

Examples: monitoring of soil temperature, humidity and pH; air pollution, CO₂; fertilizers and pesticides concentration; mini meteorology stations; monitoring of irrigation infrastructure; animal eartags and collars for smart farming or wild animals monitoring

Contact details



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THANK YOU...



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