



Satellites: A Whole New Dimension for IoT



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What's new ?

Count down has started



Internet of Things is limited by terrestrial networks

>70 billion connected devices by **2030**

But only <15% available connectivity **worldwide**



Kinéis provides a **truly global** satellite connectivity to cover every single place on earth

No blind spots, **no** roaming, **no** expensive & vulnerable private network investments !

What is Kinéis?

Our business

- Satellite operator and global connectivity provider

Our legacy

- CLS and CNES (French Space Agency) have invented Space IoT in the 80's with the **Argos system**
- 40-year experience in positioning and data collection

Our project

- Kinéis has been created in 2018 and closed an historic **fundraising of 100M€** in 2020
- Constellation of 25 nano-satellites dedicated to IoT, **launch in 2023**



Kinéis key figures



Created in 2018



7 M€ turnover in 2020



60 employees



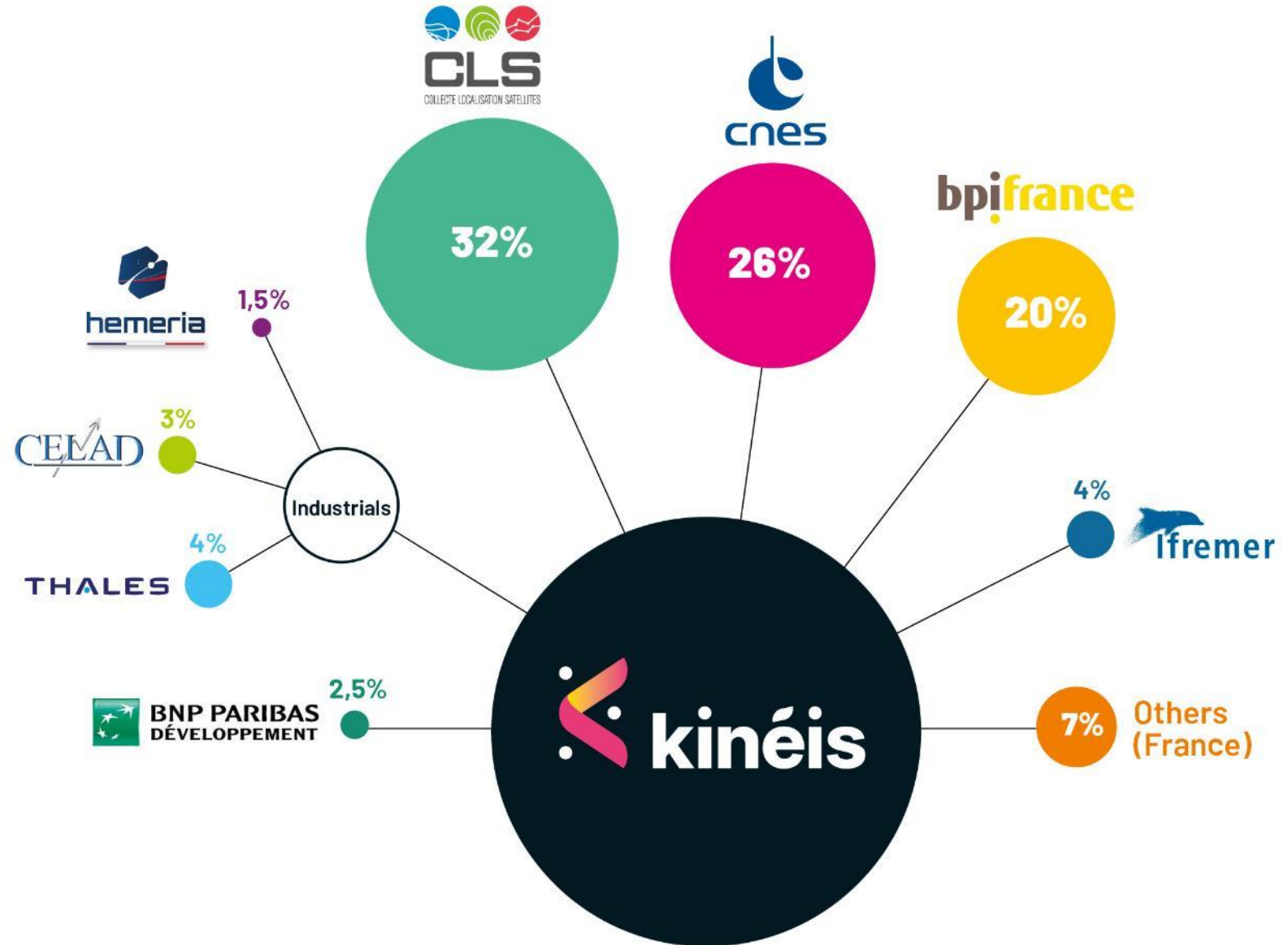
7 already operational payloads on satellites



20.000 active devices



2023
Launch 25 nanosats

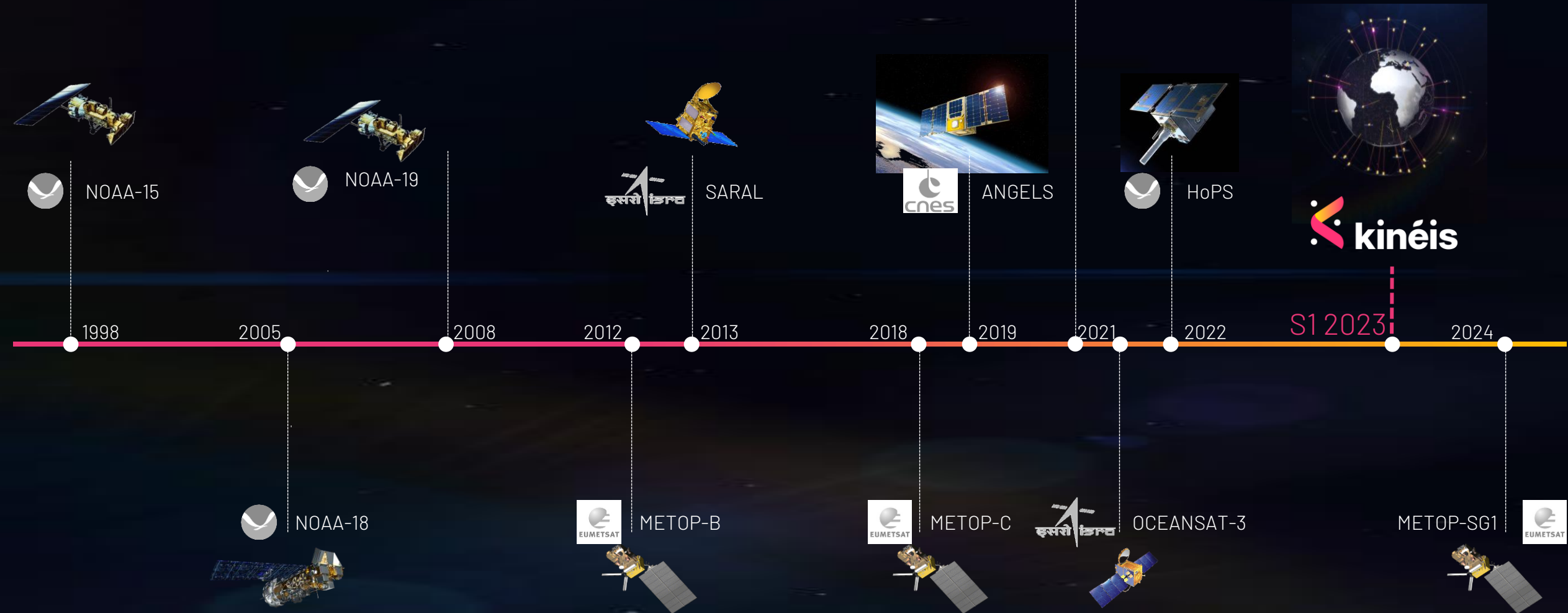


In orbit satellites

Today 7 operational satellites...

2021

More to come...



Connectivity provider

20 000 active devices

- 2-way communication
- **30-byte** messages
- Low-transmission power (**100mW**)
- Low-consumption, long-lasting batteries
- Native location via Doppler Effect
- **Miniaturized devices**



Global



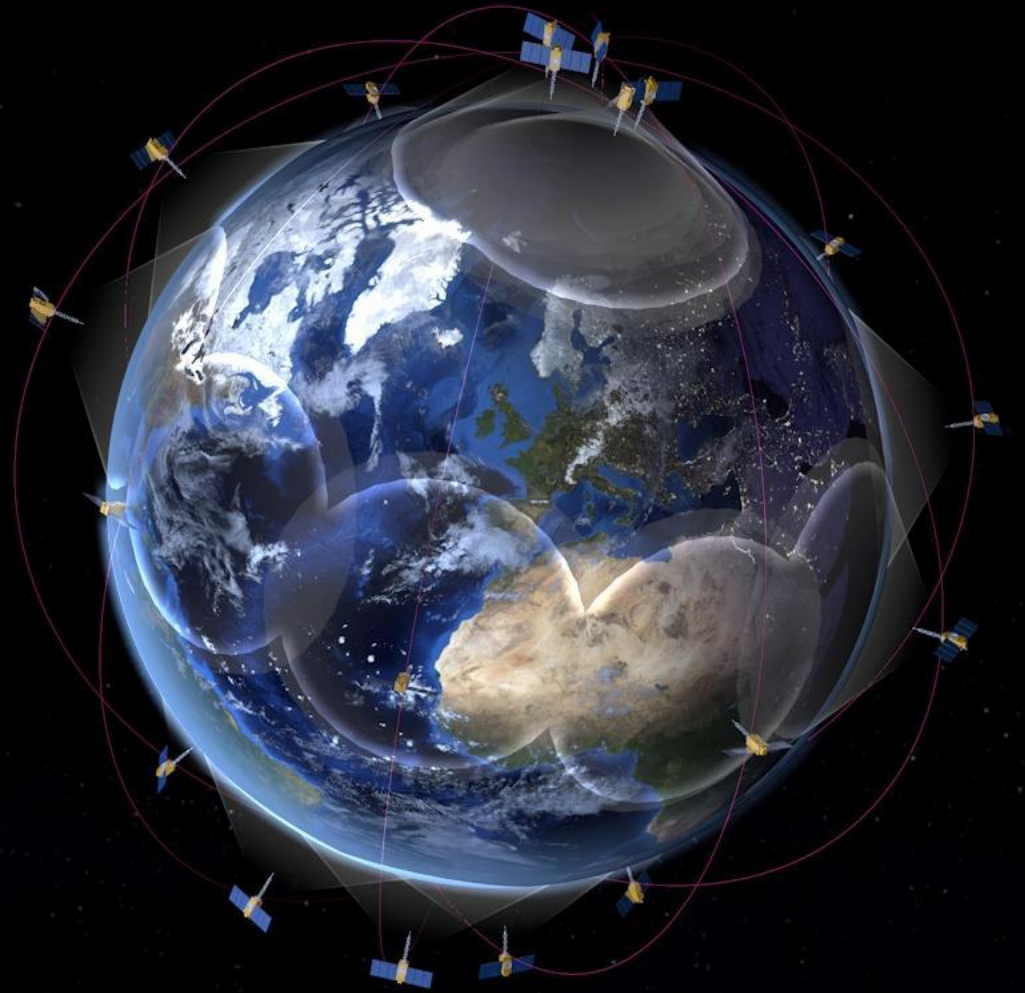
IoT
dedicated



Low
consumption



Easy &
Reliable



Satellite operator

Operation-ready service

- Payloads on **7 satellites in orbit**
- Complementing ground telecom networks
- **No roaming**
- Current revisit time 1.5hr today, **<15 min in 2023**
- Licensed frequencies UHF (~400 MHz)
- 2-way communication
- AIS



8 in orbit
payloads



25 nanosats
in 2023



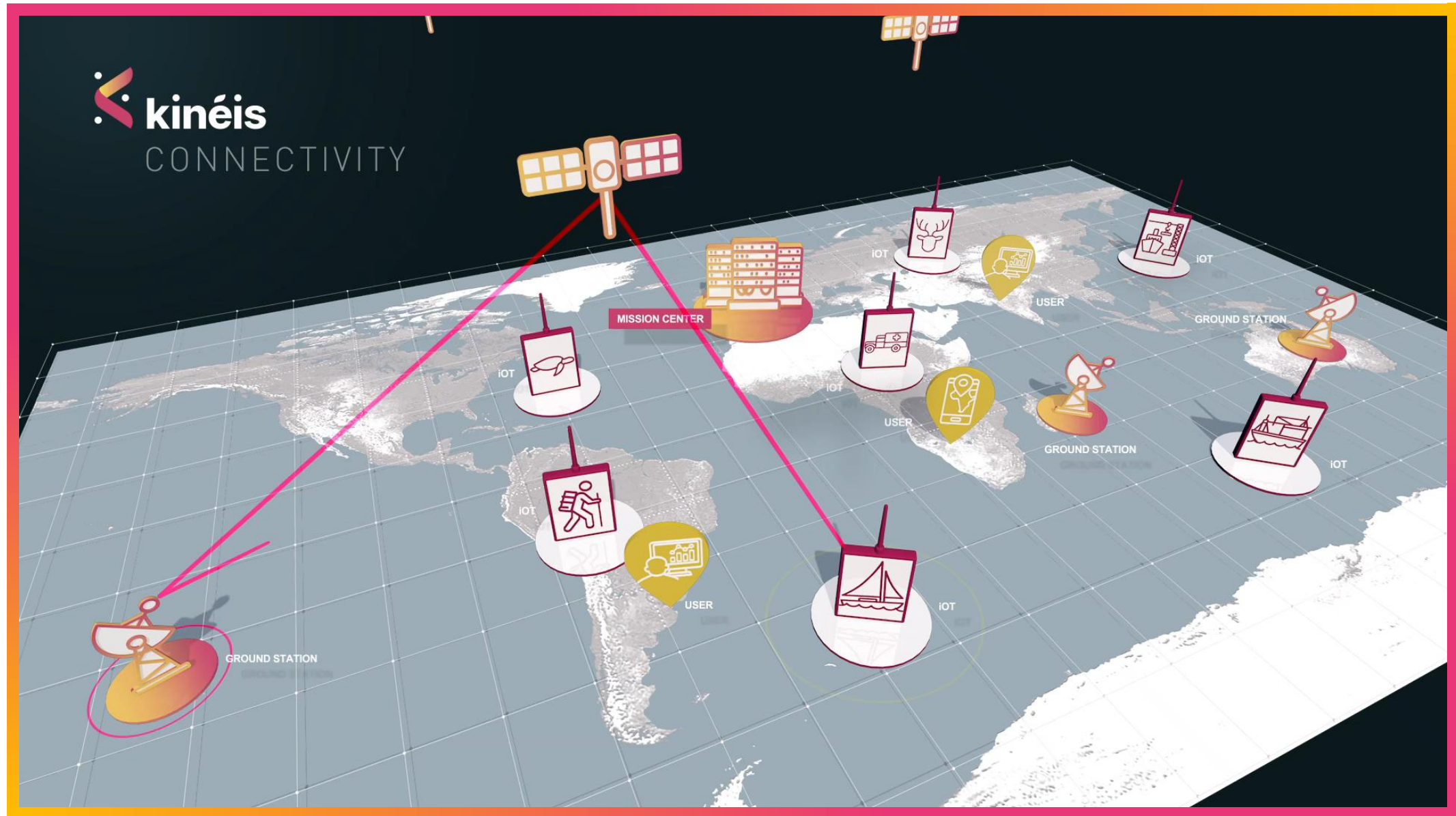
20 ground
stations



Operated
24/7



How does it work?



What can you do with our Space IoT connectivity?



IoT everywhere - truly global, no blind areas, no roaming



Track and locate - native location service



Collect data - 30-byte typical messages, all sensors compatibles (GNSS...)



Alert - messages upon specific event



devices control - two-way communication



Hybridization - with terrestrial networks for a seamless service

*Get your data within 15min, from a miniaturized device (few grams & cm),
with minimum power for a maximum autonomy*

For what application?

Sciences & Environment



Humanitarian



Maritime



Smart agriculture



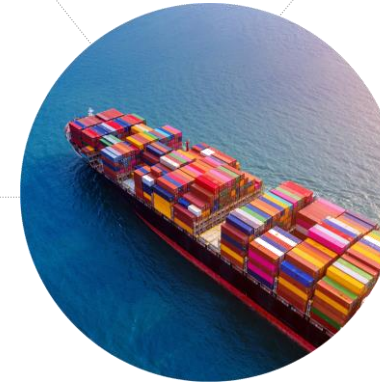
Outdoor activities



Networks & Infrastructures



Transports & Logistics



Business cases

Asset tracking + monitoring

What can you get from the solution?

- + Access to the **latest** data **updates**
- + **Receive alerts** to detect any issue
- + Get analytics on the **uptime** and **downtime** of your assets
- + Get analytics on the **health & integrity** of your assets

What are the business outcomes?

- + Draw a **liability perimeter** up for each partner
- + Identify the **sticking points** (downtime, underusage, etc.).
- + Decrease **operating costs** & improve **asset integrity**
- + Make **accurate decisions** based on **reliable** data coming from the field & analyse **patterns**



Business cases

Monitoring + Alerting

What can you get from the solution?

- + Access to the **latest data**
- + **Receive alerts** to detect any issue
- + Get analytics on the **health & integrity** of your assets

What are the business outcomes?

- + **Remote** monitoring, **passive inventory** & **visibility** over assets' **integrity**
- + Decrease **operating costs** & improve asset **integrity**
- + Make **accurate decisions** based on **reliable** data coming from the field & analyze **patterns**



Product line : connectivity enablers

Chipsets



Best
miniaturization

Modules



Simplest
integration

Evaluation boards



Fast
prototyping

Space Priority Program



Prototype
development
with Kinéis
connectivity

Shuttle Program



Off-the-shelf
POC enabler

Space Priority Program

Test with privileged access



Unlimited connectivity for 6 months



Development kit



Plateforme for data visualisation



Technical support



Complete analysis and recommendations



Start your development

With evaluation board and your favorite hardware platform



Kinéis' portfolio: offers, services & products

			Hardware	Kinéis connectivity & add. services	Support + documentation	Demo platform access
Kinéis offers, services and products	Discovery track	Space Priority Program Quick Space Access	✓	✓	✓	✓
		Kineis Shuttle Program	✓	✓	✓	✓
		Development kits	✓			
	Off-the-shelf	Chipsets	✓		✓	
		Modules	✓		✓	
		Antennas	✓		✓	
	Services	Connectivity		✓		
		Native location		✓		

Kinéis an International Company

Kinéis Inc. – Washington DC – USA



Kinéis HQ – Toulouse France

Kinéis integrators



Transport & Logistics



Asset tracker

Tracking and industrial monitoring device.
« Kineitc-K1 » also uses LORAWAN & Sigfox.

Data:

- Monitoring machines, parks, premises containers
- Fleet management
- Predictive maintenance



Network & Infrastructure



Tank monitoring

Self-powered controlled remote monitoring & data solution for location and level

Data:

- Monitoring of licks
- Water level monitoring



Smart agriculture

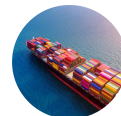


Livestock monitoring

Ear tag solution for livestock monitoring & tracking

Data:

- Geographical position
- Temperature
- Accelerometer
- Heart monitoring



Transport & Logistics



Asset tracking

Multi-connectivities tracking device (Kinéis/LoRa/LTE-m)

Data:

- Fleet management
- Predictive maintenance

Kinéis integrators



Maritime



Asset tracking

Tracking and monitoring devices for leisure boats

Data:

- Localization
- Alerting
- Monitoring, temperature, maintenance



Smart agriculture



Crop monitoring

Weather station for crop monitoring and connected irrigation

Data:

- Soil moisture
- Weather information
- Leak monitoring



Smart agriculture



Livestock monitoring

Connected collars & ear tags

Connected syringe for livestock vaccination

Data:

- Location
- Health monitoring
- Temperature



Transport & Logistics



Asset tracking + monitoring

GPS and multi connectivity industrial tracking devices (Kinéis/BLE)

Data:

- Monitoring machines, parks, premises containers
- Fleet management
- Predictive maintenance

Thank you!

Any questions?

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