kinéis

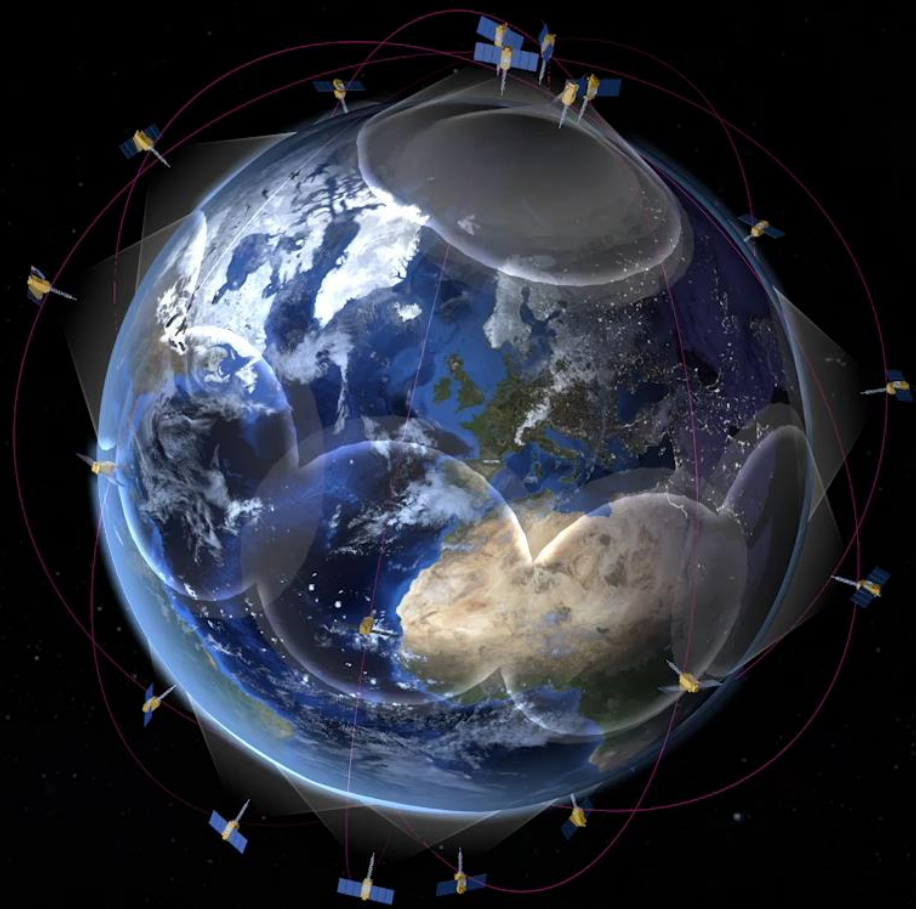
Integrated IoT: From Dream to Reality

ASMS Conference 2025

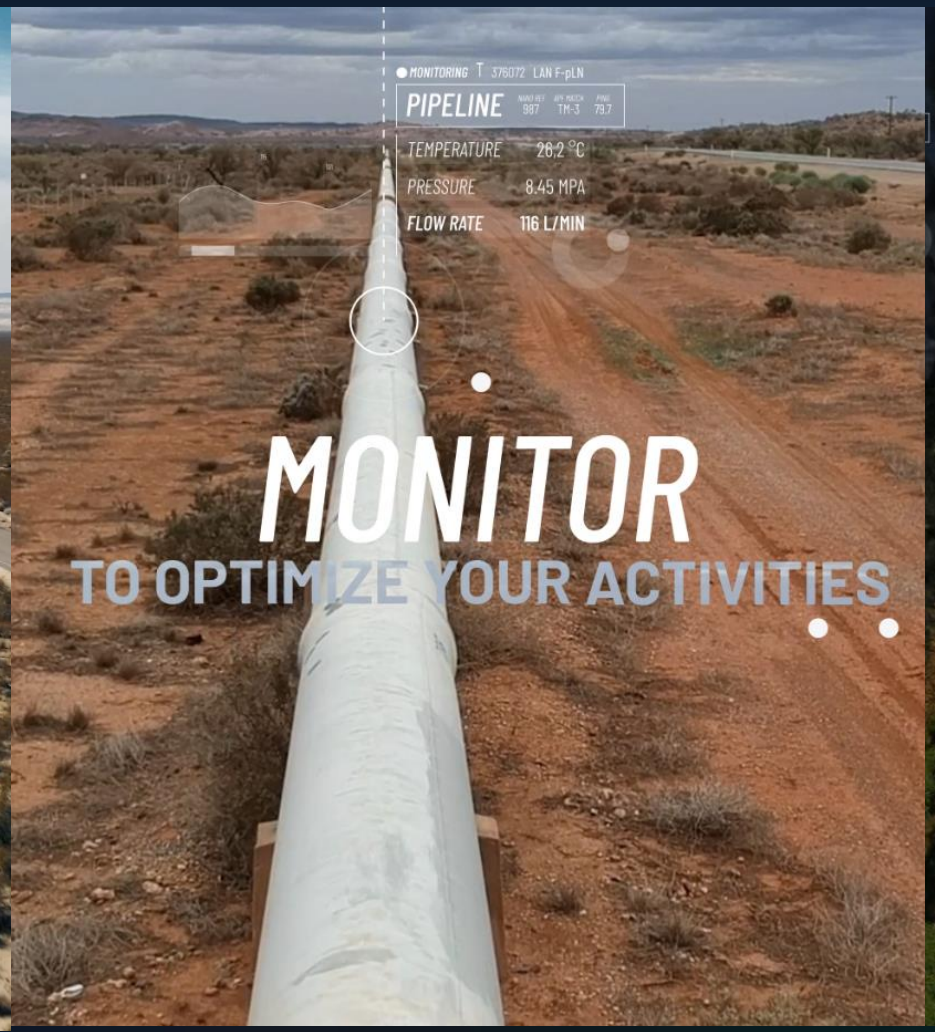
Vincent Deslandes

Kinéis connect 100% of the planet

25 satellites perfectly distributed for **global coverage**



Delivers the information you need



Facts & Figures

Kineis is a sovereign European MSS satcom operator dedicated to IoT

2024/25
5 Launches & a full operational constellation

2022/23
International deployments

2020
100M€
Fundraising from public and private investors

2018
Kinéis Creation

Kinéis satellite IoT connectivity inherits from the ARGOS system, which started in 1978 as a French American cooperation involving CNES and NOAA with support from NASA

60 experts' staff

200 mobilized individuals

1 European-made constellation dedicated to the Internet of Things

25 cutting-edge microsatellites

40 years' experience in data collection

20 ground stations located around the world

1 global coverage

20 000 connected devices

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Kinéis LPWAN System

Kineis System

- Constellation of 25 micro-satellites perfectly distributed
- Regenerative, Store & Forward System
- Using UHF licenced band
- Ground network of 20 owned stations
- Average revisit time ~5 min, 15 min at maximum
- Providing best in class maritime surveillance service AIS

Simple, reliable and efficient IoT Connectivity Service

- Natively integrated with terrestrial LPWAN
- Bi-directional Communication, no roaming
- Simple protocol with very low overhead (Random Access)
- Low Tx power (100mW), Low energy consumption
- Native Localisation with Doppler Effect
- Miniaturized low-cost modules

Kinéis Device Modems

Natively integrated with terrestrial LPWANs such as Lora

Modules
KIM1 / KIM2

Reference Designs
STM32WL & Semtech LR11 Series

Proto phase / PoC → Low / Mid volumes → High volumes

Adoption & Business ignition
Fast & Easy

Business scaling
Low cost & power, Small form factors

Space-Terrestrial Integrated IoT
A reality

- **Integration in IoT** communication is not really a topic anymore
  - **Commercially available** solution with high level of integration
  - Both for **LPWAN and NTN-IoT**

- **Turning points**
  - Advent of dual mode & **low-cost chipsets** by major chip makers
  - **Standardization of NTN** which brought the terrestrial community towards the satellite

- **IoT** (and smartphone messaging) **spearhead of this integration**
  - ➔ **Low QoS requested** (latency, throughput) making closer satellite & terrestrial experiences
  - ➔ Simple **technologies easily adaptable** (frequencies, orbits, satellite sizes)
  - ➔ High **value of the transmitted bit** making business case more realistic

- Next step is more about **simplifying the access** for the users and **scaling up**

Thanks!

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Satcom IoT Operator

DO YOU HAVE
ANY QUESTIONS?

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