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The IoT Network for the Planet

# Astrocast SatIoT services supporting sustainability

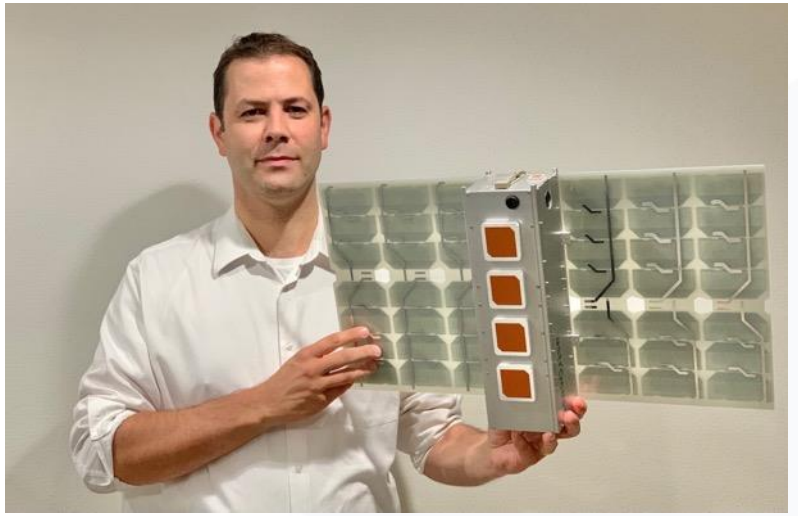
COP26 – Nov 3rd, 2021

# 75 members | 27 nationalities | 1 mission

“We track assets, monitor the environment, and save lives by building and operating the most advanced and sustainable satellite IoT network.”

# The Astrocast Nanosatellite IoT Network

- Astrocast successfully launched 10 satellites on two SpaceX Falcon 9 launches in 2021
- Astrocast allows you to track, measure, manage, communicate and control your IoT assets from the world's most remote regions



# Astrocast is the leading SatIoT Service

**We deliver a comprehensive, end-to-end, direct-to-orbit SatIoT Service for customers willing to expand their IoT Strategies to remote regions of the world.**

Astrocast's global network provides a direct-to-satellite solution that features:

- Cost effective satellite connectivity
- Miniaturized patch antennas enabled by L-Band spectrum
- Two-way communication
- Ultra-low power terminals


# Who We Do It For

## Environment

Water infrastructure, environmental sensors, smart metering

## Connected Vehicles

Vehicle telematics, commercial fleet and rental vehicle tracking, mobile tank tracking, fuel-chemical food tank monitoring


## Agriculture & Livestock

Agriculture sensors, livestock and species tracking

## Maritime

Fishing buoys, navigation and environmental buoys

## Asset monitoring

Industrial equipment tracking

Panic buttons

## Mining, Oil & Gas

Heavy equipment, tracking and monitoring, well head monitoring, cathodic protection, environmental sensors, security

# The winning combination

From sensors to data-driven decisions

- **Space-based sensors** => Many existing Earth Observation satellites generating large amount of data
  - Value extracted with powerful **data analytics capabilities**
  - Lacks granularity for strategic local decisions.

- **Ground-based sensors** => Local observation is provided by sensors in the field
  - Essential for granularity and better precision
  - Requires **connectivity** to exchange data with Headquarters

- **Low-cost Satellite IoT infrastructure**
  - Allows any IoT sensor on the ground to be connected cost-effectively (bidirectional communications)

# Environmental Use Cases 1

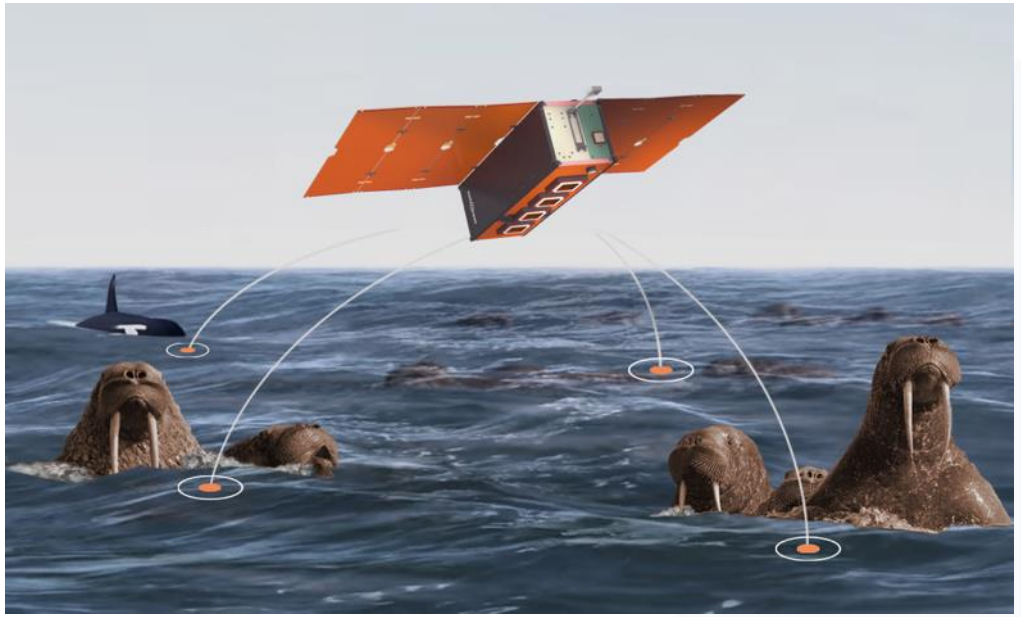
## Reduction/Monitoring of Emissions and Leaks

- Fleet Management, route optimization
- Alternative to unnecessary inspection/delivery visits to remote locations
- Eliminating unnecessary fuel top ups
- Maritime sector – Process and operational optimization to increase safety and reduce gas emissions

# Environmental Use Cases 2

## Water management

- Global monitoring of oceans
- Monitoring of glaciers, rivers and other water bodies
- Monitoring of water infrastructure
- Agriculture and Livestock
- …



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Taking IoT Further

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