



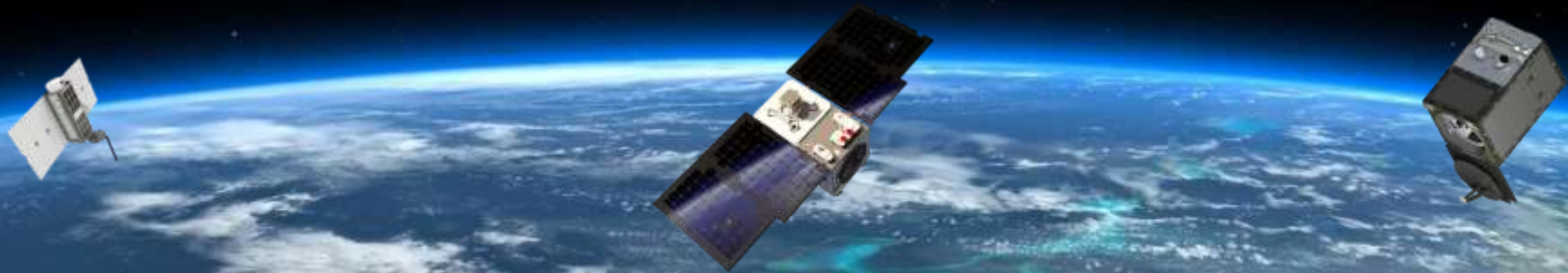
**A Premium Geospatial Industry Conference**

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# Achieving High Temporal Resolution and High Reactivity in Earth Observation



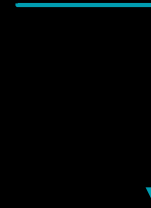
In a competitive, fast-moving globalized economy, there are narrow windows to respond to change and make timely decisions.



What is needed ?

Ultra-fast order and delivery of images from any location on Earth

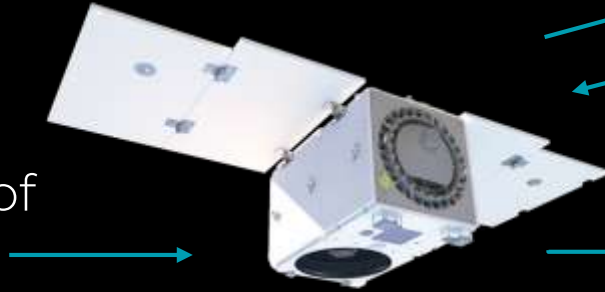
Place an order within minutes of a critical event



Receive data within minutes of acquisition

# Ultra-fast order and delivery

Place an order within minutes of a critical event



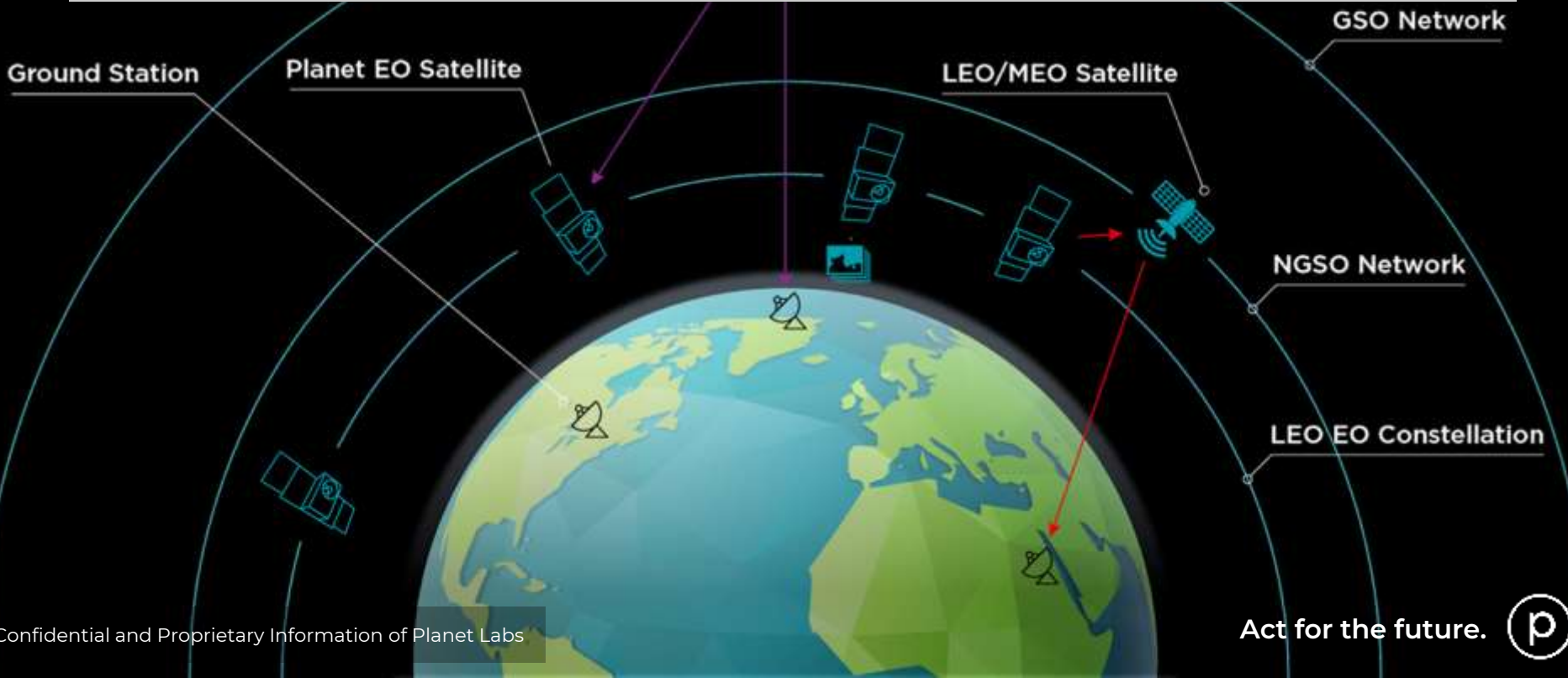
Satellite-to-satellite communication reduces latency

Receive data within minutes of acquisition

- High reactivity tasking
- ..... Image acquisition
- Real-time high speed downlink



## Improving Reactivity and Latency: Real-time communication between satellites

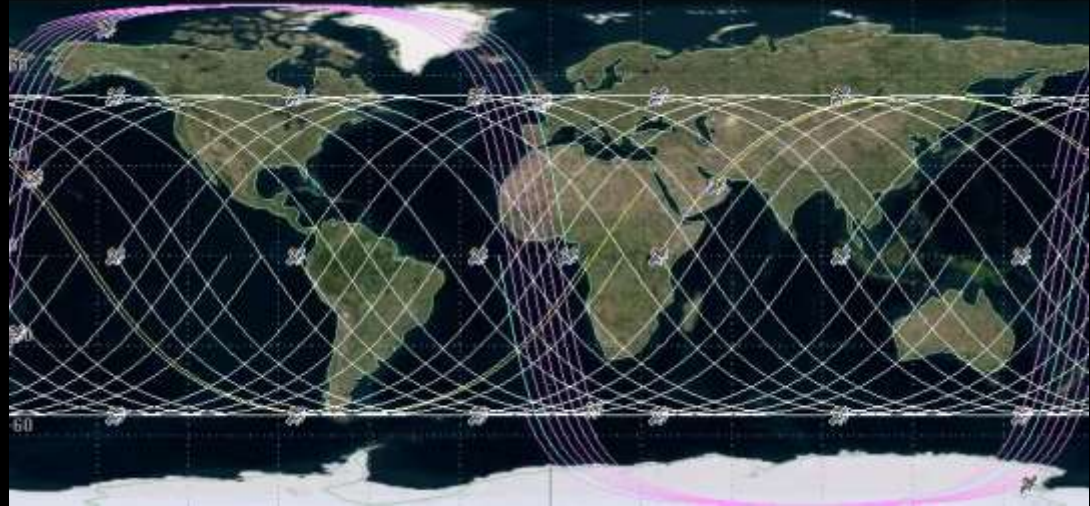


# World coverage and revisit: *optimizing the constellation parameters*

Consideration of **Y**

- Number of satellites
- Choice of orbital inclinations
- Number of orbital planes and phasing

- *Few SSO satellites for high latitudes coverage and constant illumination conditions*
- *Several inclined orbits for intra-day-spread revisit and mid / low latitudes better coverage*
- *Consideration of launch opportunities*











# High intraday revisit captures fleeting events

Average # of revisits across the globe



# Meet Pelican

Planet's next-generation satellite constellation for delivering high-resolution, rapid revisit insights anywhere on the globe.

**RESPONSIVE**

**RAPID REVISIT**

**HIGHLY PRECISE**

**INTEROPERABLE**



# A leap forward in capabilities

Expansive  
coverage

Up to

**32**

satellites

Higher daily  
revisit

Up to

**30**

captures  
per day

Ultra-fast  
acquisition

~ **5**

minutes  
or less

Greater  
precision

**30**

cm  
resolution



# Thank you!



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For more information, you may find us here:



Official Website



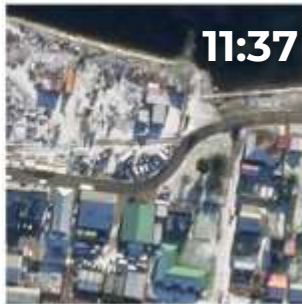
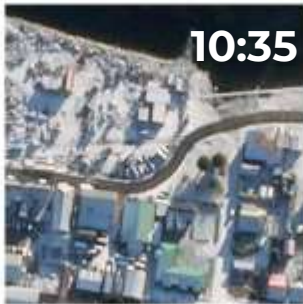
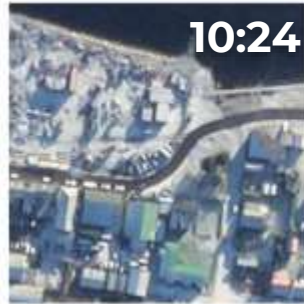
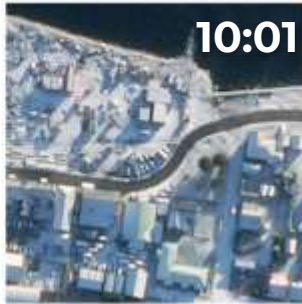
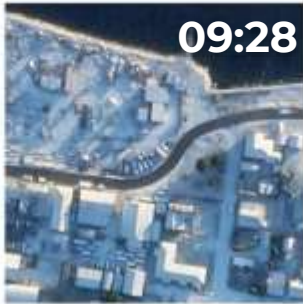
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**Spare slides**





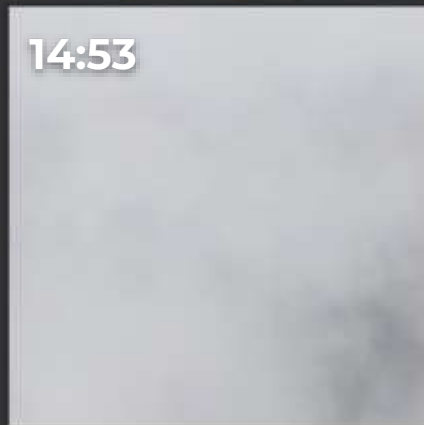
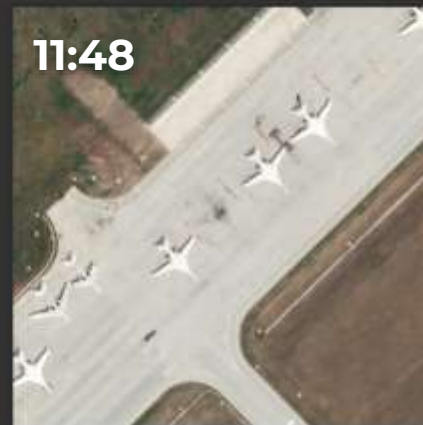
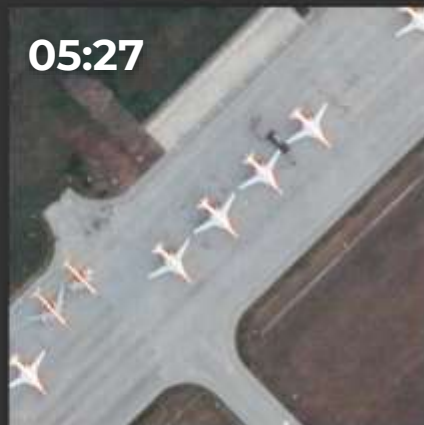


## Rapid Revisit

**Stanley, Falkland Islands**  
July 14, 2021

all times FKST





## Rapid Revisit

Engels Air Base, Russia  
July 15, 2021

all times SAMT