

LOFT ORBITAL

SPACE MADE SIMPLE

SPACE TODAY....

Lengthy procurements
Complex integration



High Regulatory Requirements

Bit	Rate	Mod						
1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31	31

People and Resource Intensive



AN INFRASTRUCTURE PROVIDER FOR THE SPACE INDUSTRY



WE FLY PAYLOADS IN LOW EARTH ORBIT ON BEHALF OF CUSTOMERS.

SATELLITE AS A SERVICE

Operates ~100kg microsattellites; payload rideshare

Loft Orbital is mission manager and licensee

Standard, universal adapter for accommodating any payload

Customers task payload in real-time; Loft Orbital maintains shutter control

WE ARE PAYLOAD AGNOSTIC

Optimized for <70kg payloads across any space application

Imaging

- Visible / multispectral / panchromatic imaging
- Hyperspectral imaging

RF and Signals

- Software-defined radios
- Spectrum characterization and use analysis

Asset Tracking

- AIS
- ADS-B
- Search and rescue receivers

M2M / IOT

- Low-bandwidth M2M
- VDES
- 2-way small data exchange

Weather & Climate

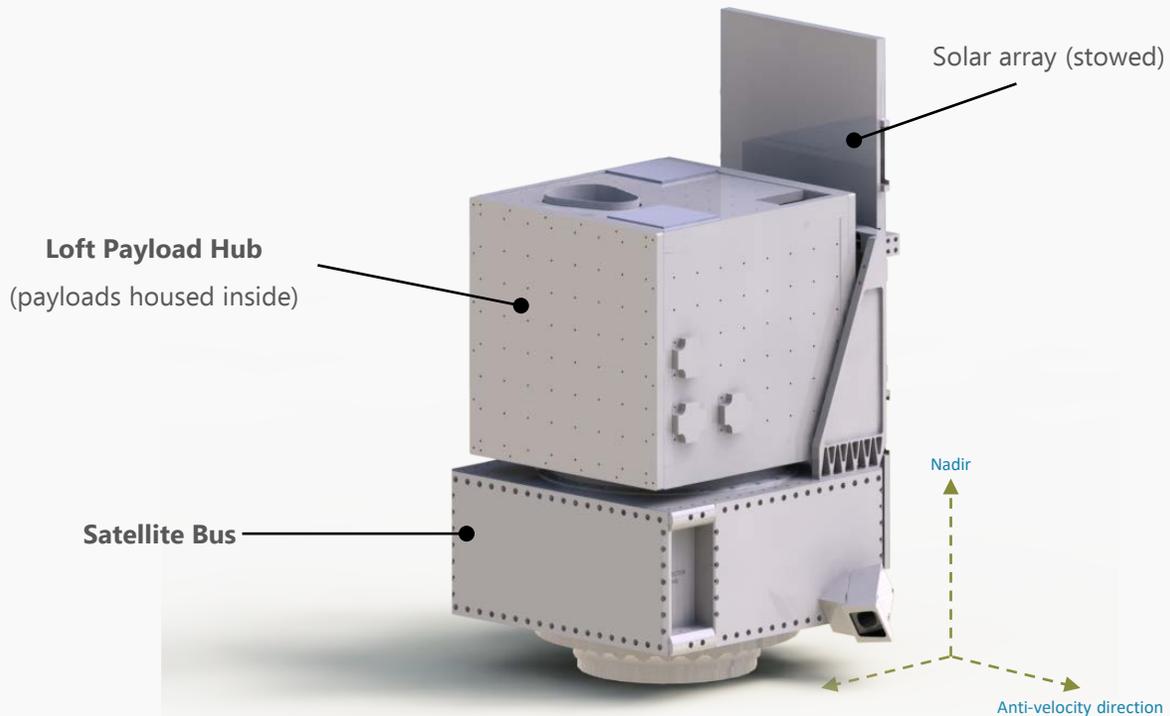
- IR and microwave sounding
- GNSS RO and reflectometry
- Spectroscopy
- In situ space science

In-Orbit Demos

- Optical communications
- On-board processing
- Spacecraft and payload subsystems

"YET ANOTHER MISSION"

YAM-2 MISSION: Q1 2020



**Bus provided by Blue Canyon Technologies;
Launching on a PSLV**

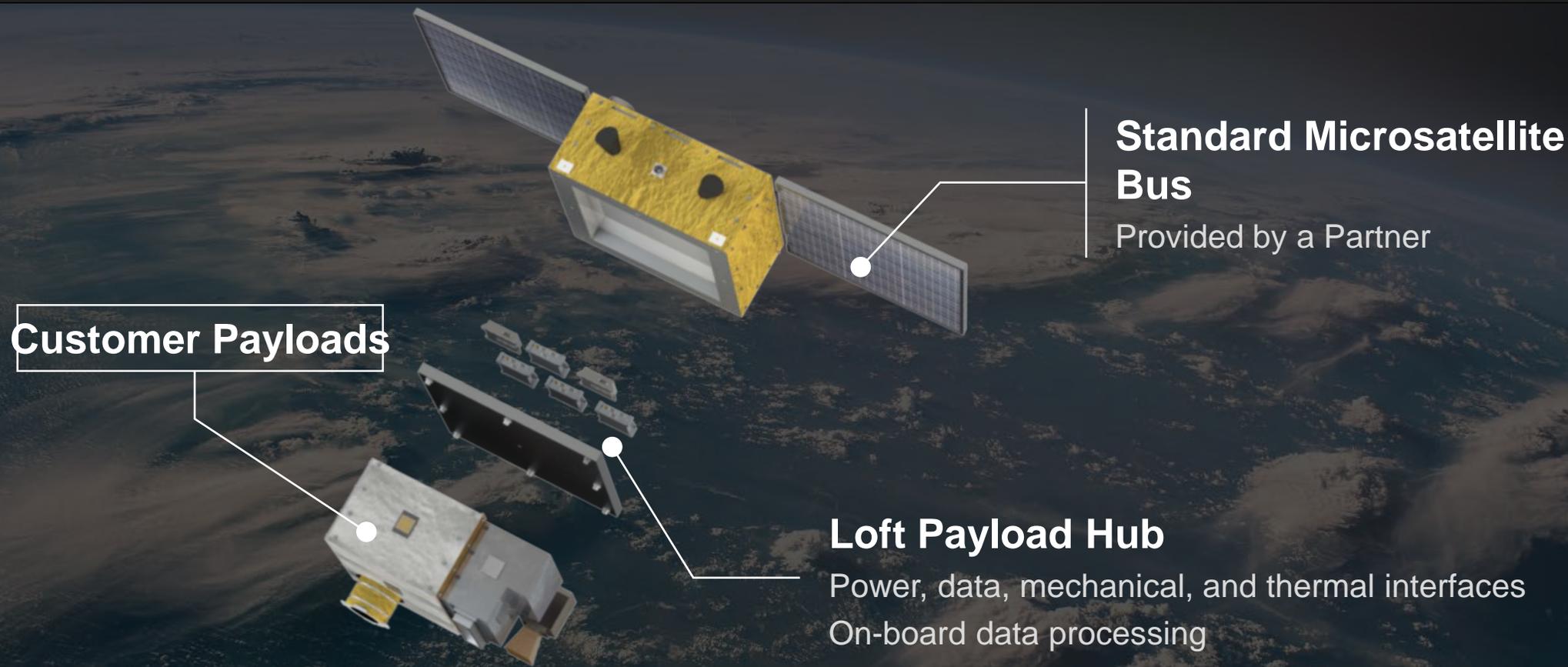
YAM-2 Filled in 5 months

- **Orbital Sidekick:** Hyperspectral imager
- **UAE Government Agency:** Hyperspectral imager
- **Undisclosed Customer:** Internet of Things RF payload
- **Fugro:** Technology Demonstration
- **SpaceChain:** Storage of cryptocurrency encryption keys

YAM-3 and 4 nearly 100% booked

- YAM-3 (Q2 2020)
- YAM-4 (2H 2020)
- Quarterly missions (2021+)

FOCUS ON SPEED, AFFORDABILITY, RELIABILITY



▶ Payload Hub limits non-recurring engineering; creates cost and schedule advantages

PAYLOAD OPERATIONS AND MISSION CONTROL



Cockpit – Mission Control Software

Key Principle:

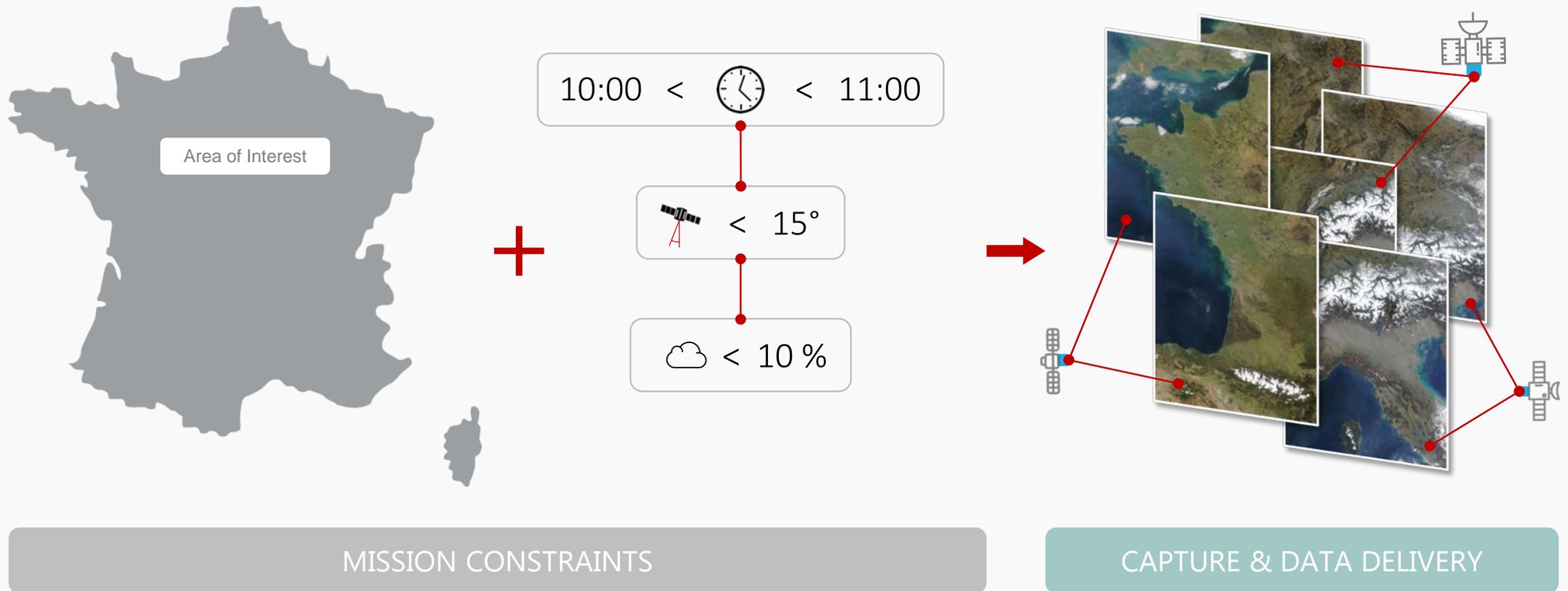
Users command their payload; Loft operates the satellite and maintains shutter control

Automated tasking from single missions to payload constellations

API and web-based interface customized to each customer mission

USE CASE: OPTICAL IMAGING

Using constrained mission scheduling, optimal scenarios are automatically generated from capture to data delivery.



A DISRUPTIVE, SERVICE-ORIENTED BUSINESS MODEL



Turn CapEx into OpEx

- Annual leasing model with the majority of payments post-launch
- Turning high upfront capital requirements into quarterly subscription payments
- Pay only for what your mission needs



Pay for Performance

- Service-Level Agreements (SLAs) quantify Loft Orbital's commitments to the mission and customer
- Example: should the spacecraft fail, customers stop payments
- Insurance from AIT to In-Orbit Operations: Reimbursement of Customer's milestone payment

WHAT'S NEXT



● Constellations-as-a-Service

● Onboard Processing: “Bring your own algorithm”

● Early procurement of long-lead items, even entire satellite buses

● Multiple-vendor sourcing strategy

● Payload timeshare + data marketplace