



THERMAL INTELLIGENCE FOR BETTER DECISIONS

21 October 2021



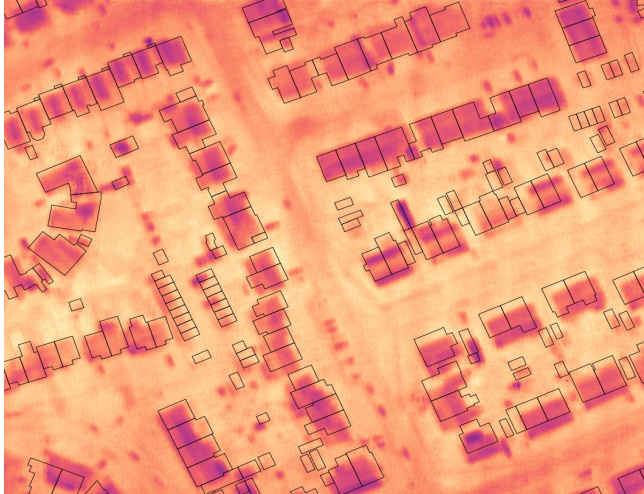
INFRARED HAS UNIQUE PROPERTIES THAT MEAN YOU CAN SEE ACTIVITY INSIDE BUILDINGS



Optical



Radar



Infrared (IR)

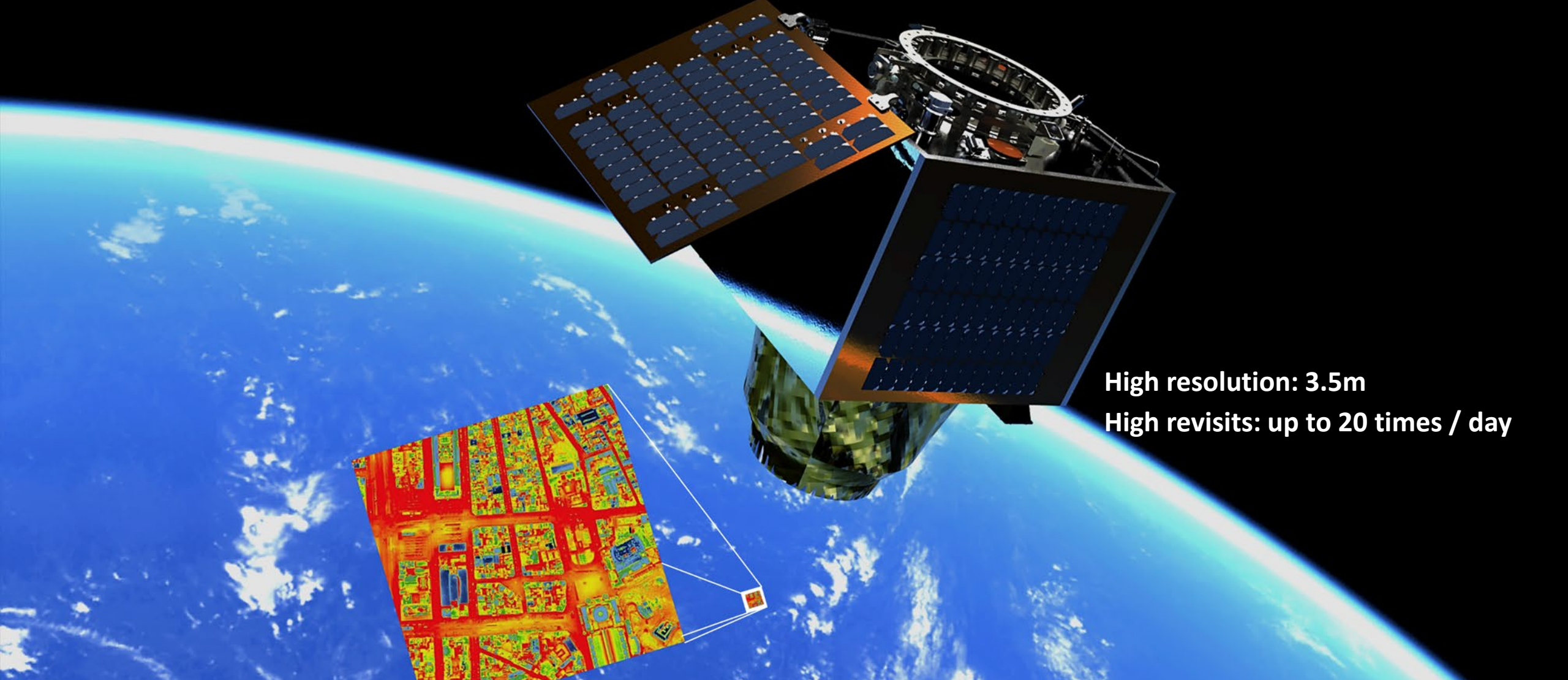
Optical and Radar see only the outside of structures

Optical cannot see at night or detect heat emissions

Current commercial IR satellites are >100m resolution, with limited applications

Satellite Vu opens the box and to “see” what’s happening inside

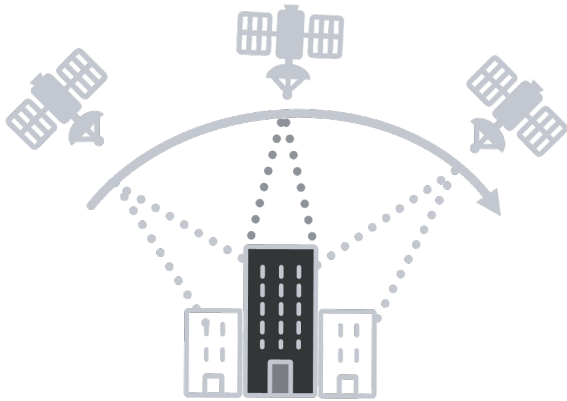
SATELLITE VU WILL LAUNCH THE FIRST CONSTELLATION CAPABLE OF MONITORING HEAT EMISSIONS FROM ANY BUILDING ON EARTH EVERY FEW HOURS



High resolution: 3.5m
High revisits: up to 20 times / day

HIGH -RESOLUTION THERMAL IMAGERY & VIDEO, GLOBAL COVERAGE, UP TO 20 REVISITS PER DAY

Unique Infrared Satellite Constellation



Specification

- 3.5m resolution image
- 16km² scene
- Mid-infrared 3.4 - 5.0 um
- < 2 Kelvin sensitivity
- Infrared video (1,500 frames, 60 seconds)



Constellation

- First satellite launch October 2022
- 7 total in constellation
- Global coverage
- Agile camera
- 10 – 20 revisits per day
- Fully tasked

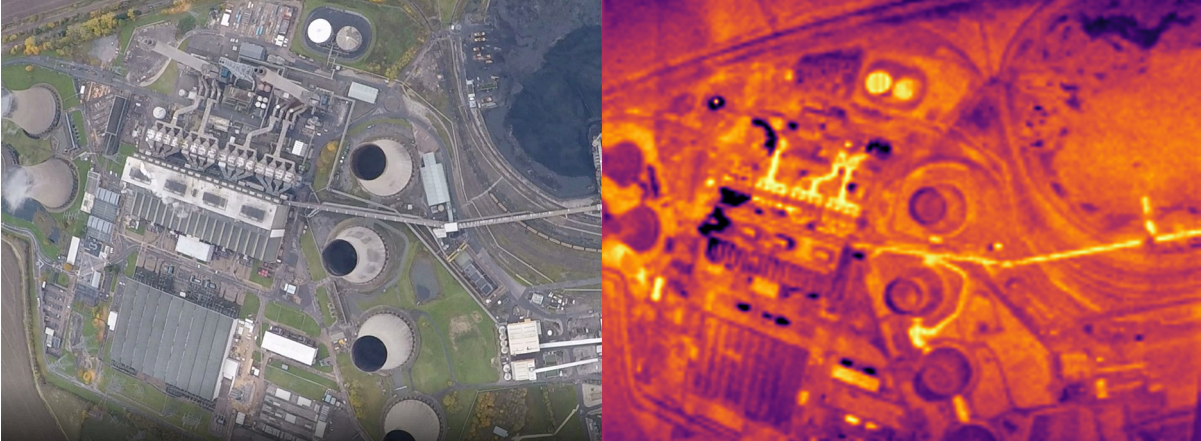
CURRENT ACTIVITY: FLIGHT TRIALS & PROOF

-OF -CONCEPTS

IR imagery from aircraft flight surveys, using engineering model of satellite camera. Resolution degraded to represent imagery from space



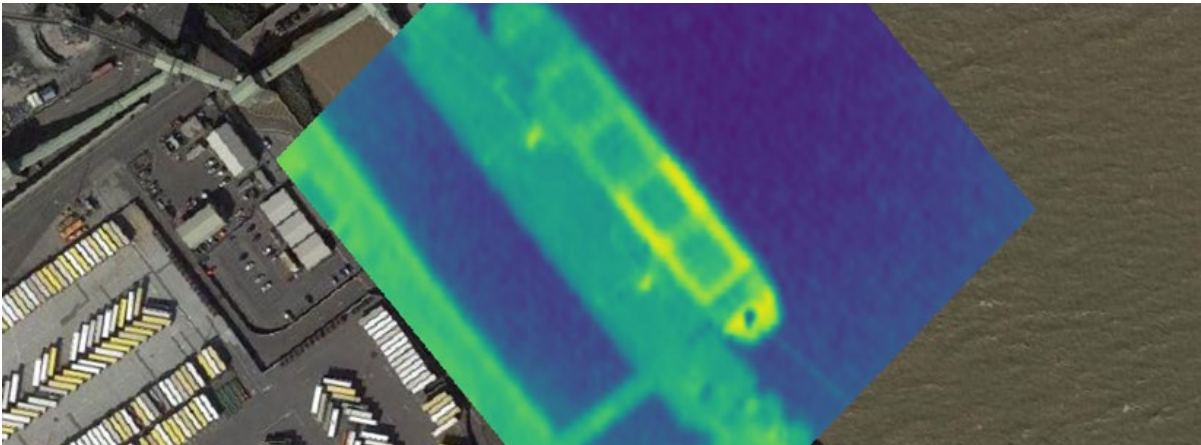
Process and Storage Insights



Power Station Insights



Building Level Thermal Outputs



Bulk Ore Carrier Ready to Depart

MORE IMAGES

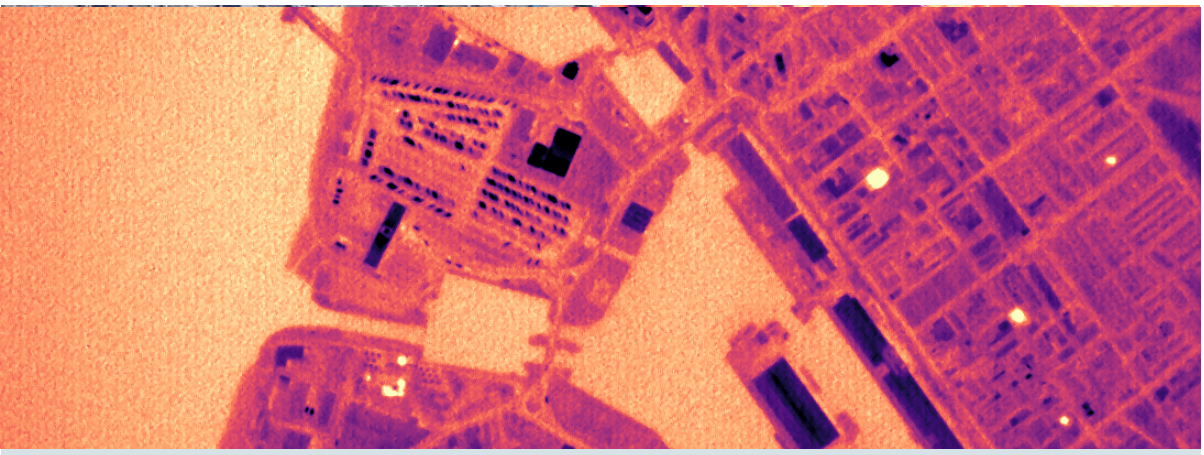
Sensor imagery from flight surveys



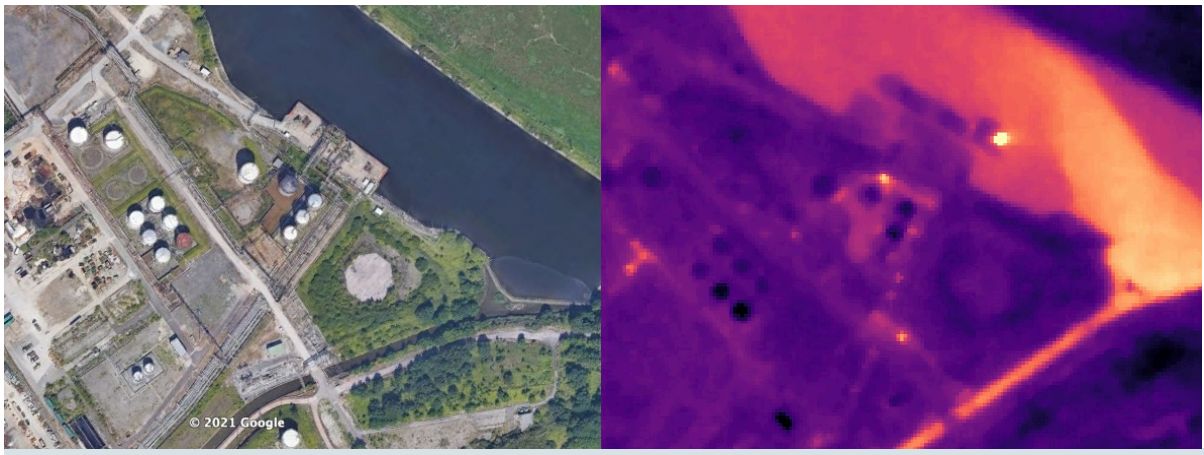
Industrial Process Insights



Power Station Insights

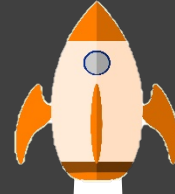


Ports



Pollution events

TIMELINE



2023

Launch further 6 Satellites

October 2022

Launch 1st Satellite

2021 ongoing

Aerial flight surveys & customer PoCs

2021 ongoing

Satellite in build
Delivery platform development



SUMMARY

- High-resolution thermal imagery & video detects what's going inside buildings & infrastructure
- Global coverage, up to 20 revisits per day
- 1st satellite launch October 2022
- Currently undertaking aerial flight surveys
 - working with customers & partners on proof-of-concepts, e.g. ground features / buildings / structures of interest, areas of interest

