

CLICK TO KNOW MORE

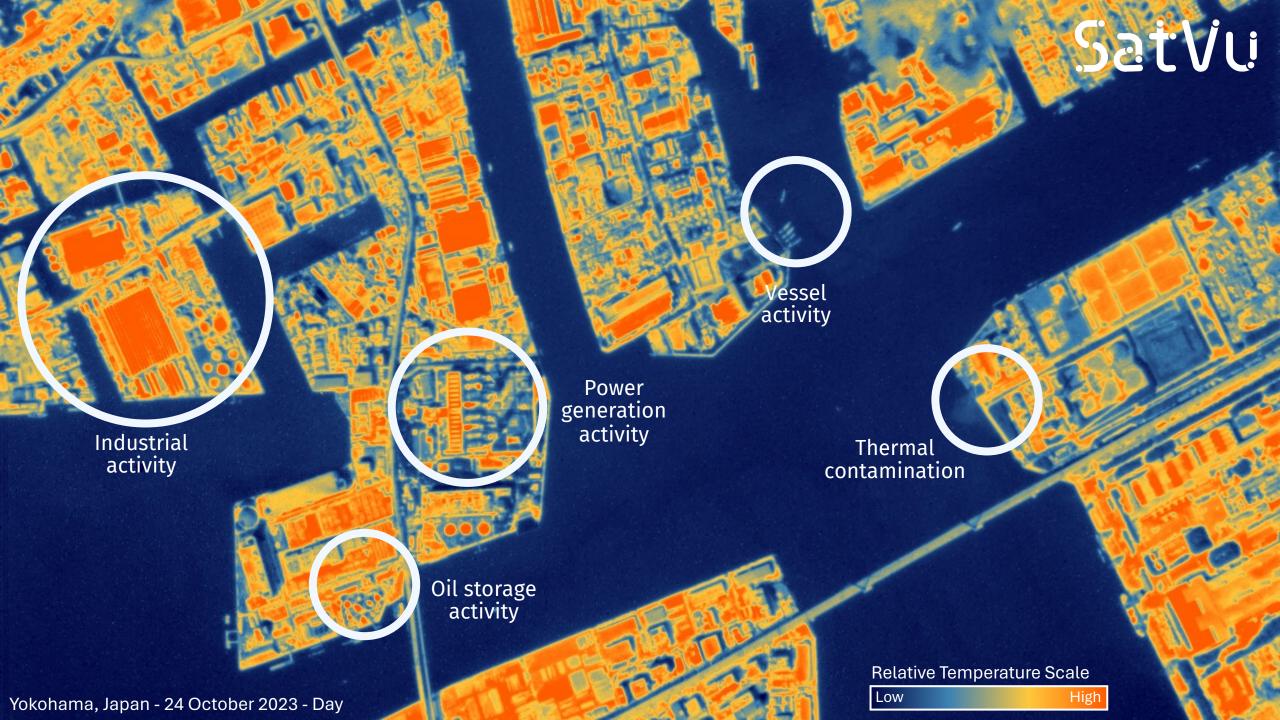


First images from HotSat-1

Introducing a Unique Thermal Imagery Dataset: From Concept to Market

Alex Gow

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Thermal infrared on the electromagnetic spectrum

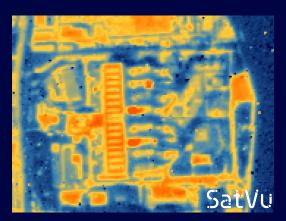
SatVu



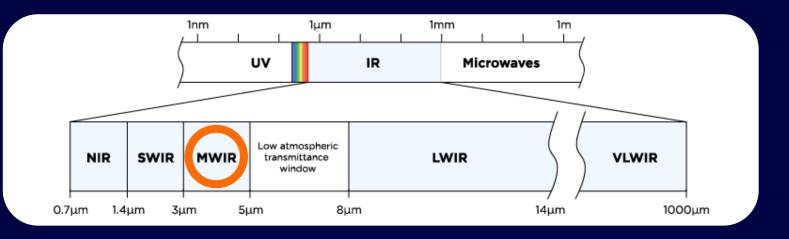
Visible imagery shows the outside of structures during the day

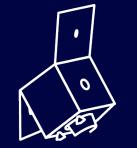


Radar imagery shows the surface geometry of structures day and night



Thermal Infrared can indicate activity inside structures day and night



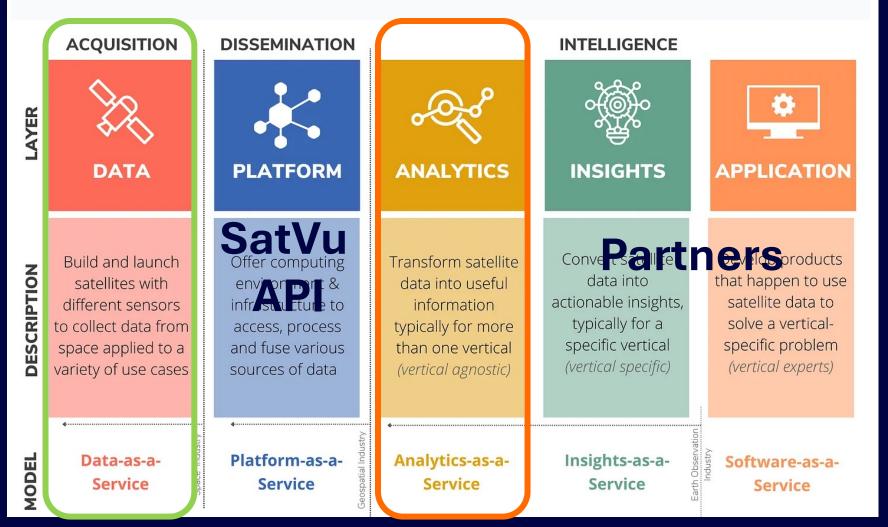


HotSat Specification:

- 3.5 m at nadir
- 16 km² at nadir
- Single image & Video
- Day & Night Imaging



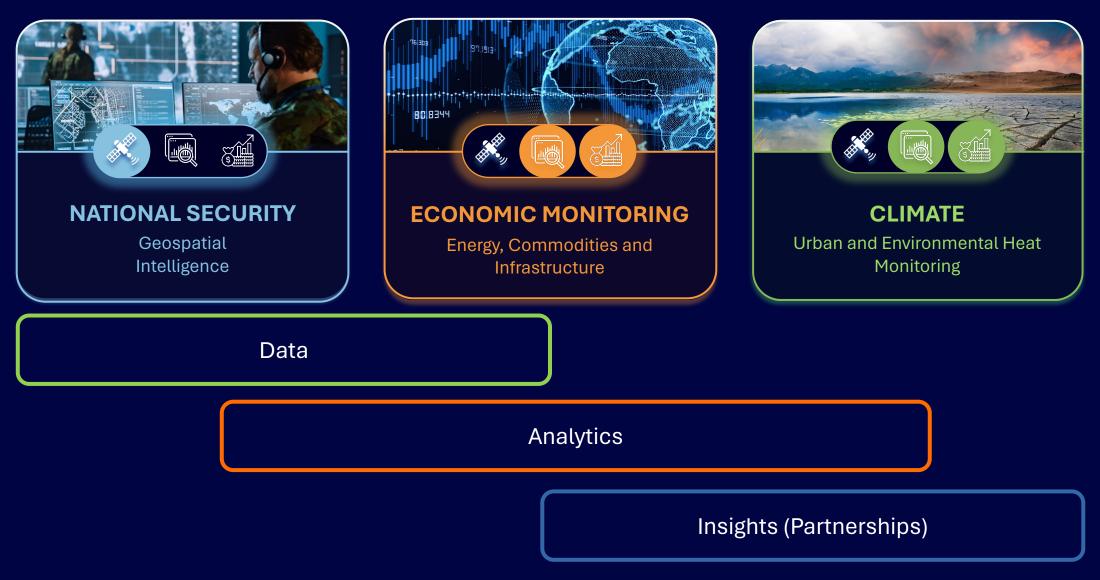
EARTH OBSERVATION OPERATING STACK



https://newsletter.terrawatchspace.com/p/the-state-of-commercial-earth-observation

Market Overview

SatVu



Case Study: Industrial Activity Analysis

Al Zour Refinery, Kuwait



6

Strategic Industrial Activity Analysis Al Zour Oil Refinery, Kuwait



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Strategic Industrial Activity Analysis Al Zour Oil Refinery, Kuwait

- Open-Source media reports indicate a fire incident took place 16th Nov 2023 at a desulphurisation facility within the Al Zour Oil Refinery plant in Kuwait.
- **Temporal SatVu HotSat Thermal Mid-IR imagery** collection and analysis confirms this fire incident occurred during the times indicated, and normal plant operations were resumed by 30 November.

Nov 16, 2023 - 08:28

Al Zour 615kbd Refinery Has "Limited Fire" Thursday During Ramp Up

A fire broke out at the 615kbd KIPIC Al Zour refinery earlier Thursday in a desulphurization unit according to the operator.

- The fire has now been extinguished.
- Al-Zour was already offline as it was ramping back up again because of an interruption in fuel gas supplies last week.
- The restart of the refinery is reported as unaffected. The official X account tweeted Wednesday that full restart would take 10 days (before the fire struck)
- KIPIC tweeted after the fire "The Kuwait Integrated Petroleum Industries Company confirms that restart operations, low-sulfur fuel transfer operations to electric power generation stations, or external export operations have not been affected as a result of the limited fire accident that was controlled this morning in record time"

SatVu



أعلنت الشركة الكريتية للصناعات البتر ولية المتكاملة عن نشوب حريق محدود في وحدة نزع الكبريت (رقم 12) في مصفاة الزور صباح اليوم الخميس وبادرت قوات الإطفاء وعلى الفور بمكافحة الحريق تطبيقا لخطة الطواريء. ولم يسغر الحريق عن أي حوادث و نذه الحمد

Translated from Arabic by Google

The Kuwait Integrated Petroleum Industries Company announced that a limited fire broke out in the desulfurization unit (No. 12) at Al-Zour Refinery on Thursday morning.

The fire forces immediately began to fight the fire in implementation of the emergency plan. The fire did not result in any accidents, thank God



Last edited 5:29 AM · Nov 16, 2023 · 5,399 Views

Strategic Industrial Activity Analysis Al Zour Oil Refinery, Kuwait

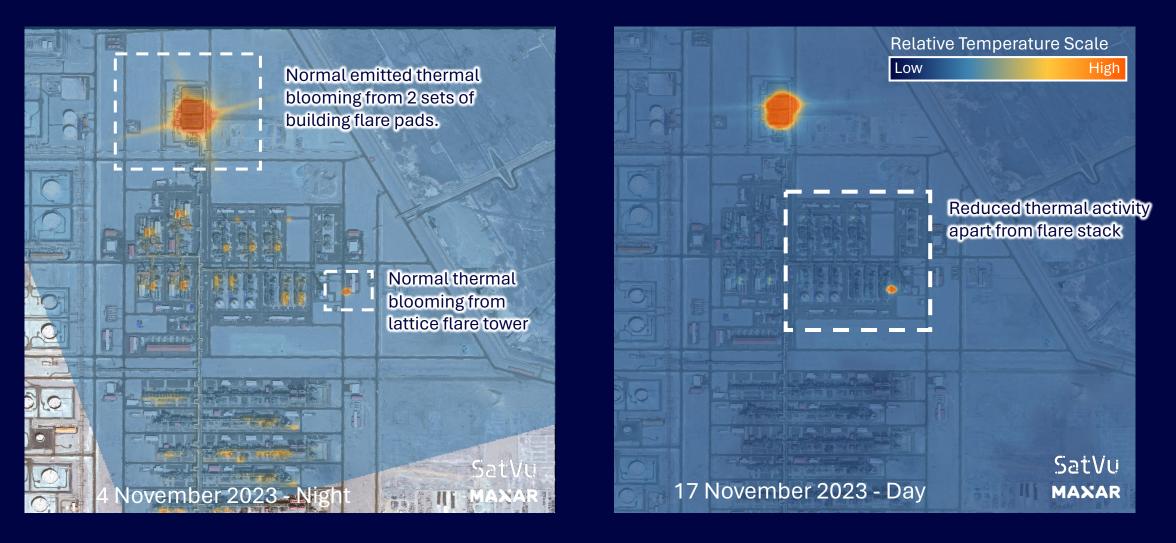




Strategic Industrial Activity Analysis



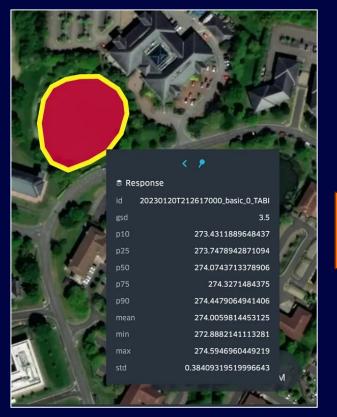
Al Zour Oil Refinery, Kuwait



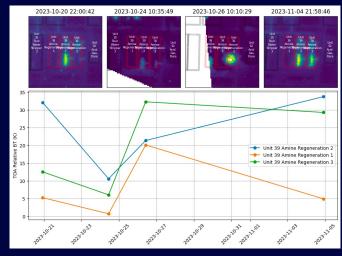
Analytics - Temperature Statistics API

SatVu

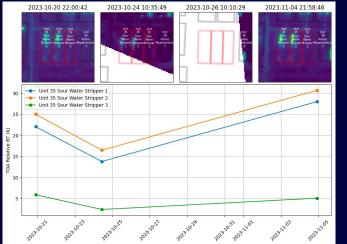
Add value by automating analytics

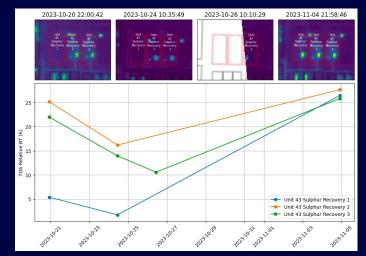


GeoJSON thermal statistics from HotSat imagery.



Amine Regeneration Units





Sulphur Recovery Units





Sour Water Strippers

Hydrogen production units

12

Case Study: Urban Heat

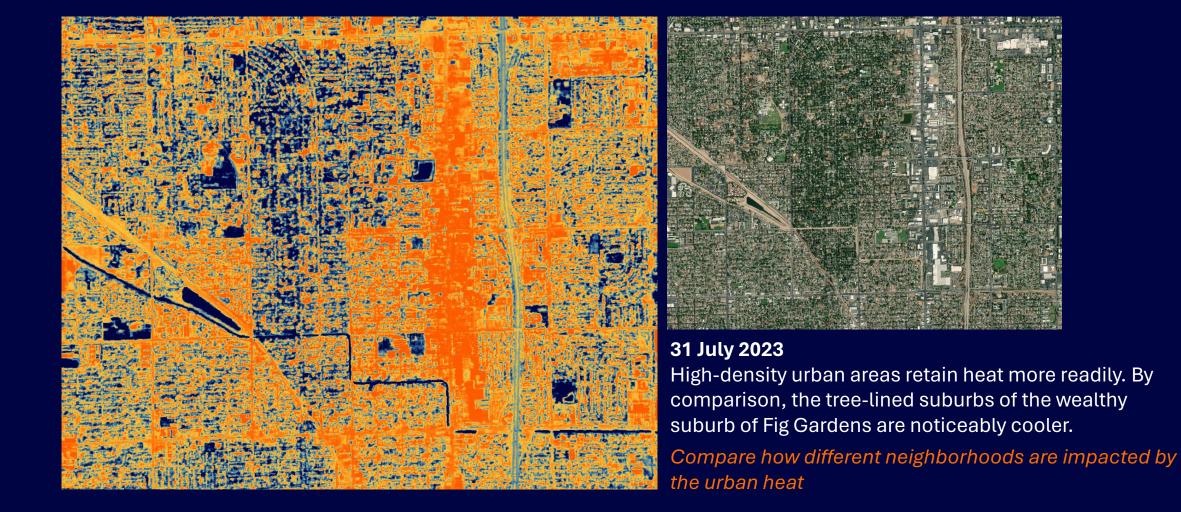
Global heat risk insights to support urban greening



Urban heat – the power of trees Fresno, California

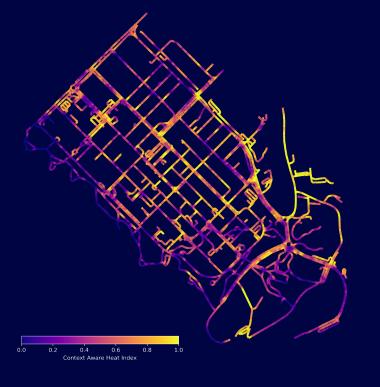
13| The world's thermometer





SatVU x OPO | Office of Planetary Observations

Context Aware Heat Stress (streets)



City of Darwin CBD

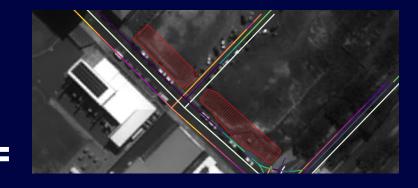


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Canopy Cover %

Tree Stress Index

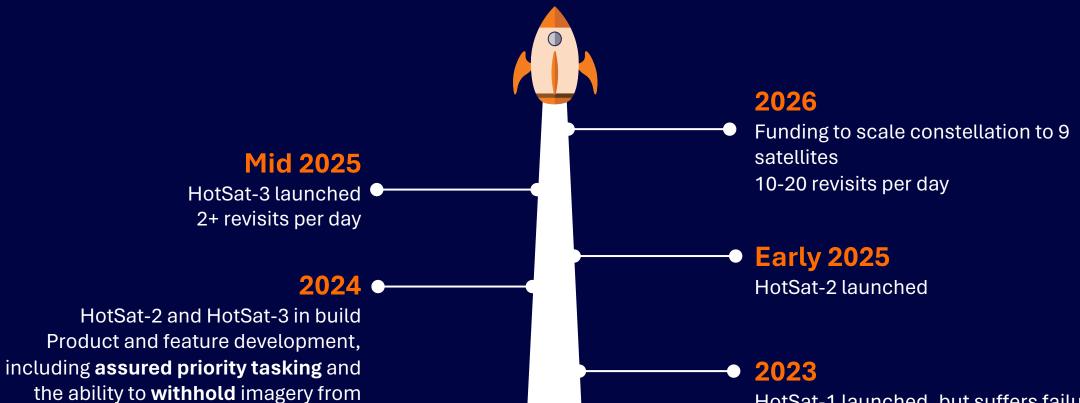
Planting Area Prioritisation (red hatch shows where to plant)





Our constellation





HotSat-1 launched, but suffers failure in orbit after 6 months Commercial operations begin

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the catalog

Thank you

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