RIN

DataHarvest 2025

Creating before/after viz using satellite images

Pulitzer Center

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Garimpos foram construídos perto de aldeias

Imagens de satélite revelam expansão de garimpo ilegal perto da aldeia Uxiu

Jabalya, North Gaza

Source: Google Earth - 2025 CNES / Airbus

Free tools to use

- **Copernicus Browser** (medium resolution, high frequency)
- **Google Earth Desktop** (high resolution, low frequency)
- **Flourish** (for viz)

Spatial resolution

Low resolution: over 60m/pixel

Medium resolution: 10m – 30m/pixel

High resolution: 3m – 5m/pixel

Very high resolution: <1m/pixel


Sentinel 2
10 m/px - medium res


AirBus
50 cm/px - hi-res

AirBus
<1 m/px - hi-res

Earth Observation Satellites

Satellite (provider)	Resolution	Access
Landsat (NASA)	30 m - medium	Open via EO Browser or NASA Catalogs (Earth Observatory or Landsat Viewer) and via Google tools (Earth Engine + Timelapse)
CBERS-4 (INPE-China)	20 m - medium	Open via INPE Imagery Catalog
Sentinel-1 (ESA) - SAR	10 m - medium	Copernicus Browser
Sentinel-2 (ESA)	10 m - medium	Copernicus Browser
Planet satellites	2~3m - high	Via NICFI (ended)
Pléiades (AirBus)	30 cm - high	Purchase (e.g. SkiFi)

Tools to get started

Where to find satellite images

Copernicus Browser
https://browser.dataspace.copernicus.eu/

Google Earth Pro (desktop version)
https://www.google.com/earth/versions/#earth-pro

NASA Worldview
https://worldview.earthdata.nasa.gov/

Planet Explorer (paid)
https://www.planet.com/

Where to find geospatial data

Protected Planet
https://www.protectedplanet.net/en

Global Forest Watch
https://www.globalforestwatch.org/

Natural Earth
https://www.naturalearthdata.com/

NASA Earth Data
https://earthdata.nasa.gov/

Resource Watch
https://resourcewatch.org/data/explore

Earth Map
https://earthmap.org/

Let's get to work!

Access the slides and the tip sheet from this shared folder:

bit.ly/dataharvest2025-qgis

THANK YOU!

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