

Space Business Innovation Challenge

Free Satellite Data Links and Resources

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Free Satellite Data Sources:

1. Copernicus EU Website
 - a. Access here: browser.dataspace.copernicus.eu
 - b. Types of Data Available:
 - i. Satellite imagery and datasets (Sentinel satellites)
 1. Optical
 2. Radar
 3. Atmospheric
 4. Ocean
 5. Climate
 - c. Example use cases:
 - i. Atmospheric, land, coastal, marine, agricultural monitoring
 - d. Additional resources:
 - i. <https://www.copernicus.eu/en/news/news/observer-space-your-screen-8-applications-improve-business-and-everyday-life-copernicus>
 - ii. <https://sentinels.copernicus.eu/web/success-stories/-/empowering-agriculture-in-mauritania-with-sentinel-2-the-techghilagro-success-story>
 - iii. <https://sentinels.copernicus.eu/web/success-stories/-/copernicus-sentinel-2-leads-precision-farming-into-new-era>
 - iv. <https://www.copernicus.eu/en/news/news/observer-empowering-entrepreneurs-grow-their-business-and-reach-new-heights>
 - v. [Introduction to the Copernicus Data Space Ecosystem and Copernicus Browser](#)
 1. You may find more videos under this YouTube channel:
<https://www.youtube.com/@copernicusdataspaceecosystem>
 - vi. You may also see the user guide made by PhilSA here:
[2025.09.10_SBIC Manual_v1](#)
2. NASA Worldview
 - a. Access here: <https://worldview.earthdata.nasa.gov/>
 - b. Types of Data Available:
 - i. Global satellite imagery (MODIS, VIIRS, Landsat, etc.)
 - ii. Natural hazard monitoring, climate and atmosphere, land data, ocean and cryosphere
 - c. Example use cases:
 - i. Disaster monitoring
 - ii. Environmental monitoring
 - iii. Agriculture and water resource tracking
 - iv. Climate change visualization

- d. Additional Resources:
 - i. [Getting Started with NASA Worldview](#)
 - 1. Other references can be found under this YouTube channel:
 - a. <https://www.youtube.com/@NASAEarthdata/videos>
- 3. USGS Earth explorer
 - a. Access here: <https://earthexplorer.usgs.gov/>
 - b. Types of Data Available:
 - i. Satellite imagery via Landsat series of satellites
 - ii. Radar and Elevation Data
 - iii. Aerial Photography
 - c. Example Use Cases:
 - i. Agriculture, forestry, water resources
 - ii. Urban planning
 - iii. Disaster Management
 - iv. Climate and environment
- 4. ALOS
 - a. Access here: https://www.eorc.jaxa.jp/ALOS/en/index_e.htm for general information. Access free data through ALOS World 3D here: <https://www.eorc.jaxa.jp/ALOS/en/dataset/aw3d30/registration.htm>
 - b. Types of Data Available:
 - i. ALOS series of satellites
 - 1. Optical imagery, advanced radar, weather imaging, elevation data
 - ii. Topography and land use datasets
 - c. Example use cases
 - i. Disaster monitoring
 - ii. Infrastructure and urban planning
 - iii. Flood mapping in cloudy conditions
 - d. Additional resources:
 - i. You may also refer to the user guide made by PhilSA here: [2025.09.11_DEM_Download_Manual_v1](#)
- 5. OpenStreetMap
 - a. Access Here: <https://www.openstreetmap.org/>
 - b. Types of Data Available:
 - i. GPS
 - ii. Maps
 - 1. Roads, highways, railways, waterways
 - 2. Buildings, parks, forests, etc.
 - iii. Community-input
 - iv. Location information

- c. Example use cases:
 - i. Mapping applications
 - ii. Routing
 - iii. Visualization
- 6. Google Earth
 - a. Access Here: <https://earth.google.com/web>
 - b. Types of Data Available:
 - i. Optical imagery
 - ii. Historical imagery
 - iii. 3D terrain and buildings
 - iv. GPS
 - v. Maps
 - vi. Location information
 - c. Example use cases:
 - i. 3D Maps for visualization
 - ii. Business and real estate for site selection