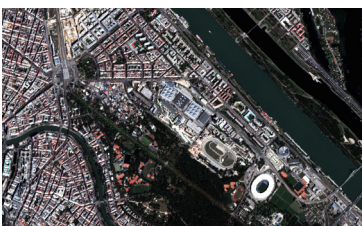




Your Partner for Satellite Imagery and Ready-to-Use Geodata

Optical & Radar Imagery



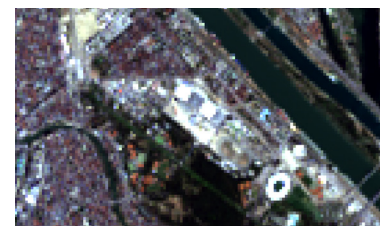
VERY HIGH RESOLUTION IMAGERY

- ✓ Resolution: 0.15 m – 1 m
- ✓ Optical Imagery
- ✓ Radar Imagery
- ✓ Nighttime Imagery
- ✓ Archive Data
- ✓ Tasking



HIGH RESOLUTION IMAGERY

- ✓ Resolution: 1 m – 30 m
- ✓ Optical Imagery
- ✓ Radar Imagery
- ✓ Hyperspectral Imagery
- ✓ Archive Data
- ✓ Tasking



MEDIUM RESOLUTION IMAGERY

- ✓ Resolution: >30m
- ✓ Optical Imagery
- ✓ Radar Imagery
- ✓ Archive Data
- ✓ Tasking

Access to commercial Earth observation satellites

GeoVille has more than 300 commercial satellites and microsats in its data portfolio

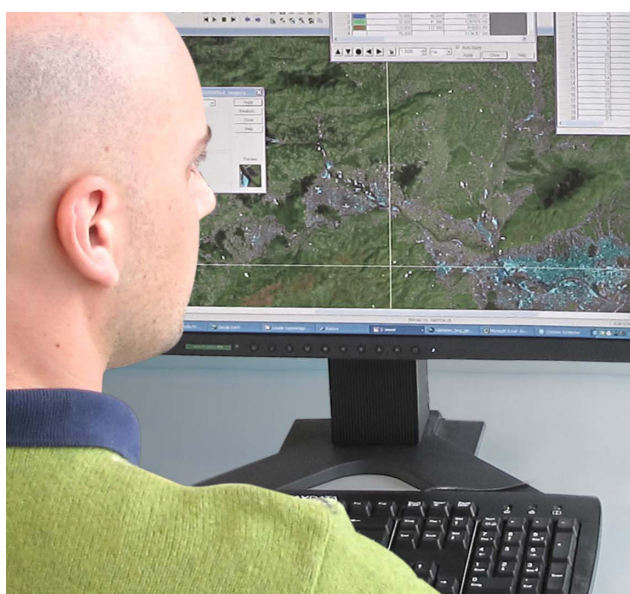
GeoVille's main expertise lies in the provision of specialised geo-information products extracted from satellites and other Earth observation sources as well as from in-situ (field) sources. With regard to the access and distribution of commercial satellite systems and related geodata, GeoVille has the marketing and distribution rights for almost

all commercial satellite operators (as of September 2021). Together with these satellite operators, GeoVille has the globally unique position to offer access to all commercial Earth observation satellites, enabling the freedom to provide truly fit-for-purpose data at highest quality or cost efficiencies.



High Resolution Image of Malta

OUR SATELLITE OPERATOR NETWORK



Availability & Access Options

- ✓ Archive search - GeoVille is your partner for international archive search
- ✓ Rapid Service Option - Processing within 24 hours
- ✓ Regular and specialised tasking - Various options available, e.g. cloudfree, low incident angle, etc.
- ✓ Emergency tasking
- ✓ Application Programming Interface (API) – Integration into your existing network
- ✓ Customer provided online portal for full access

Optical Satellite Imagery



VERY HIGH RESOLUTION IMAGERY

Our very high resolution images have a spatial resolution of 0.15m up to 1m where single buildings, shadows, roads, vehicles, individual trees and even individual persons are recognizable. This level of detailed information allows precise image analysis and feature extraction.

RESOLUTION: 0.15-1M

- ✓ Environmental Monitoring
- ✓ Urban & Transportation
- ✓ Industry
- ✓ Emergency Management
- ✓ National Security

HIGH RESOLUTION IMAGERY

The pixel size of high resolution images can be considered to range from 1m to 30m. These images are used for detailed land cover and land use mapping from regional to national scales.

RESOLUTION: 1-30M

- ✓ Agriculture & Forestry
- ✓ Land Use Mapping & Monitoring
- ✓ Urban Planning
- ✓ Disaster & Crisis Management
- ✓ Stereo Mapping & Digital Elevation Models
- ✓ Security



MEDIUM RESOLUTION IMAGERY

Moderate resolution images are characterised by a spatial resolution in the order of 30m and above. The satellites offer a high revisit rate and allow frequent monitoring of land cover and environmental phenomena. Thus they afford to infer major Earth surface transformation processes.

RESOLUTION: >30M

- ✓ Environmental Monitoring
- ✓ Disaster Monitoring & Management
- ✓ Ressource Monitoring
- ✓ Meteorologic Applications



Radar Imagery



Radar imagery is widely used where reliable images need to be taken independently of cloud cover and daylight. The Radar data form the basis for a broad portfolio of applications where the use of optical satellite data reaches its limits.

RESOLUTION: 0.25–500M

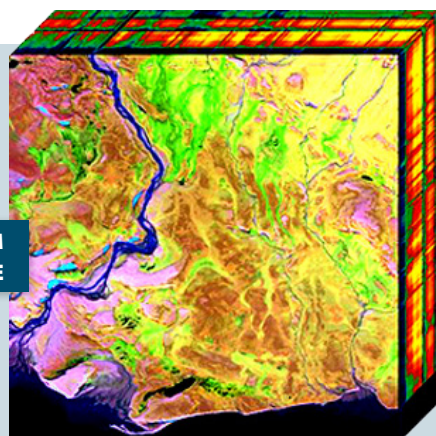
- ✓ Surface & Object Movement
- ✓ Environmental Monitoring
- ✓ Water Resources Assessment & Management
- ✓ Geology
- ✓ Emergency Management
- ✓ Industry
- ✓ Urban Applications
- ✓ Security

Hyperspectral Satellite Imagery

Hyperspectral image detectors record hundreds of spectral bands of relatively narrow bandwidth simultaneously. With this higher level of spectral detail, it is possible to „see the unseen“ and gain information that is not possible with multispectral images.

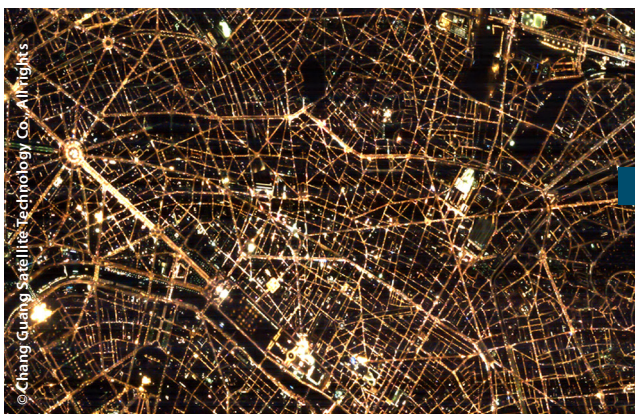
RESOLUTION: 5 - 25M
UP TO 600 SPECTRAL BANDS IN THE VISABLE RANGE

- ✓ Environmental Monitoring
- ✓ Exploration of Oil & Gas
- ✓ Agricultural Monitoring (e.g. crop health & pesticides)
- ✓ Mineralogy



© NASA 2020

Nighttime Satellite Imagery



Absolutely clear nighttime images and a spatial resolution of 0.9m or less open the horizon for further detailed image analysis and applications that were hardly possible with remote sensing techniques before.

RESOLUTION: 0.9M

- ✓ Light Pollution Studies
- ✓ Population Estimates
- ✓ Measurement of short-term disturbances in power
- ✓ Monitoring of illegal nighttime activities (e.g. fishing)
- ✓ Modelling of anthropogenic carbon emissions

Overview Satellite Imagery

| Sensor | Operating Time | Resolution | Revisit Time |
|-------------------------------------|----------------|---------------|--------------|
| VERY HIGH RESOLUTION OPTICAL | | | |
| ALEPH Constellation | 2016 - today | 0.99 m | daily |
| DEIMOS-2 | 2014 - today | 0.75 m | 2 days |
| Gaofen-2 | 2014 - today | 0.8 m | 5 days |
| Geoeye-1 | 2008 - today | 0.41 m | 2.5 days |
| GEOSAT 2 | 2014 - today | 0.75 m | 2 days |
| Ikonos | 1999 - 2015 | 0.8 m | 3 days |
| Jilin-1 Constellation | 2015 - today | 0.75 m | 4 days |
| KazEOSat-1 | 2014 - today | 1 m | 3 days |
| Kompsat Series | 2006 - today | 0.55 m – 1 m | 3 -14 days |
| Plèiades | 2011 - today | 0.5 m | daily |
| Quickbird | 2001 - 2015 | 0.55 m | 2 -12 days |
| Skysat Constellation | 2013 - today | 0.6 m – 0.9 m | sub-daily |
| Superview | 2016 - today | 0.5 m | daily |
| TripleSat Constellation | 2015 - today | 0.8 m | daily |
| Vision-1 | 2018 - today | 0.9 m | 1 – 8 days |
| Vivid-I Constellation | 2018 - today | 0.6 m | Sub-daily |
| Worldview Constellation | 2007 - today | 0.31 m | 1 – 4 days |
| HIGH RESOLUTION OPTICAL | | | |
| ALOS (AVNIR &PRISM) | 2006 - 2011 | 2.5 m | 5 days |
| DEIMOS-1 | 2009 - today | 22 m | 2 – 3 days |
| DMC Constellation | 2002 - today | 22 m | 1 – 2 days |
| Gaofen-1 | 2013 - today | 2 m | 4 days |
| GEOSAT 1 | 2009 - today | 22 m | 2 – 3 days |
| KazEOSat-2 | 2014 - today | 6.5 m | 3 days |
| PlanetScope | 2015 - today | 3 m | daily |
| RapidEye | 2009 - 2019 | 5 m | daily |
| SPOT-6 & 7 | 2012 - today | 1.5 m | daily |
| ZiYuan-3 | 2012 - today | 2.1 m – 2.5 m | 5 days |

Overview Satellite Imagery

| Sensor | Operating Time | Resolution | Revisit Time |
|---|----------------|-----------------------|--------------|
| MEDIUM RESOLUTION OPTICAL | | | |
| GaoFen-4 | 2015 - today | 50 m | sub-daily |
| HuanJing-1 | 2008 - today | 30 m | 4 days |
| RADAR | | | |
| ALOS (PALSAR) | 2014 - today | 1m / 3 m / 100 m | 14 days |
| Capella SAR Constellation | 2018 - today | 0.5 m / 0.8 m / 1.6 m | hourly |
| COSMO-SkyMed Constellation | 2007 - today | 1 m / 5 m / 30 m | Sub-daily |
| Gaofen-3 | 2016 - today | 1 m – 500 m | 3 days |
| Kompsat-5 | 2013 - today | 0.85 m / 2.5 m / 5 m | 28 days |
| Radar Constellation (TerraSAR-X / Tandem-X / PAZ) | 2007 - today | 0.25 m – 40 m | 4 – 7 days |
| TerraSAR-X | 2007 - today | 0.25 m -18 m | 11 days |
| HYPERSPECTRAL | | | |
| ALEPH Constellation | 2016 - today | 25 m | daily |
| Pixxel Constellation | 2021 - today | 5 – 10 m | daily |
| NIGHTTIME | | | |
| Jilin-1 Constellation | 2015 - today | 0.92 m | 9 days |

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