





GEOGRAPHIC AXIS ●
SPIN AXIS ○



SPACE REFERENCE
FRAME



“Over the next decade, revenue from GNSS, Earth Observation and satellite telecommunications (80% of the space industry market revenue) has growth rate of ~9%”

~ EUSPA Market Report and Euroconsult



Operating Critical Infrastructure

“15 of 18 critical infrastructure and key resources sectors relied on the Global Positioning System (GPS) including telecommunications, emergency services and financial exchanges.”

~ U.S. Department of Homeland Security



**United
Nations**

Global Geodetic Centre of Excellence

Statistics Division – Department of Social and Economic Affairs

GLOBAL GEODESY SUPPLY CHAIN (GGSC)

The global geodesy supply chain is the complete system that produces and delivers accurate geodetic data – from ground-based observatories – through to the final products used in mapping, disaster management, and sustainable development.



Learn More



<https://ggim.un.org/UNGGCE/>



<https://www.linkedin.com/company/unggce/>



United Nations
Global Geodetic
Centre of Excellence

Stronger. Together.

United Nations General Assembly resolution 69/266



UN General Assembly resolution (2015) “A global geodetic reference frame for sustainable development”



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Weaknesses in the global geodesy supply chain

EVIDENCE

AWARENESS

CAPACITY

GOVERNANCE

RESOURCES



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Recognition of the risk from GNSS providers



“ICG members openly acknowledged the risks highlighted by the UN-GGCE and recognized strengthening the global geodesy supply chain should be prioritised to ensure GNSS services are more robust.”

-- 18th meeting of the International Committee on GNSS (2024)

1st Joint Development Plan for Global Geodesy

- Available in 6 UN languages now
<https://ggim.un.org/UNGGCE>
- **Action plan** (linked with a strategy) to address weaknesses in the global geodesy supply chain
 1. Avoid further degradation of the supply chain (support current operational requirements)
 2. Robust (improve reliability)
 3. Next Generation (meet more ambitious requirements)
- Includes activities for UN-GGCE, Member States and partners

1st Joint Development Plan for Global Geodesy



Version 1.0



