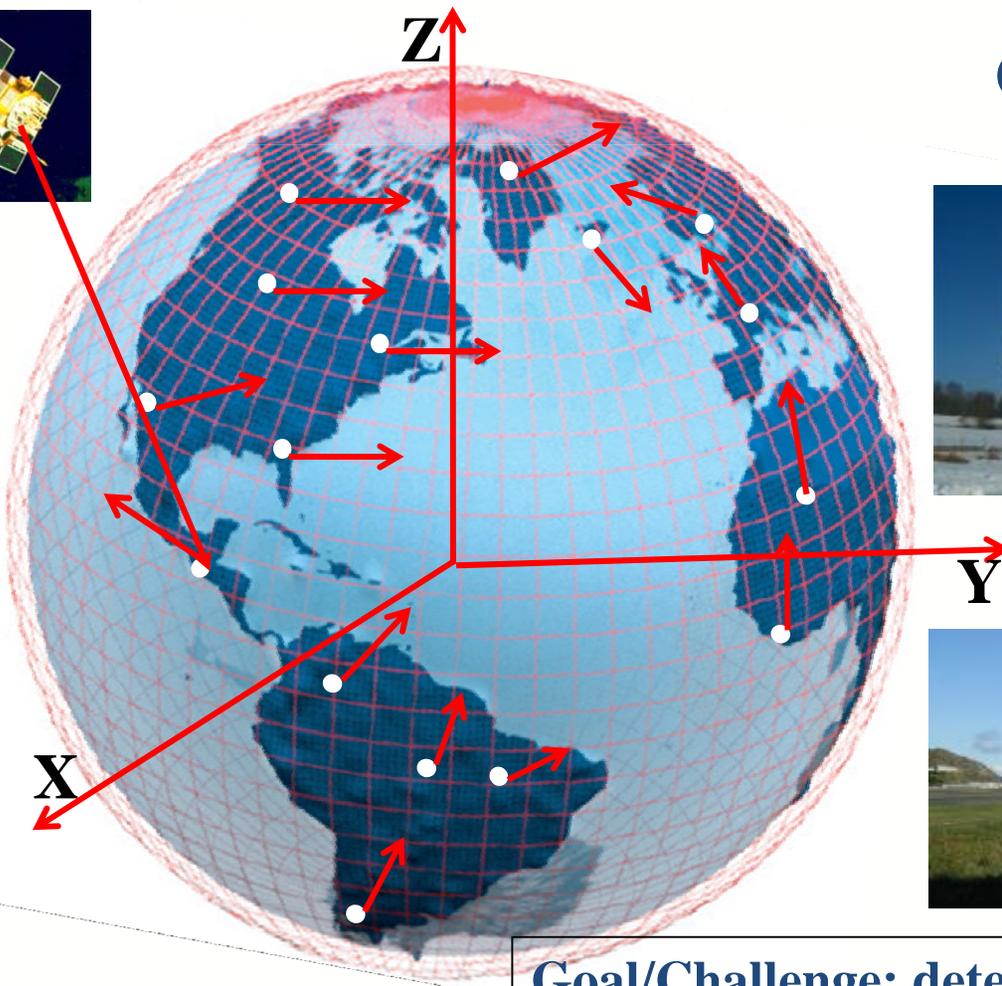


The Global Geodetic Reference Frame

Observing instruments



Goal/Challenge: determine locations & deformations with an improved precision, Everywhere & Anytime on Earth, to satisfy societal and science requirements



UN-GGIM

United Nations Initiative on
Global Geospatial Information Management

Positioning geospatial information to address global challenges

ggim.un.org

UN resolution - Global Geodetic Reference frame

- UN-GGIM recognises the growing demand for more precise positioning services, the economic importance of a global geodetic reference frame and the need to improve the global cooperation within geodesy
- The UN-GGIM decided at its 3rd session in July 2013 to formulate and facilitate a resolution for a global geodetic reference frame (GGRF)
- The Working Group on the GGRF was created in January 2014
- Draft Terms of Reference, Resolution and Concept note have been developed and submitted at WG report
- UN-GGIM now has the opportunity to progress the resolution to the next level



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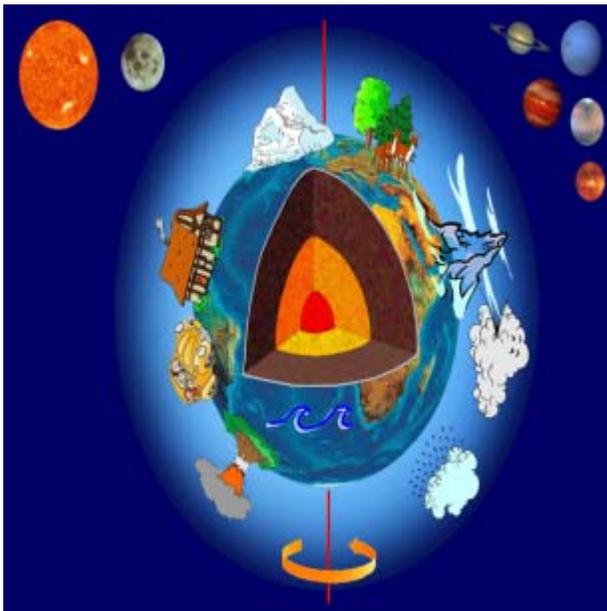
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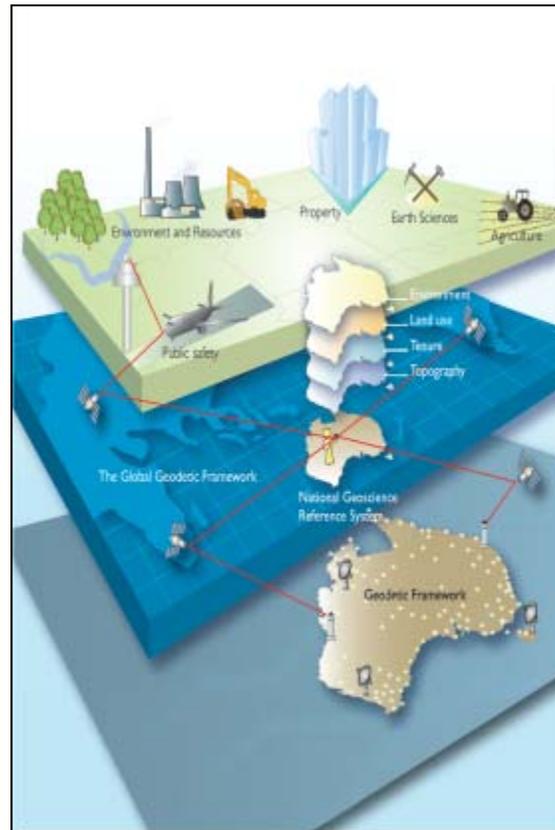
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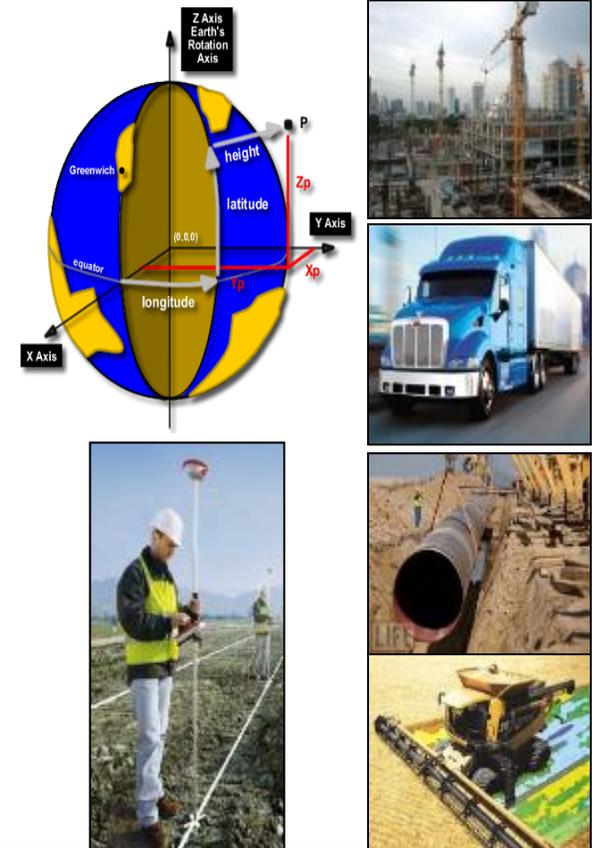
Earth System Science



Location Information



Societal Applications



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Why is it important ?

- Enables a better understanding of the world we live in
- Facilitates better decision making
- Enables much more sustainable management and development of earth resources
- Allows for safer air, land and sea navigation
- Enables spatial data interoperability
- Creates efficiencies in many industries and societal endeavours



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Questionnaire (100+ responses)

- 88% of responses indicated that the data, products and services of the international global geodetic community (e.g. ITRF, IGS orbits,...) were either critical or had high importance in their country
- Only 61% of responding countries are willing/able to freely share GNSS data to the global community



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Resolution: Global cooperation

- Develop a global geodetic roadmap for the GGRF
- Global cooperation in providing technical assistance in geodesy for those countries in need to ensure the development, sustainability and advancement of a GGRF
- Implement open geodetic data sharing
- Improve and maintain national geodetic infrastructure
- Enhanced multilateral cooperation that addresses infrastructure gaps and duplications globally
- Improved Outreach to make the GGRF more visible and understandable to society



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Recommendations

- Note the efforts of the working group and endorse the Terms Of Reference
- Endorse the intent of the draft resolution and concept note
- Encourage the working group, with assistance from the secretariat, to progress the resolution to ECOSOC and the GA
- Encourage members to seek mission support for the progression through ECOSOC to the GA



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