

UN-GGIM-AP WG1- Geodetic Reference Frame

Legal and Policy Issues impacting geospatial data sharing and dissemination

Nuku'alofa, Tonga, 2018



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Global Geospatial Information Management

"Positioning geospatial information to address global challenges"

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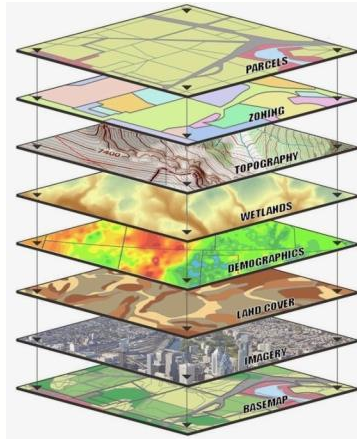


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Positioning Infrastructure

- To confidently integrate different datasets that are measured with different techniques and collected at different times
- Measure once, use multiple times



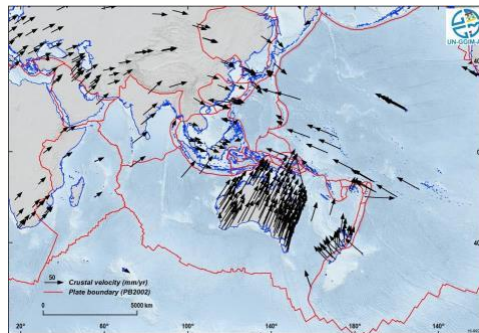
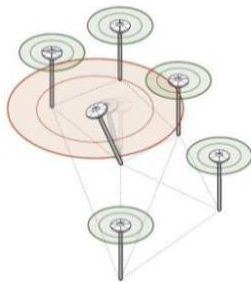
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Geodetic Data



- GNSS, gravity, levelling



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UN-GGIM-AP Working Group 1 - Focus

UN-GGIM Geodesy

Regional Height
System Unification

Regional
Reference Frame
(APREF, APRGP)



Regional Capacity
Building



Challenges: Sharing Data

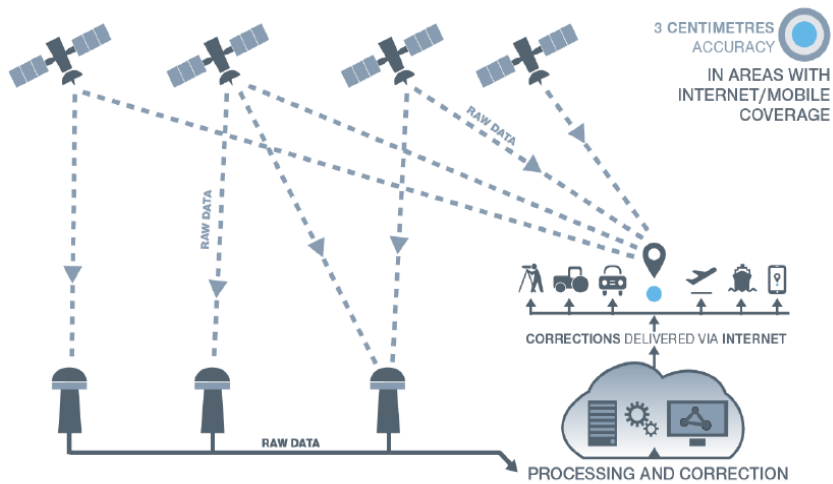
- Joint FIG / UN-GGIM-AP / JUPEM Geospatial and GNSS CORS Infrastructure and Systems Forum, Kuala Lumpur – Malaysia, October 2016
- 150 delegates from 21 different countries



- Discussion session on challenges and priorities in regards to sharing of GNSS and geodetic data



GNSS Data as an Example



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Challenges: Sharing Real-time GNSS Data

- Kuala Lumpur Forum (2016) Findings
 - Most countries have, or are developing, national GNSS CORS infrastructure to support national programs
 - Data sharing continues to be non-optimum and this is acknowledged by government agencies



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Challenges: Sharing Real-time GNSS Data

- Kuala Lumpur Forum (2016) Findings
 - Cost recovery models of GNSS network operation are common in the Asia-Pacific
 - Commercial revenues used for network maintenance
 - Concerns that open access will compromise revenue



Challenges: Sharing Real-time GNSS Data

- Kuala Lumpur Forum (2016) Findings
 - The absence of data licencing template agreements
 - IGS open data model for sharing is not always appropriate
 - Concerns that data sharing will contravene national legislation (e.g. national security)
 - Absence of policy also impedes sharing



Challenges: Sharing Real-time GNSS Data

- Kuala Lumpur Forum (2016) Findings
 - Lack of human technical capability limits
 - Unable to support requirements of international users and for public safety services



Challenges: Sharing Real-time GNSS Data

- Kuala Lumpur Forum (2016) Findings
 - Lack of technical resourcing
 - Site communications
 - Agencies reluctant to commit to international programs if national resourcing not guaranteed
 - Risks of becoming involved in public safety services (i.e. reality of infrastructure doesn't meet expectations)



Challenges: Sharing Real-time GNSS Data

- Kuala Lumpur Forum (2016) Findings
 - Lack of advocacy skills in individual countries i.e. they can't sell importance of data sharing with their decision makers

