NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

Know the Earth... Show the Way... Understand the World

Multinational Geospatial Co-Production Program (MGCP)

Marzio Dellagnello, SLMR
NGA Campus East
JACIE Conference, April 17-19, 2012

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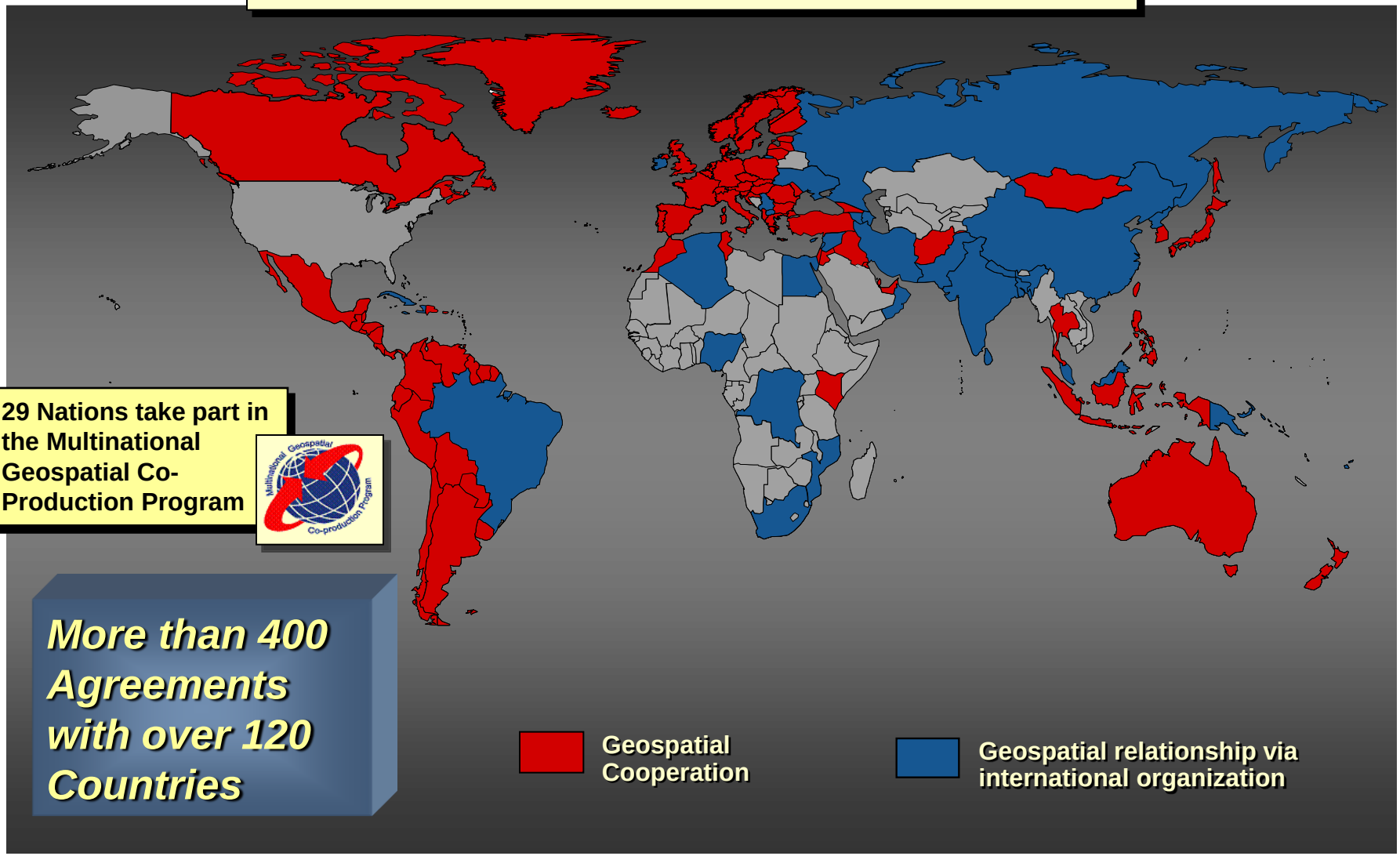
Global Partnerships



29 Nations take part in the Multinational Geospatial Co-Production Program

More than 400 Agreements with over 120 Countries

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Need to sign MOU

MGCP World

New Members

29 Member Coalition

Builds Unified Global Production Plan

Produces 25% of "available" global coverage

Promotes non-sovereign production

Flexible program to accommodate national priorities

Standard interoperable dataset by 2012

Haiti crisis support

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MGCP Partnership

- NGA has Bilateral Exchange and Cooperative Agreements (BECA) with all MGCP members
  - Requirement for NGA to share LIMDIS data
- MGCP Commercial Remote Sensing (CRS) collection strategy integrated through US requirements
- Transparency of production programs
  - Knowledge of Partners production enables rapid sharing and goodwill
  - Relationship of trust and collaboration

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Innovative Approach

- Participants decided on AOR
  - Honor national priorities
- Return on Investment Scale
  - Higher contribution means greater return
- Technical Documentation involvement
  - All contributed to developing standards
- Data Quality Plan
  - Lead nations QA all data
- Certification Requirements
  - Ortho-rectification benchmarking
  - Vector extraction benchmarking

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MGCP Data

- Production unit: 1 degree by 1 degree cell
- Data derived from high resolution commercial imagery
- Horizontal Accuracy: 25 meters
- Format: 2D shapefiles
- Density/Portrayal: 1:50K or 1:100K or both
- Specification: supports 95% of Topographic Line Map specification, standard NATO mapping
- Platform: No specific software requirement, as long as data is compliant to the TRD (Technical Reference Documentation)

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Data Availability

- Streamlined release among MGCP members
- Unclassified but not for Public Release
  - Controlled Unclassified Information (CUI)
    - Limited Distribution
    - Restricted
- Each producing nation decides who can have access to their own data
  - Haiti cell available for public release (Canada)

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January 2010 Haiti Earthquake MGCP Support

-Canada contributed 50K density MGCP Feature Data

-This data was used by NGA to produce the Haiti Multi-Purpose Atlas

-Data supported SOUTHCOM Humanitarian Relief Efforts

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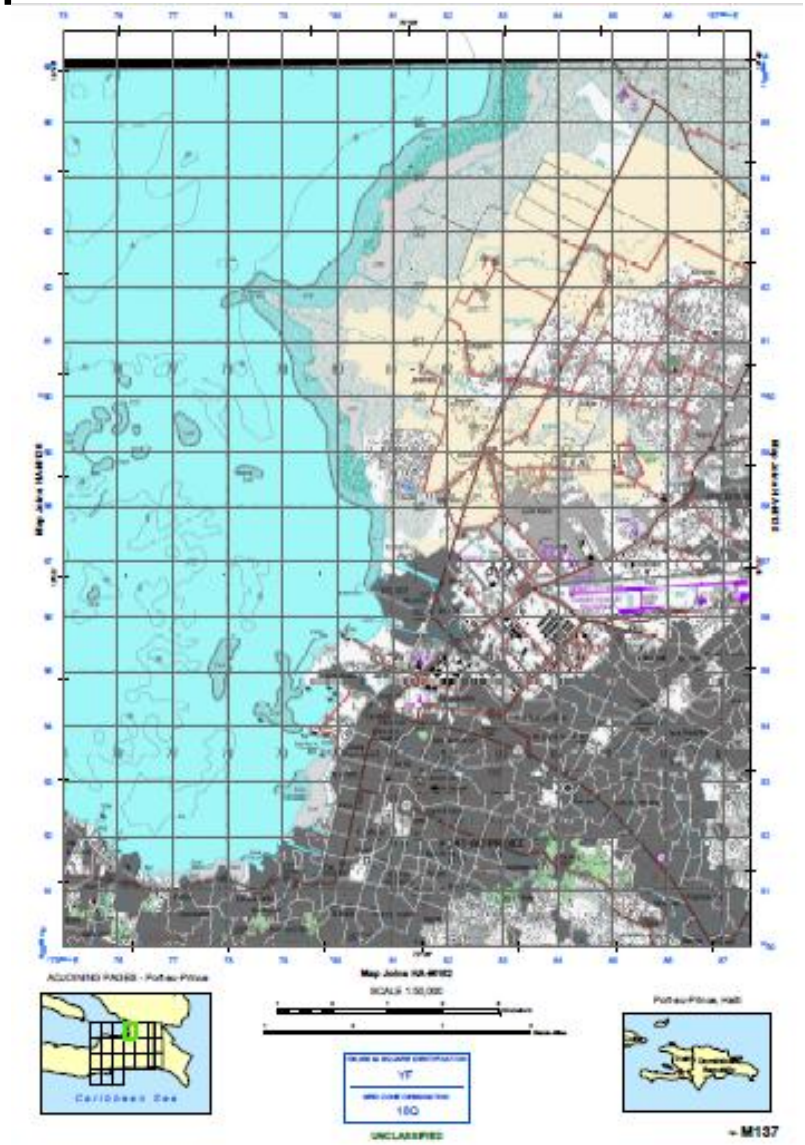
Haiti Earthquake Atlas – Port au Prince Map



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Take-Aways

- **Force Multiplier for all Participants**
  - **Impossible to go alone**
- **Unified global production plan**
  - **Minimize duplication**
- **Standardization**
  - **Development of reusable and repeatable applications**
  - **Output standard products**
- **Way Forward**
  - **Continue to improve data standards beyond 2012**
- **TRD production available to anyone**

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