



NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
Know the Earth... Show the Way... Understand the World

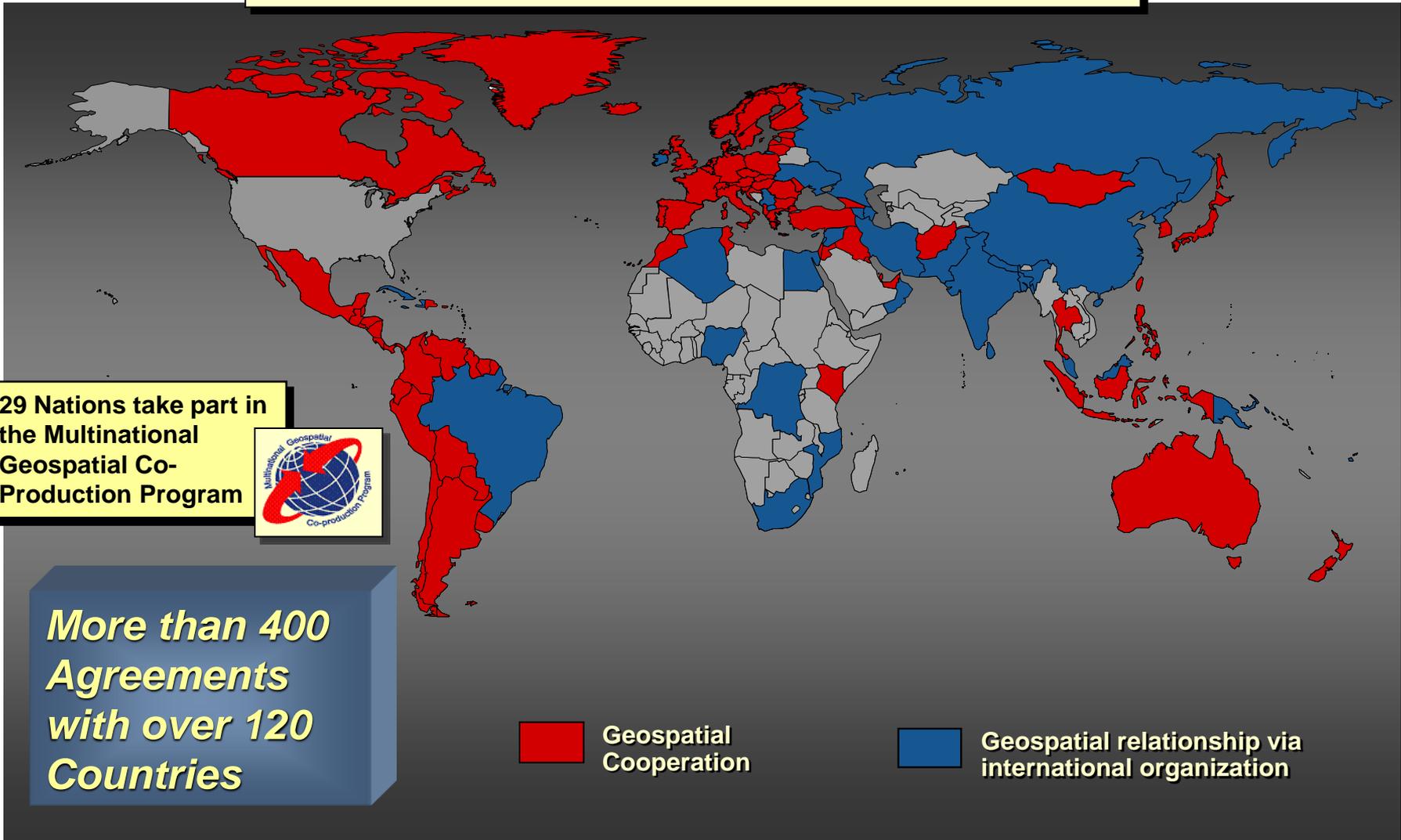
Multinational Geospatial Co-Production Program (MGCP)

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





Global Partnerships





MGCP World



29 Member Coalition



Builds Unified Global Production Plan

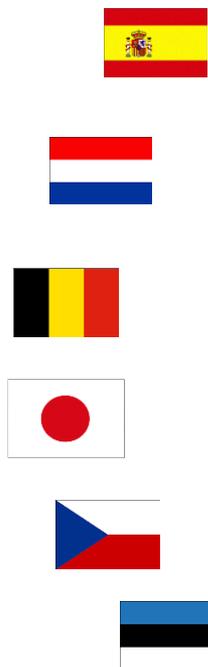
Produces 25% of "available" global coverage

Promotes non-sovereign production

Flexible program to accommodate national priorities

Standard interoperable dataset by 2012

Haiti crisis support





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



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



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)



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)



January 2010 Haiti Earthquake MGCP Support

-Canada contributed 50K
density MGCP Feature Data

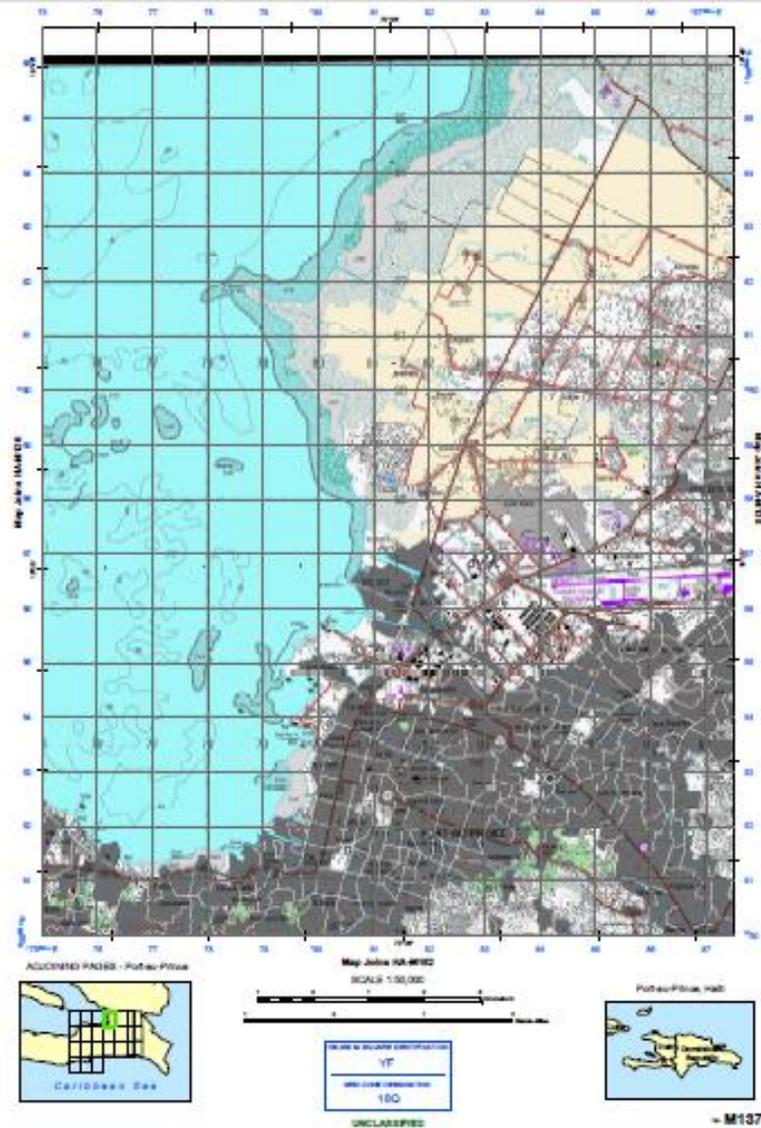
-This data was used by NGA to
produce the Haiti Multi-Purpose
Atlas

-Data supported SOUTHCOM
Humanitarian Relief Efforts





Haiti Earthquake Atlas – Port au Prince Map





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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