



***Development of Global Map for  
GEOSS SBAs  
US-09-03a***

UIC 14<sup>th</sup> Meeting, Reading

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## **Mission of US-09-03a**

- 1. Align the Global Map Specifications with requirement from SBAs (Disaster, Health, Agriculture, Biodiversity and Water)**
- 2. Foster the use of Global Map in SBAs**

### Global Map

- Full and consistent coverage of land on the Earth
- 1 km resolution
- Raster layers: vegetation, land-cover, land-use and elevation
- Vector layers: transportation, drainage systems, boundaries and population centers



# *History of Specifications*

- Version 1 Spec.
  - Adopted in 1998 at the beginning of production
  - Raster layers spec. were revised in 2006
- Issues raised on Vector layers
  - Users' needs were not collected
  - Difficulties on development by National Mapping Organizations (NMOs)
  - Outdated format (VPF)
- Version 2 Spec. (New)
  - was adopted by ISCGM in October 2009
  - Global Map will be revised by National Mapping Organizations by 2012
  - Technology transfer for the production is needed



## *Process of Drafting of Specifications*

- Preliminary Study 1 (May 2007)
  - Questionnaire to Global Map Users and NMOs
  - Tiling, Gap of data density, Formats ...
- Preliminary Study 2 (Apr. 2008)
  - New features, attributes and their codes
- Questionnaires to NMOs
  - Three times of Circulation (Jan.-Feb. 2009), (Mar.-Apr. 2009) and (Jun.-Jul. 2009)
- Workshop for Revision of Global Map Specifications in Tsukuba (8-10, Sep. 2009)



# *Workshop for Revision of Global Map Specifications*

- Open-Forum (8, Sep. 2009)
  - Experts on Environment and Disasters
  - NMOs
- Revision of Specifications (9-10, Sep. 2009)
  - Data Dictionary and Formats



**Open Forum**



**Drafting Specifications**



# *Outline of New Specifications*

## ✚ Vector

### ▣ Data Dictionary

- To include port and train station as a new feature
- To eliminate all text features
- To include population value and year of population census in political boundary features
- To change data tiling

### ▣ Format

- GML 3.2.1

## ✚ Raster

### ▣ Same as Version 1

## ✚ Available at ISCGM web page

<http://www.iscgm.org/>



## *Foster the Use of Global Map in GEOSS*

Presentations in GEOSS meetings



GEOSS Asia Pacific Symposium Feb. 2009 Kyoto



13<sup>th</sup> UIC Meeting Nov. 2009 Washington