

**The US Federal Geographic Data**  
**Committee (FGDC)**  
**ISO TC211 19115**  
**Harmonization Activities**

***“Moving From a National Metadata  
Standard to an International Standard”***

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**ISO TC211 Standards in Action  
Workshop**

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# US Presidential Executive Order 12906

**Coordinating Geographic Data Acquisition and Access: The National Spatial Data Infrastructure” (NSDI) April 1994**

## **(b) Standardized Documentation of Data.**

**..., each agency shall document all new geospatial data it collects or produces, either directly or indirectly, using the standard under development by the FGDC, and make that standardized documentation electronically accessible to the Clearinghouse network**

# History of the FGDC Metadata Standard

## □ **April 1994 – Version 1**

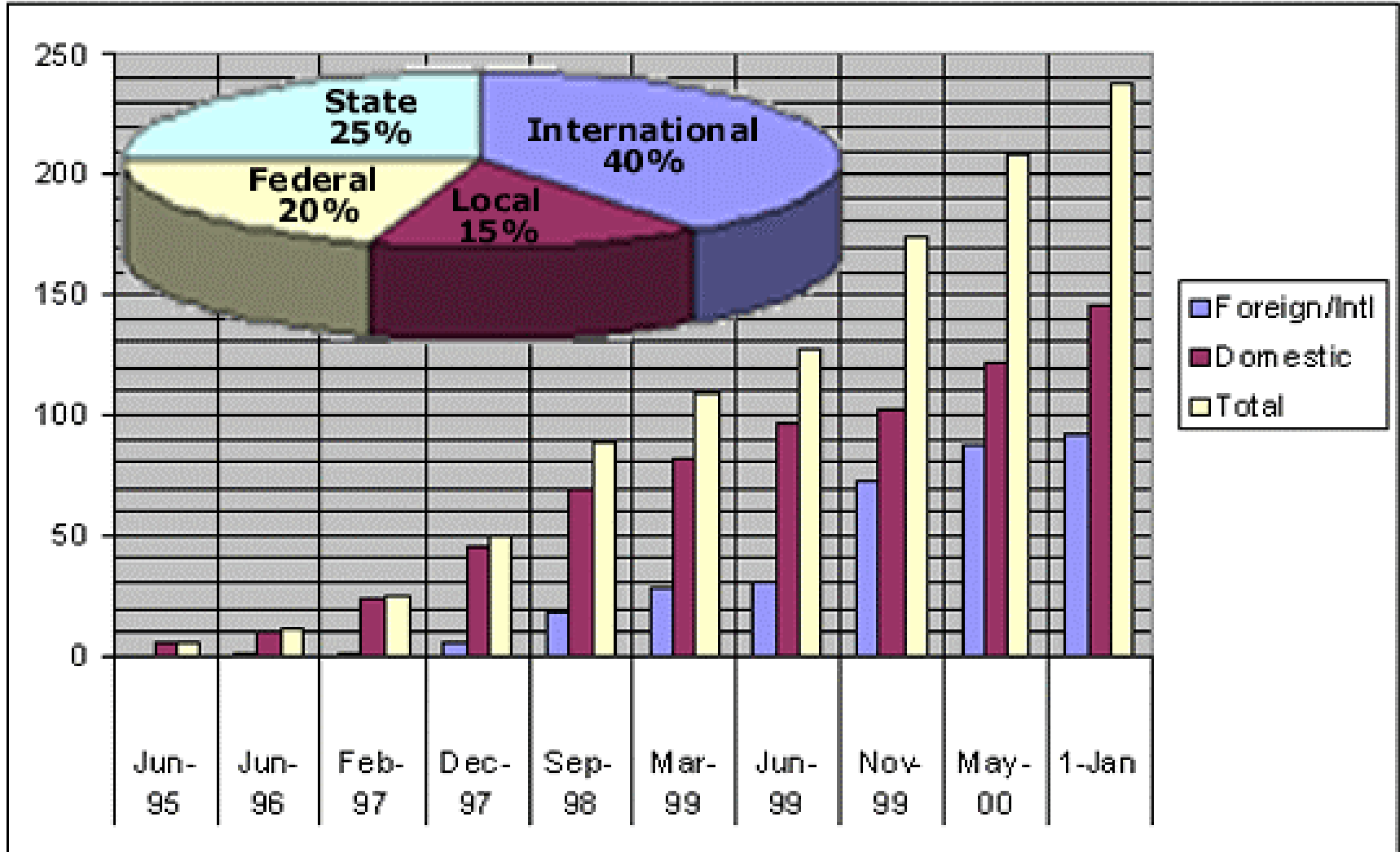
- **Provided a basic framework for metadata**
- **Significant “shareware” metadata tool development**
- **Provided to ISO TC211**

## □ **June 1998 – Version 2**

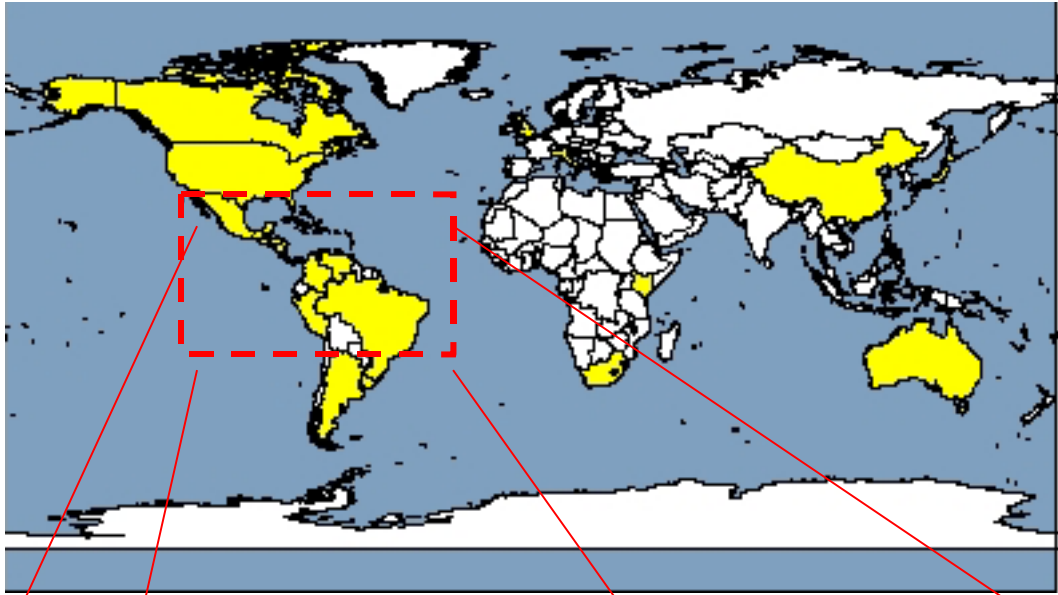
- **Incorporated Version 1 “lessons learned”**
- **Incorporated concept of Profiles**
  - **1 endorsed profile, 2 under development**
- **Incorporated concept of Extensions**
- **Provided “tags/short names”**

# SDI Clearinghouse Growth 2001

Jan 2001 : 238 Clearinghouse Nodes



# Clearinghouse Nodes Around the World



As of Jan 2001

Argentina:	1
Australia:	18
Barbados:	2
Brazil:	2
Canada:	41
Chile:	1
China:	1
Colombia:	1
Costa Rica:	3
Dominica:	1
Dominican Republic:	1
El Salvador:	1
Guatemala:	1
Honduras:	2
Italy:	2
Japan:	1
Jamaica:	1
Mexico:	2
Nicaragua:	1
Peru:	1
South Africa:	2
Trinidad & Tobago:	1
United Kingdom:	2
United States:	146
Uruguay:	2
Venezuela:	1

# How Does FGDC Participate in ISO TC211?

- **Via EO12906, FGDC given responsibility for NSDI Standards Development**
- **FGDC member of American National Standards Institute GIS Subgroup**
- **ANSI member of ISO TC211**

# Why worry the ISO Metadata Standard?

- **Office of Management & Budget  
Circular A-119**
  - **Directs preference in use of International  
Standards**
  
- **Global environment - Global Spatial  
Data Infrastructure**
  
- **NAFTA and WTO**

# FGDC Preliminary Plans for the ISO Metadata Standard?

- **Adopt the ISO Metadata Standard as Profile(s)**
  - **US/FGDC “Profile” development Spring 2001 using ISO Draft International Metadata Standard**
    - **1 – Legacy Metadata, 2- New Metadata**
  - **Provide tools to migrate FGDC Metadata Records to be ISO Compliant**
  - **Develop Education/Training materials**
  - **Summer/Fall 2001 – Have Profile, Software, and Training ready**
  
- **Will replace CSDGM Version 2**



# ISO Metadata & FGDC CSDGM V2

- **ISO/FGDC Metadata Standard Differences**
  - **ISO more elements than FGDC**
    - **Many more “Optional” elements**
    - **Addresses many known deficiencies in FGDC**
  - **Differences in presentation (UML vs Yourdon) and encoding (XML vs SGML)**
  - **Differences in Terminology, Element Name, and Obligation**
- **FGDC Metadata Records are not “yet” ISO compliant**

# FGDC Registered Reviews

## *“Gaining US Support for 19115”*

- **CD1 July – August 1998**
  - **250 Respondents, 500 Comments**
  
- **CD2 December 1999 - January 2000**
  - **150 respondents, 700+ Comments**
  
- **CD3 June - August 2000**
  - **125 respondents, 400 Comments**
  
- **Comment adjudication**
  - **Multi-organizational, multi-disciplinary panel**

# FGDC Cooperative Agreement Program

## ➤ 2000

- ❑ **Category 1 – Don't Duck Metadata**
- ❑ **Category 2 – FGDC/ISO Metadata Record Conversion Software**  
Investigating XSLT (XML-to-XML)
- ❑ **Category 3 – ISO Metadata Training material development**

## ➤ 2001

- ❑ **Category 1 – Metadata Collection**
- ❑ **Category 2 – Metadata Training Program**