SDI Cookbook

Guidelines for the creation of Spatial Data Infrastructures

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Cookbook Objectives

- Define a reference environment for building compatible spatial data infrastructures for use by all communities
- Promote best practices, technologies, and guidance for their implementation in a changing Internet environment with low-cost reference implementations, wherever possible
- Create an online resource and information web for dissemination
Cookbook Design Concept

Through hyperlinks the user will be able to traverse the Cookbook at different levels of detail and link to external information resources.

Chapter Review

- Each chapter has a lead individual to build content with others
- Where possible have progression of context, through abstract model, to implementation
- Conclude with Recommendations
- Include hyperlinks and external references
- Have published hypertext and PDF form of Version 1 (now 1.1)
### Chapter One: Introduction

- Cookbook design
- Concepts of SDI with GSDI
- Introduction to all chapters
- Contributions from chapter leads

### Chapter Two: Data

- Recommendations on building common-use data layers
- Description of GlobalMap approach
- Description of national Framework approaches
- *Leads: Claude Luzet, Hiroshi Murakami*
Chapter Three: Metadata

- Metadata Principles
- Levels of Metadata
- Standards: Move towards ISO 19115
- Implementation considerations
- Lead: Mark Taylor, NGDF, UK

Chapter Four: Catalogue

- Catalogue Concepts
- Actors in collection and publishing
- Distributed service designs
- Standards: OGC, ISO 23950, and XML
- Reference Implementations
- Lead: Doug Nebert, FGDC
Chapter Five: Online Mapping

- Web Mapping Discussion
- Mapping Scenarios
- Standards: OpenGIS WMS 1.0
- Leads: Frank Lochter, GFZ Potsdam, Steve Blake, Australia

Chapter Six: Data Access and Delivery

- Organisational issues of data sharing
- Architectures
- Standards: OpenGIS SFA, WFS, WCS
- GeoGratis overview
- Lead: Brian McLeod, Canada
Chapter Seven: Other Services

- Additional related services are to be described here, e.g. coordinate transform
- Standards: OpenGIS Services (WFS, CTS, WCS, SLD, Context)
- Lead: Nadine Alameh, GST

Chapter Eight: Outreach and Capacity Building

- Building SDIs
- Obstacles to effective SDI development
- Examples of collaboration
- Share best practices, funding ideas
- Lead: Uta When de Montalvo, UK
Chapter Nine: Case Studies

- Local: Baltimore, USA
- National: Colombia
- Regional: Southern African development Community (SADC)
- Global: Digital Earth
- Contributors: Mark Reichardt FGDC, Santiago Borrero, SADC Team, DE Project

Chapter Ten: Terminology

- Approach to standardizing terminology within an SDI is presented.
- Section on terminology, acronyms, and definitions from all chapters
- Coordinated with ISO TC 211 terms
- Lead: Andrew Jones, South Australia
We need your help!

◆ Subscribing to global approaches permits savings over developing and maintaining local ones
◆ Construction of the Cookbook has been slow but steady – led by a small number of volunteer individuals
◆ Continuation of TWG efforts will rely on donations of your time and thought

Douglas Nebert
GSDI Technical Working Group
http://www.gsdi.org/twg/index.html

U.S. Federal Geographic Data Committee
http://www.fgdc.gov