

Introducing the International Coastal Atlas Network



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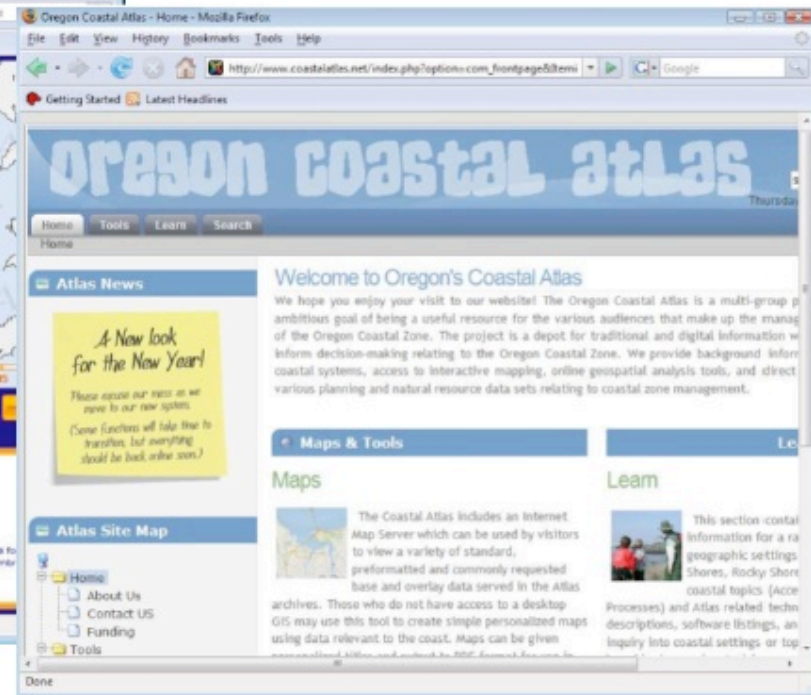
Scripps and San Diego Supercomputing Ctr.



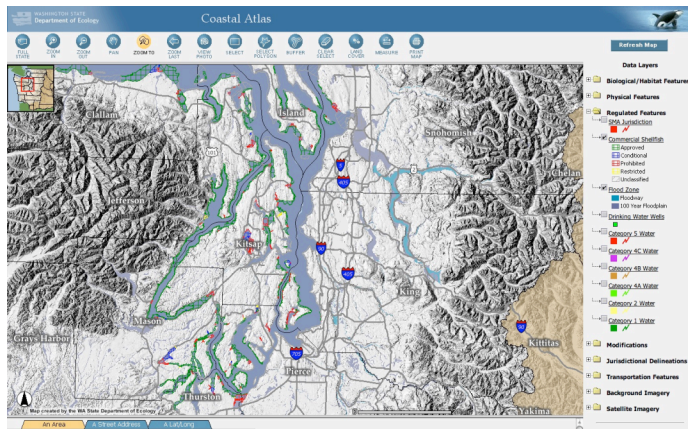
Emergence of “Coastal Web Atlases”

Marine Irish Digital Atlas, mida.ucc.ie

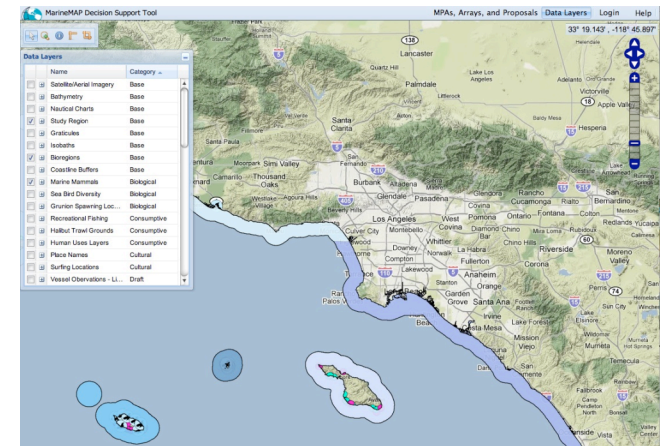
Oregon Coastal Atlas,
www.coastalatlases.net



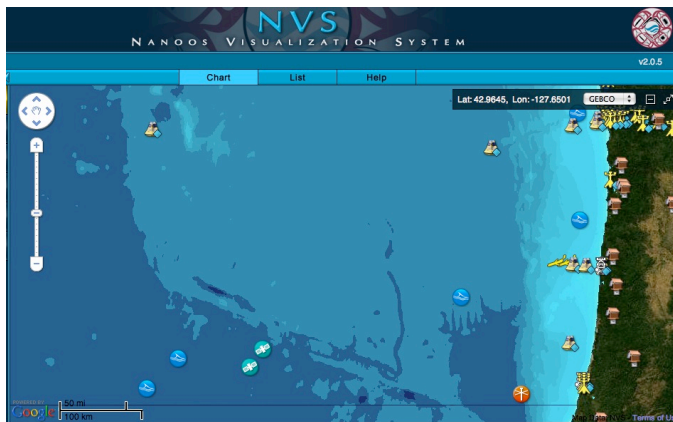
- *Rich Local Information*
- *Web User Interface*
- *Web Services*



Washington Coastal Atlas, USA



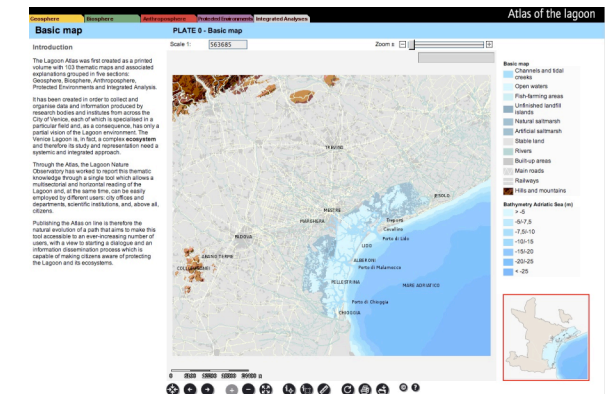
MarineMap, USA



NANOOS Visualization System, USA



De Kustatlas, Belgium

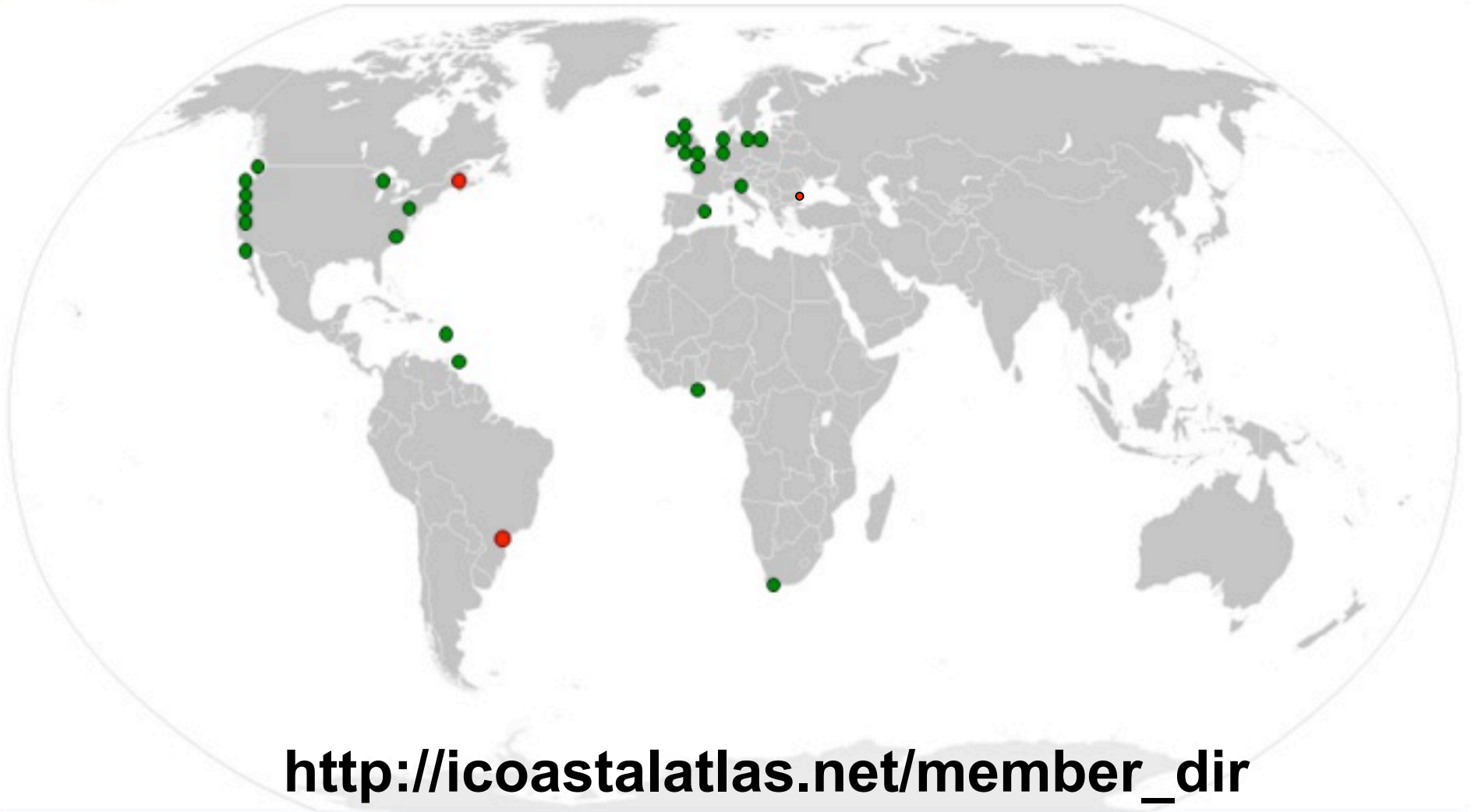


Atlas of the Lagoon, Venice, Italy

And many MORE ...



Current Membership: 30+ organizations
from 14 nations and growing...



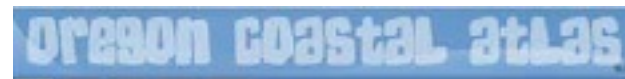
http://icoastalatlant.net/member_dir



North American Members thus far



Alaska Coastal Mgmt



NOAA Legislative



UNIAMTOS





ICAN's Community of Practice

- Share experiences and find common solutions to coastal web atlas development
 - **Knowledge portal:** Guides, cookbooks, “engines,” discussion boards, code snippets, use cases...
- Regionally, nationally, globally integrate and interoperate among locally-maintained atlases
- Inform regional decision- and policy-making across several themes:
 - **Coastal and Marine Spatial Planning**
 - Climate change - coastal vulnerability
 - Coastal governance (boundaries, protected areas, etc.)
 - Coastal hazards
 - Population pressures
 - Resource availability and exploitation



ICAN Products

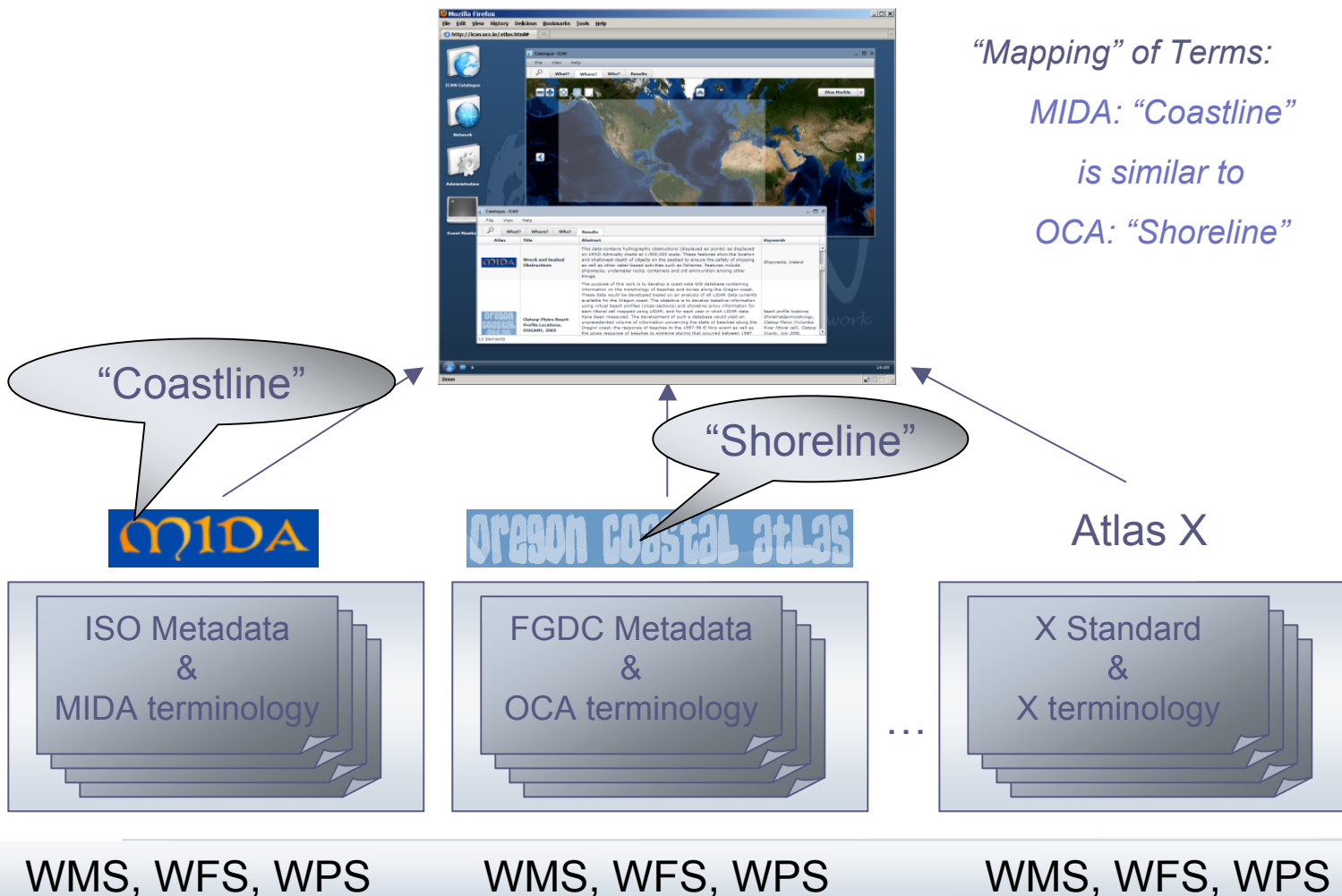
Various Action Themes

- Awareness Raising
- Outreach and Training
- Documentation
- Assessment
- Technical (inc. EBM Tools)
- Governance
- Funding (for ICAN working groups)



Interoperability Prototype

ICAN focuses 1st on *metadata* interoperability



icoastalatlasc.net



- Home
- About ICAN
 - People
 - Partners
 - Benefits
 - Participate
- Members
- Events
- Working Groups
 - Technical
 - Strategic Planning
 - Governance
 - Atlas Assessment
- ICAN Prototype
- Discussion Room
- Expertise Directory
- Atlas Directory
- Resource Directory
 - Related Links
 - Software, Services
 - Documentation, Tutorials, Cookbooks
 - ICAN Publications
 - Acronyms
- ICAN FAQ
- Site Map



Promoting web atlases around the world for coastal conservation, management, and governance... » **Find out more.**

The International Coastal Atlas Network (ICAN)

Submitted by dawn on 16 November 2008 - 12:12am.

ICAN is a newly-founded, informal group of organizations who have been meeting over the past two years to scope and implement data interoperability approaches to coastal web atlases (CWAs). The **mission/strategic aim** of ICAN is to share experiences and to find common solutions to CWA development (e.g., user and developer guides, handbooks and articles on best practices, information on standards and web services, expertise and technical support directories, education, outreach, and funding opportunities, etc.), while ensuring maximum relevance and added value for the end users. The long-term view is for global-level operational interoperability which will evolve as the ICAN community strives to increase awareness of the opportunities that exist for increased coastal and marine data sharing among policy makers and resource managers as strategic users of a CWA. ICAN participants seek to play a leadership role in forging international collaborations of value to the participating nations, thereby optimizing regional governance in coastal zone management.

[Read more](#)

West Coast
**Coastal Atlas
Workshop**
APRIL 23-24, 2009 SEATTLE, WA

PROCEEDINGS OF THE
WEST COAST COASTAL ATLAS WORKSHOP



Alaska
British Columbia
Washington
Oregon
California

Regional Coastal Atlas Workshops:

Digital Coast Communities of Practice in action!



West Coast Coastal Atlas Workshop April 23-24, 2009 Seattle, WA
USA



New Handbook, published 2010

PREMIER REFERENCE SOURCE

COASTAL INFORMATICS

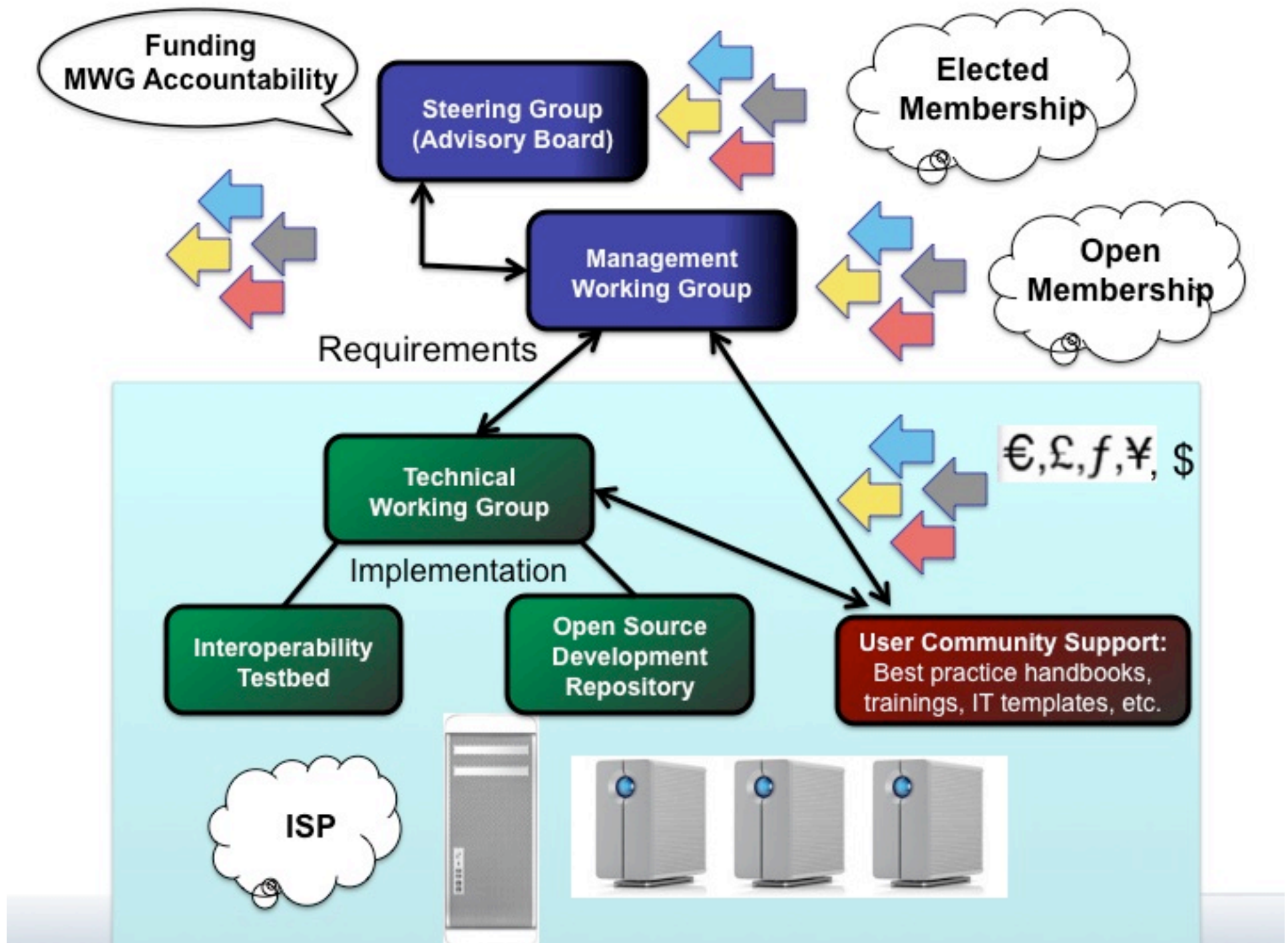
Web Atlas Design and Implementation



DAVIN WRIGHT, NED DWYER & VALERIE CUMMINS



icoastalatlas.net/handbook





National Ocean Council

“The ocean, our coasts, and the Great Lakes provide jobs, food, energy resources, ecological services, recreation, and tourism opportunities, and play critical roles in our Nation’s transportation, economy, and trade, as well as the global mobility of our Armed Forces and the maintenance of international peace and security.”

– President Barack Obama





The Science of CMSP

- NCEAS Top Priorities for Science, Policy, Practice of CMSP
 - December 2010
 - Summary at <http://bit.ly/gDU1Ys>
- CMSP Discovery Vocabularies Workshop
 - Also in December 2010
 - Joint WHOI/USGS/NOAA
 - Proceedings at <http://bit.ly/gPe51z>
- NRC Ocean Studies Board meeting next week
 - CMSP subcommittee
 - Possible NRC workshop and/or full study



ICAN Workshop 5

Coastal Atlases as Engines of CMSP

UNESCO IOC IODE Headquarters

Oostende, Belgium

31 Aug – 2 Sept 2011

in advance of CoastGIS 2011

**Future US/Canada ICAN events at
GeoTools, CoastalZone, ESRI UC,
more...**



Strategic Directions

- Governance activities
- Committee structures
- Pathways towards *sustainable* funding model
- Technical project development
- Awareness raising and publicity
- Outreach and training activities
- Documentation of resources, **tools**, expertise
- Further development of ICAN portal



For More Information...

icoastalatlasc.net

or

ican.science.oregonstate.edu

ICAN Interoperability Prototype

– **ican.ucc.ie**





Acknowledgments



U.S. National Science Foundation



Irish National Development Plan



Marine Institute (Ireland), Marine RTDI
Networking & Technology Transfer Initiative
European Environment Agency



Davey Jones' Locker
Seafloor Mapping/Marine & Coastal GIS



UCC
University College Cork



NSF OCE-0607372 (MMI)



Oregon Coastal Mgmt Program