Platform Functionality Requirements

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Functional Requirements

What characteristics will make the CMA2 a successful coastal/marine web atlas? *(CWA)*
Are we discussing the functionality of:

- The new CMA2 alone?
- National contributors to the CMA2?
- Regional partner contributions?
Functionality for Whom?

Are we discussing the functionality for:
• General Public? Local organizations?
• Agency staff within National ICZM partners?
• Regional CLME+, SAP monitors? UNEP? IODE?
Defining and Fulfilling Atlas Goals

Who is the Atlas built to serve?
What do those users need from the Atlas?
Audience Considerations

• General Public
• Local organizations
• Agency staff of national partners
• Regional partners, monitors
• UNEP, IODE

Size of Audience

If you have more than one audience, you may need to build more than one tool or way to look at your data. Sometimes simple tools have wide appeal, while complex, expensive tools have narrow appeal. Consider this balance when determining what functions you choose to include in your atlas.
How to make CMA2 meaningful?

- Better national engagement in CMA2 (participation)
- Better sustainability of the platform (relevance)
- Better approach to data sharing (contributions)
What is a Coastal Web Atlas?

“A collection of digital maps and datasets with supplementary tables, illustrations, and information that systematically illustrate the coast, oftentimes with cartographic and decision support tools, all of which are accessible via the Internet.”

(O’Dea et al., 2007)
Guidelines for Developers

- Principles of atlas design
- Case Studies around the world
- CWA Management and Governance issues
Atlas Inspiration

ICAN Membership Directory
Submitted by dawn on 21 August 2014 - 7:00am

Atlases below have agreed to ICAN’s Statement of Support/Intent to Collaborate

<table>
<thead>
<tr>
<th>Atlas/Organization Name</th>
<th>Atlas Logo/Link</th>
<th>Contact Person</th>
<th>Summary Document</th>
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<tbody>
<tr>
<td>African Marine Atlas</td>
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<td>Mika Odido, <a href="mailto:m.odido@unesco.org">m.odido@unesco.org</a></td>
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<td>African Marine Info. Sys., European</td>
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<td>Nicolas Hoepffner, nicolas.hoepffner@</td>
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<td>Agulhas and Somaili</td>
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<td>Lucy Scott, <a href="mailto:lucy.scott@asclme.org">lucy.scott@asclme.org</a></td>
<td>AMA ASCLME Overview</td>
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<td>Alaska Coastal Atlas, Alaska Coastal Mgmt</td>
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<td>Joanne Schmidt, <a href="mailto:joanne.schmidt@alaska.gov">joanne.schmidt@alaska.gov</a></td>
<td>Atlas Under Construction</td>
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<td>Alaska Shorezone, USA</td>
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<td>Steve Lewis, <a href="mailto:Steve.Lewis@noaa.gov">Steve.Lewis@noaa.gov</a></td>
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<td>Alessandro Mulazzani, <a href="mailto:alessandro.mulazzani@gmail.com">alessandro.mulazzani@gmail.com</a></td>
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<td>Belgian Coastal Atlas (De Kustatlasis)</td>
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<td>Kathy Belpaeme, <a href="mailto:kathy.belpaeme@kustbeheer.be">kathy.belpaeme@kustbeheer.be</a></td>
<td>Overview</td>
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Site Map
Aspects of CWA Functionality

Primary Atlas components
Maps engine, Thematic data, Place gazetteers, Data services, Documentation

Front-end User Interface
Interactive Map, Cartography, UI, Navigation, Table of Contents, Information access (static or dynamic)

Back-end Technical features
Data & Service management, Analysis support, Interoperability, Performance, caching

Atlas supporting features
Narrative text, Photos, Featured stories
Atlas Components

Minimal Atlas components

Maps engine, Thematic data, Place gazetteers, Data services, Documentation

Maps engine  Thematic data  Place gazetteers  Documentation
Front End

Interactive Map, Cartography, Navigation, Table of Contents, Information access, linked data

Oregon Coastal Atlas
Front End

Interactive Map, Cartography, Navigation, Table of Contents, Information access, linked data

Gulf of Mexico Atlas
Front End

Interactive Map, Cartography, Navigation, Table of Contents, Information access, linked data

Washington Coastal Atlas
Interactive Map, Cartography, Navigation, Table of Contents, Information access, linked data
Front End

Interactive Map, Cartography, Navigation, Table of Contents, Information access, linked data

Gulf of Mexico Atlas 1, MIDA 2, DesignDeck.co.uk 3
Back End

Data & Service management, Analysis support, Interoperability, Performance, caching

Inputs  Processing/Serving  Outputs

Maps  Data  Reports
Supporting Features

Narrative text, Photos, Featured stories, custom or standardized reports

Inclusion of supporting features often requires addition of a Content Management System

Washington Coastal Atlas 1, NOAA ENOW 2
Meeting Functional Needs

Design the system to benefit the contributors
• Give people credit for their data
• Give it back to them with improvements
• Give them access to all contributions

Know and serve your audience
• Build profiles of known user types
• For each user type, profile needs an atlas can address
• Design Atlas functions around these profiles
• Select technologies to deliver these functions
Thanks!

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