Oregon Coastal Atlas Tools

West Coast Regional Coastal Management Meeting San Francisco, January 2007

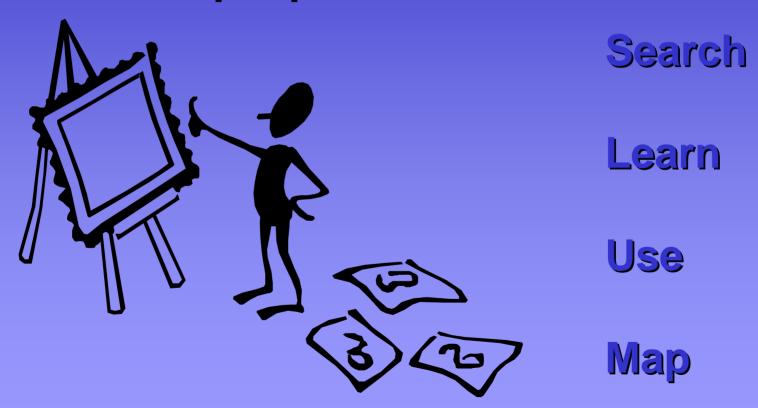
Tanya C. Haddad
Oregon Coastal Management Program

The Oregon Coastal Atlas

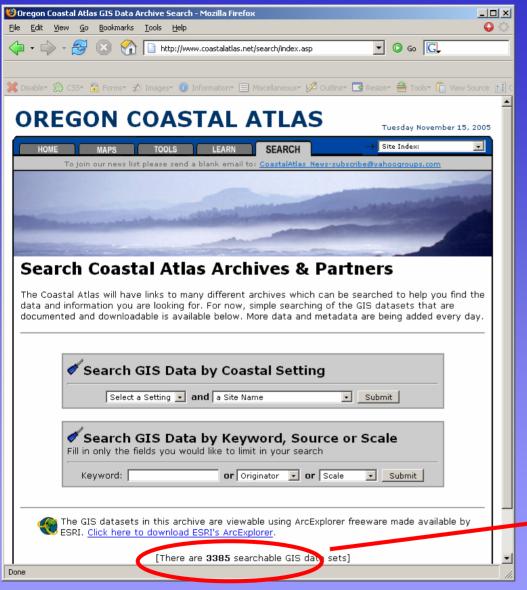
- The Oregon Coastal Atlas is a web depot for traditional and digital information used in decision-making relating to the Oregon Coastal Zone.
- It is a coastal managers web site which provides background information for different coastal systems, access to interactive mapping, geospatial analysis tools, and direct search & download access to natural resource data sets relating to coastal zone management.

Functional Design

What will people do with the Atlas?







Search

For users who know what they want

GIS Layers

Metadata

Archive Status



Learn

For Users who are curious to know more

Information about:

Coastal Settings

Coastal Topics

Technical Stuff



Tools For Users who want to

Planners

Public

Researchers

Contributors



Maps

For Users who want landscape context

Prepared Maps

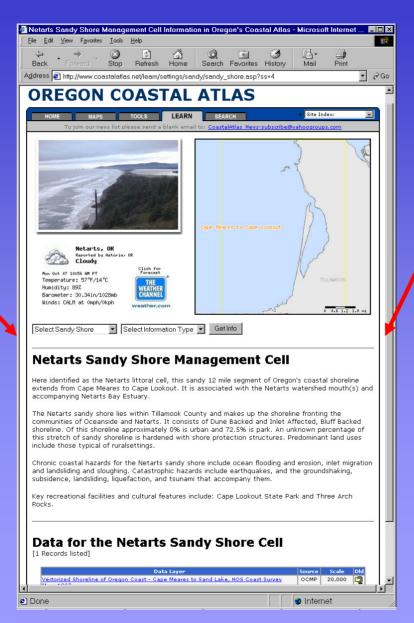
Custom Maps

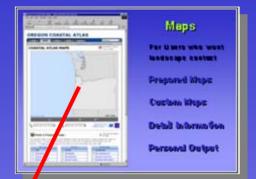
Detail Information

Personal Output

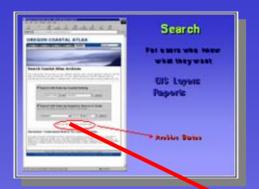
Cross Functions: Data Retrieval

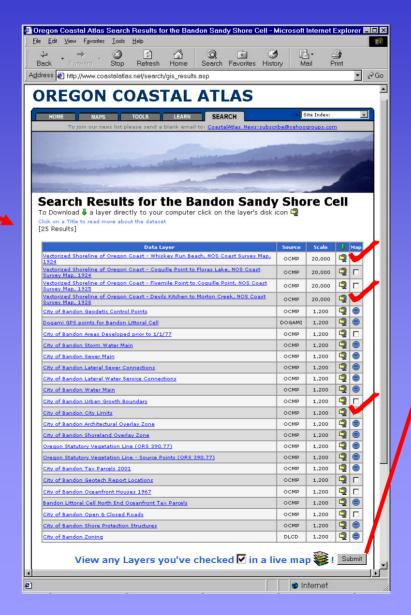






Cross Functions: Data Visualization





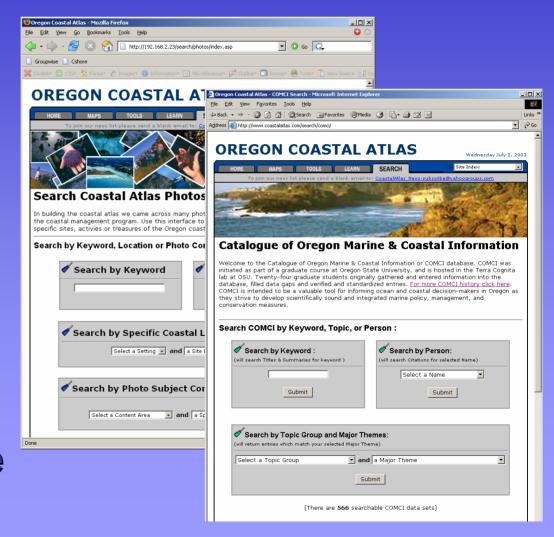


What is a Tool?

- Something built specifically to aid a user with the completion of a repetitive task,
 e.g. a shovel, a chainsaw, a bulldozer
- In the context of a Coastal Atlas, different kinds of users have different abilities and different kinds of "tasks" they are dealing with resolving:
 - e.g. a homeowner vs. a Local Planner

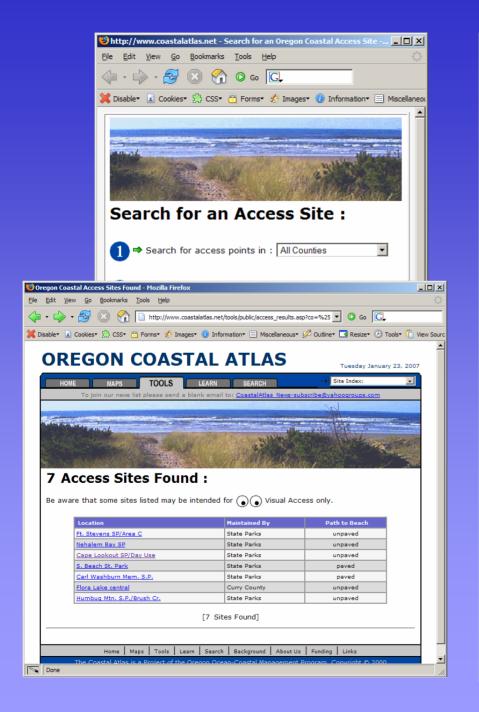
Archive Search Tools

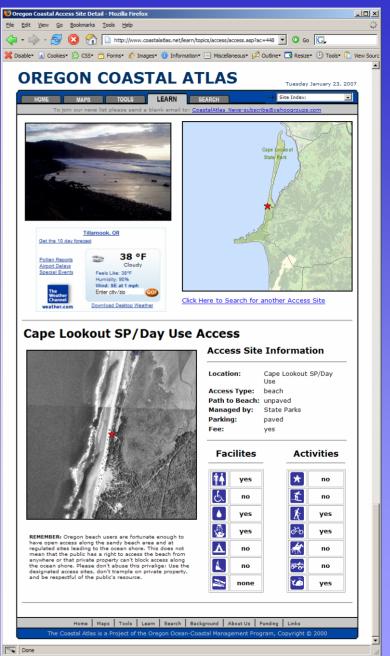
- For catalogues of like data
- Results may be linked to from multiple applications
- Examples: GIS
 Archive,
 COMCI, Coastal
 Photo Database



Report Tools

- Serve templated reports containing text, images, maps, charts, data, download links etc.
- Initiated by a user selection or query
- Results may be from, or lead to multiple data sources
- Examples: Rocky Shores Inventory, Coastal Access Facilities, Beach Water Quality Reporting, Beach Morphology Monitoring





Issue-centric Tools

- Demonstrate use of data & science to answer questions that repeat in space or time
- Examples: Erosion Hazards Tool Suite, Watershed Tool



Dune Overtopping

For Users who want to plan for Dune Undercutting or Overtopping



Dune Undercutting

For Users who want to plan for Dune Undercutting or Overtopping



Bluff Recession

For Users who want plan for possible Storm induced Bluff Recession



Coastal Inundation

For Users who want to Vizualize near Real-time Coastal Storm Flooding



Watershed Assessment

For Users who want to do OWEB Watershed Assessment Manual tasks

Story-centric Tools

Method for highlighting unique datasets





Current & Future Plans

- Continue to migrate useful existing datasets into Atlas Archives
- Integrate new Topic modules and tools as needed
- Expand & Improve Archives Search
- Update design & some design-related functionality
- Update map interface and improve cartography
- Update backend & unify content management schemes

Credits

Contributors

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www.coastalatlas.net

Thanks!