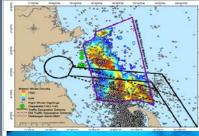


### MARCO's Mapping and Planning Portal

Coastal Geotools 2011 Special Interest Meeting-CMSP Portals & Atlases March 21, 2011 Jay Odell











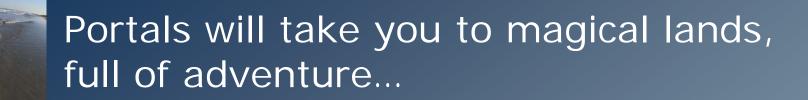


- What is a Portal?
- Description and demo of Mapping and Planning Portal data and features
- Data needs
- Next steps-what does the portal want to be when it grows up?
- Your ideas and questions

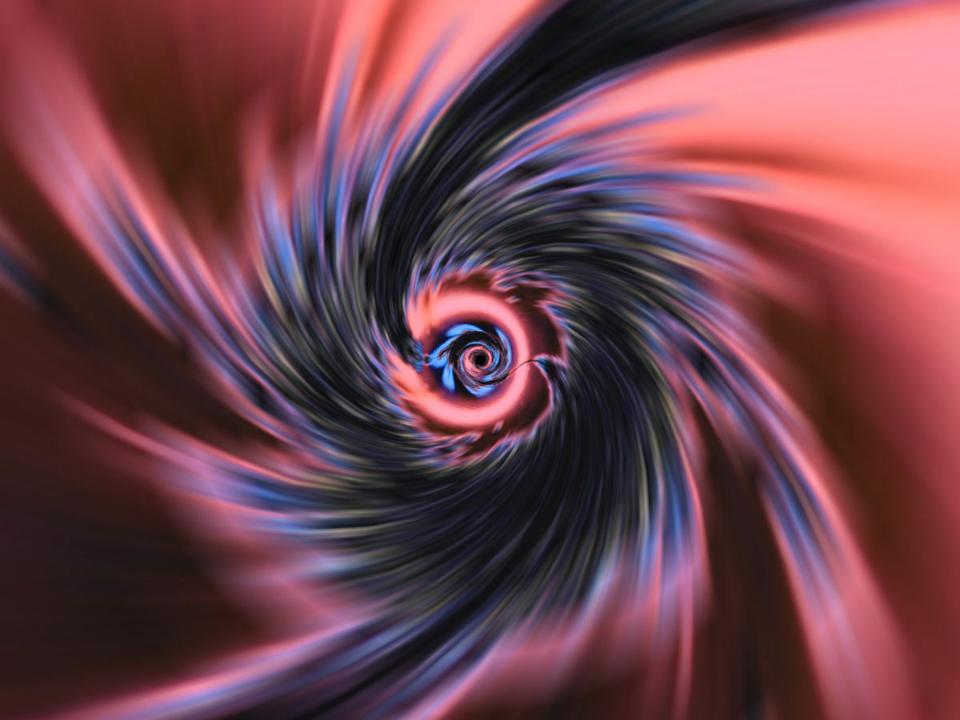


Well, the dictionary says:

A portal is a magical or technological doorway that connects two distant locations, separated by time and/or space. It usually consists of two or more gateways, with an object entering one gateway leaving via the other instantaneously.





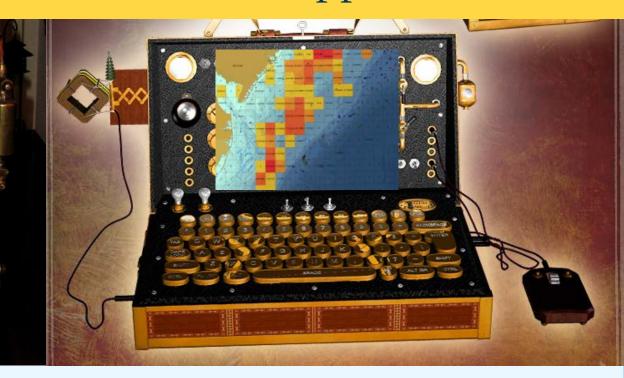


Well, actually that sort of portal was well beyond the scope of work for this project...

Implementing the new National CMSP Framework means Regional Ocean Partnerships like MARCO will need portals that empower managers and stakeholders with shared access to marine spatial data and decision support tools.

We made a good start at this with less than \$100K, still a work in progress

## data & decision support tools



Just put in the cloud!

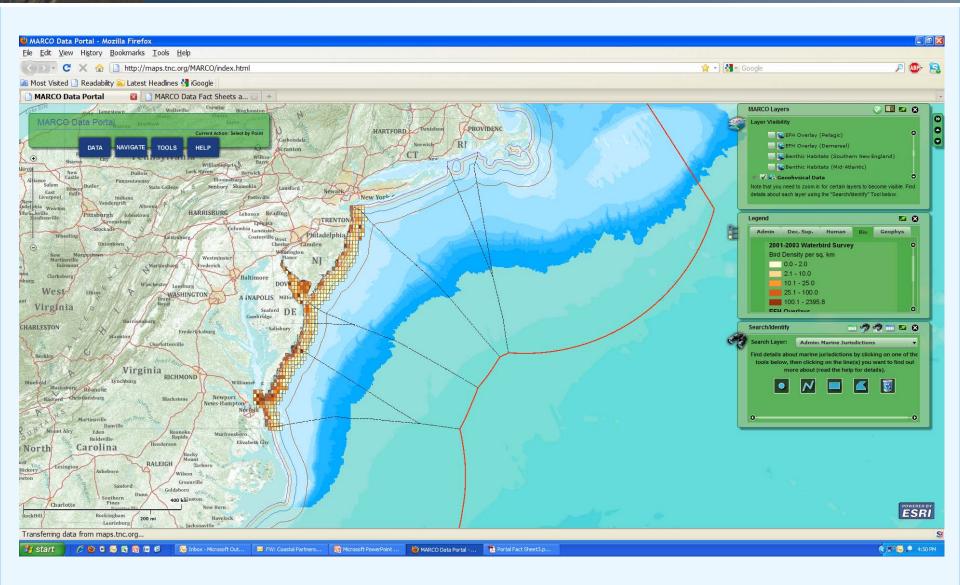
**OPEN SOURCE** 

### Don't worry & maybe it will be hybrids

**ESRI** 

Who will host it and how is that going to work?

### MARCO Mapping and Planning Portal

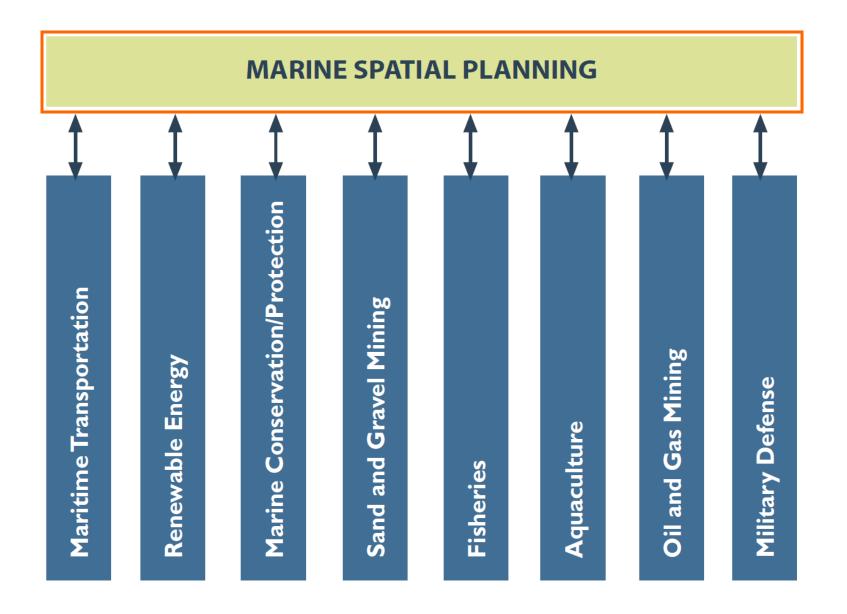


### Summary of current functions

- Choose from 3 base maps: topographic, streets, satellite view
- Draw and measure tools
- Select combinations of layers to create custom maps
- Adjust transparency to enhance overlays
- Search & identify tools to select & query data
- Save and print custom maps
- Moving ArcGIS Server 10 test to production server in next couple weeks, some nice new features like dynamic legends

23 spatial data layers grouped into 4 themes

- Administrative (official boundaries)
- Geophysical (bathymetry, wind speed, etc)
- Biological: (seabird density, benthic habitats, etc)
- Human uses: (ship traffic density, commercial fishing, etc)
- Fact sheets and metadata for all layers
- www.midatlanticocean.org



### Unmet Data Needs (highest priorities)

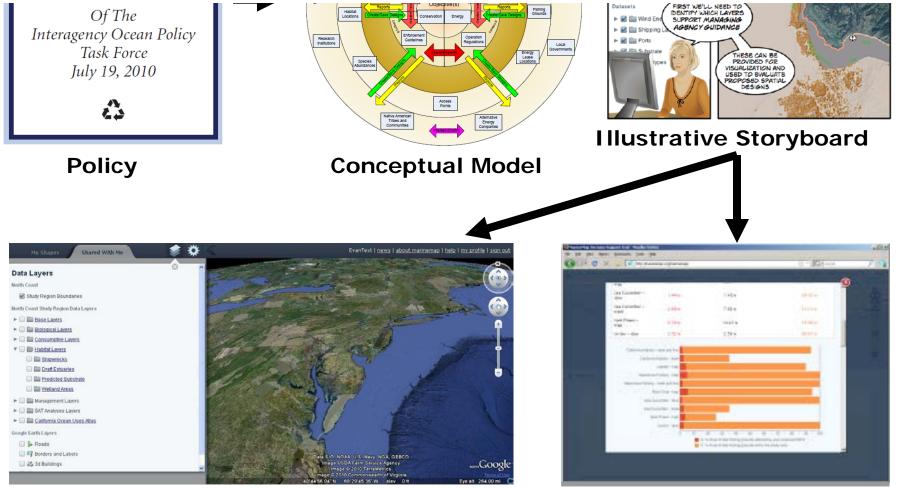
- Marine mammal migration paths
- Seabirds & sea duck critical areas and migration paths
- NFMS VMS & FVTR databases
- NMFS Observer Program database
- Recreational fishing
- Military restricted areas
- Sand, gravel, cobble mining
- Communications and transmission cables
- AIS ship traffic density data (AIS plus radar even better)
- Sector specific goal evaluation metrics







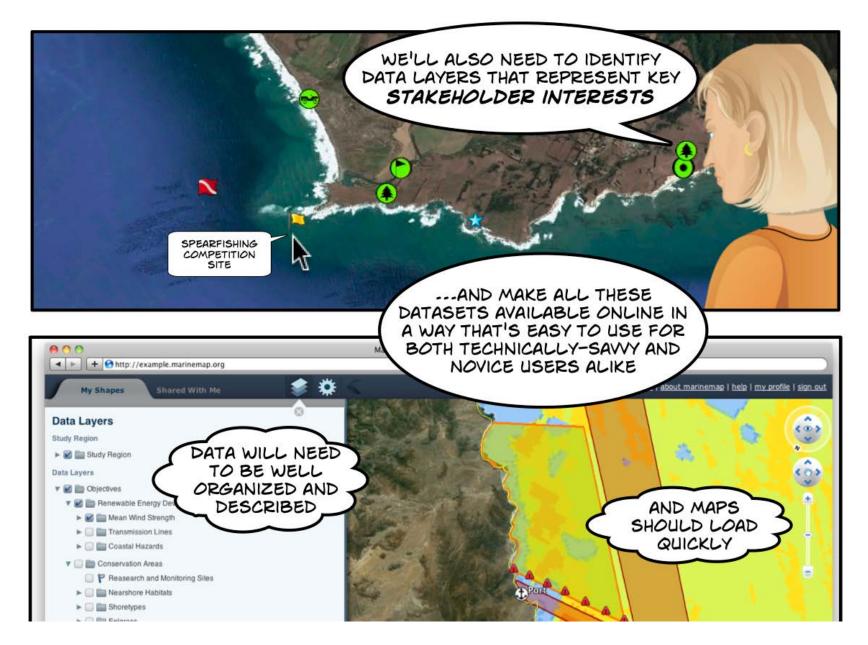
# MarineMap Consortium Project



#### Example Tool Functions

**Example Tool Outputs** 

### Organizing and Sharing Data

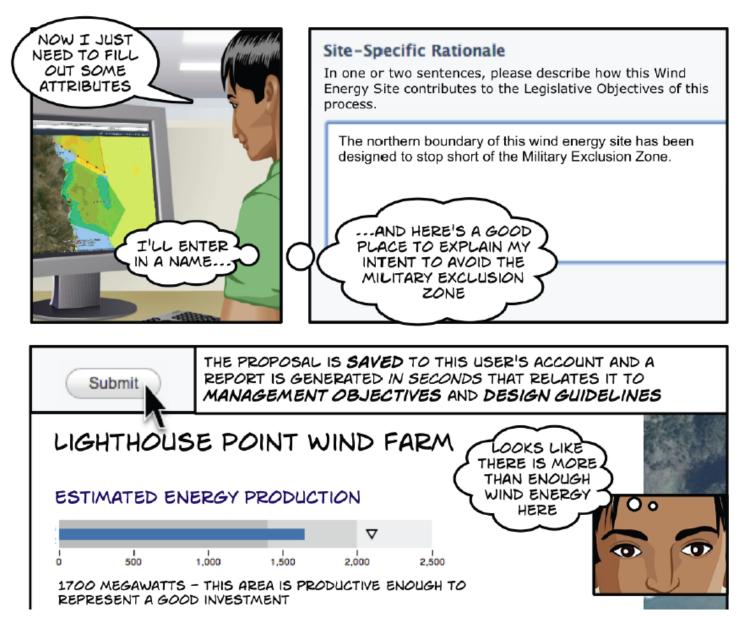


### Creating/Saving Designs

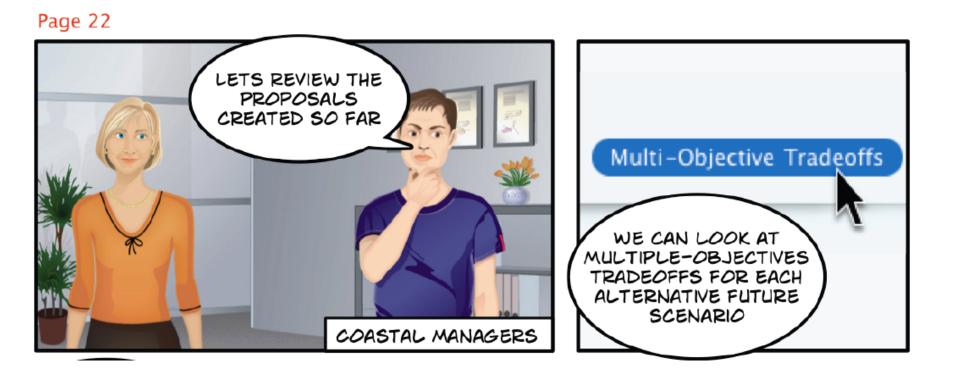
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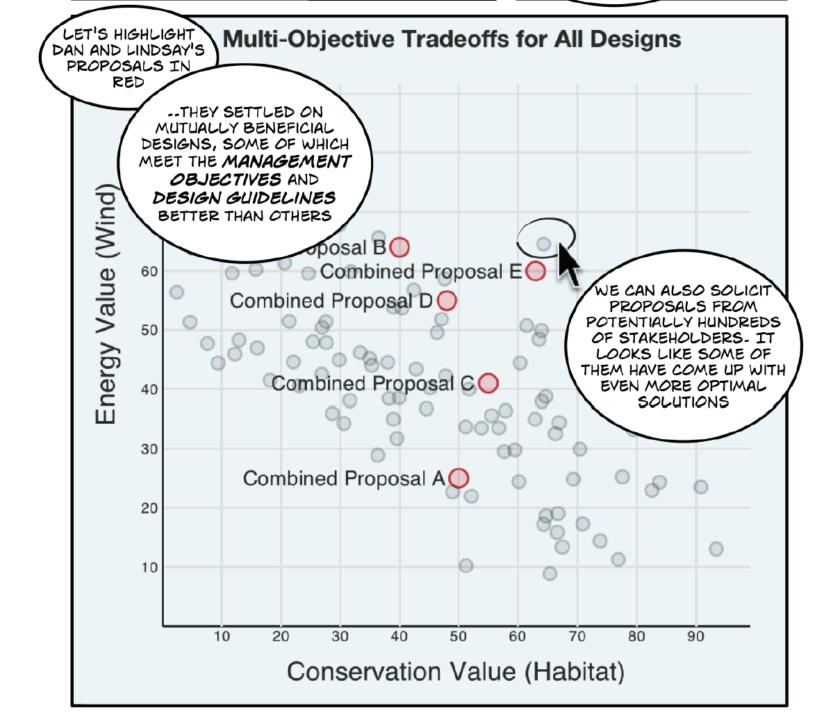
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### **Generating Reports**



## Weighing Tradeoffs







Dei 2.7000 •

Dec 2, 2009 •

1

Dec 2 2008 \*

Fins +



Tags 🖛

MarineMap Decision Support Tool





### Next Steps

Continue to use VA CZ Program Support to acquire and format high priority map layers for the Portal and to

- Upgrade Portal software to support more features and
- Secure funding to enhance current Portal to state-of-the-art CMSP decision support system



- Aesthetics, speed, and intuitive interfaces are all very important CMSP App design considerations
- For CMSP apps, < data layers may be > useful
- Decision support tool development must serve stakeholder/policy needs & requirements
- We need to develop sector specific socio-economic data needed to evaluate how well alternative scenarios meet diverse and shared goals.



- NOAA Coastal Services Center staff: Darlene Finch, Adam Bode, Brian Smith, David Stein
- VA, MD, NJ, DE and NY Coastal Zone Programs: Laura McKay, Nick Meade, Chris Cortina, Kevin Hassel, Dave Carter, Jeff Herter
- Chris Bruce, Gwynn Crichton (TNC)
- MarineMap Consortium (UCSB, TNC, Ecotrust): Evan Fox, Chad Burt, Zach Ferdana
- Funding: VA Coastal Zone Program, NOAA, TNC



Protecting nature. Preserving life."

### Discussion

