



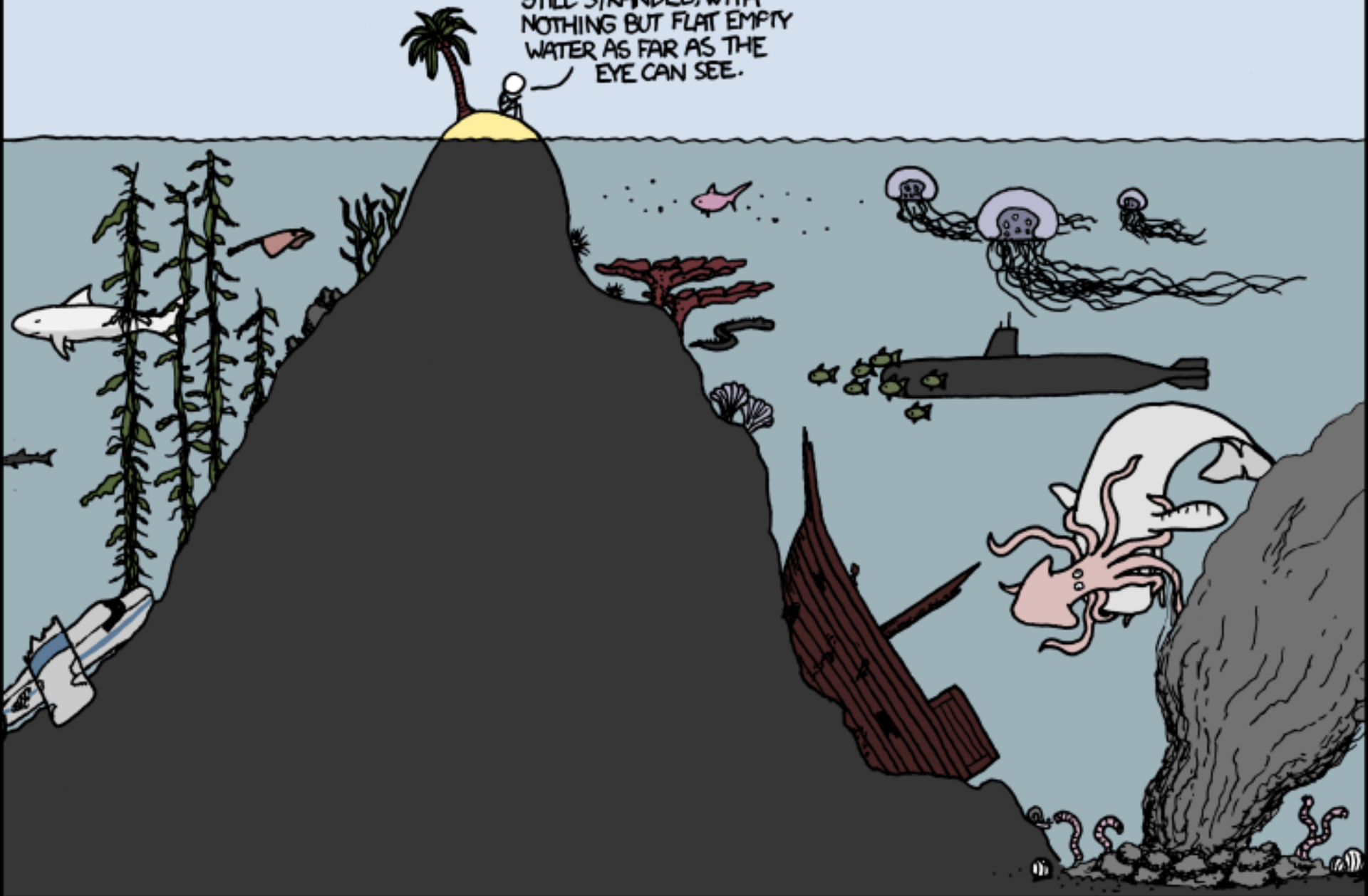
Capacity Building Stakeholders Seminar  
IHB, Monaco, March 5 and 7 2014

# Esri in Capacity Building

Rafael Ponce

Global Maritime Business Development Manager

DAY 44:  
STILL STRANDED, WITH  
NOTHING BUT FLAT EMPTY  
WATER AS FAR AS THE  
EYE CAN SEE.





out of sight, out of mind

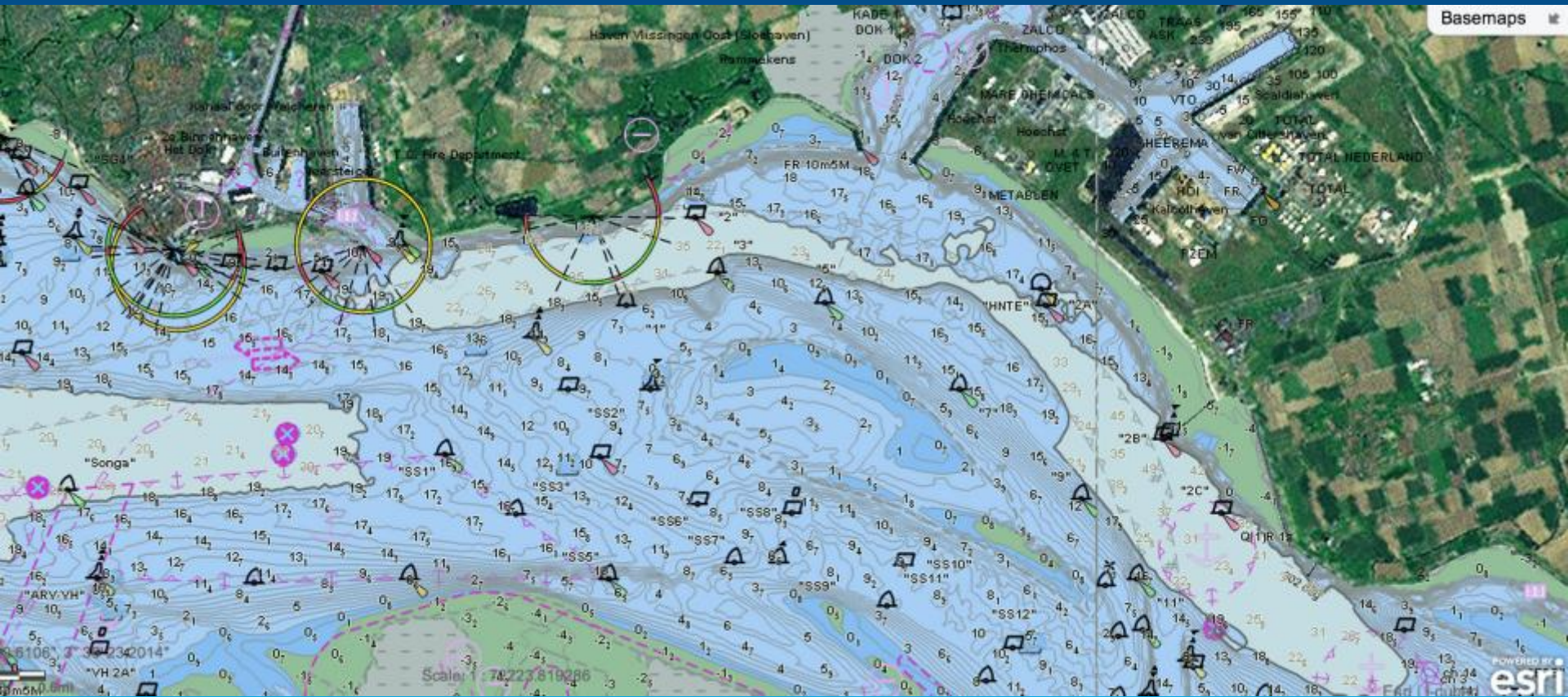
## Marine Spatial Data Infrastructure

Hydrography is more than charts

Charts are more than safety of navigation



# Combining hydrographic data for multiple purposes



- **Volume**
- **Velocity**
- **Variety**



<sup>1</sup> **Gartner Press Release, “Gartner Says Solving ‘Big Data’ Challenge Involves More Than Just Managing Volumes of Data”, June 27, 2011.**



*CyberGIS Software Integration for Sustained Geospatial Innovation*

# CyberGIS Project

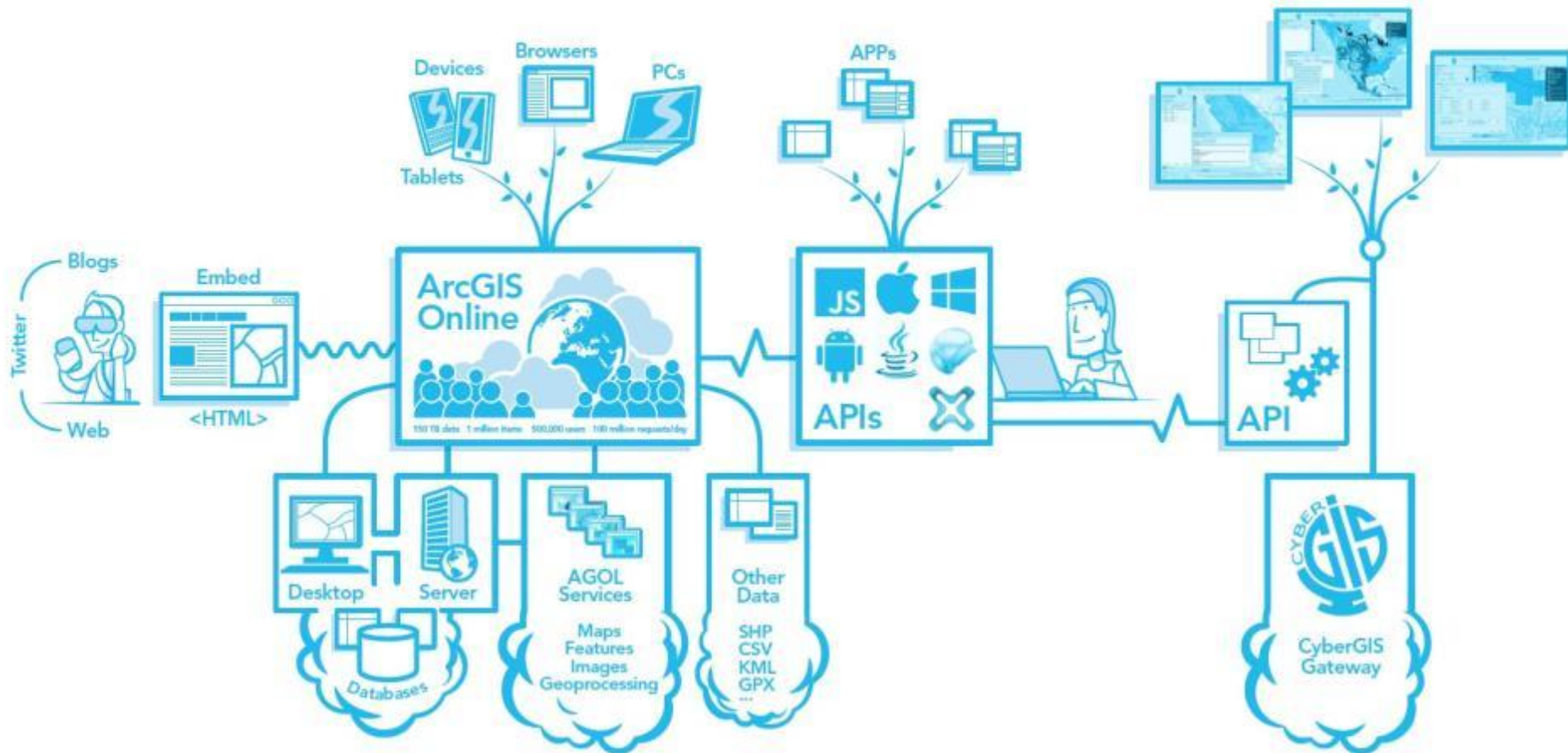
- A National Science Foundation-funded project that aims to establish a fundamentally new software framework via seamless integration of cyberinfrastructure, GIS and spatial analysis/modeling capabilities.
- Lead by the University of Illinois, Urbana-Champaign and involving scientists from Arizona State, University of Washington, the San Diego Supercomputer Center, UCSB, the US Geological Survey (USGS) and the Department of Energy's Oak Ridge National Lab (ORNL)
- Esri is a project partner.



<http://cybergis.cigl.uiuc.edu/cyberGISwiki/doku.php>



# CyberGIS Gateway and ArcGIS Online Integration



# An Architectural evolution



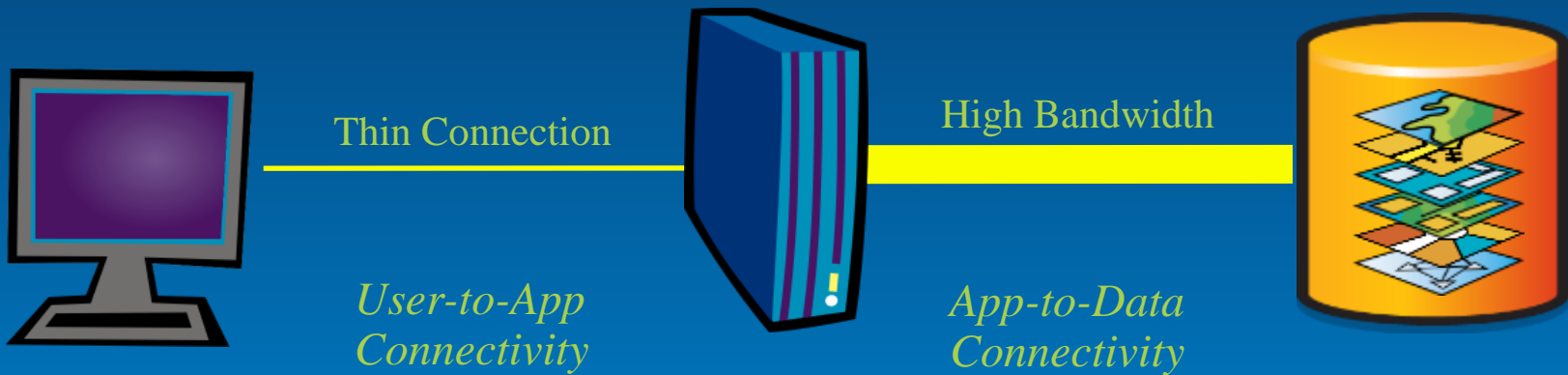


# Three Elements & Two Networks

① **Users**

② **Applications**

③ **Data**

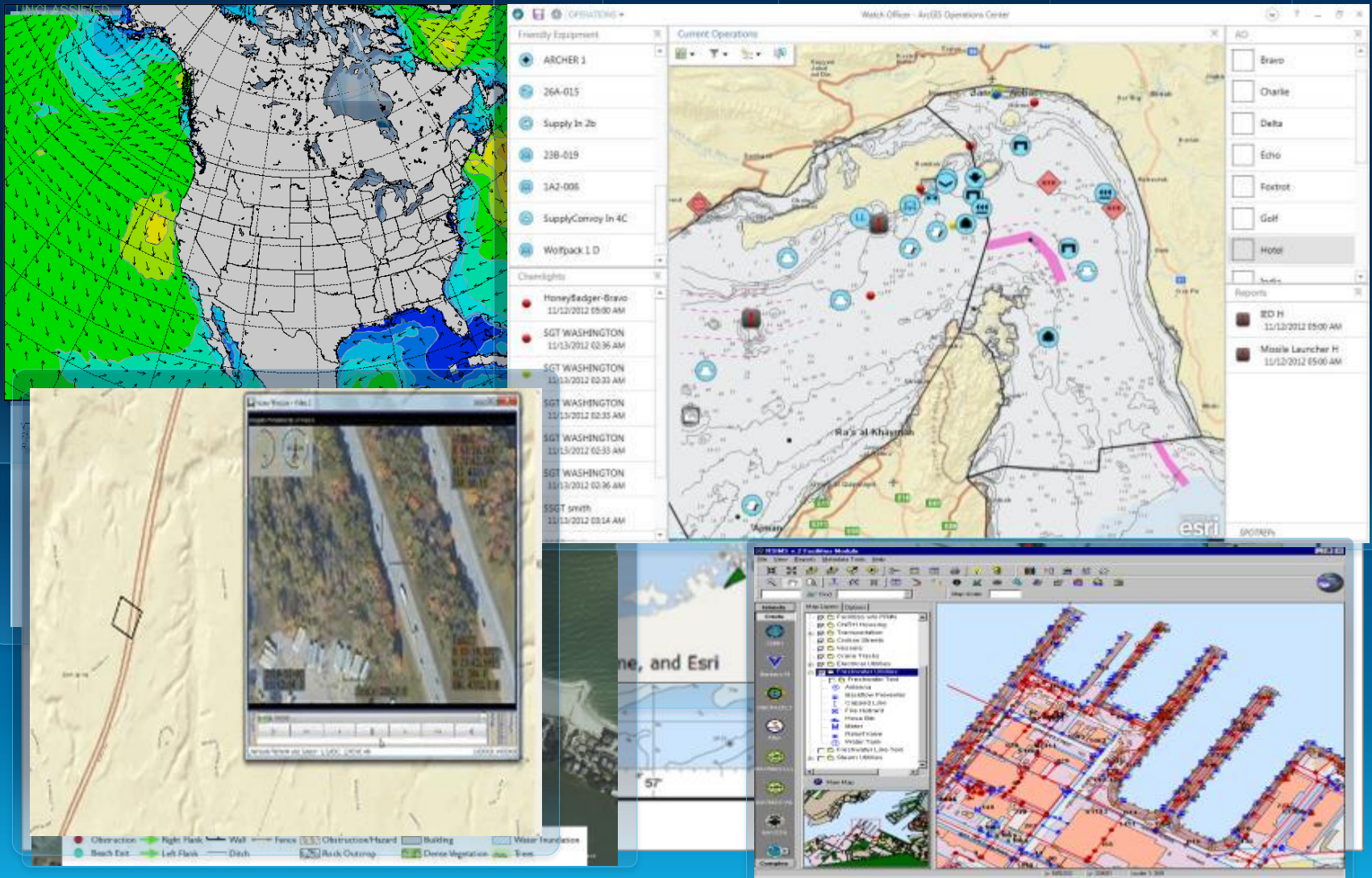


# AGOL: Most Significant Innovation in 20 years



**Empowers any user to create their own Web Maps.....using only a browser!**

# Geospatially-Enabled Capability in ArcGIS

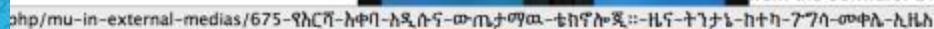




# Esri in Capacity Building



East Asia Hydrographic Commission MSDI Workshop together with OceanWise  
Participants from: Japan, China, Vietnam, Republic of Korea, Indonesia, Philippines, Malaysia, Thailand, Brunei and Singapore



# Esri at UNH CCOM



## Center for Coastal and Ocean Mapping Joint Hydrographic Center

 [About Us](#)[Research](#)[Education](#)[Outreach](#)[News & Events](#)[People](#)[Facilities](#)[Publications](#)[Partners](#)[Home](#)

### Industrial Associates Program

The Industrial Associates Program allows CCOM to establish collaborative arrangements with the private sector and other government organizations. These relationships are established through a formal agreement that specifies the general benefits afforded the Industrial Associate as well as the contribution (typically in-kind) that will be made to the University. The nature of the contribution varies with the business of the Associate. Software manufacturers typically provide copies of their software, while hardware manufacturers provide access to their equipment. Survey companies may provide vessels or offer to collect data for us.

In return, the Associate will have access to UNH-authored, non-patented software code and algorithms, subject to a separate non-exclusive and non-transferable licensing agreement. They will receive early notice of workshops, seminars, colloquia, and publications and have opportunities to collaborate with CCOM researchers through formal and informal exchanges of ideas. Visiting scholars from the Associate's organization may be accommodated upon request and CCOM will assist the Associate in arranging employment interviews with individual UNH students.

For more information about the Industrial Associates Program, please contact CCOM Administrative Assistant Linda Prescott at [linda@ccom.unh.edu](mailto:linda@ccom.unh.edu) or 603.862.3438.



# Esri training programs

## Find Training

- [View entire catalog](#)
- [Search schedule](#)
- [Get recommendations](#)
- [Browse books from Esri Press](#)

## Take Training



Activate a course  
access code



Attend instructor-led  
online classroom



Resume your  
e-learning



Find a training  
location



## Featured Training

March 24-25, 2014  
(Online, Pacific Time)

### [ArcGIS 3: Performing Analysis](#)

Learn a standard workflow to get reliable GIS analysis results.



## Live Training Seminars

Thursday, April 10, 2014

### [Data Visualization with the ArcGIS API for JavaScript](#)

Present your data in the best light—learn API techniques to create compelling maps designed with end users in mind.

- [Future seminars](#)
- [Seminar archive](#)



## Training for Organizations

Partner with us to find the right courses for your GIS staff, prepare teams for GIS projects, and plan long-term staff development to support your strategic goals.

[Learn more](#)



Understanding our world.

THANK YOU

[www.arcgis.com](http://www.arcgis.com)

Rafael Ponce [rponce@esri.com](mailto:rponce@esri.com)