



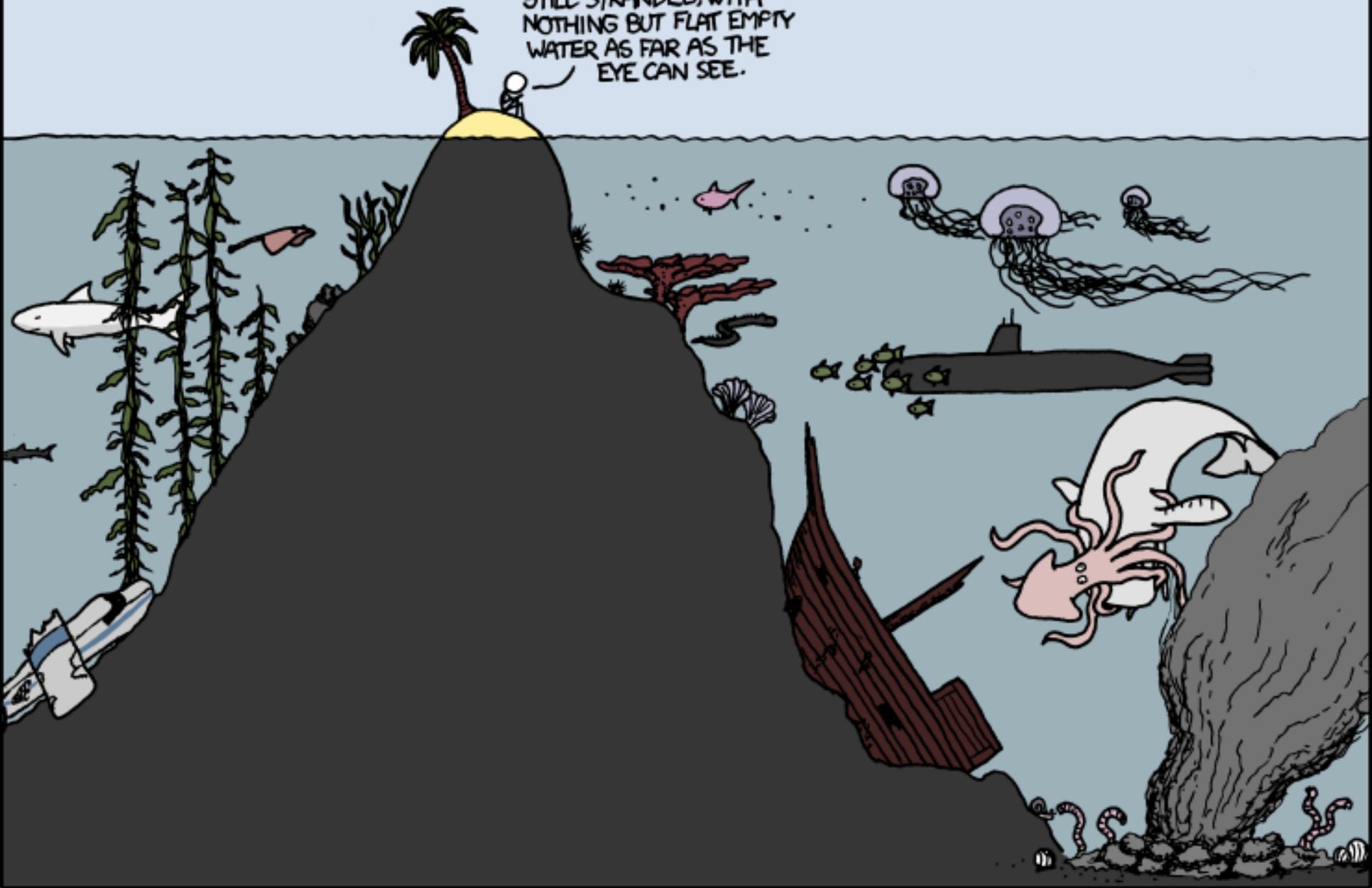
Capacity Building Stakeholders Seminar
IHB, Monaco, March 5 and 7 2014

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





CyberGIS Software Integration for Sustained Geospatial Innovation

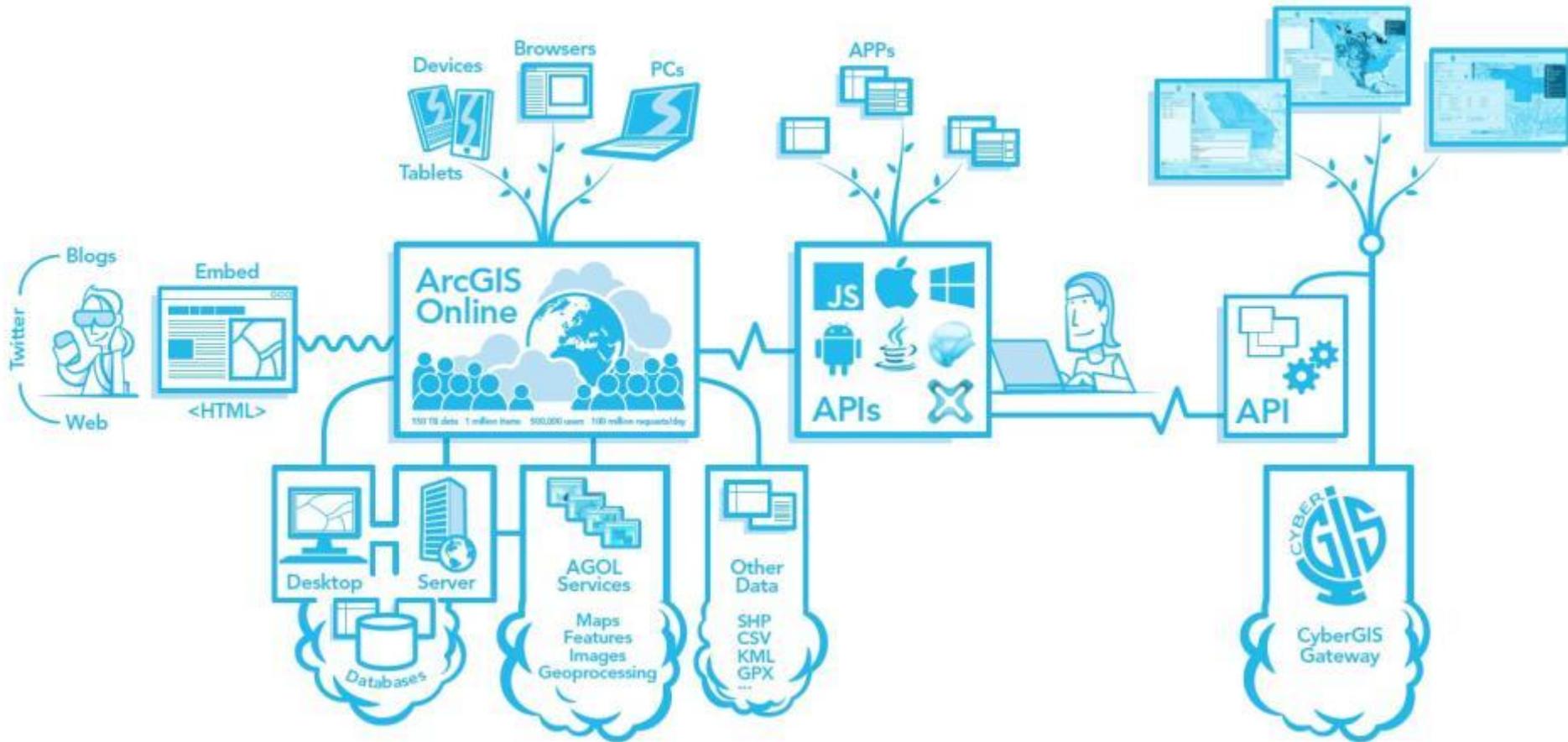
CyberGIS Project

- 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.cgl.uiuc.edu/cyberGISwiki/doku.php>

CyberGIS Gateway and ArcGIS Online Integration



An Architectural evolution

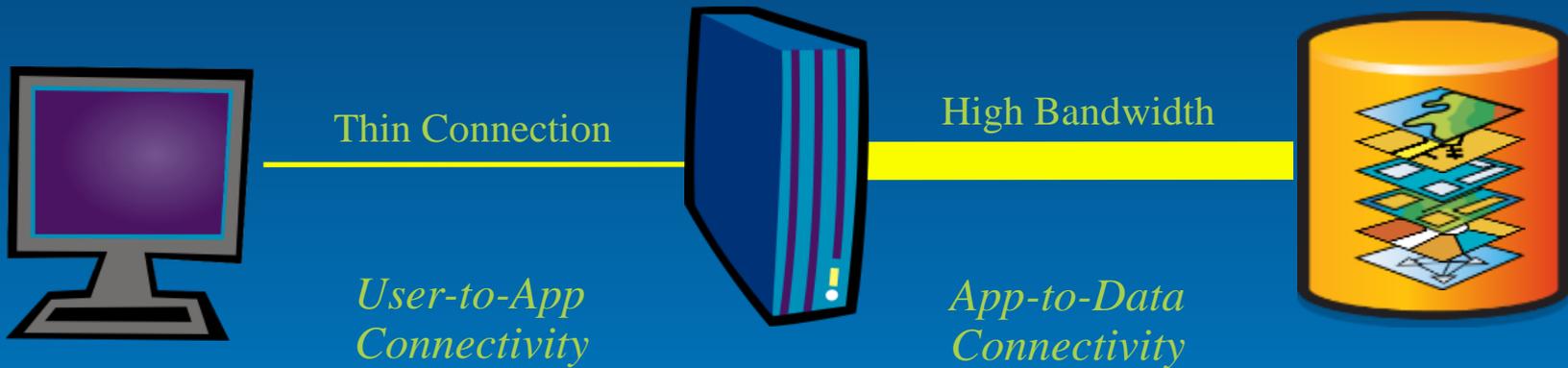
The image shows a modern server room with a blue color scheme. A person in a green shirt is standing next to a row of server racks. The racks are illuminated with blue light, and the floor is also lit with blue light. The background is a blurred view of the server room.

Three Elements & Two Networks

① **Users**

② **Applications**

③ **Data**



AGOL: Most Significant Innovation in 20 years

1992

ArcView

Desktop

① **Shapefile**



2013

ArcGIS Online

Web Map

Feature Service ④



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

Geospatially-Enabled Capability in ArcGIS

The image displays four distinct geospatial capabilities in ArcGIS:

- Topographic Map:** A map of the United States showing elevation contours in various colors (green, yellow, orange, red, brown).
- Military Operations Center (MOC) Dashboard:** A screenshot of the ArcGIS Operations Center interface. It features a central map of a coastal region with various symbols and overlays. On the left, there are panels for 'Friendly Equipment' (listing items like ARCHER 3, 26A-015, etc.) and 'Cherlights' (listing items like HoneyBadger-Bravo, SGT WASHINGTON, etc.). On the right, there is a 'Bravo' panel with a list of call signs (Bravo, Charlie, Delta, etc.) and a 'Reports' panel.
- Aerial View with Legend:** An aerial photograph of a desert landscape with a legend at the bottom. The legend includes symbols for Obstruction, Right Flank, Wall, Fence, Obstruction Hazard, Building, Water Features, Beach Exit, Left Flank, Dash, Rock Outcrop, Dense Vegetation, and Trees.
- Detailed Urban Map:** A detailed map of an urban area with a legend on the left. The legend includes symbols for Buildings, Roads, and other urban features.

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 in Mekelle University



Mekelle University መቐለ ዩኒቨርሲቲ we really care!

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Home: News ESRI offers training to create awareness on GIS softwares at Mekelle University

MU in External Media

- Ethiopia: The Rise of African Sleeping Giant
- የአርሻ አቀባ-አዲሱና ውጤታማው ቴክኖሎጂ። (ዜና ትንታኔ) /ከተካ ፖፖሊ መቀሌ ኪ.ኤ.አ/
- ሙሉአለም ተዓዋቂ ውፅኢት ምህዘ ሳይንስና ቴክኖሎጂን 2005
- ዩኒቨርሲቲ መቐለ ብጥዕና ስብረተሰብ ፕሮግራም 3ይ ዲግሪ /PHD/ ከምዝጃመረ ላፍሊጡ።
- MU's 21st Graduation Ceremony MP3

ESRI offers training to create awareness on GIS softwares at Mekelle University



ESRI company has offered GIS software awareness creation training at Mekelle University in collaboration with the GeoMark Systems Ethiopia on January 14, 2013. ESRI is a licensed GIS software company.

GIS- Geographic Information System- is a software that helps for capturing, managing, analyzing, and displaying all forms of geographically referenced information. It allows people to view, understand, question, interpret, and visualize data in many ways that reveal relationships, patterns, and trends in the form of maps, globes, reports, and charts.

Dr. Michael Gloud, ESRI Global Education Manager briefed attendants at Mekelle University specifically on "Spatial Thinking: Across the University" and the importance of GIS software across different areas in general. According to him, ESRI is working to support the implementation of GIS across academic departments to improve university operations such as facilities management. Gould said GIS can be used on campuses for teaching and research in spatial disciplines, such as geography and planning, and in wider areas such as business and public health departments. With GIS, students can analyze data within their spatial context that would allow them make more informed decision.



According to Getu Abdisa, GIS specialist at GeoMark Systems, Addis Abababa, there are currently more than 7000 universities in the world utilizing ESRI software. He also aspires Universities like Mekelle in Ethiopia to benefit from the software. Dr. Michael and Getu promised to work in close with Mekelle

Esri at UNH CCOM



Center for Coastal and Ocean Mapping
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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 or 603.862.3438.

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