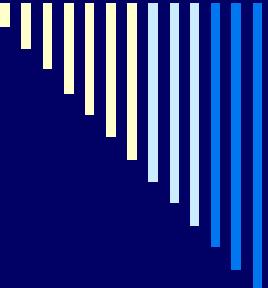


Information Technologies in Middle East Projects

**RAIS in Libya
Emergent Technologies
Sandia's Water Portal**

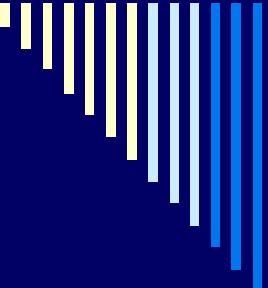
**Karl Horak / Second Symposium on Sandia's Middle East Programs
Sandia National Laboratories / Albuquerque, New Mexico**

05 January 2006



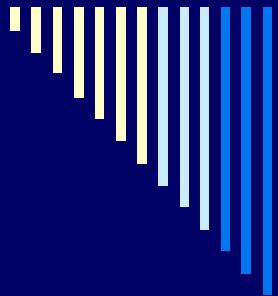
RAIS in Libya

- (Nuclear) Regulatory Authority Information System
- Action Sheet under discussion as of 12/9
- Possible activities include:
 - Basic and Advanced Training
 - Analysis of Libyan regulations and legislation
 - Customization
 - Implementation



Changing IT Environment

- Web technologies becoming more mature and innovative
- Large number of COTS and Open Source applications
- More high-bandwidth accessibility within the region
- More acceptance of IT applications beyond word processing, spreadsheets, e-mail, and browsing
- More through-the-browser applications

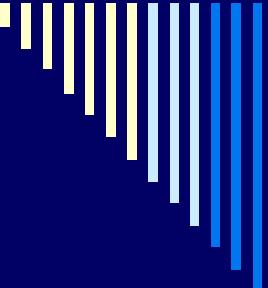


Emerging Technologies

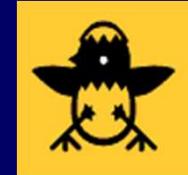


- Web Conferencing
 - WebEx and others
 - Features
 - Online presentations
 - Application sharing
 - Web co-browsing
 - Annotation
 - Text messaging
 - VoIP and video support





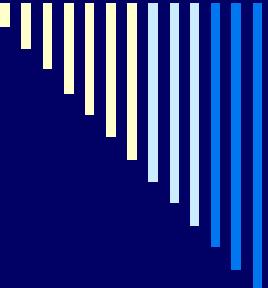
Emerging Technologies, con't.



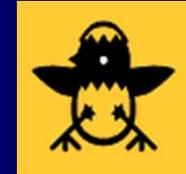
□ Content Management Systems

- Plone and others
- Features
 - Through-the-browser maintenance of Website content
 - User and group permissions/security settings
 - Workflow approval of new content
 - File and document sharing
 - Full-text indexing and search capability
 - Foreign language support





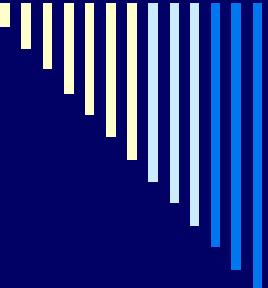
Emerging Technologies, con't.



□ Rich Internet Applications

- Ajax, Flash, Java applications, XML, Ruby on Rails, DOM, and many others
- Features
 - Installation is not required -- updating and distributing the application is an instant process
 - Users can use the application from any computer with an internet connection
 - Web-based applications are generally less prone to viral infection than running an actual executable
 - As web usage increases, computer users are becoming less willing to go to the trouble of installing new software if a browser-based alternative is available





Water Monitoring Portal

- Project in Dept. 6115
- Integrates WebEx and Plone
- Captured legacy data from previous independent water monitoring Websites
- Successfully rolled out in Sept. 2005 between CMC and CMC@Amman



A Collaborative Water Monitoring, Modeling and Management Environment – Sandia Water Portal - Netscape

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https://ironside.sandia.gov/zope/snlwater

A Collaborative Water Monitoring, Modelin...

Sandia National Laboratories Water Portal A Collaborative Water Monitoring, Modeling and Management Environment

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A Collaborative Water Monitoring, Modeling and Management Environment

The purpose of this portal is to provide a web-based, interactive environment for collaborative regional and international water monitoring, modeling and management. This venue allows multiple scientists, policy makers, water managers and stakeholders at multiple institutions around the globe to work together on water issues in real time. It also provides public access highlighting different regional and international projects.

Note: There is public and restricted information on this site. You may view all public information without logging in. A user ID and password is required for access to restricted information.

Collaborations:

- [!\[\]\(a3ab3a6cb19567aa3d1e8e21af9dbfb9_img.jpg\) Arab Science & Technology Foundation, Iraq](#)
- [!\[\]\(cd230c51c8ee4b0fd7f4a3b91b64d92f_img.jpg\) Iraqi Water-Energy-Food Modeling, UNESCO-Amman](#)
- [!\[\]\(282dbc794e66d463315d219a3348ffee_img.jpg\) Navruz Transboundary Rivers Project, Central Asia](#)
- [!\[\]\(34b3561d046aa840d6be18f41ff0e23b_img.jpg\) Water Quality Monitoring and Modeling, Jordan](#)
- [!\[\]\(b55dc21f01b8c1c4b399715fd68cdb5d_img.jpg\) NM Office of the State Engineer](#)
- [!\[\]\(5ed30ea998de50332a4f527db3d052d7_img.jpg\) Rio Grande/Rio Bravo Data and Modeling, US/Mexico](#)
- [!\[\]\(cf477711cc64dc860a0ec0004ce591dd_img.jpg\) Middle Rio Grande Regional Water Planning, New Mexico](#)
- [!\[\]\(c3c8285a6017f57d4a0b7baa03075f2c_img.jpg\) Groundwater Decision Support Modeling, University of Texas](#)

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