

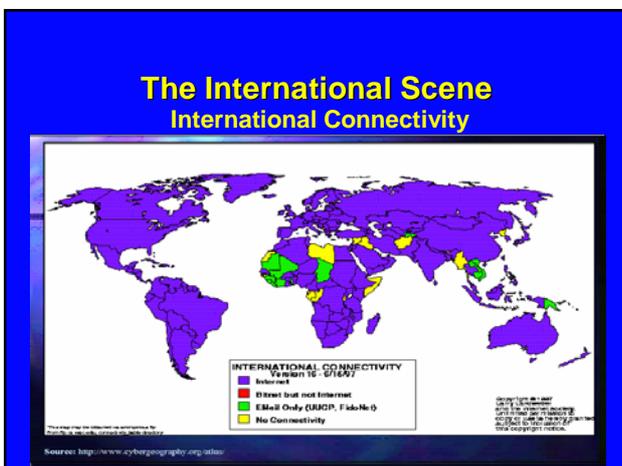
About Author:



Dr. Eng. Moustafa Baraka
Professor of Geodesy & Surveying,
Faculty of Engineering - Cairo University

B.Sc. 1978 (Fac. of Eng. - Cairo Univ.)
M.Sc. 1981 (Fac. of Eng. - Cairo Univ.)
M.Sc. 1985 (Ohio State University, U.S.A.)
Ph.D. 1988 (Ohio State University, U.S.A.)

Scientific interests and research;
Geodesy, surveying & digital mapping,
with emphasis on; GPS / GNSS, and GIS.



- About Surveying & LIS Division Faculty of Engineering Cairo University - continued**
- Oldest academic surveying division in Egypt 1926, currently 17 faculty members.
 - Provides courses, research and consultations in:
Plane and geodetic surveying and mapping, photogrammetric surveying and mapping, (including GPS/GNSS, RS/HRSI, GIS).
 - Contributes to academic programs in areas of:
 - Civil and construction eng.
 - Architectural eng.
 - Electrical eng.
 - Urban planning
 - Archeology
 - Geography

The International Scene - continued

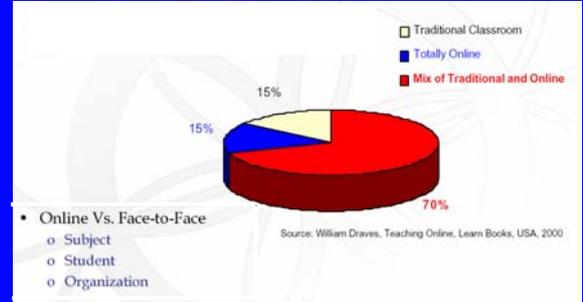
Geoinformatics and E-Learning

Surveying engineers, could be "overestimating the human ability to grasp the meaning of geospatial data", geospatial information could be correctly perceived when visualized.

E-Learning should emphasize visualization to learners (students, professionals and the public).

The International Scene - continued

Teaching In The 21st Century

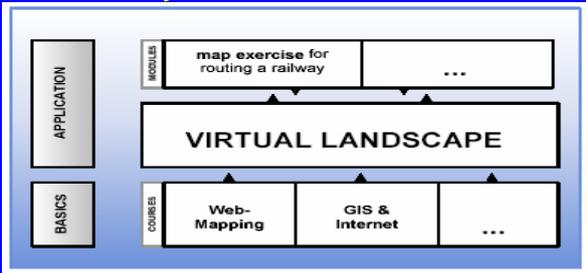


- Online Vs. Face-to-Face
 - o Subject
 - o Student
 - o Organization

The International Scene - continued

Geoinformatics and E-Learning

From Germany



Source: Katerfeld and Sester, 2004, Desktop Virtual Reality in E-Learning Environments, Intl. Cartography & Informatics, Hannover, Germany

The International Scene - continued

Geoinformatics and E-Learning



RFP – Al-Ahram Newspaper, 11 March 2005

Ministry of Communication
Ministries of Higher Education &
Scientific Research

The National Scene

Infrastructure for upgrading the nationwide network connecting Universities (16), Research Centers and Institutes (9).

For the implementation of e-Learning, e-Government projects and linking with 2nd Internet generation connecting worldwide centers and research institutes.

Last date for accepting bids Sunday, 14 April 2005, 12:00 pm., The Smart Village.



The International Scene - continued

Geoinformatics and E-Learning

From Ireland

A Course with themes on:

- Describing position with co-ordinates
- Defining and realizing co-ordinate reference systems
- Calculation in a 2D Cartesian coordinate
- Transforming from local to global reference systems
- Manipulating co-ordinates
- Position in Ireland (Customizable)

Source: Mooney and Martin, 2004, The Potential of eLearning in The Spatial I.T. Sector, Continuing Professional Development, Dept Geomatics, Dublin, Ireland

The National Scene - continued

Ongoing Efforts

Faculty of Engineering, Cairo University:

A geoinformatics graduate course for graduate students, using blended e-learning environment (LMS may be), focusing on selected topics in GNSS, HRSI and GIS.

Construction Engineering Department, AUC:

Supplementing synchronous teaching of an undergraduate construction surveying course, using WebCT, focusing on selected topics in digital mapping.

The National Scene - continued

E-Learning In Egypt

E-learning (engineering, medicine, pharmacology, science, environment and management sciences and finance education)

UNESCO
Global Campus
Project

World Bank
HEEPF

MEDA
TEMPUS

Nationwide Internet Access PC & Laptops Nationwide WAN Upgrade



**Thank
You**



Conclusions

- E-Learning presents a viable solution to Egypt's future requirements in higher education.
- Egypt started investigating e-Learning in projects like, Global Campus project, HEEP, MEDA and Tempus.
- Recent nationwide investigations revealed encouraging results for Egypt's readiness for large-scale e-Learning deployment.
- Significant government initiatives are continuously providing the required infrastructure for e-Learning
- Surveying science courses offered in Egypt provide the basis for geoinformatics e-Learning.