

Where You Are Has a Great Influence on the Kind of Information You Want and Need....

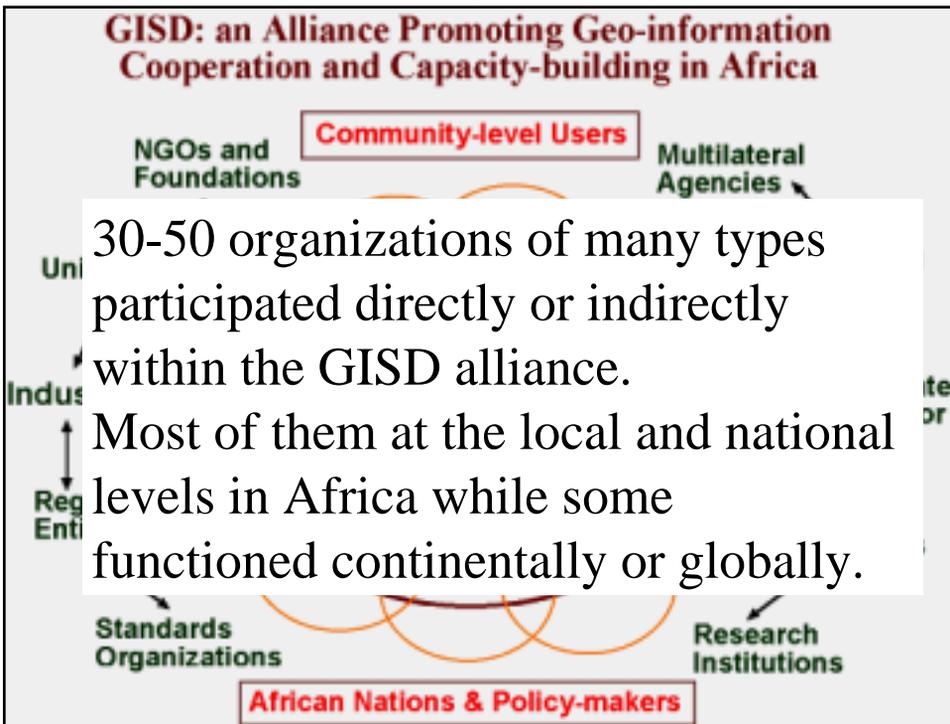
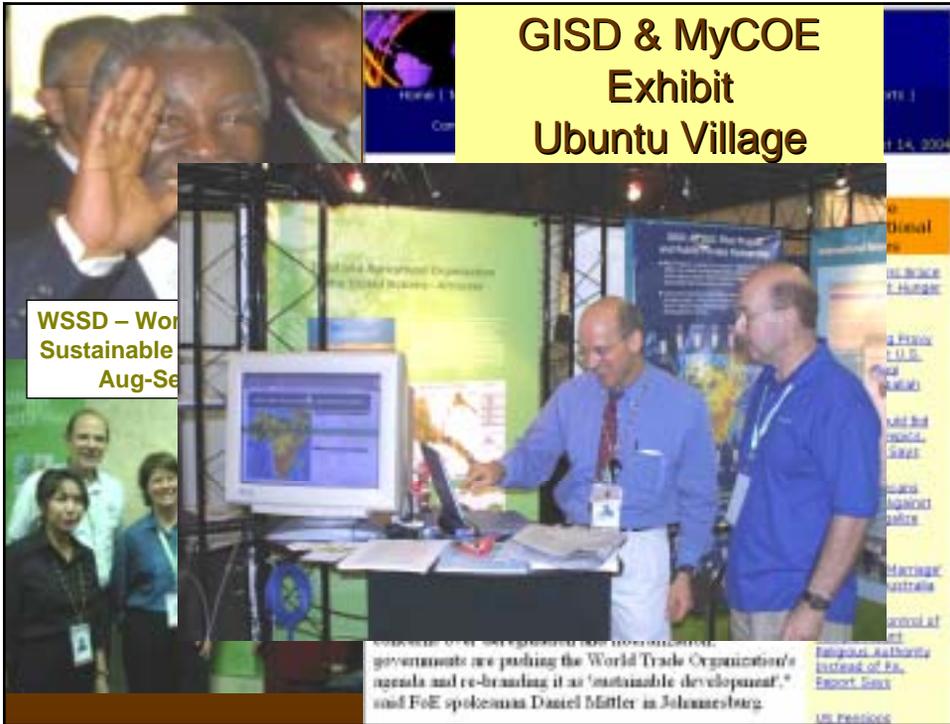


Who Needs SDI? Some Personal Reflections

Robert E. Ford, Professor

Social Policy & Sustainable Development
Loma Linda University
September 21, 2004

Global Spatial Data and Information User Workshop:
Development, Dissemination, and Use



WSSD – how it has affected my thinking...

- Who were the global/regional scale “players” in SDI?
- EXAMPLES: OGC, CIESIN, GSDI, MACGA, USGS, UNEP, FAO/Geonetwork, Africover, UNGWIG, CGIAR-CSI, NOAA, Geography One-Stop, ESRI, Natural Resources Canada, State Dept., NAS/NRC, etc....

If you know these acronyms and groups you're privileged in the SDI-world...

GISD OGC PILOT PROJECT DEMONSTRATION

WMS CLIENTS

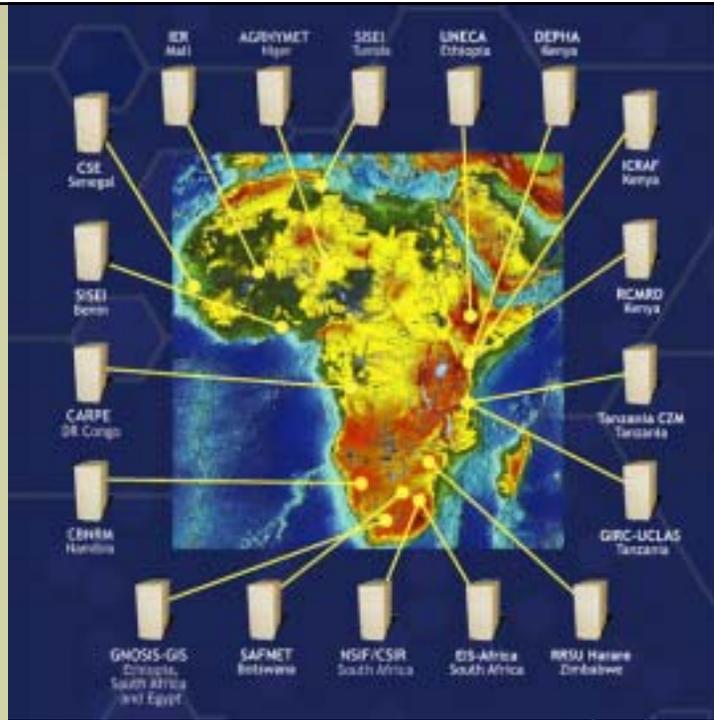
ATS Remote	WMS (OGC/OGC)
CubaWMS	WMS
ESRI	WMS
FODC with SAC	WMS (OGC/OGC)
Intergraph	WMS / WFS (Geotitles)
Esri Software	WMS / WFS
LEIRI SOG	WMS / WFS

SUPPLEMENTAL INFORMATION

- [OGC Client/Server Search Interface](#)
- [David Allen's Presentation](#)
- [Australia Map Services](#)

Our
Phase One
African
Partners:

More to
come in
the future



The *New*-MACGA partnership Meso-American and Caribbean Geospatial Alliance



Started **October 2003** and includes
multiple sectors including health...

Beneficios Recibidos por el Proyecto SIG Municipal



Computadora e impresora



Programa de SIG
ArcView



GPS



Cámara Digital



Entrenamiento

Mapa topográfico digital

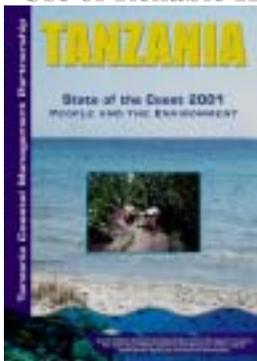


Ortofoto Digital



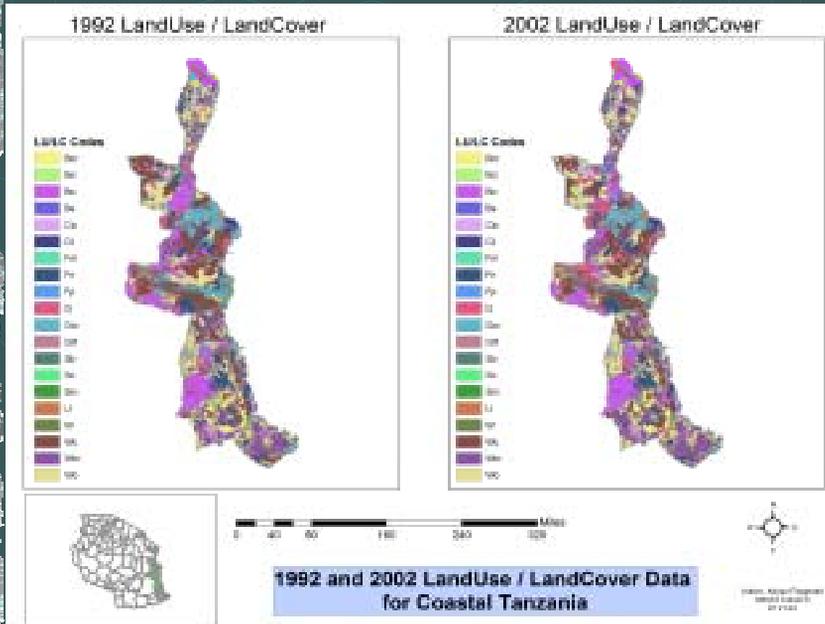
Vedast Makota, NEMC (Nat. Env. Mngt. Council) and the Vice-President's Office

Coastal Zone Change Detection Study USAID, URI & Tanzania Government Use of Reliable Knowledge for Planning



- Issue profiles, fact finding, consultations, and group deliberation
- Science for management group formed (STWG)
- Comprehensive secondary literature collection and review
- State of the Coast Report
 - condition, trends and threats
 - scientific consensus and community perceptions
 - spatial information not readily accessible





But, even among the **privileged** there are major groups **left-behind**....

That is part of what we'll talk about during this workshop...

Even greater challenges ahead....

Are we reaching the **REAL** users?

Can science-based information systems linked to **Geographic Information & Communications Technologies (Geo-ICT)** reach her with realistic solutions that work!



The *Users* Left behind....so far...

- **Local-level users**, e.g. land managers and NGOs, community groups, farmers, small business, churches, etc...
- A story from the **Bay Islands of Honduras** – **July 2004** (IDB Project and BICA)



Many changes are affecting Honduras and need to be documented and mitigated...

Increasing gap between Rich & Poor
urbanization, declining agriculture...

Stress on Natural Capital, e.g.
wetlands, reefs, forest biodiversity
loss, e.g. Manatees, birds, iguanas...

All those working on these issues need data, maps, imagery, etc....

But, where and how will they be served?

The PMAIB Story....IADB...

trade embargoes,
ethnic/demographic
conflict, drugs, crime,
sewage, health, land
conflict, disease risk....

2004



SW Uganda Project - David Siriri
ICRAF and AHI (African Highlands)

What did we learn?
ICRAF - Telecenters?
PRA and SDI Links?

UG

WRI-2004. *Tools for Local-Level Rural Development Planning: Combining use of Participatory Rural Appraisal and Geographic Information Systems in Uganda.*
Frank R. Turyatunga.

Other *Users* Left behind....so far...

- **Academia** – general student population and the non-GIS savvy faculty, staff, and community users served by universities...
- A story from **Loma Linda University...today!**

Where in the world?



-School of Science & Tech.
-Geoinformatics Lab
-School of Public Health

New Grantee and Partner with

ESSE21

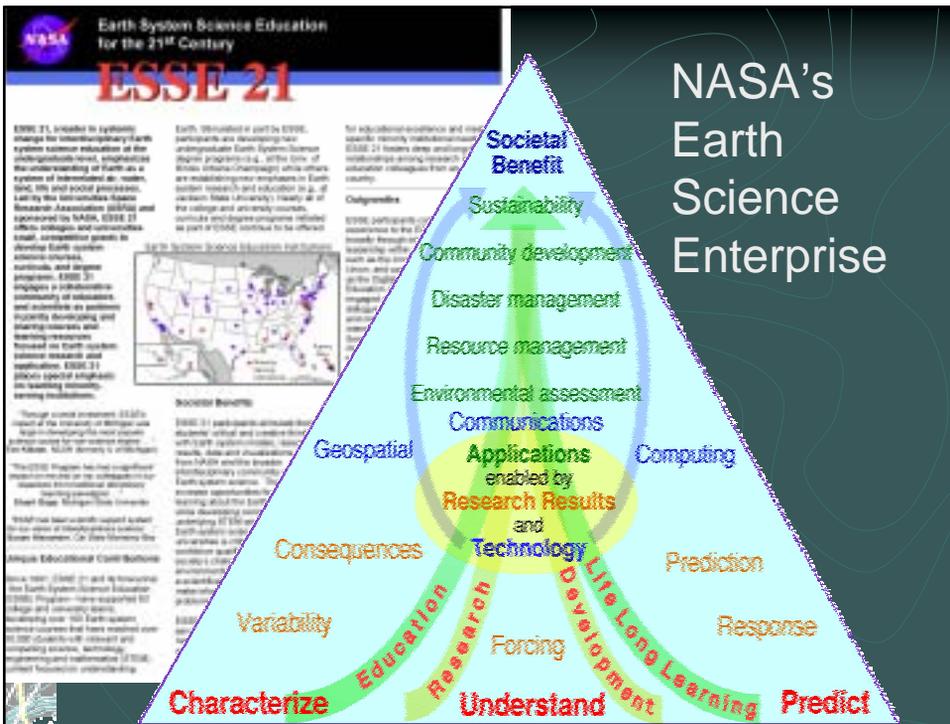
Earth System Science Education

for the 21st Century

- Interdisciplinary and integrated approaches to social research in social work, behavioral medicine, public health, nursing, and other professional settings.
- Flexible program for students to pursue individual interests and specialties.
- **Summer program** designed specifically to meet the needs of college and university faculty who would like to obtain a Ph.D. degree

Biases:
Herpetology
Behavioral ecology

Nick:
Paleomagnetism
sedimentology



Geoinformatics Laboratory

Adding over next 1-2 years **new courses** in:

- Remote Sensing
- Systems modeling
- Applied Earth Systems Science
- Field Courses....and research (Africa, Asia, Latin America, US southwest)

Applied focus:

- Poverty-mapping and social capital
- Community-based natural resource management
- Disaster mitigation and humanitarian relief
- Global health and social policy
- Biodiversity and conservation
- Global change and sustainability

Geoinformatics Lab: Training Research



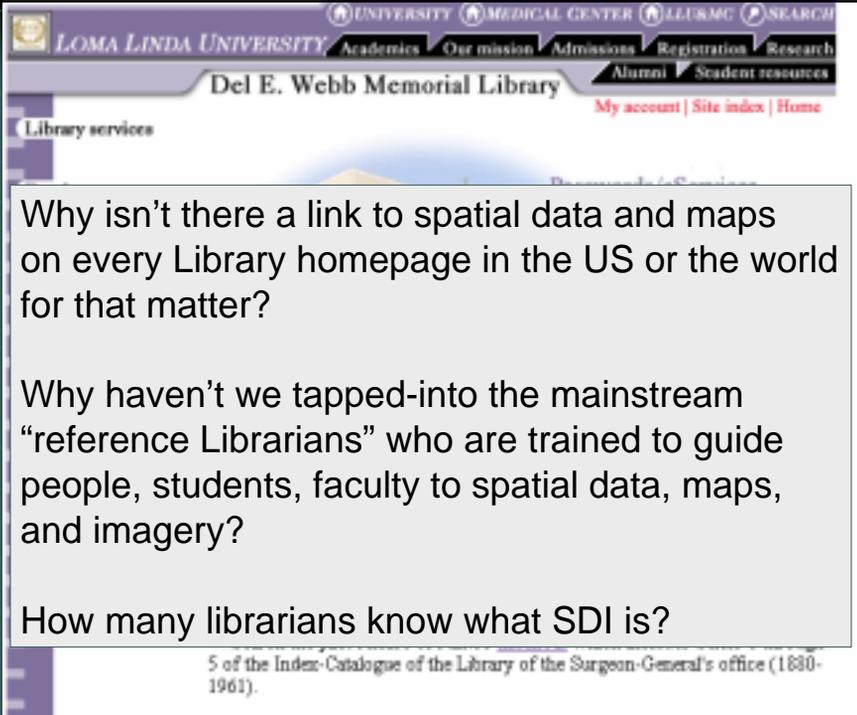
GIS in public health

Geoinformatics technologies offer means to manage and utilize spatial information in natural resources, environment, and human habitat. It serves as a useful tool for national development planning, resource management, disaster management, and environmental monitoring.

GIS brings an innovative approach to public health to enhance the well-being of human population by collecting, organizing, managing, analyzing, displaying, and presenting data about where we live, what we see, and how we live with the ultimate goal of providing optimal solutions to the public's health.

- [SDI in health geography](#)
- [Critical to health geoinformatics available now](#)
- [GIS in public health](#)





UNIVERSITY MEDICAL CENTER LLUMC SEARCH

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Del E. Webb Memorial Library

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Library services

Why isn't there a link to spatial data and maps on every Library homepage in the US or the world for that matter?

Why haven't we tapped-into the mainstream "reference Librarians" who are trained to guide people, students, faculty to spatial data, maps, and imagery?

How many librarians know what SDI is?

5 of the Index-Catalogue of the Library of the Surgeon-General's office (1830-1961).

What is Needed?

- Resources
- Institutional Support
- Training
- Better Tools for Specific Applications—including



The challenge: How do we get the health and sustainable development community more involved in the SDI-building process so that both the poor and vulnerable truly benefit as well as decision-makers?

Thank you... CONTACT:



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