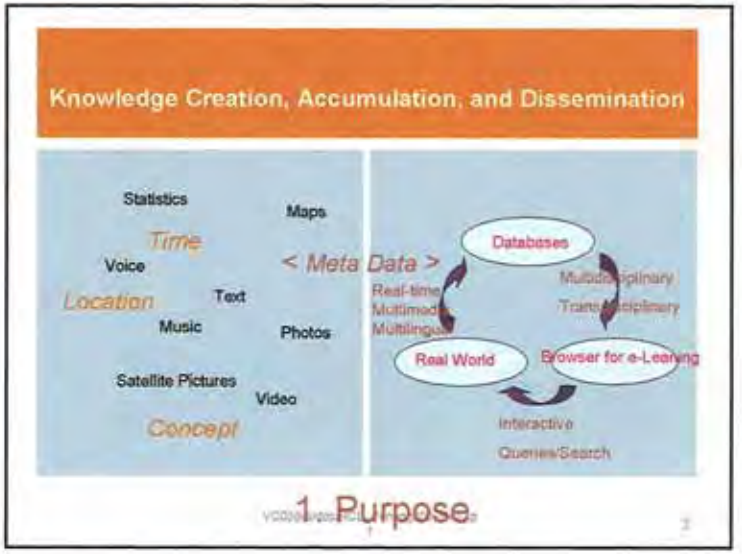
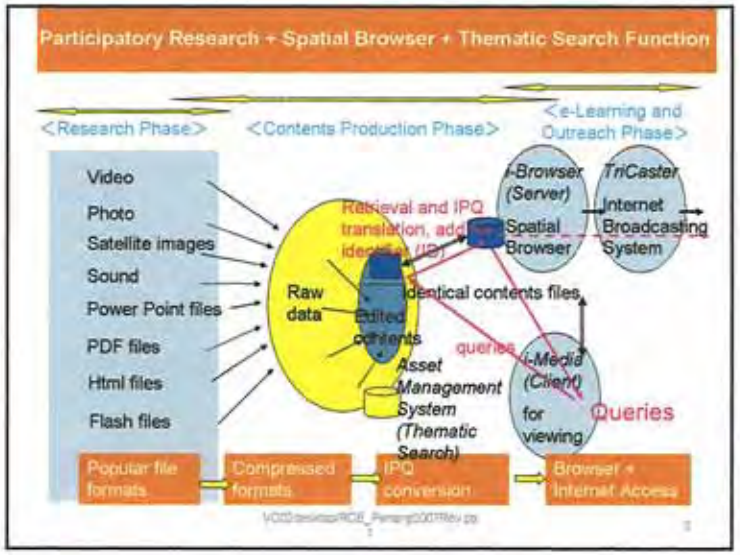
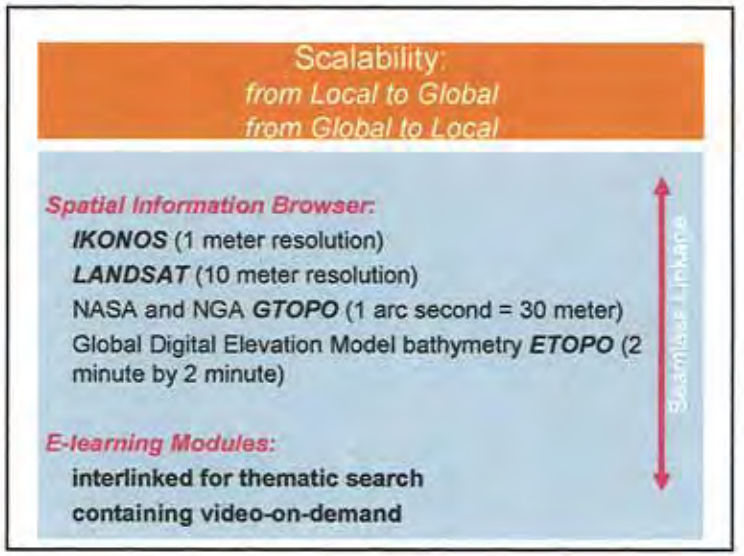
ASIA PACIFIC INITIATIVE
RCE Service Center Server Prototype
International Conference on Regional Centres of Expertise (RCEs) on Education for Sustainable Development
August 2007
Penang, Malaysia


Knowledge Creation, Accumulation, and Dissemination
Statistics
Maps
Time
Voice
< Meta Data >
Location
Text
Music
Photos
Satellite Pictures
Video
Concept
Databases
Real-time
Multimedia
Multilingual
Multidisciplinary
Transdisciplinary
Real World
Browser for e-Learning
Interactive
Queries/Search
1 Purpose


Participatory Research + Spatial Browser + Thematic Search Function
<Research Phase>
<Contents Production Phase>
<e-Learning and Outreach Phase>
Video
Photo
Satellite images
Sound
Power Point files
PDF files
Html files
Flash files
Raw data
Edited contents
Retrieval and IPQ translation, add identifiers (ID)
i-Browser (Server)
Spatial Browser
TriCaster
Internet Broadcasting System
identical contents files
queries
Asset Management System (Thematic Search)
i-Media (Client) for viewing
Queries
Popular file formats
Compressed formats
IPQ conversion
Browser + Internet Access


Scalability:
from Local to Global
from Global to Local
Spatial Information Browser:
IKONOS (1 meter resolution)
LANDSAT (10 meter resolution)
NASA and NGA GTOPO (1 arc second = 30 meter)
Global Digital Elevation Model bathymetry ETOPO (2 minute by 2 minute)
E-learning Modules:
interlinked for thematic search
containing video-on-demand
Seamless Linkage

Linkage with On-going Activities is the Engine for Progress

[Knowledge Stock, year 1]

Joint Project as the *Engine* for progress

Joint Curriculum for Learning

Outreach for Sharing

<New Participants>

<New Technology>

[Knowledge Stock, year 2]

Incentives for Dynamism

1. Issue-oriented approach
2. Specialization and integration
3. Network-based knowledge creation and sharing by ICT, shortening time lags
4. Multimedia tools enhance effectiveness
5. Seamless linkage from local to global

Web Server is for access over Internet and for ***thematic search***

- http://apiproject.heteml.jp/

Multimedia Browser Server

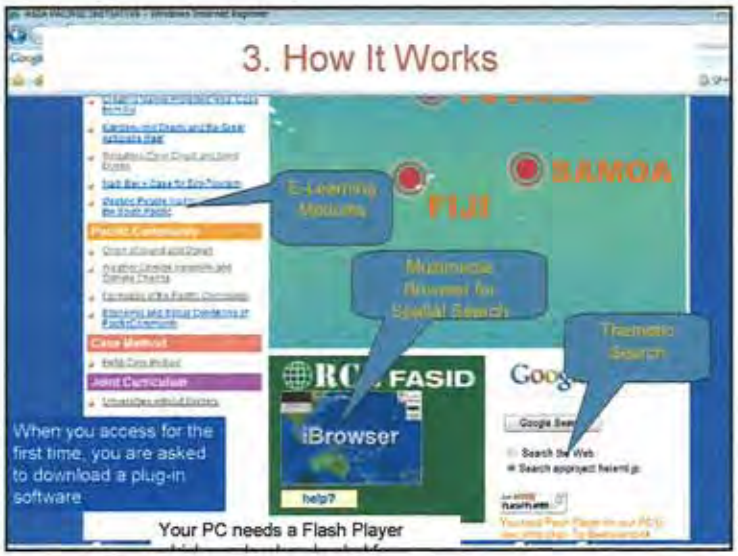
(or iBrowser) can be accessed by clicking on the iBrowser button on the first page of the Web site ;

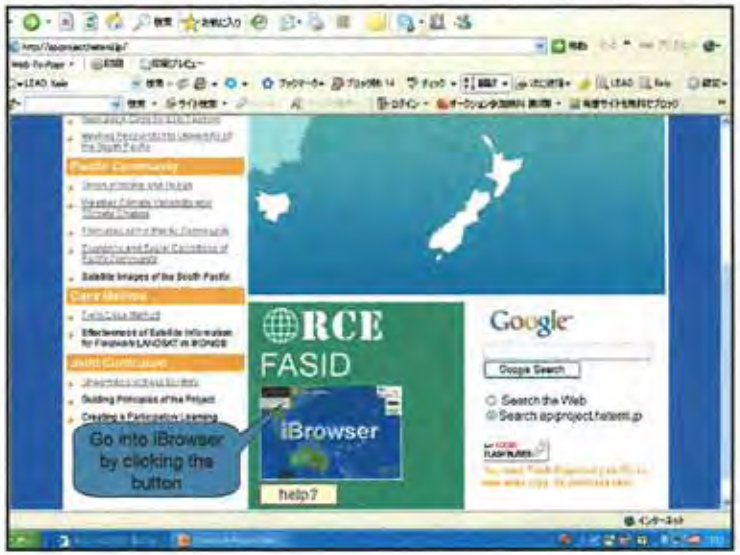
It contains multimedia contents for ***spatial search***

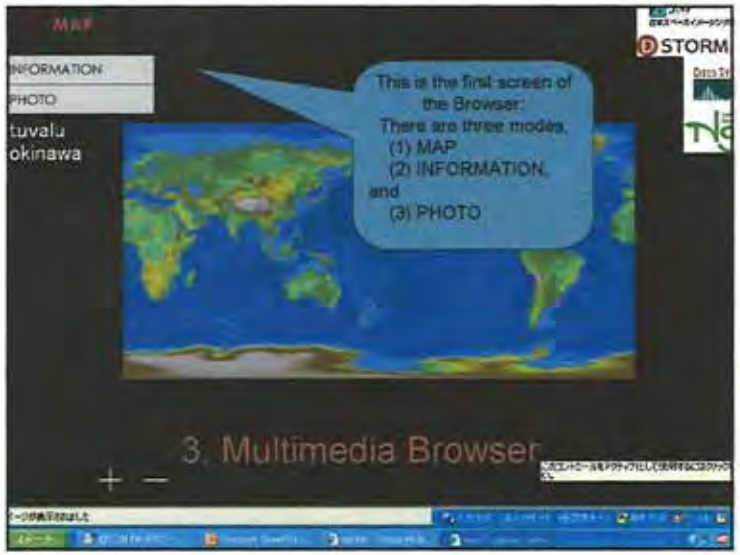
Raw data with meta data

2. Server Structure and Access

3. How It Works



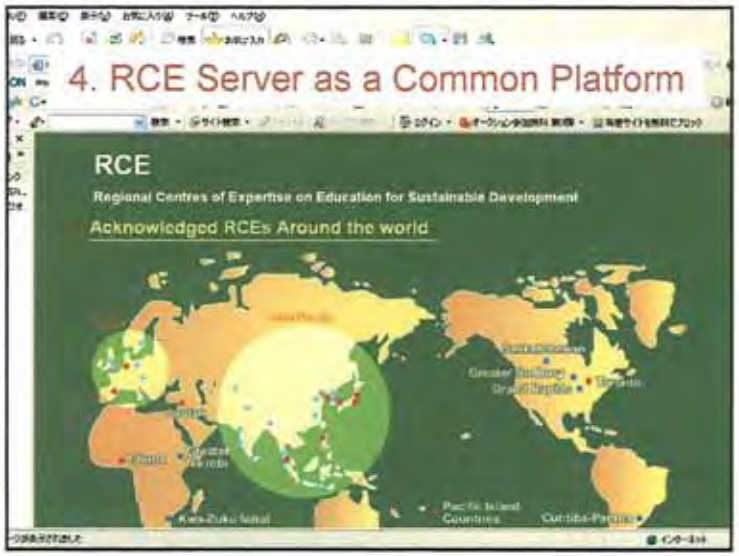


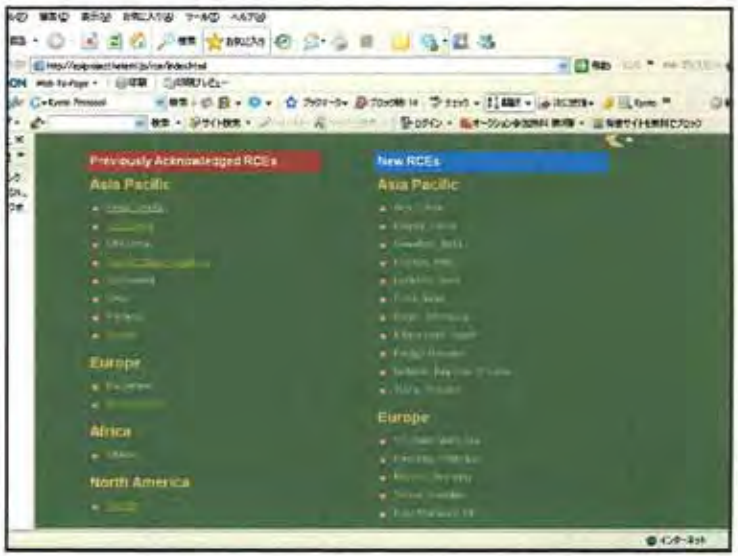

MAP
INFORMATION
PHOTO
tuvalu
okinawa
STORM
This is the first screen of the Browser:
There are three modes,
(1) MAP
(2) INFORMATION,
and
(3) PHOTO
3. Multimedia Browser

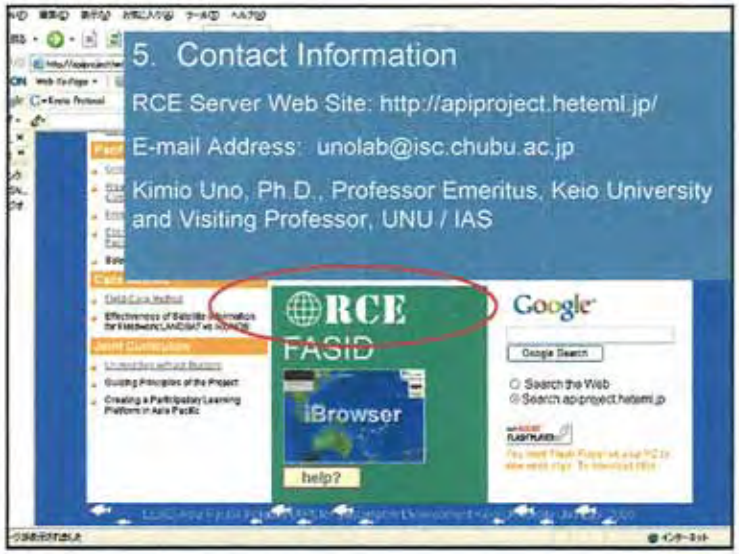
Zoom in to Fiji (LANDSAT pictures)
Red squares indicate more detailed information is available (IKONOS pictures)

Detailed image of Nadi Bay, Fiji

Zooming-in
Click to zoom in


4. RCE Server as a Common Platform
RCE
Regional Centres of Expertise on Education for Sustainable Development
Acknowledged RCEs Around the world


Previously Acknowledged RCEs
Asia Pacific
Europe
Africa
North America
New RCEs
Asia Pacific
Europe


5. Contact Information
RCE Server Web Site: http://apiproject.heteml.jp/
E-mail Address: unolab@isc.chubu.ac.jp
Kimio Uno, Ph.D., Professor Emeritus, Keio University
and Visiting Professor, UNU / IAS
RCE
FASID
iBrowser
help?
Google
Google Search
Search the Web
Search apiproject.heteml.jp