

**Benchmarking The
Pacific Islands
OMIP Conference
Orlando, 2004**

May 7, 2004



Benchmarking

- The Benchmark System
- The Use of the Benchmark
- Training the Islands to use the Benchmark



What is Benchmarking?

- Creation of a Baseline or “Benchmark”
- Establish Current Condition
- Measure Change

“The Yardstick”



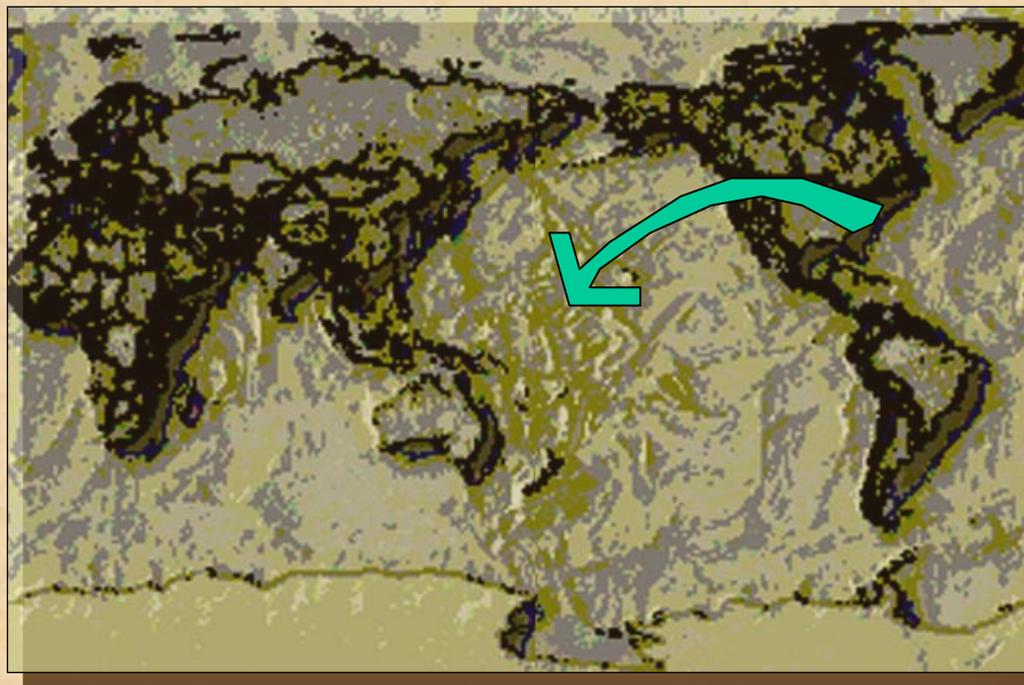
Use to the Government

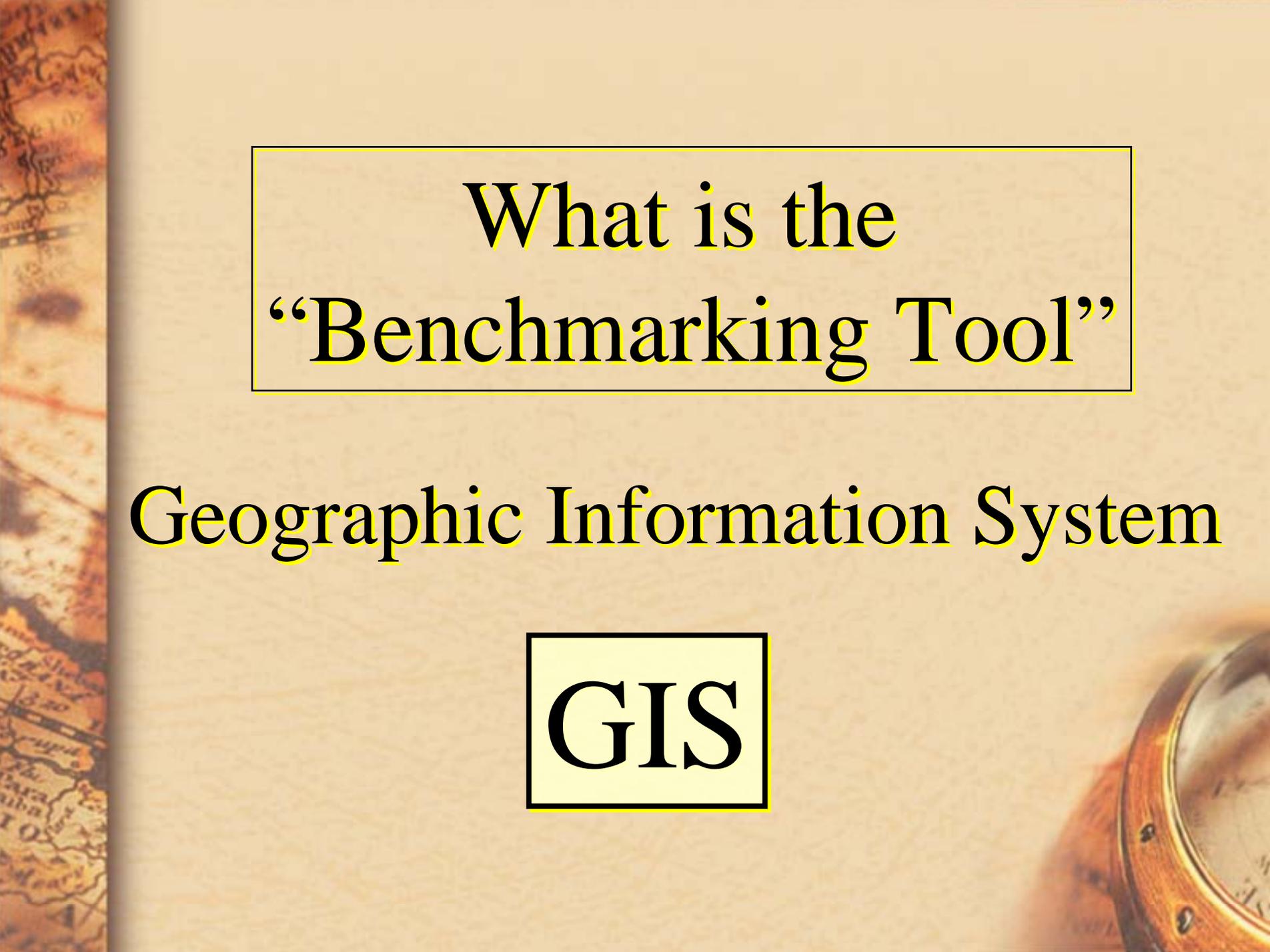
- Identify the Capital Assets
- Document Current Conditions
- Tool for Measuring Change





- DOI In Washington DC
 - Tool to Understand existing Conditions
 - Identification of Infrastructure Projects





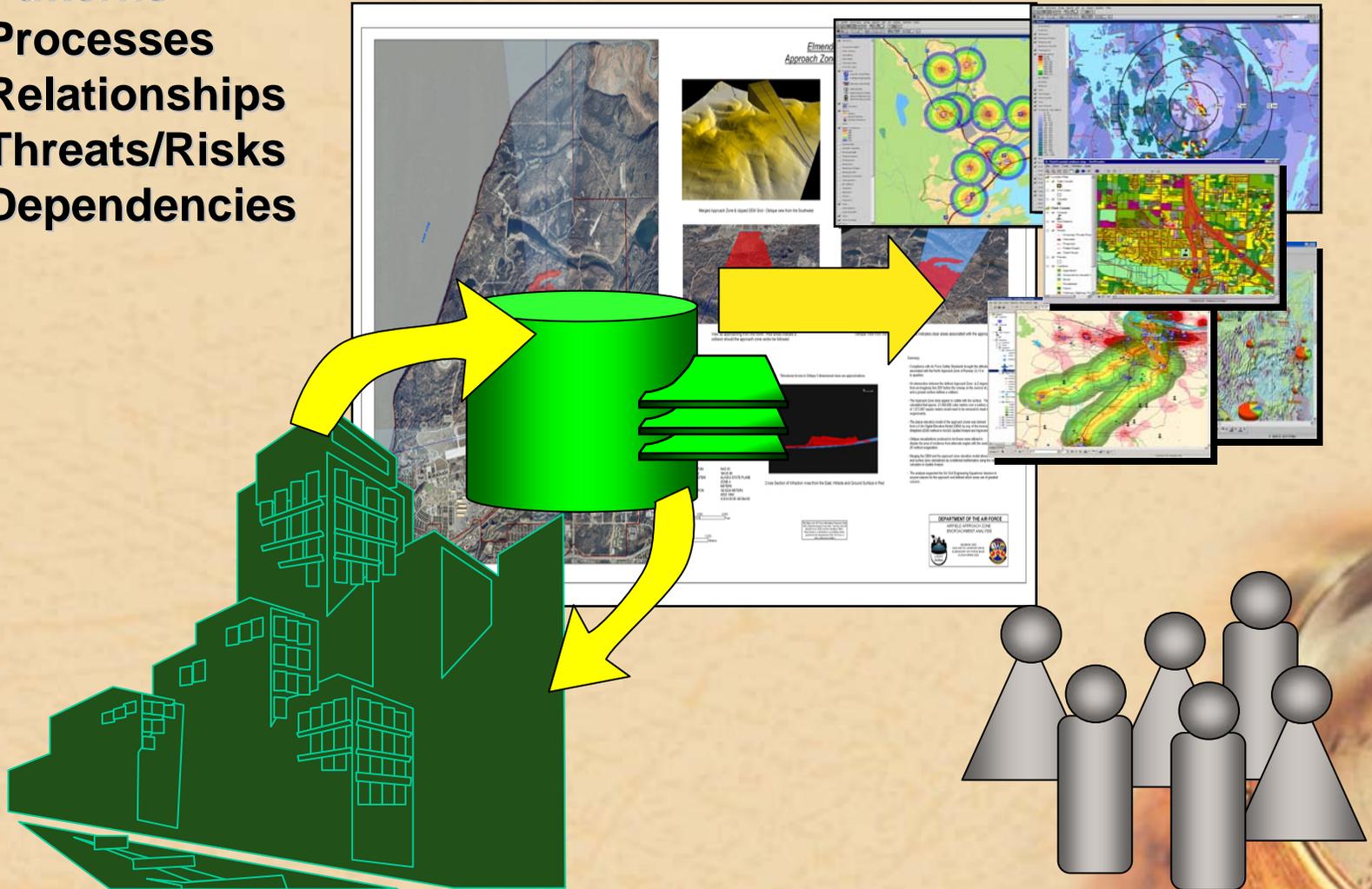
What is the
“Benchmarking Tool”

Geographic Information System

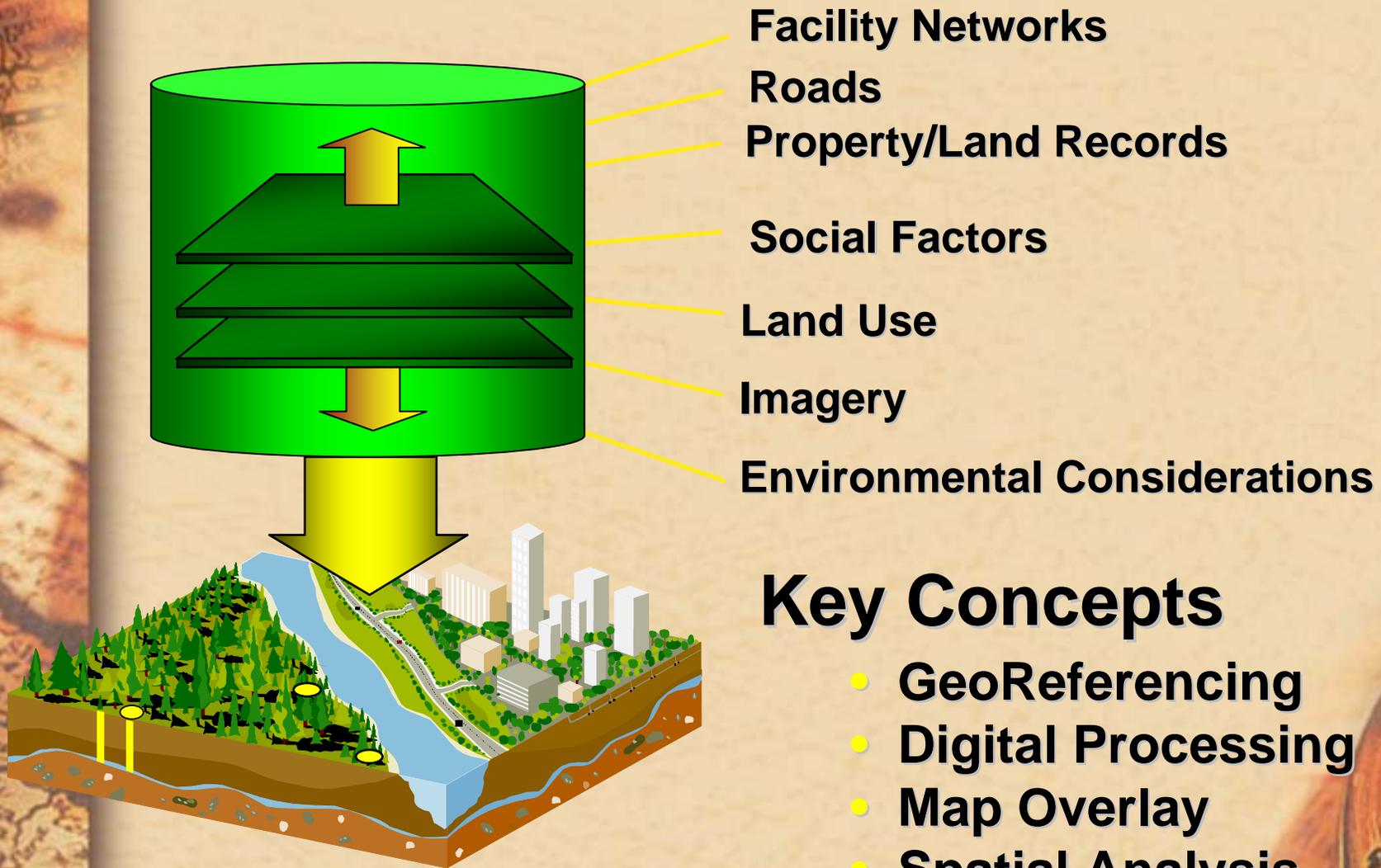
GIS

Understanding What's Going On

- Resources
- Patterns
- Processes
- Relationships
- Threats/Risks
- Dependencies



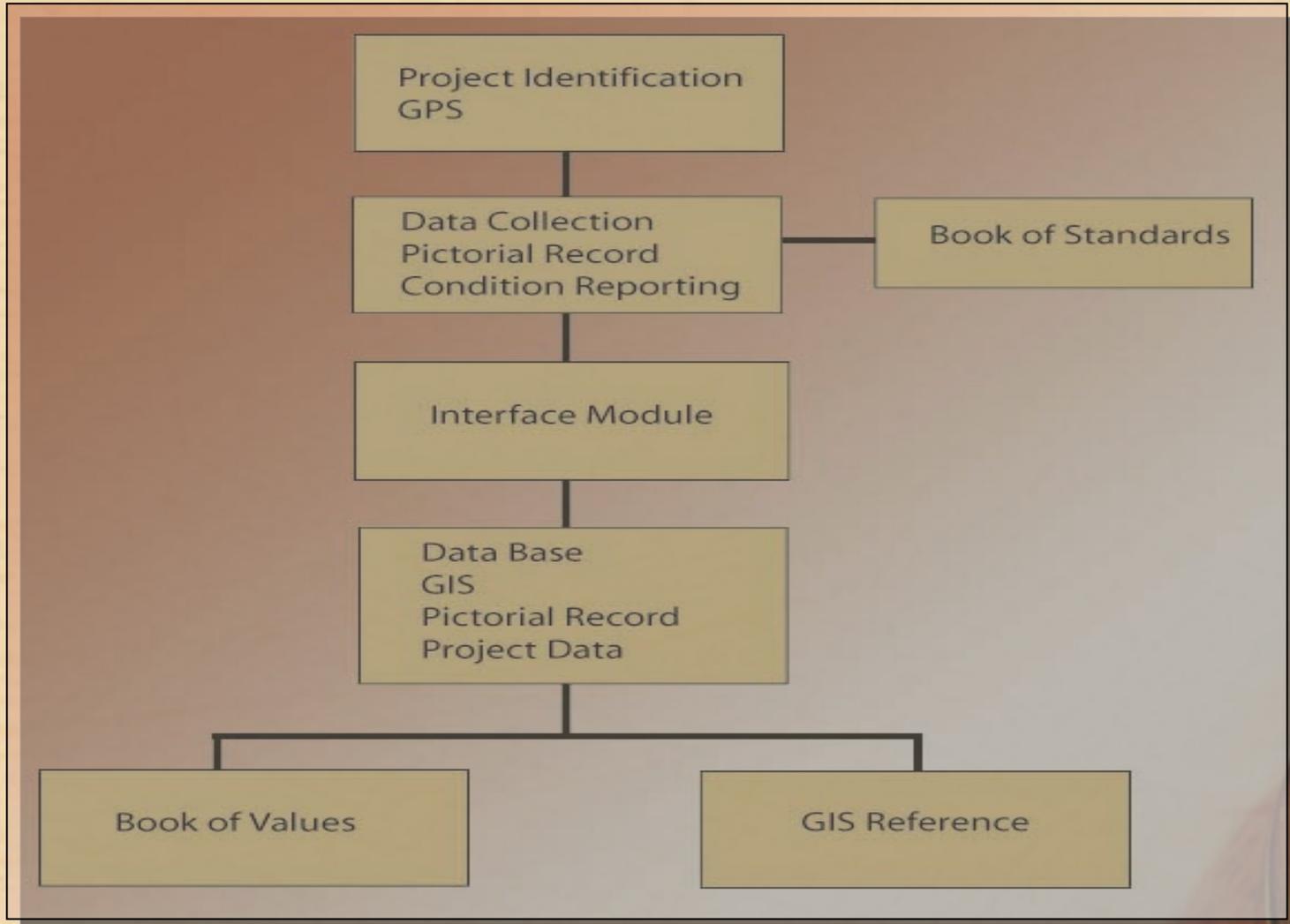
Information Integration



Key Concepts

- GeoReferencing
- Digital Processing
- Map Overlay
- Spatial Analysis
- Visualization

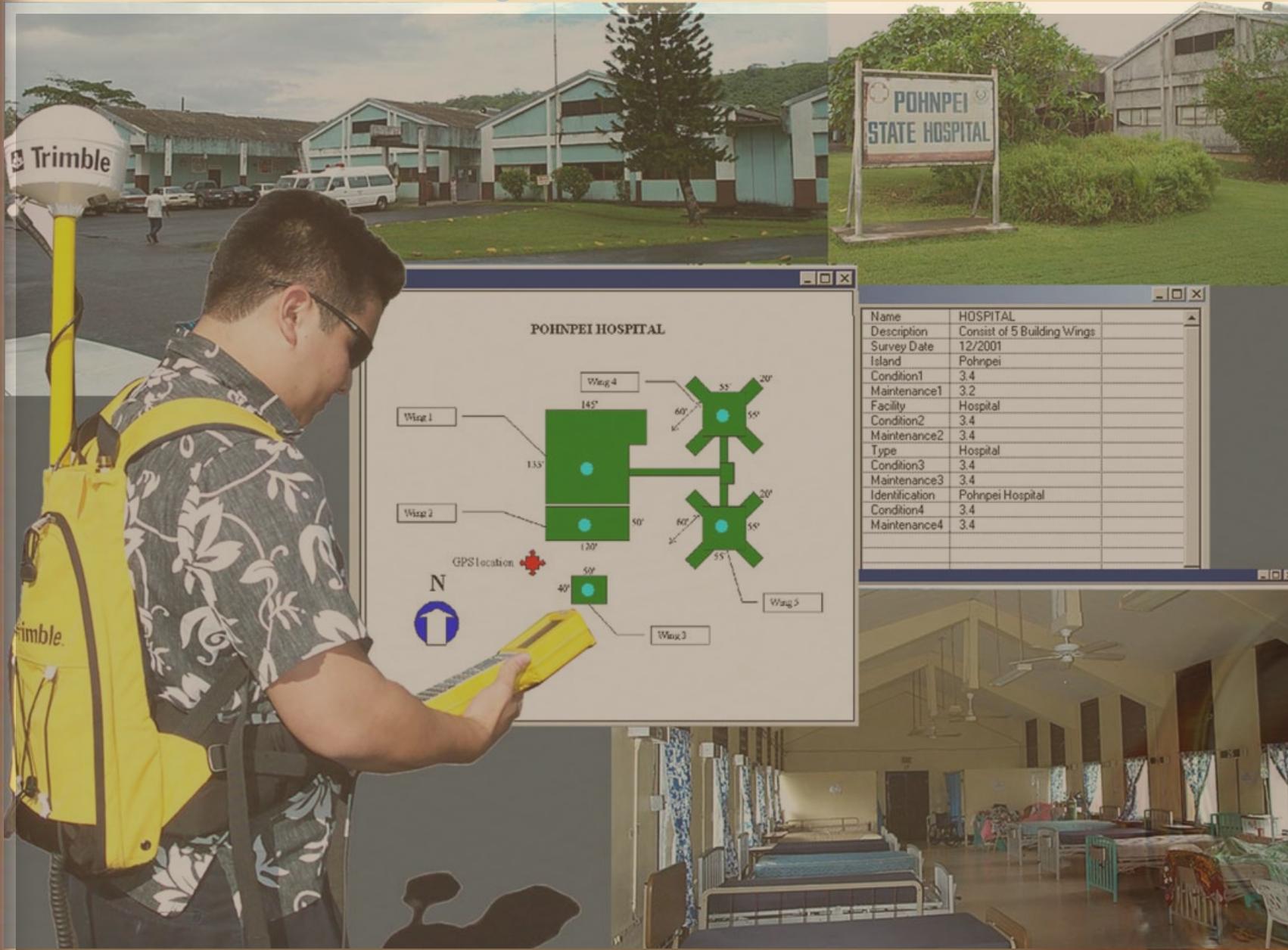
Benchmarking



Mapping The Islands



Field Survey



The Yardstick

Condition Rating

1	• Needs Replacement
2	• Poor Condition
3	• Average Condition
4	• Good Condition
5	• New

Maintenance Rating

1	• Not Maintained
2	• Poor Maintenance
3	• Average Maintenance
4	• Well Maintained
5	• New

Book of Standards

AIRPORTS

ROADS

HARBORS

GOVERNMENT BUILDINGS

SCHOOLS

HOSPITALS

SOLIDWASTE



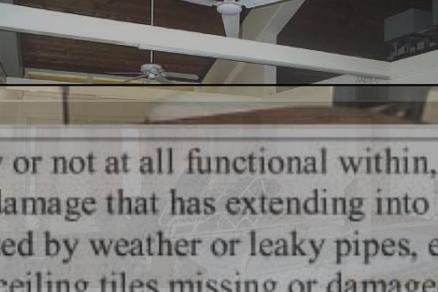
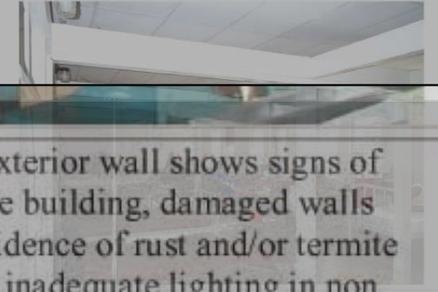
Study To Establish Benchmark Criteria And
Assign Benchmarks For The U.S. Insular Areas
February 2004

Book of Standards

- Airports
- Roads
- Harbors
- Government Buildings
- Schools
- Hospitals
- Solid Waste

Book of Standards

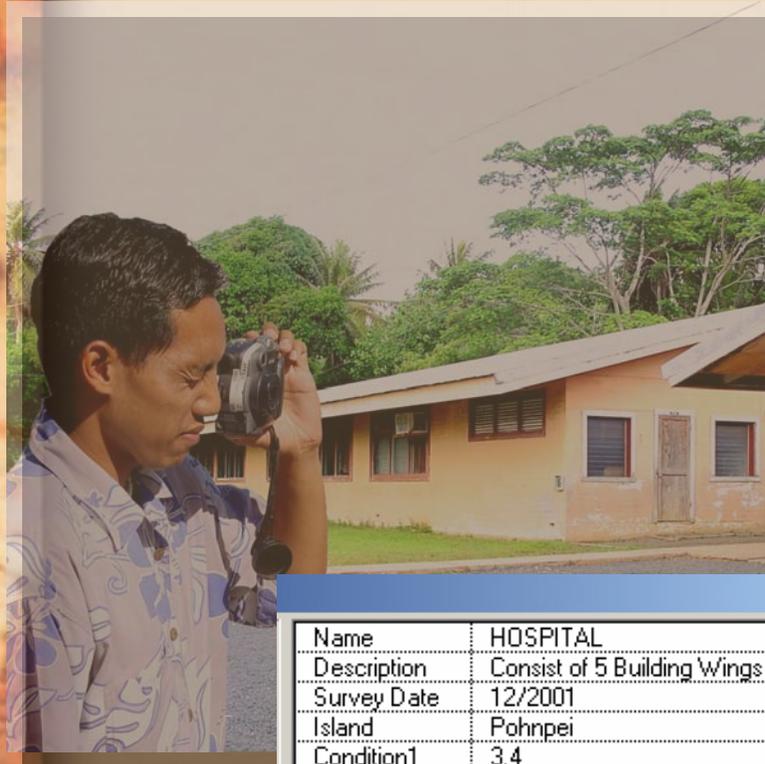
Study to Establish Benchmark Criteria BOOK OF STANDARDS HOSPITAL BUILDINGS

RATING #5	RATING #4	RATING #3
 <p>Completely functional within, exterior wall shows no signs of weather damage, painted finishes as originally installed, no rust or termite damage, wall texture and finish intact, ceiling tiles intact, no discoloration or corners missing, adequate lighting, medical gases are properly stored and ready for usage, controlled environment, maintenance program</p>	 <p>Remotely or not at all functional within, exterior wall shows signs of weather damage that has extending into the building, damaged walls deteriorated by weather or leaky pipes, evidence of rust and/or termite damage, ceiling tiles missing or damaged, inadequate lighting in non surgical areas, ceiling fans no longer functional</p>	 <p>Reasonably functional within, exterior wall shows beginning signs of weather damage, minor abrasions to walls, beginning evidence of rust and/or termite damage, wall texture and finish slightly worn, some discoloration or corners missing on ceiling tiles, lighting primarily provided from outside, medical gases are properly stored and ready for usage, ceiling fans and select areas with controlled environments</p>

RATING #2	RATING #1
 <p>Completely functional within, exterior wall shows no signs of weather damage, painted finishes as originally installed, no rust or termite damage, wall texture and finish intact, ceiling tiles intact, no discoloration or corners missing, adequate lighting, medical gases are properly stored and ready for usage, controlled environment, maintenance program</p>	 <p>Remotely or not at all functional within, exterior wall shows signs of weather damage that has extending into the building, damaged walls deteriorated by weather or leaky pipes, evidence of rust and/or termite damage, ceiling tiles missing or damaged, inadequate lighting in non surgical areas, ceiling fans no longer functional</p>

RATING CLASSIFICATION: Medical/Surgical/Dental Wards, Laboratories.

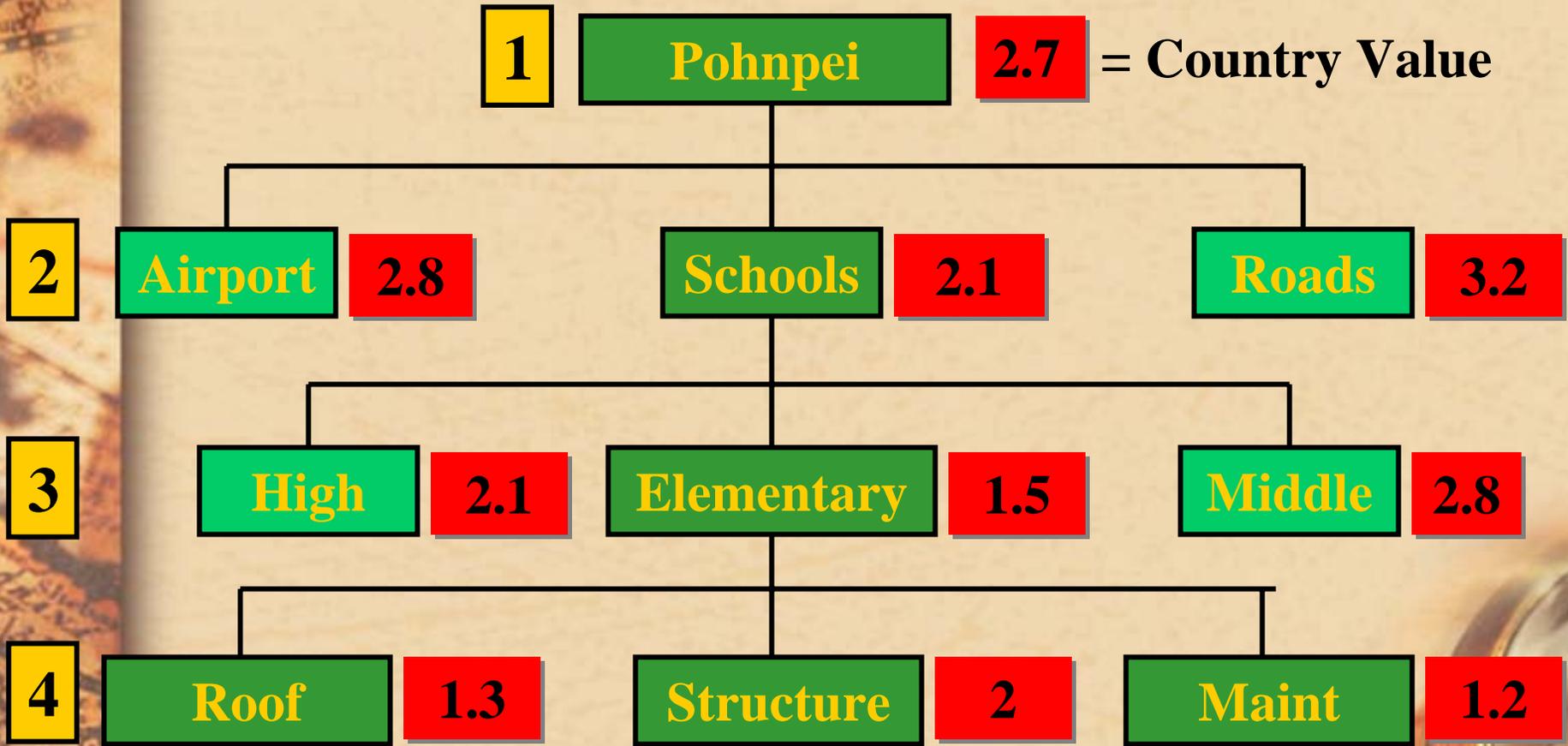
Data Collection and Rating



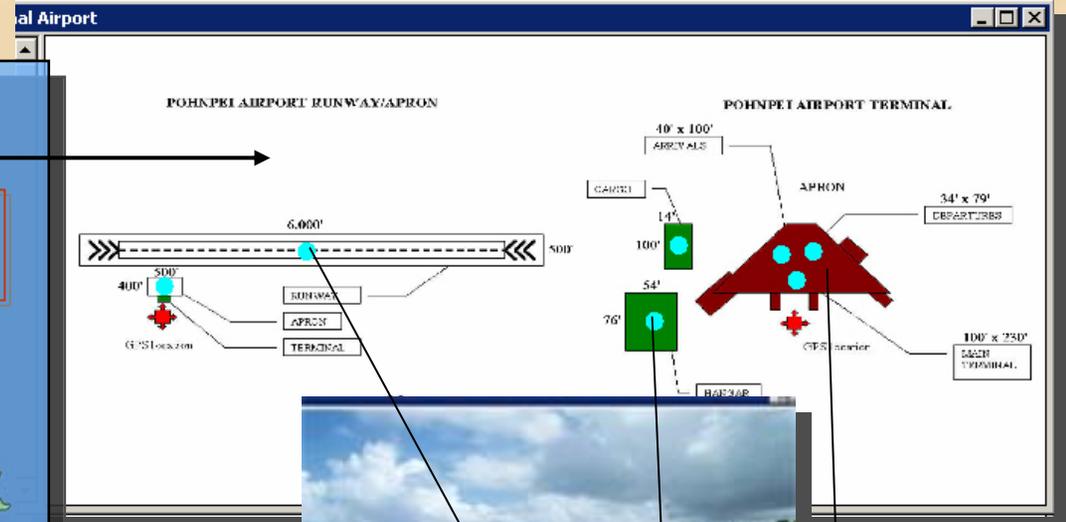
Facility	Weighing Factor	Y/N	Points
Facility Type: Harbor			
Facility ID: Koror Harbor			
Element: Dock A			
Condition Rating			
Is the wharf condition in good condition?		<input type="checkbox"/>	0.00
Is there a spill control plan?		<input type="checkbox"/>	0.00
Is there fire protection?		<input type="checkbox"/>	0.00
Is there silt control?		<input type="checkbox"/>	0.00
Are there adequate ware housing?		<input type="checkbox"/>	0.00
Are the ware housing refrigerated?		<input type="checkbox"/>	0.00
Is there shore power?		<input type="checkbox"/>	0.00
Is there a storm protection program?		<input type="checkbox"/>	0.00
Is there a maintenance facility for ships and boats?		<input type="checkbox"/>	0.00
Total Condition Rating			0.00
Observer Rating			
<input type="checkbox"/> Excellent			0.00
<input type="checkbox"/> Good			0.00
<input type="checkbox"/> Fair			0.00
<input type="checkbox"/> Poor			0.00
Observer Total Rating			0.00
Maintenance Rating			
Is there a preventative maintenance program instituted?		<input type="checkbox"/>	0.00
Is there a trained maintenance staff on-site or assigned?		<input type="checkbox"/>	0.00
Is there a procedure in place for user to request maintenance services?		<input type="checkbox"/>	0.00
Is there an inventory of maintenance and repair parts?		<input type="checkbox"/>	0.00
Is emergency maintenance service available within 12 hours?		<input type="checkbox"/>	0.00
Maintenance Total Rating			0.00
Observer Rating			
<input type="checkbox"/> Excellent			0.00
<input type="checkbox"/> Good			0.00
<input type="checkbox"/> Fair			0.00
<input type="checkbox"/> Poor			0.00
Observer Total Rating			0.00
Total Condition Rating			1
Total Maintenance Rating			1

Name	HOSPITAL
Description	Consist of 5 Building Wings
Survey Date	12/2001
Island	Pohnpei
Condition1	3.4
Maintenance1	3.2
Facility	Hospital
Condition2	3.4
Maintenance2	3.4
Type	Hospital
Condition3	3.4
Maintenance3	3.4
Identification	Pohnpei Hospital
Condition4	3.4
Maintenance4	3.4

Values

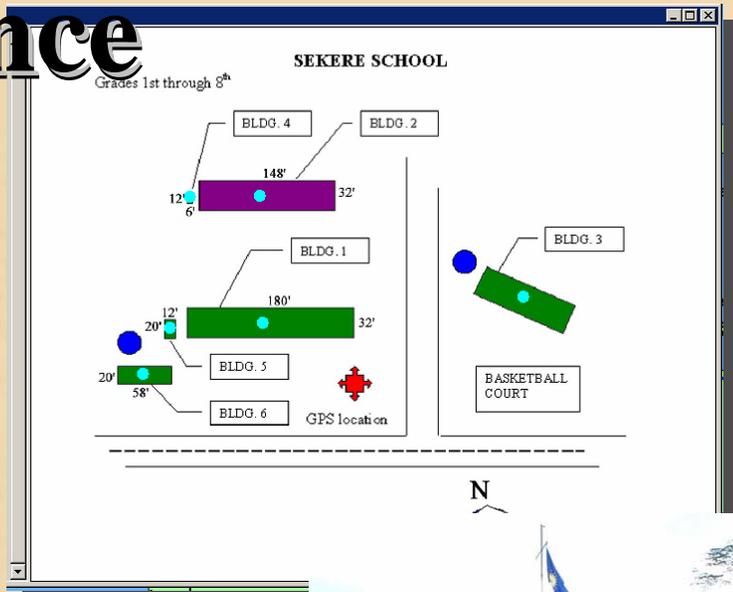
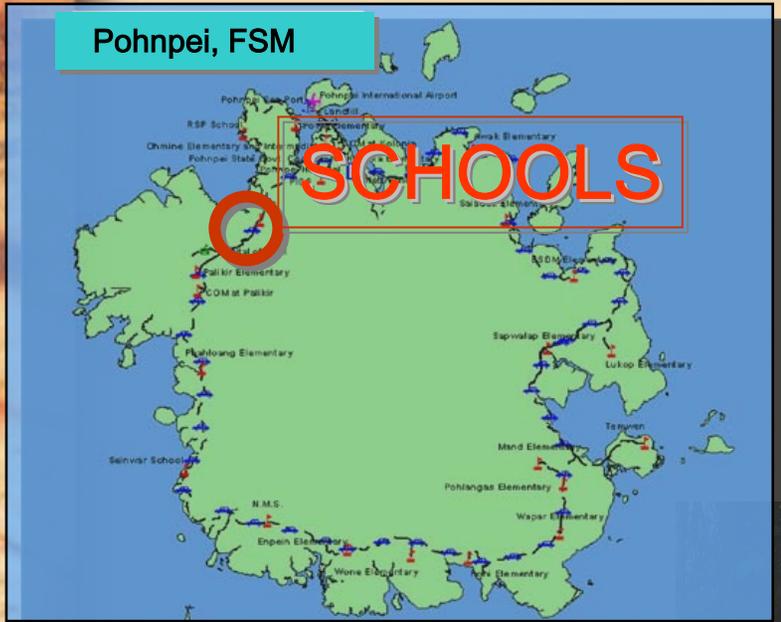


Visual Reference



Name	AIRPORT
Description	Consist of 4 Building Structures and a Runway
Survey Date	12/2001
Island	Pohnpei
Condition1	3.4
Maintenance1	3.2
Facility	Airport
Condition2	4.0
Maintenance2	3.0
Type	Airport
Condition3	4.0
Maintenance3	3.0
Identification	Pohnpei International Airport
Condition4	4.0
Maintenance4	3.0

Visual Reference



Name	SEKERE
Description	Consist of 6 Building Structures, Grades 1st through 8th
Survey Date	12/2001
Island	Pohnpei
Condition1	3.4
Maintenance1	3.2
Facility	School
Condition2	3.5
Maintenance2	3.3
Type	Elementary
Condition3	3.0
Maintenance3	2.6
Identification	Sekere
Condition4	2.8
Maintenance4	2.0



Training Course

Palau Community College

- On Island Training
 - Excel
 - Access
 - Programming
- GIS Training at Palau Community College
 - GIS – ESRI ArcView Training
 - Benchmarking Training

Training the Users

Study To Establish Benchmark Criteria And
Assign Benchmarks For The U.S. Insular Areas

Lesson Plan

April 16, 2004

AIRPORTS
ROADS
HOSPITALS
HARBORS
GOVERNMENT BUILDINGS
SCHOOLS
SOLIDWASTE



Palau Benchmarking Training Course

- **Tools:**
 - **Global Positioning – GPS**
 - **Digital Photography**
 - **Range Finder**
- **Rating System**
 - **Book of Standards**
 - **Checklists**
- **Data Assimilation**
 - **Interface Module**

Benchmarking Pacific Briefing



INTERNATIONAL

