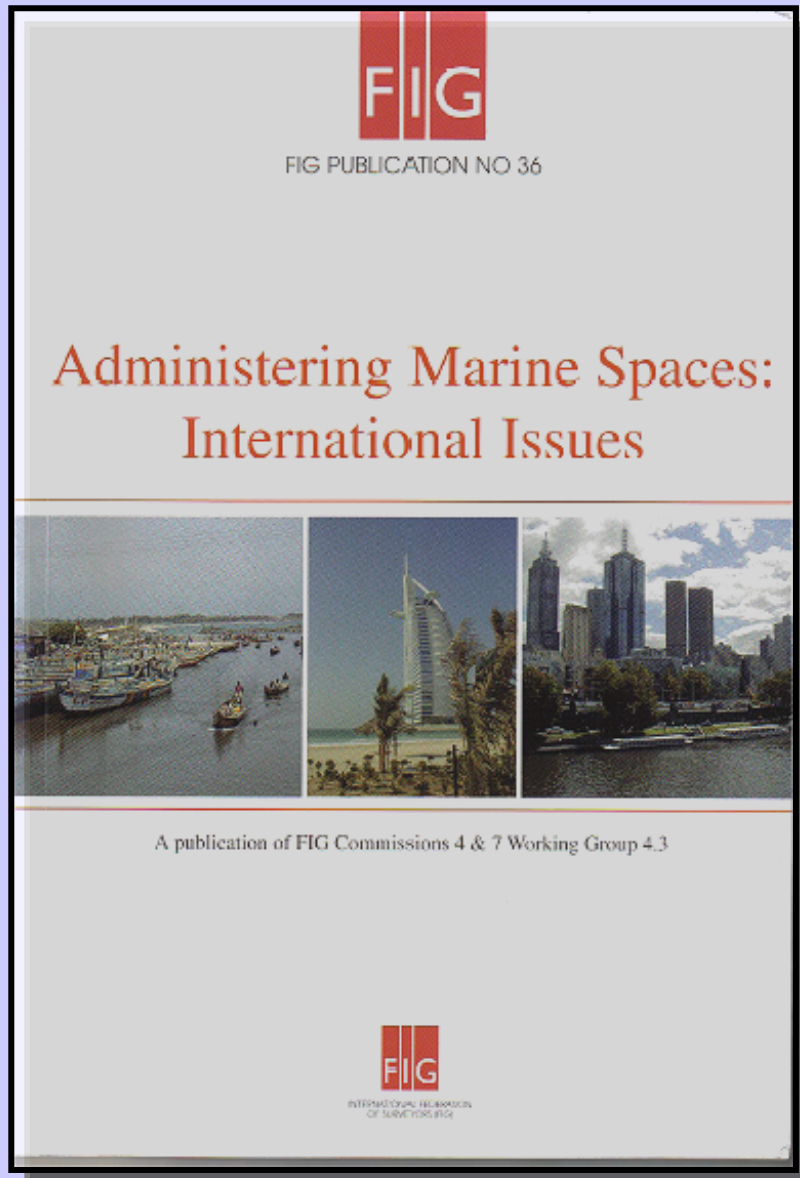




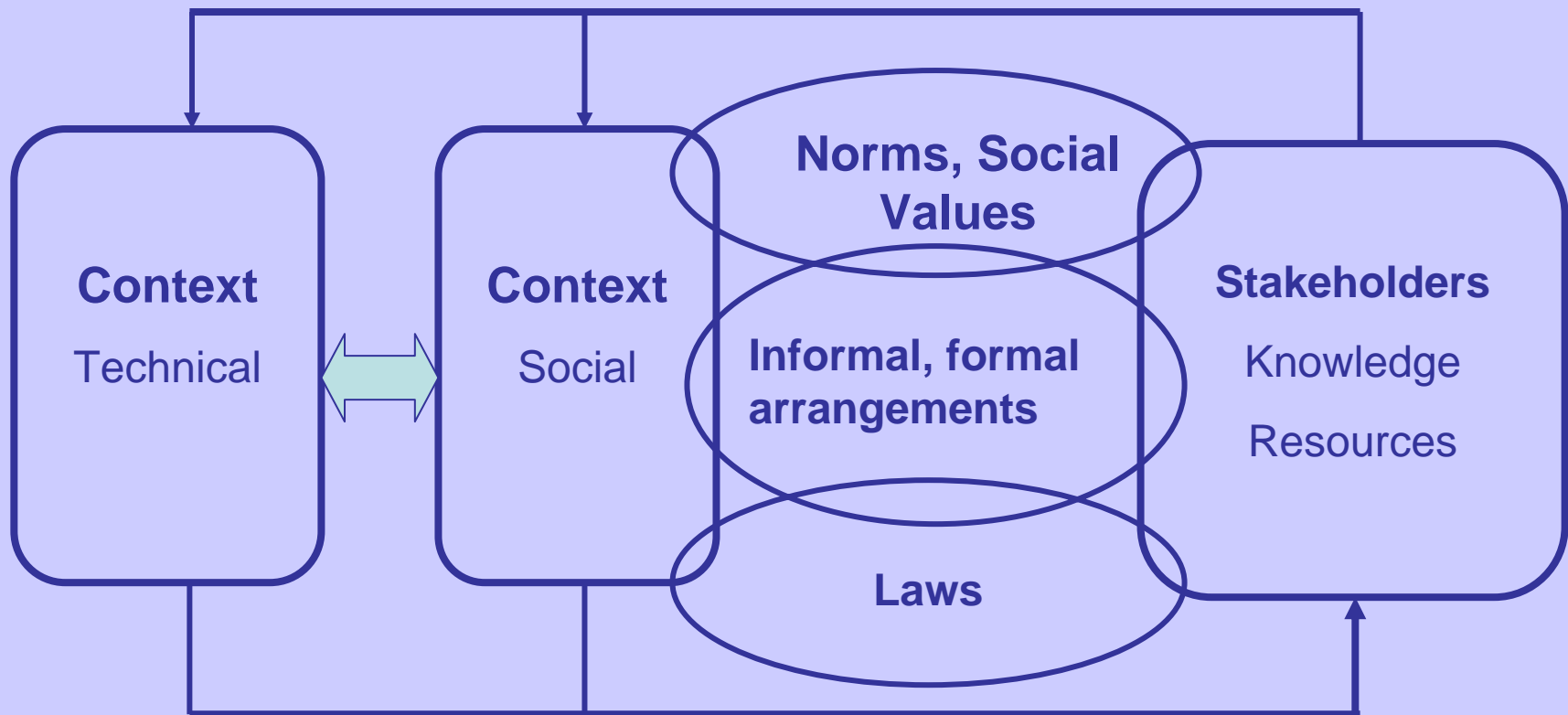
INTERNATIONAL ISSUES IN ADMINISTERING MARINE SPACES

INTERNATIONAL ISSUES IN ADMINISTERING MARINE SPACES



- **General discussion of issues**
- **Asia and Pacific Region**
- **Europe**
- **North America**
- **Africa**
- **Small Island Developing States**

The Governance Challenge



From Paquet and Wilkins, 2002

Many Types of Information

Water Quality
Bathymetry
Spatial Extents
Property Rights
Marine Contaminants
Seabed Characteristics
Shoreline Changes

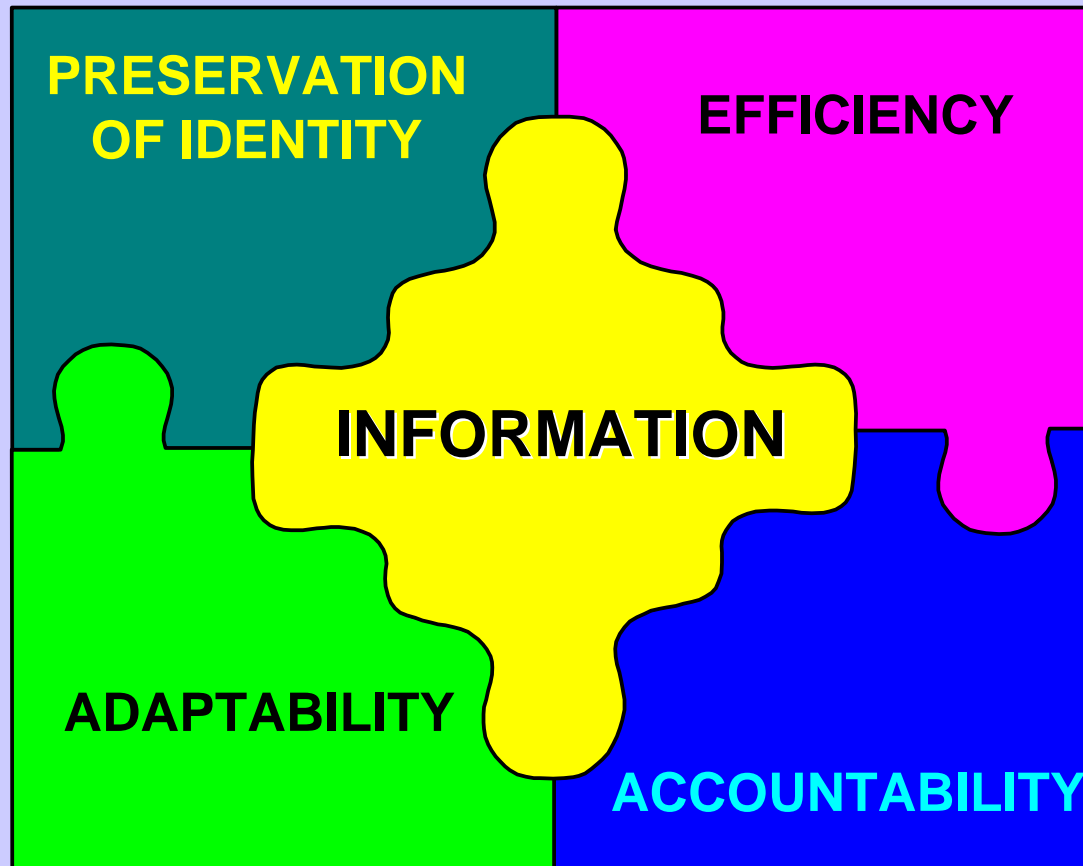
Accurate

Up-to-date

Complete

Good Governance

Needs Accurate, Complete, Up-to-date Information



From Paquet and Wilkins, 2002

Stakeholder Identification

Addressing:

Lack of knowledge

Government silos

Single issue focus

Property rights uncertainties

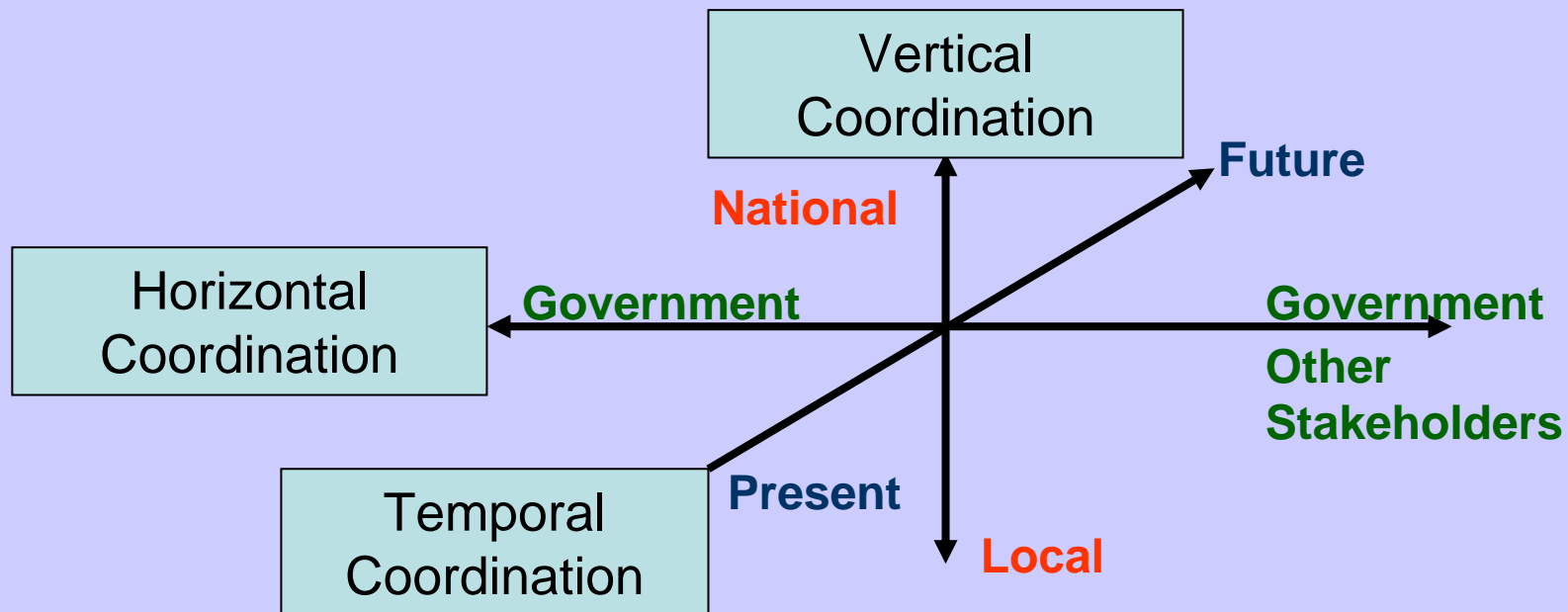
Jurisdictional uncertainties, gaps, and overlaps

Stakeholder Engagement and Input

Addressing:

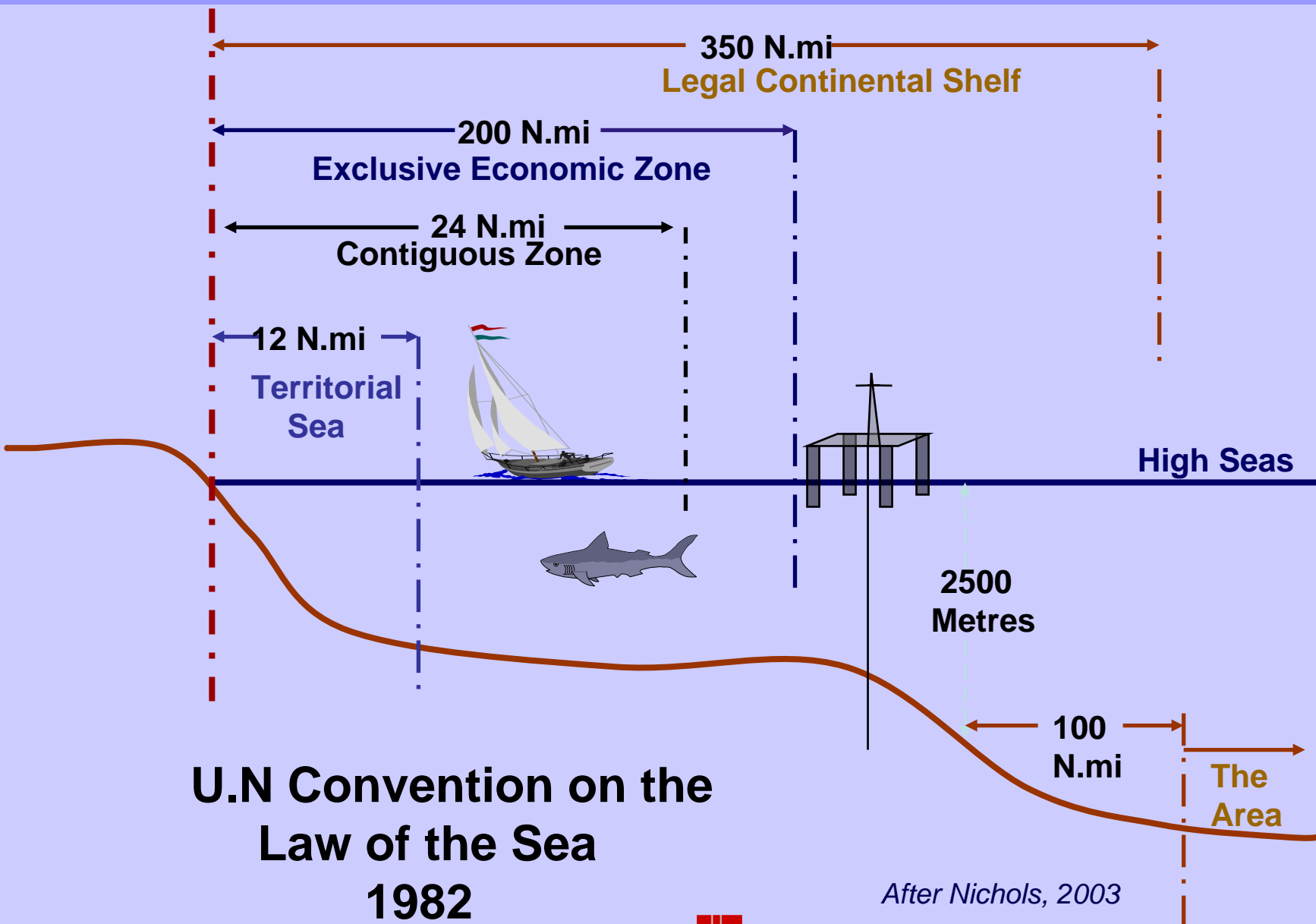
Genuine consultation

Collaboration, coordination, cooperation, integration ...



After Prescott [1985]

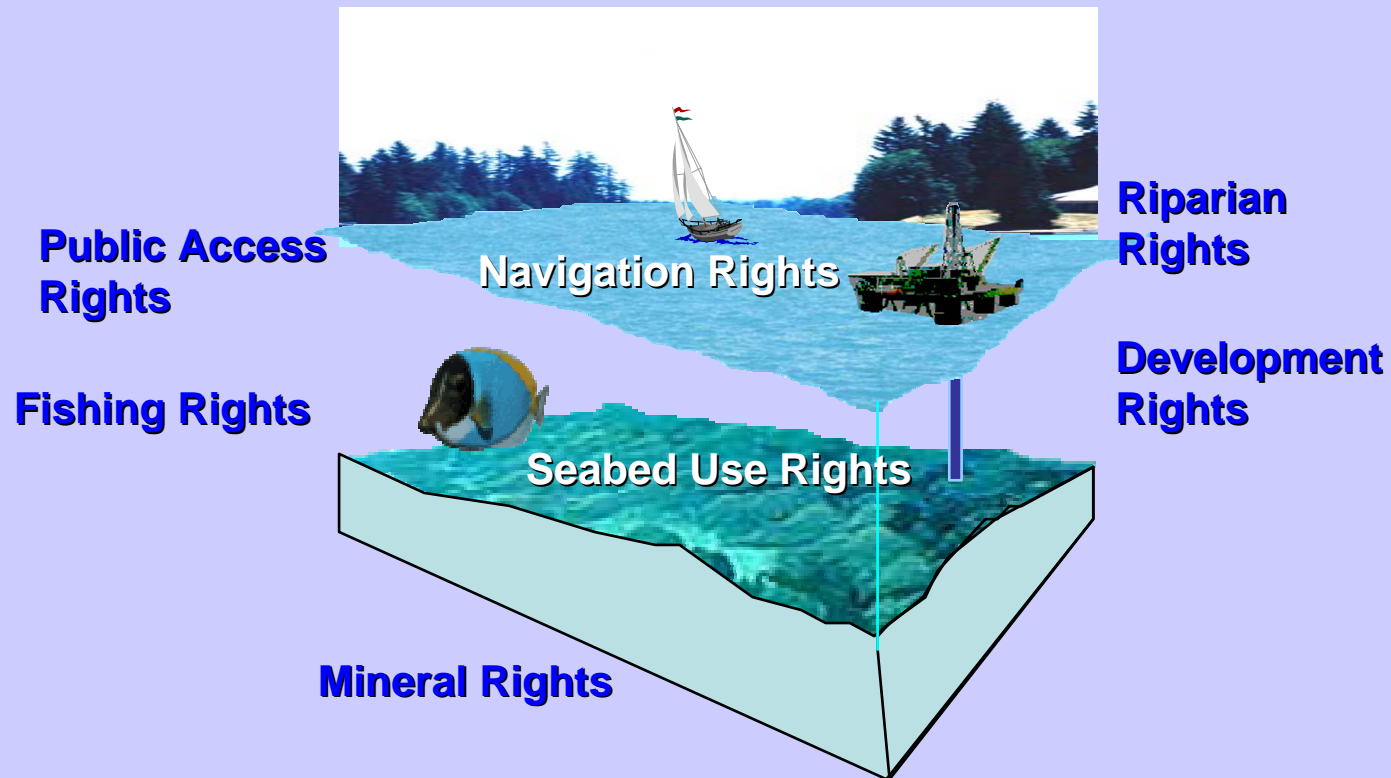
- **Sovereignty**
- **Legislative jurisdiction**
- **Administrative authority**
- **Complex private and public rights**
- **Overlaps and gaps**
- **Boundaries: not defined or ill-defined**



U.N Convention on the Law of the Sea 1982

After Nichols, 2003

Many Other Types of Marine Boundaries



After Sutherland, 2001-05

Higher High Water, Large Tides (HHWLT)

**Higher High Water,
Mean Tides (HHWMT)***

*Average, Medium
or Mean High
Water (MHW)*

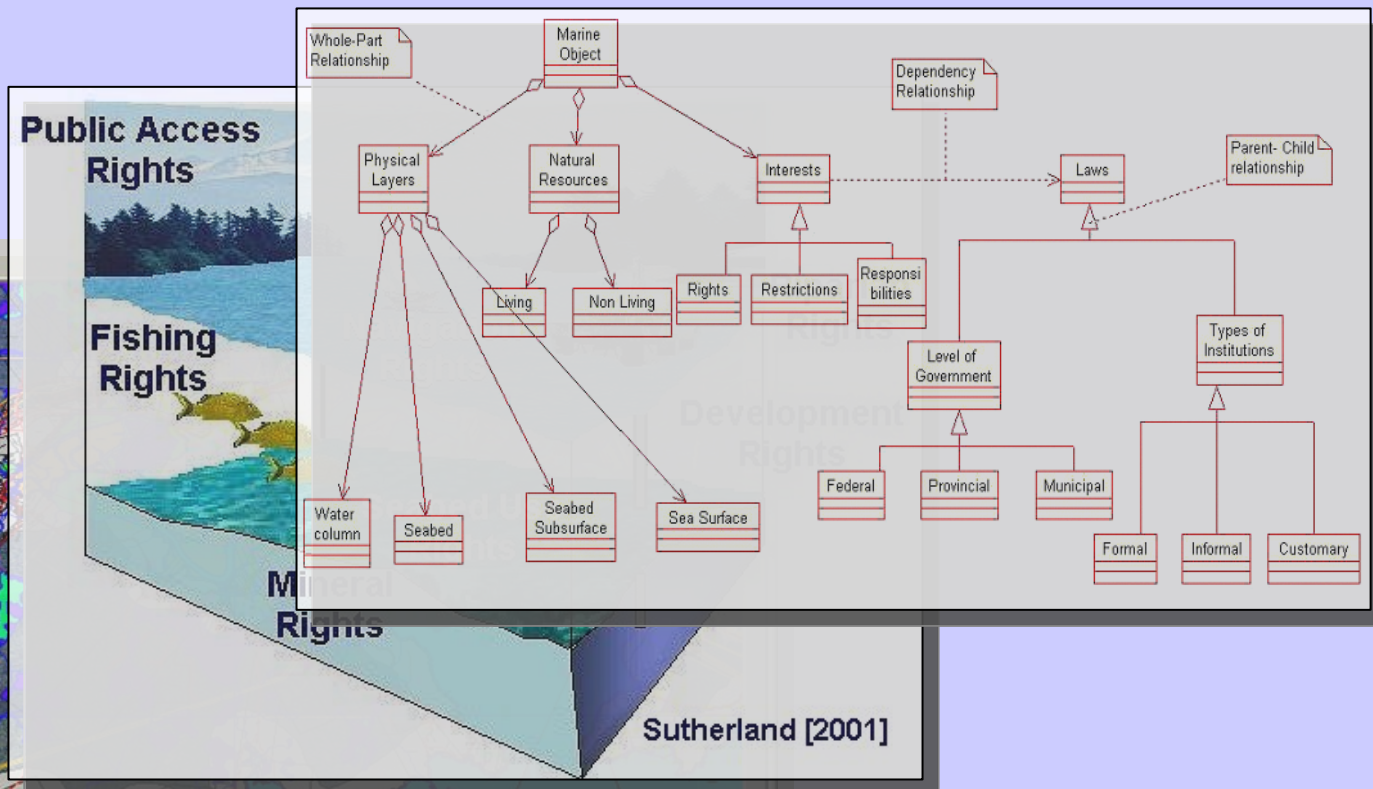
Lower High Water

*Mean Sea
Level (MSL)*

*Average, Medium
or Mean Low
Water (MLW)*

**Lower Low Water, Large Tides (LLWLT)*
Canadian Chart Datum**

Surfaces (shown in
Italics) are for reference
only

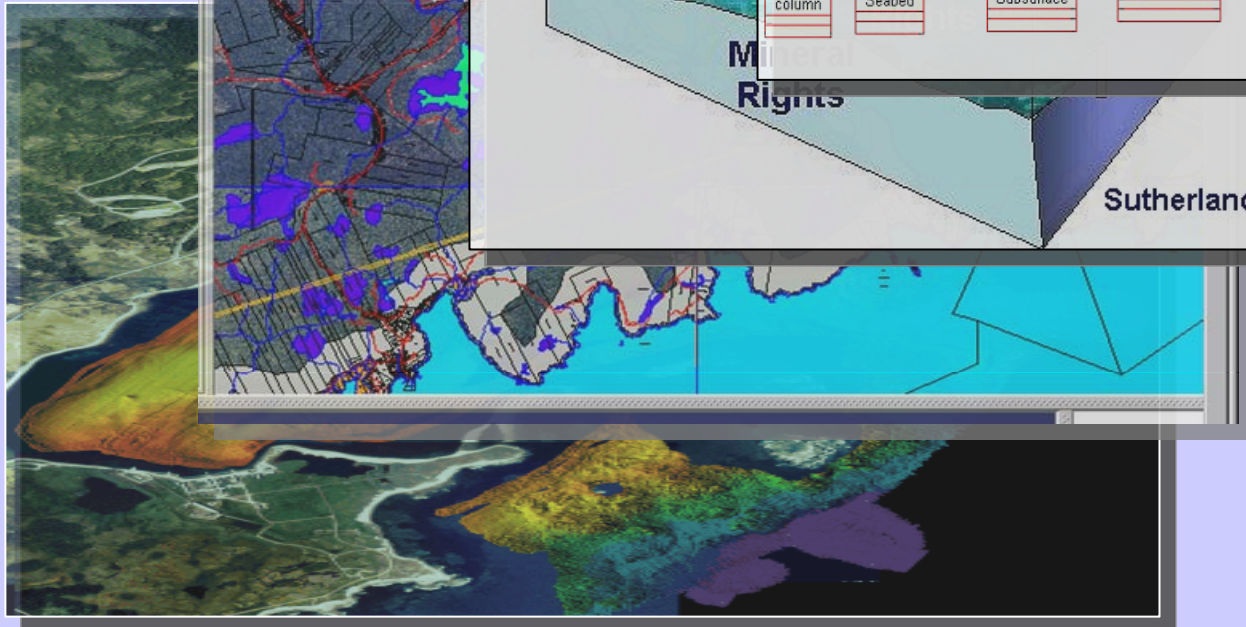


Public Access Rights

Fishing Rights

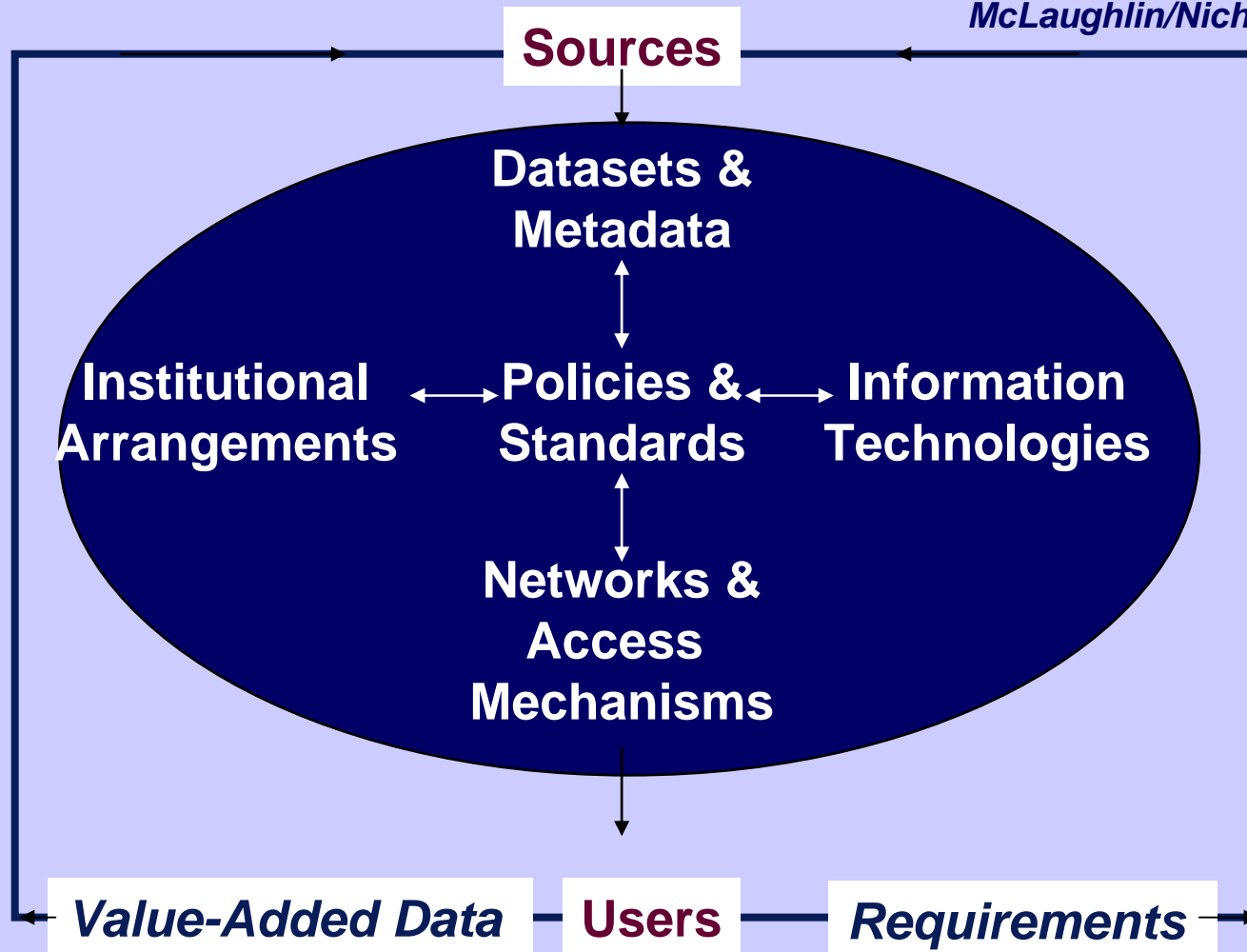
Mineral Rights

Sutherland [2001]



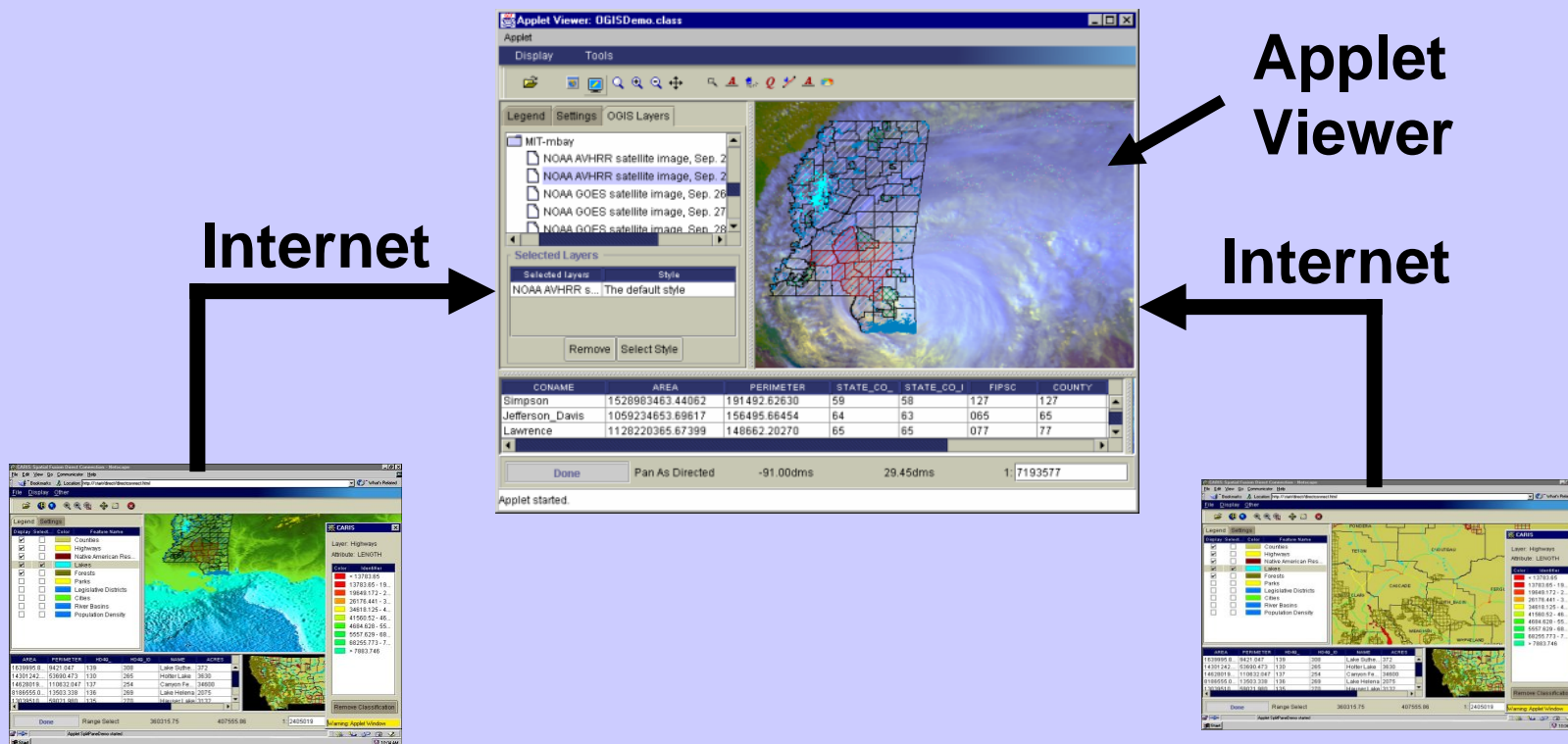
Marine Cadastre - Part of a Marine Geo-Spatial Data Infrastructure (MGDI)

McLaughlin/Nichols [1993]



Web-GIS / Mapping Technologies

e.g., CARIS Spatial Fusion; ArcIMS etc.



Applet Viewer

Internet

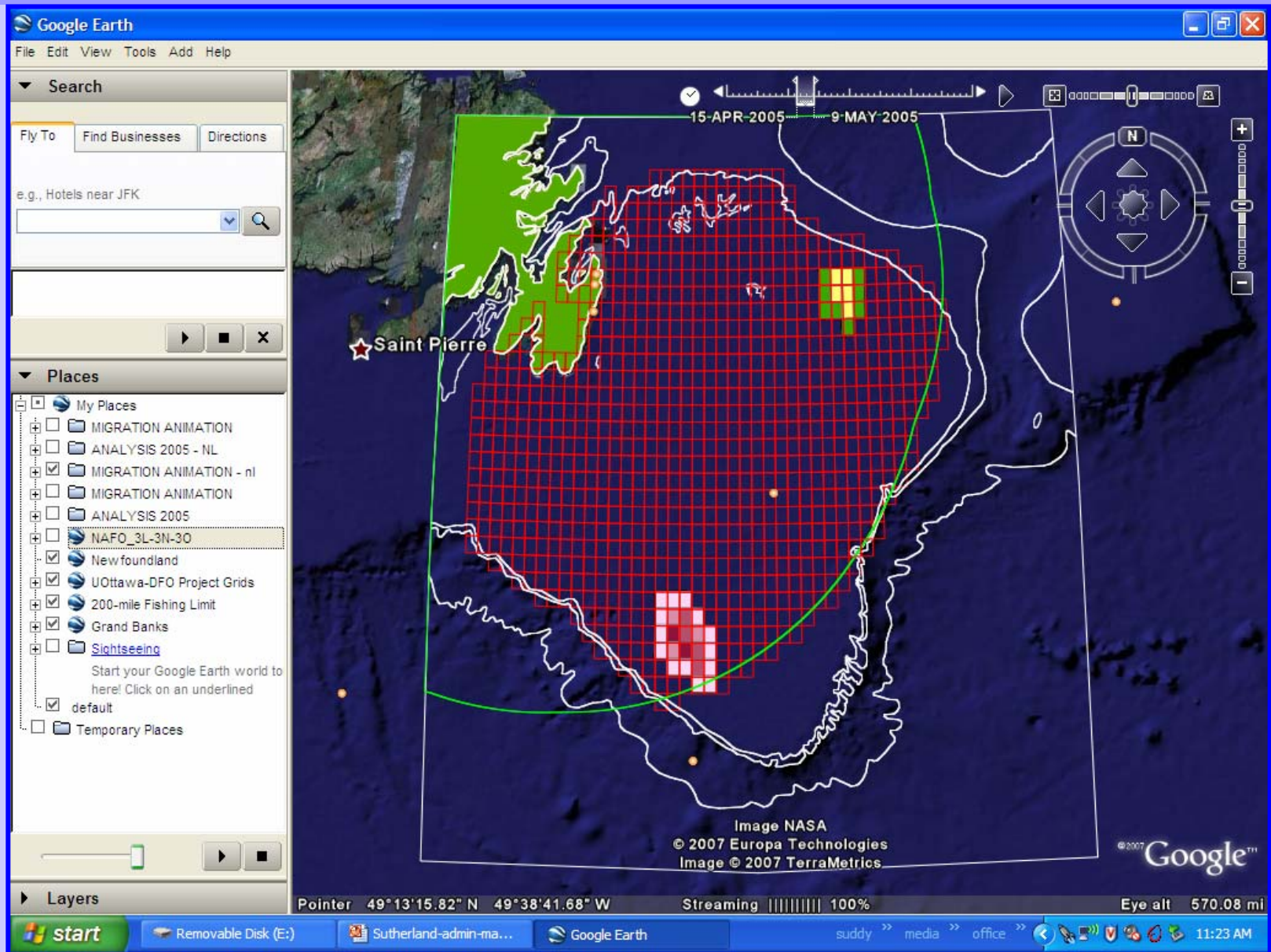
Internet

Source 1

- Caris files
- ESRI shape files

Source X

- Oracle 8i
- Orthophotography



INTRODUCTION

COMMISSION 4 PUBLICATION

GOVERNANCE

STAKEHOLDER ISSUES

LEGAL ISSUES

TECHNICAL ISSUES

DISCUSSION

LEGAL ISSUES

GOVERNANCE ISSUES

TECHNICAL
ISSUES

STAKEHOLDER ISSUES

THANK YOU

