

# **SUSTAINABLE MANAGEMENT OF ISLANDS' LIFE AND ENVIRONMENT**



**SMILE**

*To live is to choose. But to choose well, you must know who you are and what you stand for, where you want to go and why you want to get there.*

*(Kofi Annan)*

**This is about...**

**EXPLORATION**

**MOBILIZATION**

**COMMITMENT/VOLUNTEERISM**

# Assumptions

- No one is as smart as all of us
- Knowledge and skills are available; need to put them together
- People are willing to work for common good
- Search for significance in our profession
- Desire to make lasting contribution
- To find answers, ask questions

***“Our biggest challenge in this new century is to take an idea that seems abstract - sustainable development - and turn it into a reality for all the world’s people.”***

***(Kofi Annan, Secretary General of the United Nations, March 14, 2001, Bangladesh)***



**THE CHALLENGE  
OF SUSTAINABILITY  
AN ACTION AGENDA FOR  
THE GLOBAL ENVIRONMENT**

*Kofi Annan  
U.N. Secretary General  
September 2002*

**Economic and social needs are balanced with the capacity of the resources and ecosystems**



**Impoverished by environmental degradation, where poverty and hunger still afflict a billion or more people.**

**Properly values  
water and  
manages it  
effectively**



**Faces  
widespread  
water scarcity**



**Making the  
transition to  
renewable  
energy  
sources**



**Still dependent  
on fossil fuels,  
and where  
climate change  
is destabilizing  
many nations**

**Responsible  
consumption  
and production  
patterns**



**Still inundated  
by  
waste and  
poisoned by  
hazardous  
materials**

**Preventable  
diseases have  
been largely  
eliminated**



**One in which  
millions of  
children  
continue to die  
annually**

**Rich-country  
markets are fully  
open to labor-  
intensive  
products from  
poor countries**



# Remains deeply divided between rich and poor

**“We are now beginning to see the consequences of failing to safeguard our investment.”**

**“Climate change and the depleted ozone layer are among the starkest examples. Biological diversity -- the incredible variety of life on Earth that sustains us -- is in rapid decline. Freshwater and marine resources are increasingly polluted; soils and once-prolific fisheries are growing barren.”**

**“The impact of our neglectful stewardship is being felt most by the world’s most vulnerable people: those who live on the desert margins; indigenous communities; the rural poor; the inhabitants of the squalid slums of the world’s expanding megacities.**

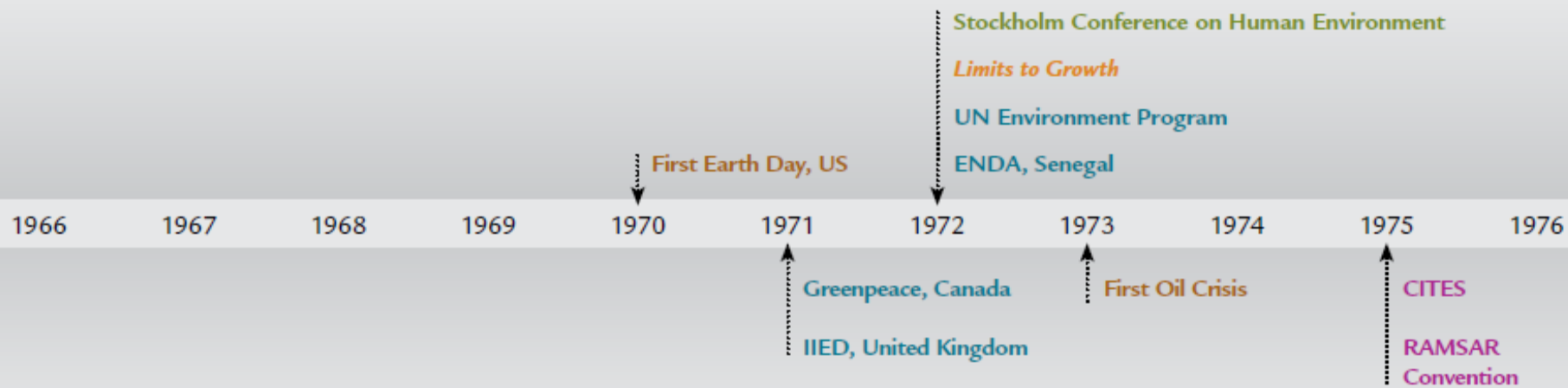
**If they are to break out of the poverty trap and prosper, they need -- at the very minimum -- fertile land, clean water and adequate sanitation...**



**I call on all Governments,  
businesses and citizens of the world  
to give our Mother Earth the respect  
and care she deserves.”**

***UN Secretary-General Ban Ki-moon’s  
message for International Mother Earth  
Day on 22 April 2010***

**RIO + 20: Celebration?  
Or...?**



## Sustainable Development Global Governance timeline

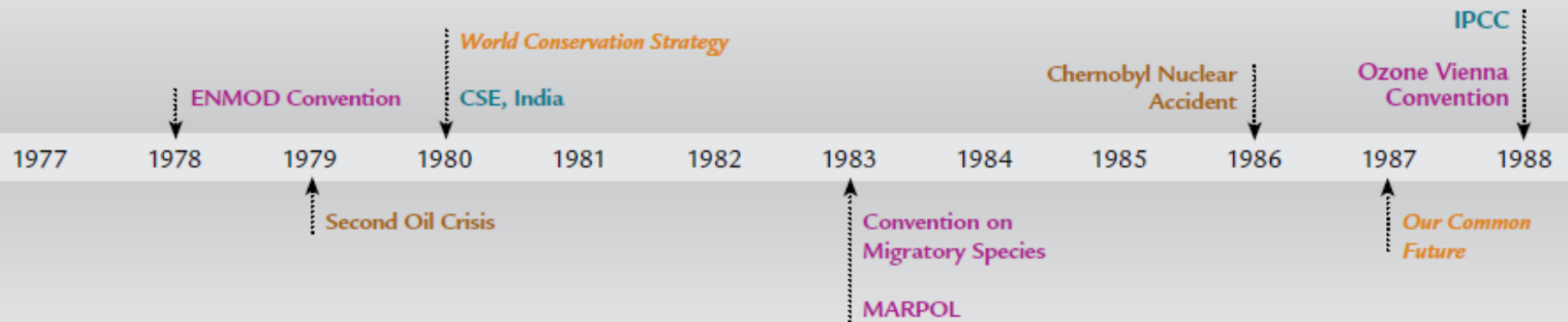
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● PUBLICATION

● INSTITUTION

● EVENT



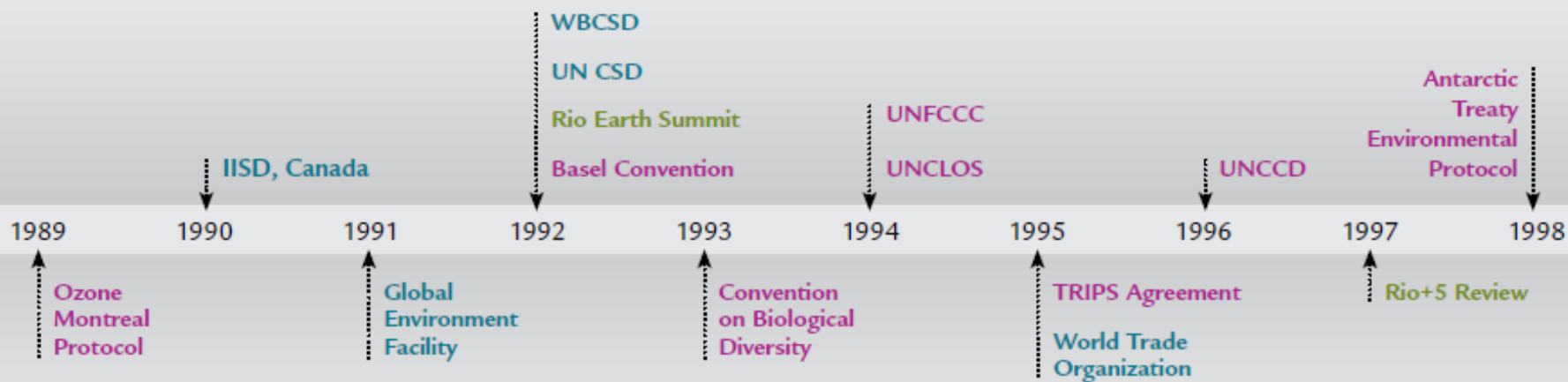
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## Sustainable Development Global Governance timeline

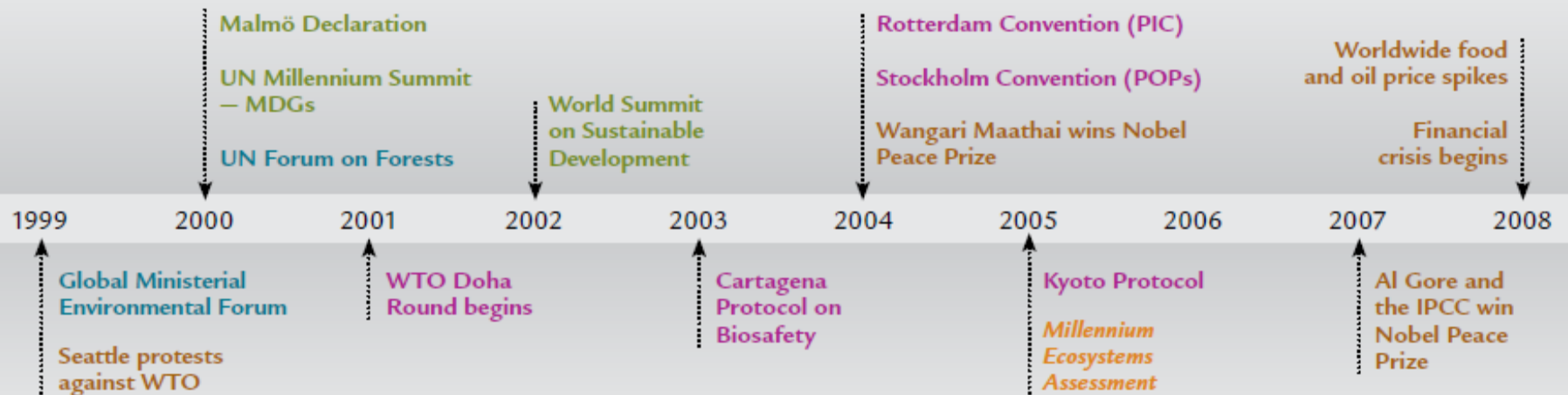
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**GREEN ECONOMY**

**GLOBAL GREEN NEW DEAL**

***UNEP, March 2009***

- **Energy efficiency in old and new buildings;**
- **Renewable energy technologies, such as wind, solar, geothermal and biomass technologies;**
- **Sustainable transport technologies, such as hybrid vehicles, high speed rail and bus rapidtransit systems;**



- **The planet's ecological infrastructure, including freshwaters, forests, soils and coral reefs; and**
- **Sustainable agriculture, including organic production.**

**SMILE**

**SUSTAINABLE MANAGEMENT OF  
ISLANDS' LIFE AND ENVIRONMENT**

**RESPONSE**

# GOVERNANCE, LEADERSHIP AND DEVELOPMENT (GLAD)

LEADERSHIP FOR  
ENVIRONMENT  
AND  
DEVELOPMENT  
(LEAD)

GOVERNANCE  
FOR  
ENVIRONMENT  
AND NATURAL  
RESOURCES  
(GOVERN)

GOVERNANCE FOR  
DEVELOPMENT  
(GoDev)

Community  
Efforts for Life  
and Leadership  
(CELL)

•Resource-  
based  
•Basin  
•Island  
**SMILE**

Village-based  
  
Kabalikat sa  
Barangay  
(Kabarangay)

## The PROBLEM

**How do we promote the sustainable management of islands' life and environment in the context of globalization and the threats of climate change?**

# CLIMATE CHANGE



# GLOBALIZATION

## Why islands?

**Biologically diverse but  
fragile; culturally rich;  
politically challenging;  
economically stagnant;  
socially complex**

# Why islands?

**There are things to know about islands  
(treasure chest of information;  
windows of opportunities**

**Offer opportunities for collaboration  
and integration (testing our models and  
tools)**

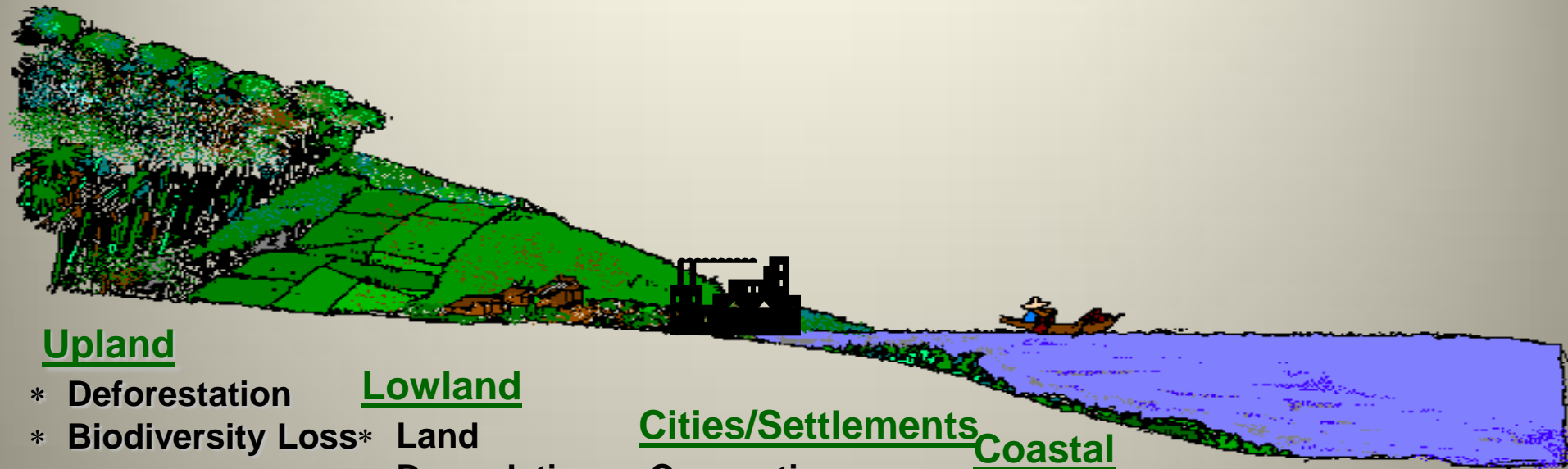
# Why islands?

**There are threats to islands  
(internal and external threats)**

**Issue of scale and manageability**



CONSEQUENCES • POLLUTION • RESOURCE DEGRADATION • CONGESTION • POVERTY • ADMINISTRATIVE DIFFICULTIES



### Upland

- \* Deforestation
- \* Biodiversity Loss

### Lowland

- \* Land Degradation
- \* Erosion

### Cities/Settlements

- \* Congestion
- \* Pollution

### Coastal

- \* Pollution
- \* Resource Degradation

### Fisheries

- \* Pollution
- \* Stock depletion

## ENVIRONMENTAL TRENDS

## CAUSES

- POVERTY • EXPLOITATION/UTILIZATION • URBANIZATION • POPULATION GROWTH •
- GOVERNANCE • ECONOMIC DEVELOPMENT •

# Why SMILE?

**It is about managing for sustainability; a comprehensive and integrative approach**

**It is about  
understanding global  
forces but listening to  
local voices and if  
possible mobilizing  
local energies and  
potentials**

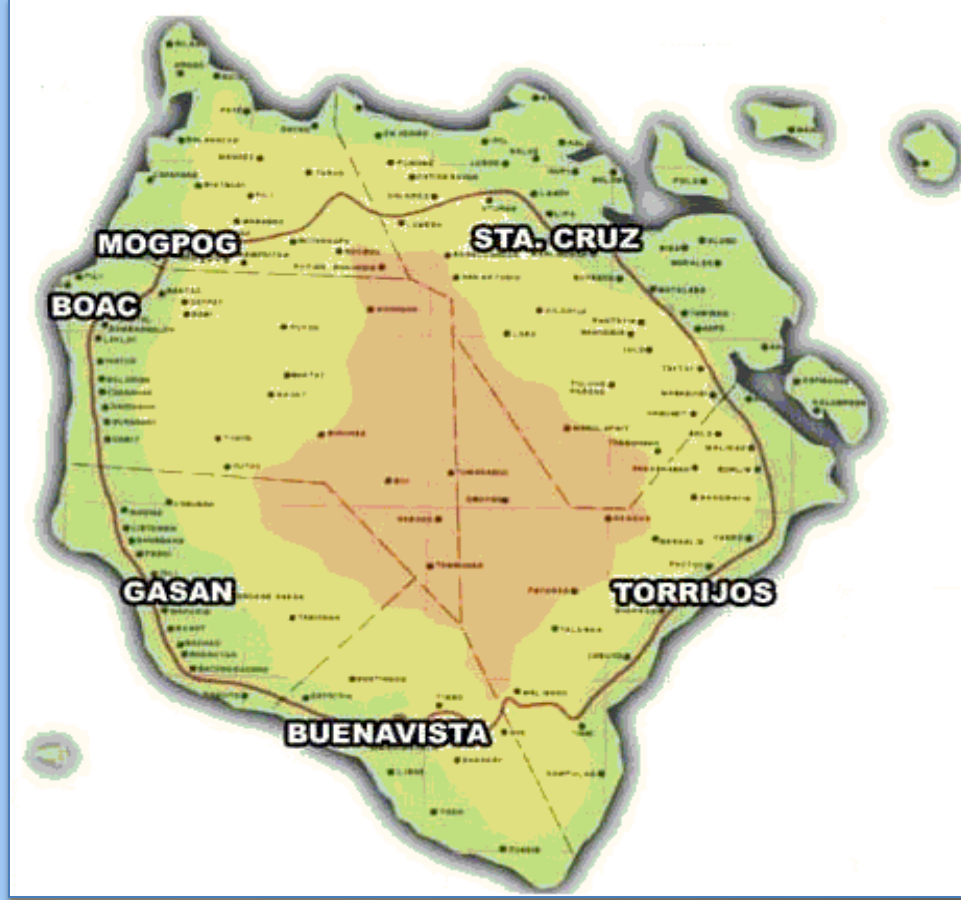
We need models;  
success experiences  
that can be copied  
and multiplied  
*(Success without  
successors is failure)*

# OUTCOMES/VISION

*“A Progressive Green Island”*

- Protected/rehabilitated ecosystems and biodiversity;
- Reduced energy, materials, and water consumption through high-efficiency strategies;
- De-carbonized island society;
- Minimized or altogether avoided generation of all forms of waste and pollution;

- **Developed and utilizes renewable energy sources;**
- **Vibrant local enterprises and economy;**
- **Sound local governance and leadership;**
- **Healthy and productive population;**  
**and,**
- **Mobilized human and social capital**



**Area: 952.6 km<sup>2</sup> (367.8 sq mi)**  
**Population: 229,636**  
**Municipalities: 6**  
**Barangays: 218**

# Why Marinduque?

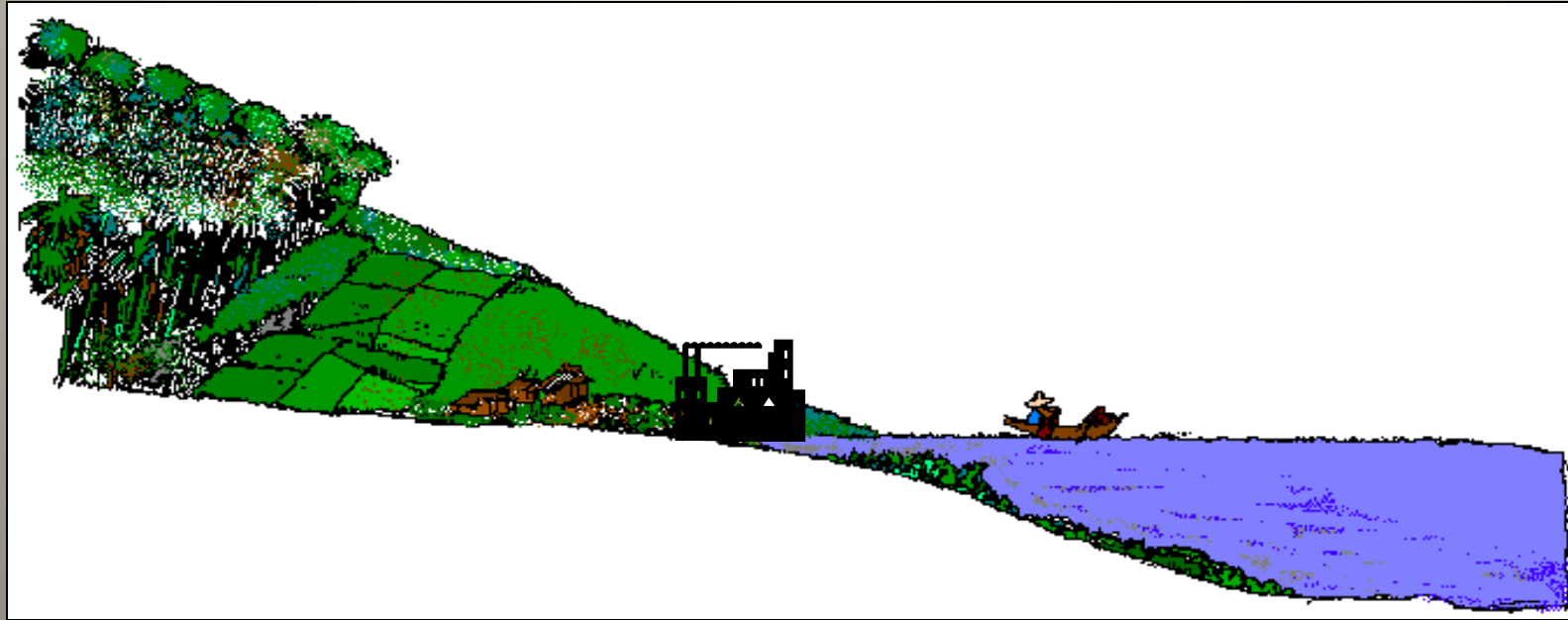
- Accessible, peaceful, environmental challenges, potentials for development (similar islands)
- Some initiatives need to be continued and sustained
- Rich social capital to be explored



# SMILE Framework and Approaches

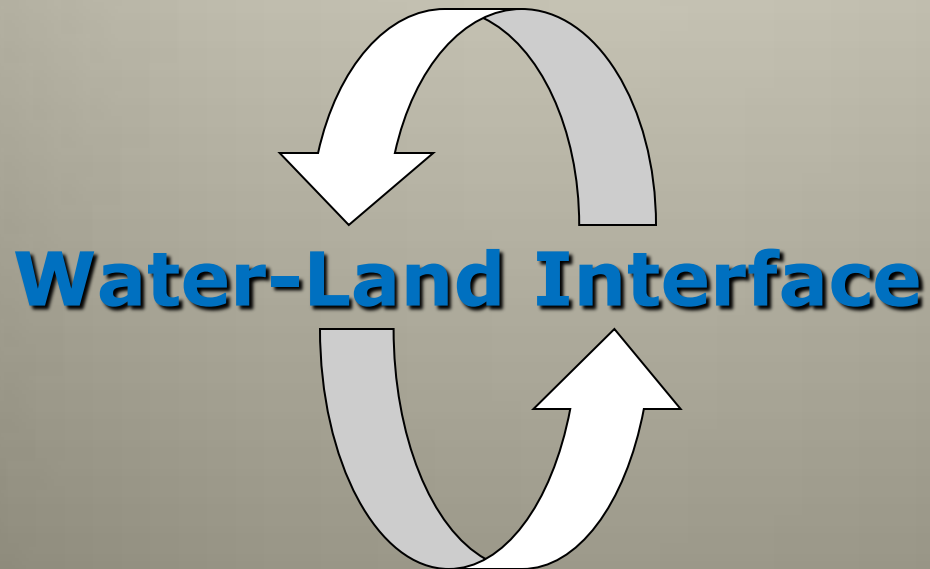
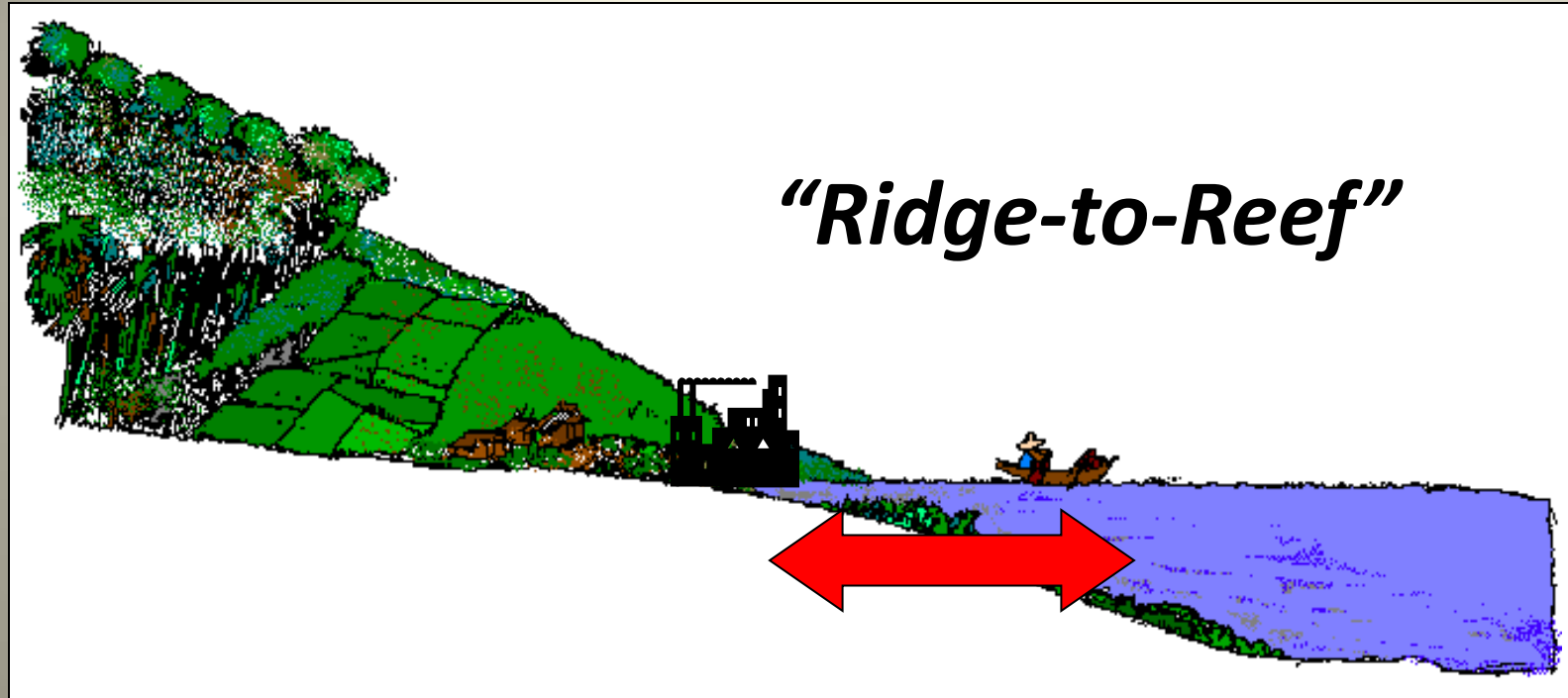
- Village-Based Development
- Basin/Ridge to Reef Approach
- Ecosystems approach
- Landscape approach
- Basin approach

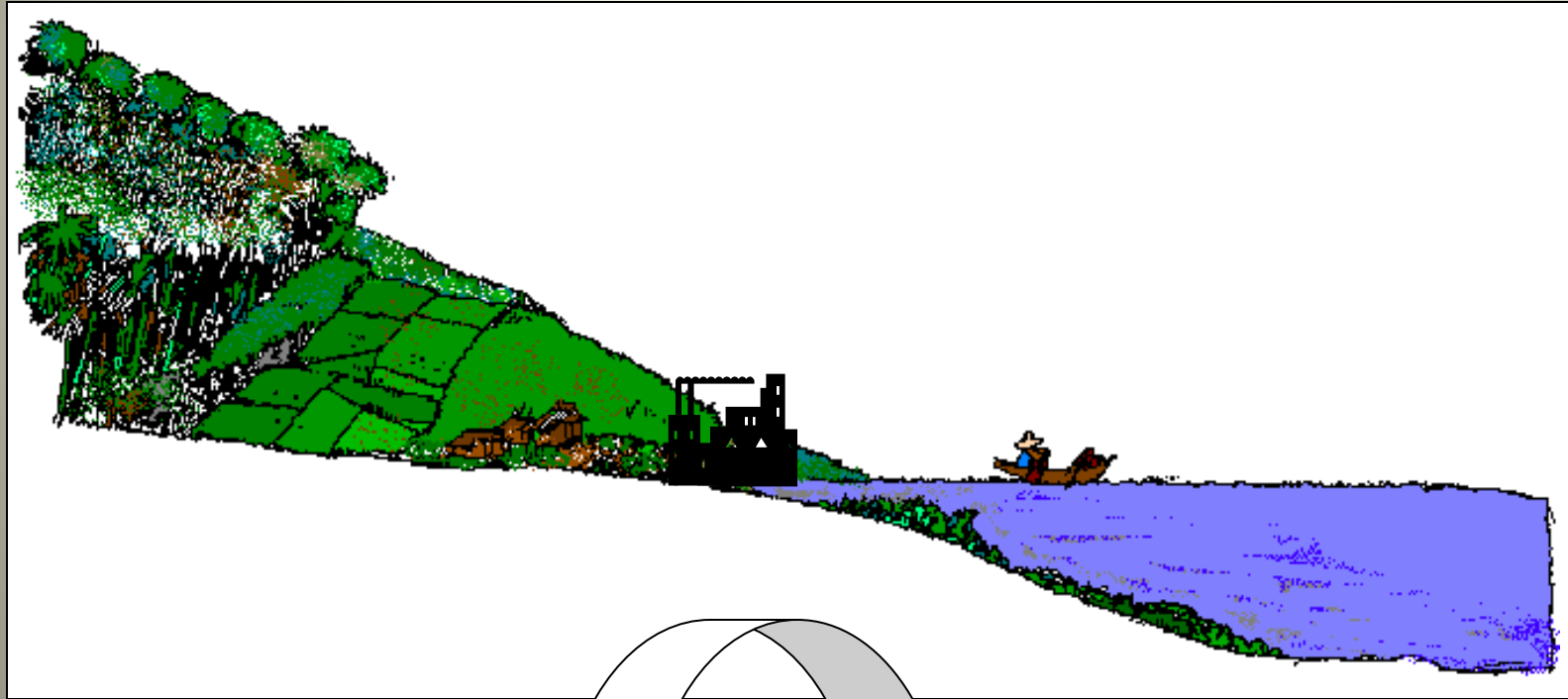
# Development is about Interactions



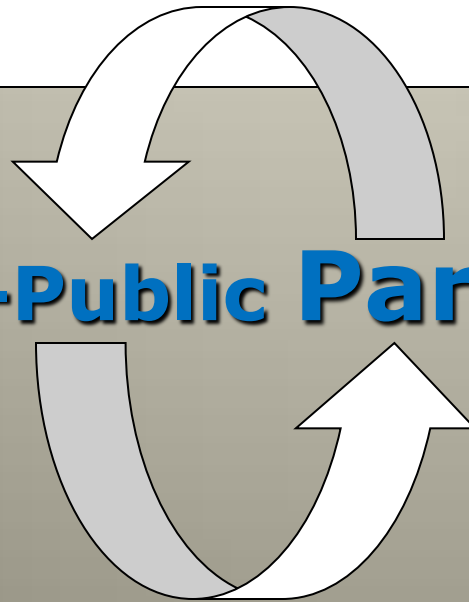
← lowland-upland-ocean continuum →

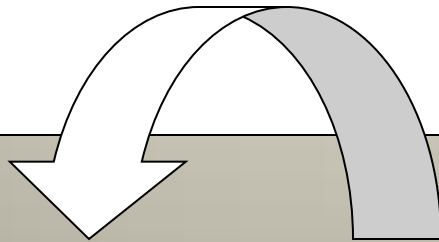
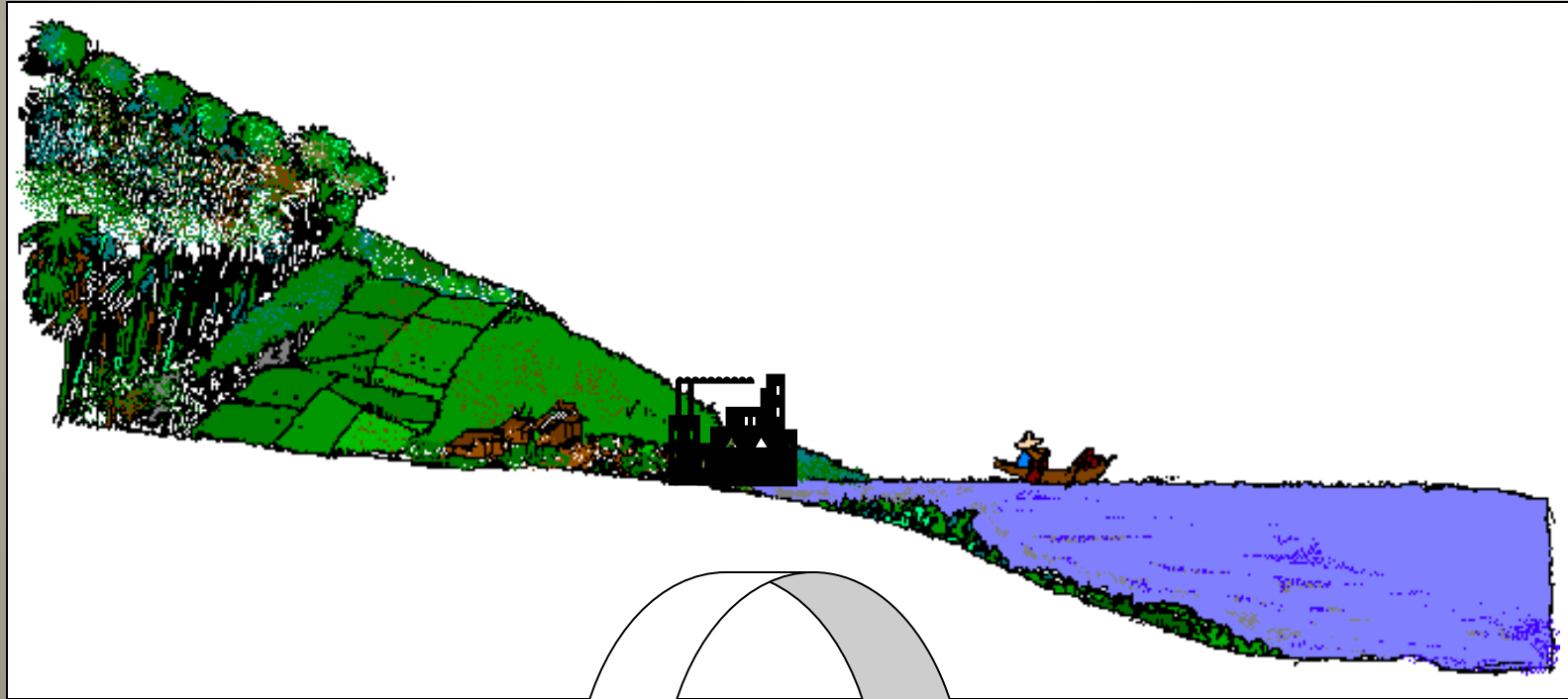




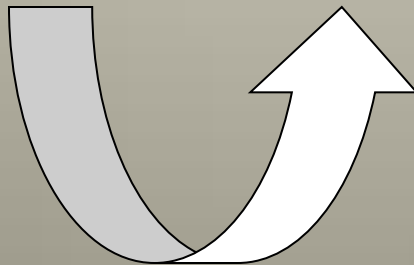


# Private-Public Partnerships

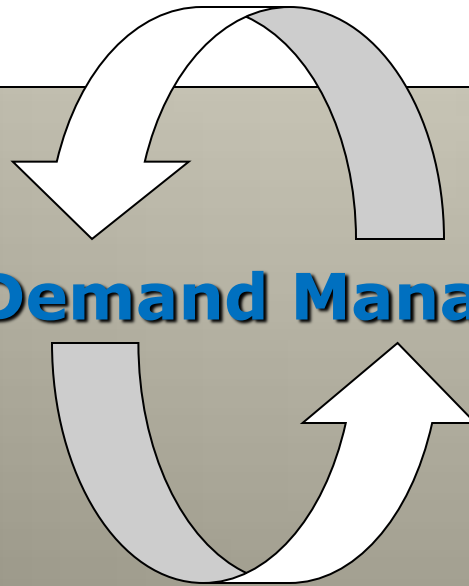
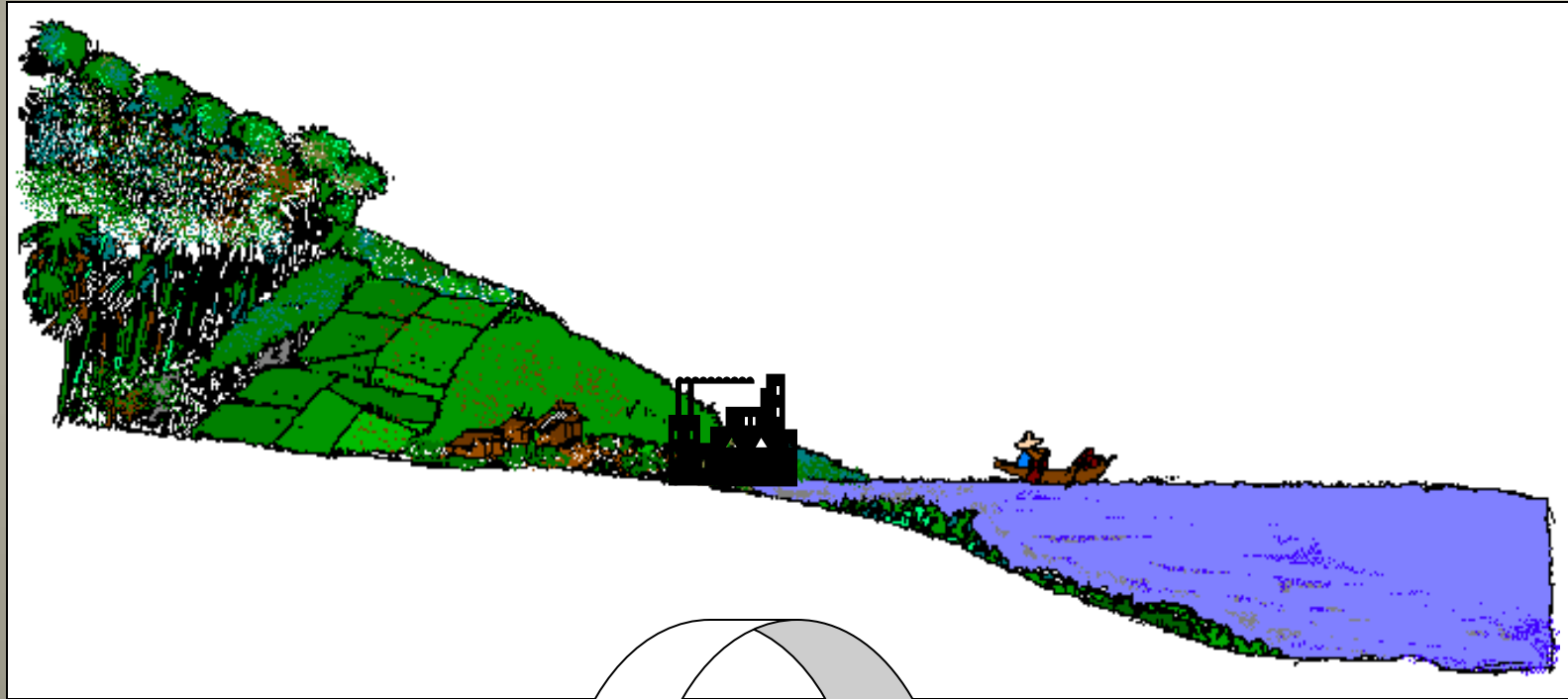




## Local-Central-Global Relationships

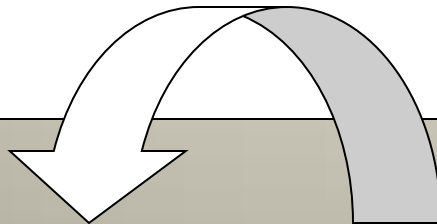
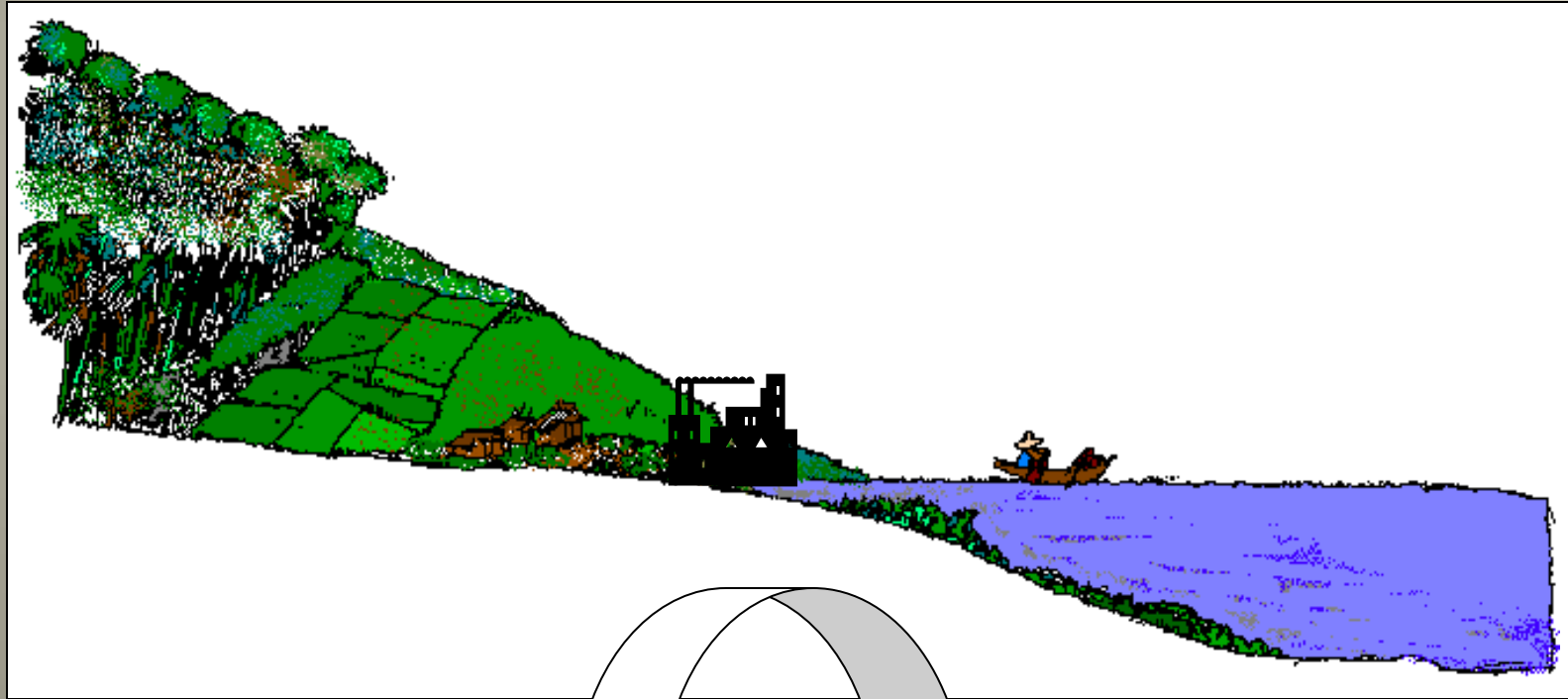




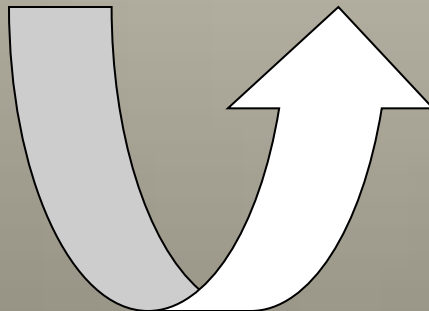


**Supply and Demand Management Loop**

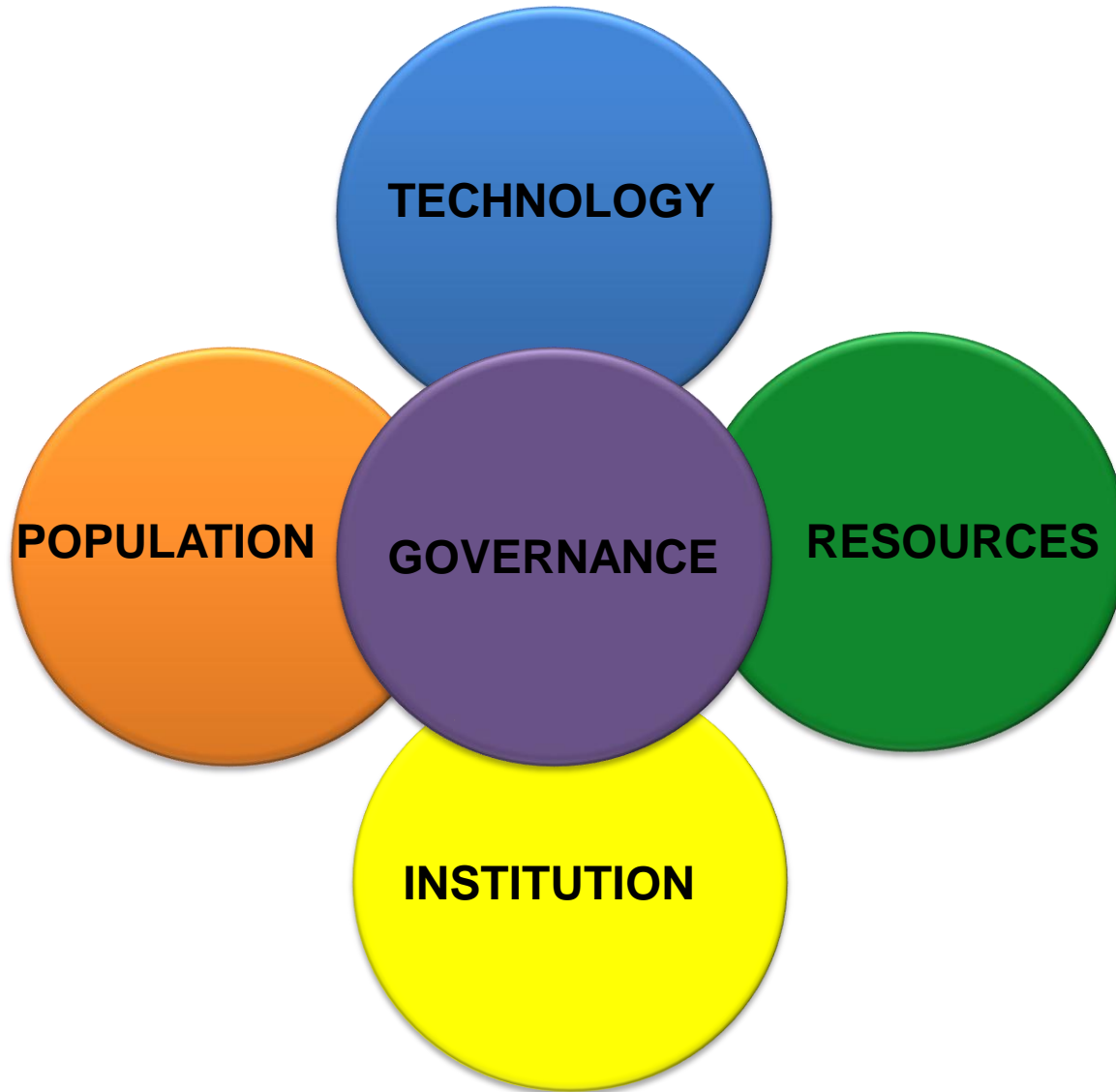




# Intra- and Inter-Organizational Relations



**ENVIRONMENT**



**ENVIRONMENT**

**DEVELOPMENT FRAMEWORK**



## THE BOOK

## SUSTAINABLE MANAGEMENT OF ISLAND LIFE AND ENVIRONMENT



# CONTENTS

## PART ONE

### Introduction

- *The Island Ecosystem: A treasure chest?*
- *Green Islands: Wishful thinking?*
- *SMILE Framework (PRITG)*

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## **Marinduque**

### **SMILE Challenges and Options**

**A reality check for sustainability**

- **Water Sustainability: A Parched Land on Deep Waters?**
- **Safe Water, Safe Life**
- **Land: Use or Abuse**

- *Island Forests, Forested Islands:  
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- *Island Biodiversity: Unknown wealth*
- *Coastal and Fishery Resources: Catch  
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- *Food security: A bite or a mouthful?*

- ***Human and Social Capital:  
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- ***Healthy island is a wealthy  
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- *Energized Island: Tapping inner power*
- *Island of wastes; wasted Islands: Is there a way out?*
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- *Transport and Communications: Keeping in touch*
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- ***Risks and Living Together:  
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- ***Culture, Traditions and Beliefs:  
Exploring the mind, heart and  
soul***

- *Governance and Leadership for Sustainability: One beat, one pulse*
- *Island Economy: In search of gold, gains and glory*
- *Sustainable Tourism: Attractive Island attracts*



## **PART THREE**

# **Moving Ahead Together**

- ***Policy recommendations***
- ***Priority Projects (Development and Training)***
- ***Mobilization strategies (Human, Financial, Networks)***
- ***Recommendations for further study***

# SMILE

Together....

We can do it!!!



*“Our destination is further than you can see, but not so far off that you cannot reach it.”*