

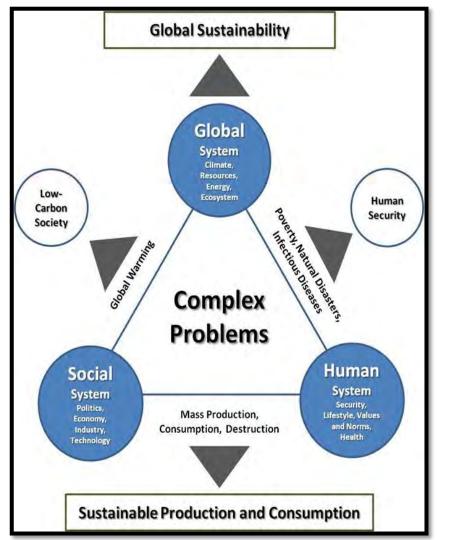
Lessons learnt from UNESCO Sustainability Science Demonstration Sites

A socio-environmental perspective

Tahmina Rashid

Associate Professor International Studies, Faculty of Arts & Design





Sustainability Science Approach

Natural Engineering Social Science



Cultural Heritage – People, Place & Space













(CRCOS) #0021

SS Demonstration Sites

Siem Reap, Cambodia - Restoring and Enhancing Angkor World Heritage Site and Siem Reap City Water Systems

Ifugao Rice Terraces, Philippines - Rice Terraces of the Philippines Cordilleras

Langat River Basin, Malaysia - Restoring and Managing Langat River, Malaysia for Future

Langkawi Geopark, Malaysia- Water and Environmental Sustainability in Langkawi

Davao, Philippines - Enhancing Resilience to Disasters of Urban Water Systems of Mindanao



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Common Themes

Community Inclusive Sustainability Science

Accurate Data

Water Resource Management – Surface and Ground Water

Solid and Liquid Waste Management

Tourism

Industries – polluters, employment

Lack of political will – good policies, poor enforcement/implementation

Sustaining ecosystems and Communities

Local and Indigenous Communities (Ifugao; Orang Asli)

Cultural Heritage and Conservation

Policy Challenges

Legal Frameworks, Implementation and Enforcement



Lessons Learnt – Socioenvironmental Perspective

Sustainability Science

Sustainable Development

What it means for communities

Inclusive policy Making

Inclusive Development

Community agency as an essential value, not an add on



Water Resource Management

Water as a resource

Water as a commodity

Data on water extraction and usage

Access

Pricing



Solid and Liquid Waste Management

Waste Management practices

Public Service

Access and coverage

Waste water treatment

Solid waste management

Plastic



Tourism

Increased tourism as a policy goal Impact of tourism Tourists as stakeholders Infrastructure Impact on culture Exclusion of local communities



Sustaining ecosystems and Communities

Ecosystem and sustainable environment as a goal

Linking goals with community aspirations



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Local and Indigenous Communities

Lack of understanding and appreciation of indigenous identity, culture

Exclusion from policy making

Documentation

Need for the preservation of cultural heritage, rituals, folklore, traditional practices, arts and crafts

Museum

Curricula – Schools/Universities



Policy Challenges

Protecting Heritage Sites and Generating Tourism, Revenue & Development

Environment Versus Development

Competing Interests of Stakeholders

Policy Ownership - Implementation



Challenges for Communities

Heritage Livelihoods Survival versus Sustainability

What we are aiming for

Ecosystem

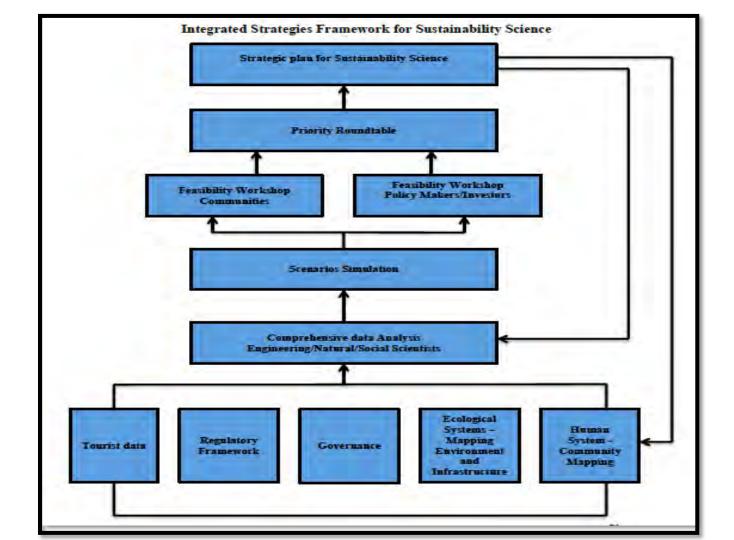
Local Communities

Tourist

Academic research

Good Policies







Conclusions

Inclusions at the Project Inception Community Best Practices Public Policy and Communities Full cycle of processes Taking back research to communities and policy makers

