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Implementing Ecosystem Services for Inclusive Green Growth Transitions

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Outline

I. Introduction

- Ecosystem Service Assessments (capacity challenges)

II. Methodology

- 10-Step Approach (measurement and evaluation)

III. Policy Applications

- Yongding River Ecological Corridor (green city)
- Wetland Ecosystem Services Monitoring (national)

IV. Conclusion



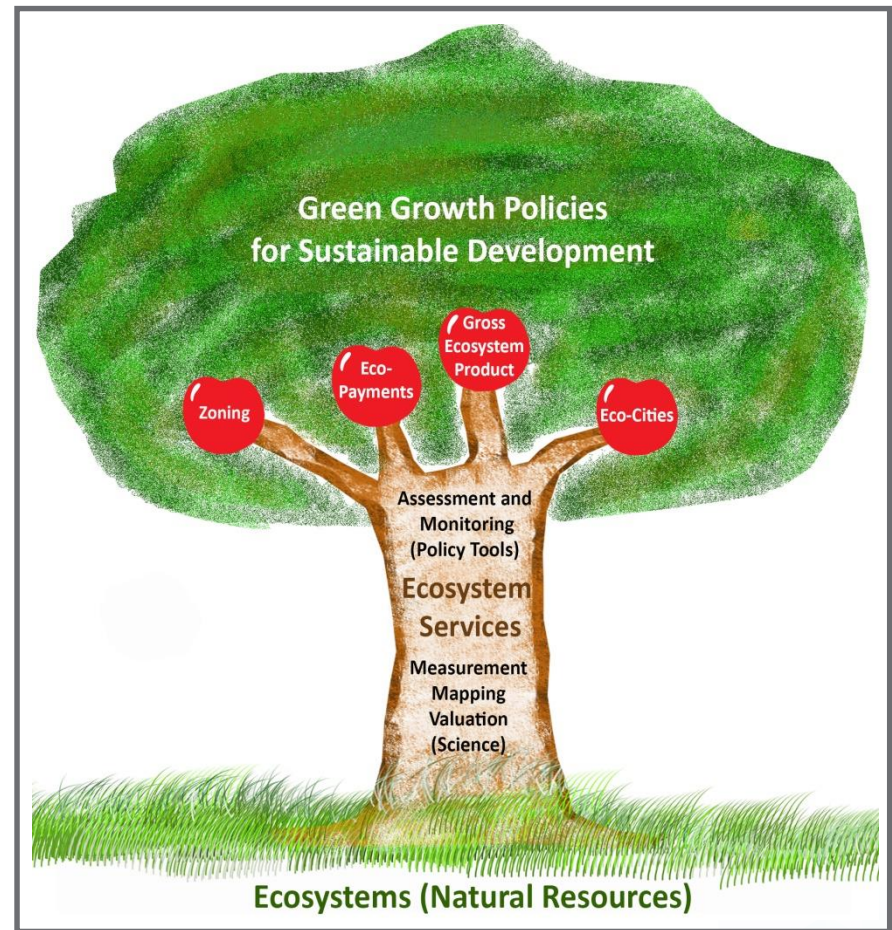
Ecosystem Service Assessments



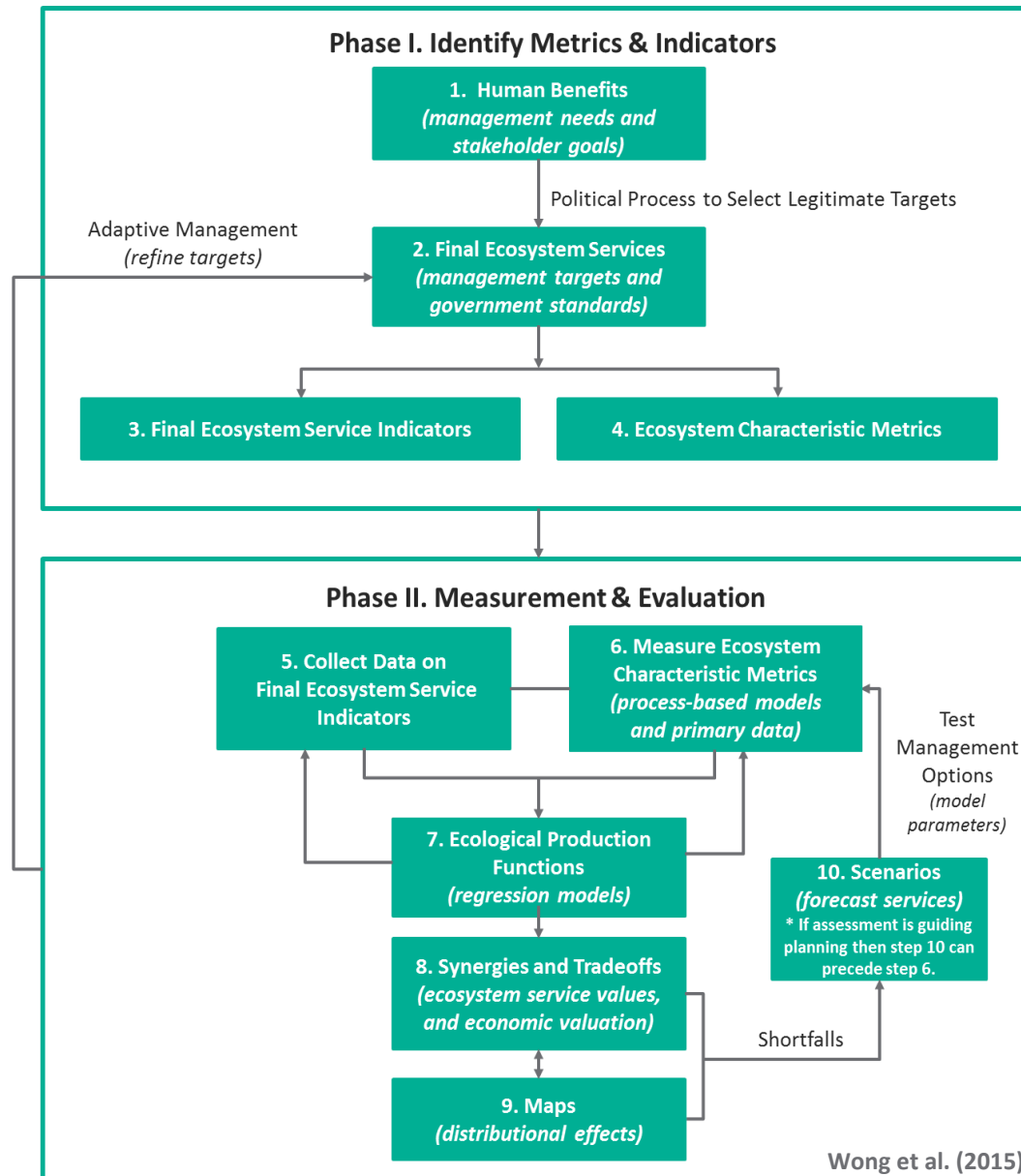
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- Ecosystem service assessments clarify how ecosystems contribute to a diversity of human needs.
- **Data Gap:** Institutions lack credible and legitimate values to guide investments.
- **Technical Problem:** Need analytical frameworks to measure and evaluate ecosystem services.



10-Step Approach



Yongding River Ecological Corridor



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Lakes and wetlands as a network of parks to advance socioeconomic conditions and urban livability.

Policy Objective: Enhance Five Ecosystem Services

1. **Water Storage:** Increase Groundwater Storage
2. **Local Climate Regulation:** Cooling for Human Comfort
3. **Water Purification:** Drinking Water Quality
4. **Dust Control:** Reduce PM₁₀ to Improve Air Quality
5. **Aesthetics:** Recreation & Economic Development



Policy Recommendations

Managers found recommendations useful since assessment clarified connections:
Ecosystems-Stakeholder Needs-Multiple Objectives-Actions

Sustain Water Storage

- Need to maintain ideal inflow rates
- Deeper lakes to reduce water losses



Improve Water Quality

- Wetlands have high nutrient retention
- Reduce sewage from nearby homes



Improve Local Cooling

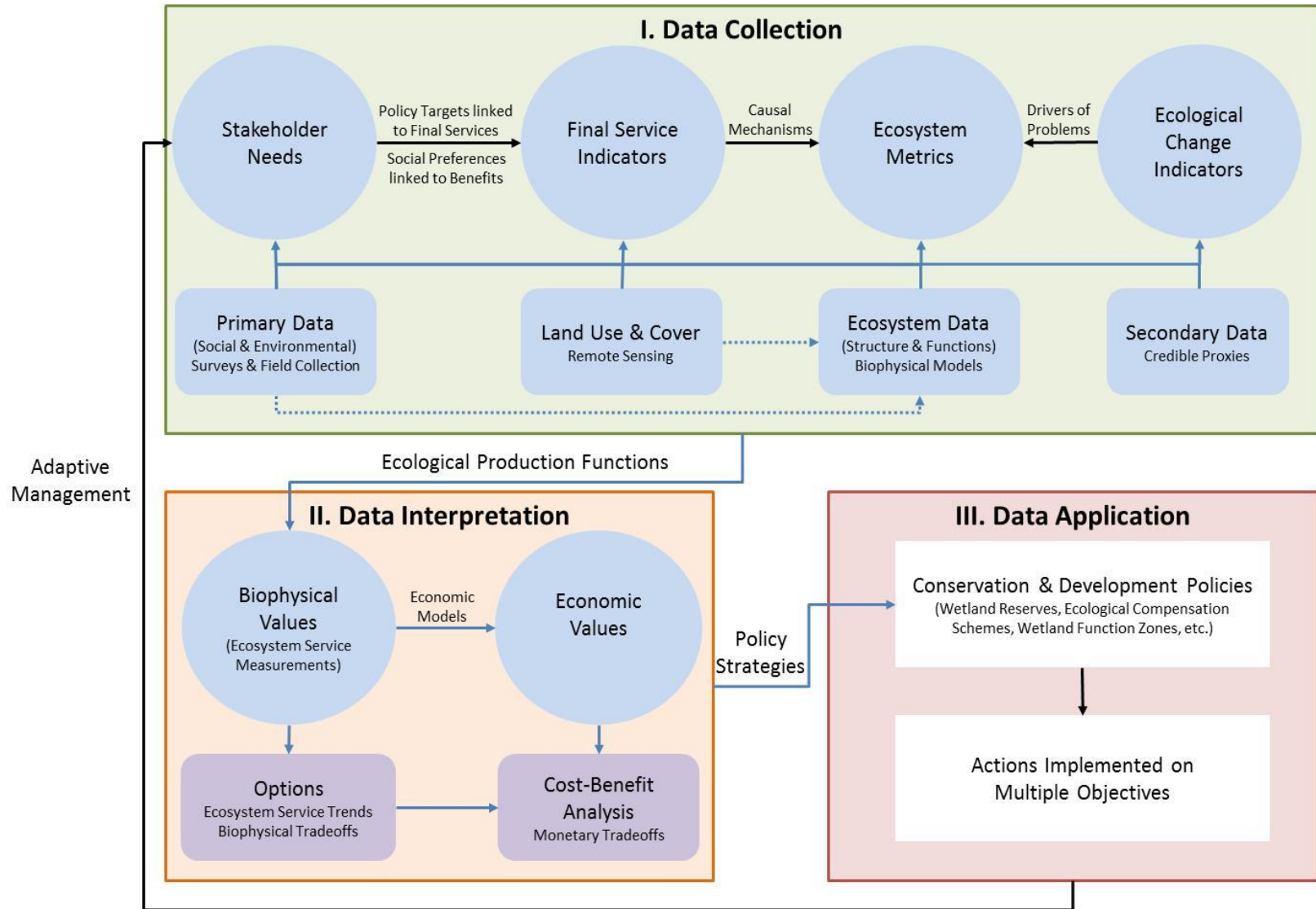
- Lakes and wetlands no impact on human comfort
- Shade trees and/or shade structures



End Goal: Maintain Aesthetics

- Drying threatens visible landscape
- Water quality affects aesthetic quality
- Hot environments are uncomfortable for visitors

Wetland Services Monitoring in China



Conclusion

- China is investing in ecosystem services, and we are learning that ecosystem service assessments are critical for promoting inclusive green growth.
- They clarify how ecosystems contribute to a diversity of needs to promote cooperation and wiser decisions that minimize tradeoffs and unequal distribution effects.
- New capacities are needed for implementation, defined as integrative thinking:
 1. Knowledge of how to connect issues
 2. Skills to identify strategic actions on connections
- To institutionalize approaches, we need future knowledge-sharing on how to design and apply ecosystem service assessments for different policy situations, and the environmental, social, and economic outcomes from their application.



Thank You

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