



Module 7



Understanding current conditions

This is a working session with little presentation

It asks participants to use ecosystem services to frame objectives for their home catchment, to provide grounding



Module 7



Understanding current conditions





Recap from Yesterday

- In Module 6, we focused on state of ecosystem services and functioning
- Used a 7-step management perspective to incorporate value and specify rewards of ecosystem services into management



Generic: Use ecosystem science to understand relationships

Putting the 7 steps to work in your catchment

1 Understand societal goals and values

Are societal goals met?

Y

2,3,4 **Specific:** Analyze ecosystem history, current condition-determine possible ecosystem services

N

7 Monitor ecosystem condition and services

Adapt and implement again

Select ecosystem services

5a Implement policies and projects

5,6 Design management policies and projects



Foundation of EM

- **Structure management decisions and scenarios on 4 core ecosystem processes**
 - Water cycling
 - Mineral cycling
 - Solar energy flow
 - Biological growth
- **Understand ecosystem services by organizing into 4 categories:**
 - Provisioning
 - Regulating
 - Cultural
 - Supporting





Applying this to your home catchment

- We applied 7 steps to the workshop catchment
- Now join others from your group or closely related catchment (geographically or politically)





Focus on present and desired states for your catchment

- **Apply steps 1-4 to your catchment (20 min)**
 - **Step 1: What are societal priorities for ecosystem services?**
 - **Step 2: What ecosystem functions are needed to deliver those services?**
 - **Step 3: What ecosystem structure is needed to support those functions?**
 - **Step 4: Map the landscape to identify ecosystem structures**
- **Return to plenary. What similarities did you find with the workshop catchment? What difficulties did you find translating the information from the workshop catchment to your home catchment? What can we (facilitators and other groups) offer to overcome difficulties? (10 min)**



Focus on indicators and data development

- Use ecosystem services identified as highly valued by stakeholders in your catchment
- Choose a service; identify 1 or more indicators and an appropriate indicator range to sustain the service
 - What is the appropriate temporal and spatial scale?
 - What datasets do you need?
 - Who has those datasets? How you will obtain those data?
 - What analytical approach will you use to analyze the data?
 - How will you communicate your analyses? Who is your audience? How will you convey the information?
- Return to plenary. Focus on data structure. What ideas can you share that offer insight on obtaining, analyzing and communicating about your data? (20 min)



Module 7



Understanding current conditions

The goal in this session is to frame objectives in terms of ecosystem services, and be very specific in terms of indicators, how performance will be assessed.

Is that doable and does it make sense?

