Part 1 Week 2 Workbook: Assessment of Opportunities and Priorities for Restoration

Ecosystem Restoration MOOC

Part 1: Introduction to Ecosystem Restoration

Congratulations on completing Week 2 of the course "Introduction to Ecosystem Restoration"! This week, you learned how to identify and prioritize degraded areas for restoration interventions.

We invite you to use this workbook to test your understanding of the content covered in Part 1 Week 2 and apply the content to your context.

Remember to review the Week 2 lessons before filling out this workbook.

Review Module 2 Lesson 1

Review Module 2 Lesson 2

Review Module 2 Lesson 3



1. Select an approach to mapping the level of degradation that is most appropriate in your context. Draw from the list of suggested sources in Module 2 Lesson 1 to fill in the columns.

Review Module 2 Lesson 1

Mapping technique	Yes/No	Data source	Type of data (e.g. open source, paid subscription, etc.)
Satellite derived data on net primary productivity			
Assessment of abandoned cropland			
Biophysical models			
Expert opinion			
Mapping and classification of degradation (IUCN Red List of Ecosystems)			
Other (please specify)			

Use this space for notes.

2. Can the following attributions be used to characterize your reference model? Indicate your reference model and use the presence or absence of attributes to determine the level of intactness of the reference model

Review Module 2 Lesson 2

Reference model: _____

Attribute	Description	Yes/No
Absence of threats	Direct threats to ecosystem such as over-utilization, contamination or invasive species are absent.	
Physical conditions	Environmental conditions (including the physical and chemical conditions of soil and water, and topography) required to sustain the target ecosystem are present.	
Species composition	Native species characteristic of the appropriate reference ecosystem are present, whereas undesirable species are absent.	
Structural diversity	Appropriate diversity of key structural components, including demographic stages, trophic levels, vegetation strata and spatial habitat diversity are present.	
Ecosystem function	Appropriate levels of growth and productivity, nutrient cycling, decomposition, species interactions, and rates of disturbance.	
External exchanges	The ecosystem is appropriately integrated into its larger landscape or aquatic context through abiotic and biotic flows and exchanges.	

Use this space for notes.

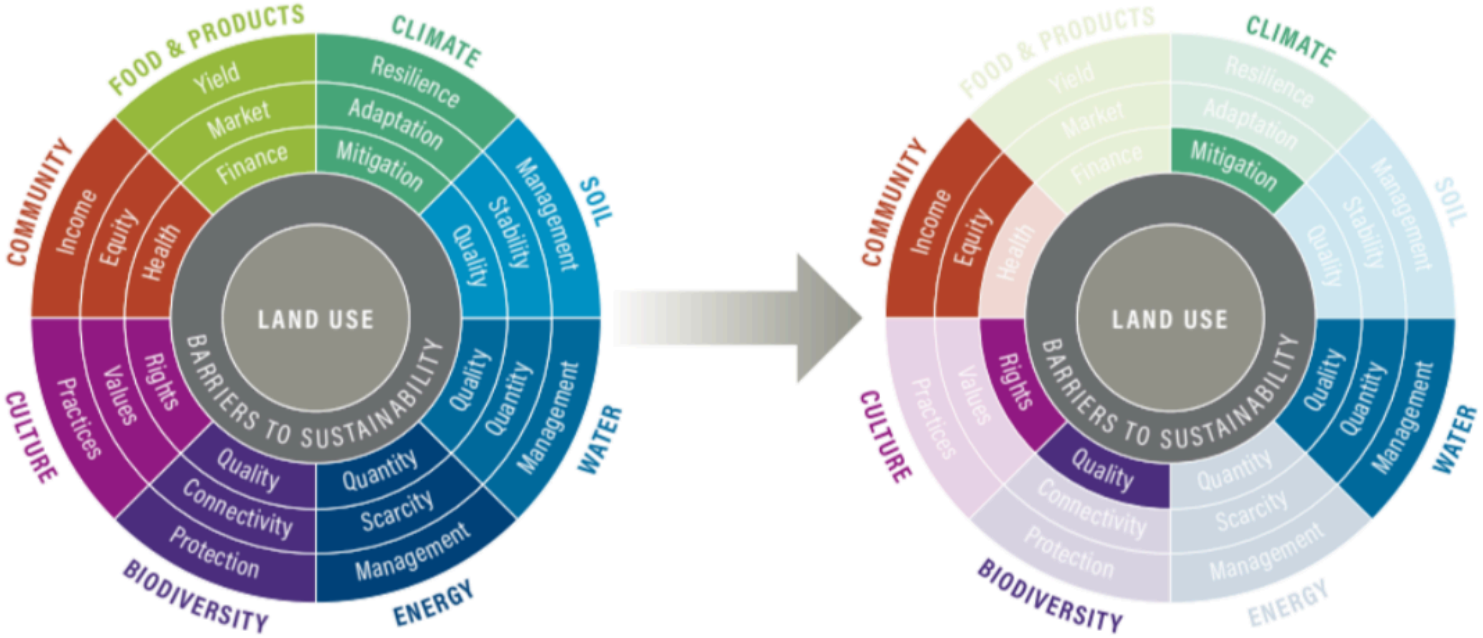




3. Use the Restoration Monitoring Wheel to identify the goals and sub-themes of your restoration program. Under the column “Rationale,” describe your goals as formal statements, depicting the medium to long-term desired ecological or social condition, including the level of recovery sought in 100 words or less.

Review Module 2 Lesson 2

Figure 3 | Determining Goal- and Sub-Themes Using the Restoration Monitoring Wheel



Source: Authors.

Biodi		
Cultu		
Comn		
Food & Products		

Climate		
Water		
Energy		
Soil		

Use this space for notes.





4. Describe the objectives of your restoration program. Remember to state your objectives in terms of measurable and quantifiable indicators. Review examples of objectives on slide “Objectives” in Module 2 Lesson 2: Prioritizing Restoration Areas from the course “Introduction to Ecosystem Restoration”

Review Module 2 Lesson 2

Objective 1	
Objective 2	
Objective 3	

Use this space for notes.



5. Now that you have identified the goals and objectives of your restoration program, it's time to prioritize restoration interventions. To complete the prioritization exercise, you will want to be aware of your country's existing priorities. This alignment will facilitate broad support from a variety of stakeholders, as well as improved access to the resources needed for the success of your program. Fill out the table below for your country.

Review Module 2 Lesson 2

Country	National restoration commitment	National restoration strategies	National priorities for restoration	Notes/comments



Use this space for notes.



6. Estimate the relative weight that you would allocate to (1) carbon, (2) biodiversity, and (3) cost effectiveness in the prioritization of restoration areas. Allocate a total of 10 points between these three priorities. If a WePlan Forest Ecosystem Restoration Planning Analysis has been conducted for your country, explore scenarios based on that priority set.

Review Module 2 Lesson 2

Country	Carbon (Weight 1-10)	Biodiversity (Weight 1-10)	Cost-effectiveness (Weight 1-10)	Notes/comments

Use this space for notes.



7. Describe the direct and indirect drivers of biodiversity loss and ecosystem change within the scope of your restoration program. Direct drivers may include habitat loss/conversion, fragmentation, overexploitation/overharvesting, climate change, pollution, invasive species. Indirect drivers may include population and demographic trends, economic growth, weak governance systems, inequity.

Review Module 2 Lesson 3

1. Direct driver 1	**Description of direct driver:**
	Indirect driver 1.1:
	Indirect driver 1.2:
	Indirect driver 1.3:
2. Direct driver 2	**Description of direct driver:**
	Indirect driver 2.1:
	Indirect driver 2.2:
	Indirect driver 2.3:
3. Direct driver 3	**Description of direct driver:**

Review Module 2 Lesson 3	**Indirect driver 3.1:**
	Indirect driver 3.2:
	Indirect driver 3.3:

Use this space for notes.

8. Economic, regulatory, risk management, and information incentives can be effective tools to address biodiversity loss and ecosystem degradation. Use the table below to identify and classify the incentives you can use in your restoration program to address the drivers of ecosystem degradation.

Type of incentives	Examples	Examples in your context
Economic	**Property rights** **Markets and charge systems** **Fiscal instruments** **Bonds and deposits** **Livelihood support** **Other**	1. 2. 3. 4. 5.
Regulatory	**Cross compliance** **Assurance** **Other**	1. 2. 3. 4. 5.



Ianagement	**Compensation** **Insurance** **Other**	1. 2. 3. 4. 5.
Information	**Product information (i.e. information on the ecosystem impacts of different products)**	1. 2.

	Information on ecosystem status and function **Other**	3. 4. 5.

Use this space for notes.



Congratulations! You have taken the next step towards your ecosystem restoration program or policy!

What's next?



We invite you to share this completed workbook with other course participants on the Discussion forum for Part 1 Week 2.

When you share the results of your work, don't hesitate to ask questions. The forums are available for course participants to exchange expertise and share lessons learned.

Sincerely,

Your Ecosystem Restoration course team