



System of  
Environmental  
Economic  
Accounting

# Natural Capital Accounting and Valuation of Ecosystem Services project - roadmap

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Planning and Stakeholder consultation meeting



# Outline

- The Natural capital accounting and valuation of ecosystem services project
  - > Workstreams
- Roadmap in Mexico
  - > Approach
  - > Planning / Milestones
- Additional ecosystem services
- Discussion



# Partners

- Implementing partners
  - United Nations Statistics Division
  - United Nations Environment Programme
  - (CBD)
- Sponsor
  - European Union
  - Partnership Instrument
- Five partner countries
  - Brazil, China, India, Mexico, South Africa
- Project duration
  - 4 years from 2017-2020



# Overall objectives

- Advance the knowledge agenda on Natural Capital Accounting, in particular ecosystem accounting
- By initiating pilot testing of SEEA Experimental Ecosystem Accounting, with a view to:
  - Improving the measurement of natural biotic resources, ecosystems and their services at the (sub)national level
  - Mainstreaming biodiversity and ecosystems in (sub)national level policy-planning and implementation
  - Contributing to the development of internationally agreed methodology and its use in partner countries.



# Timeframe of the project

Sep 2016 –  
April 2017

- Design

May 2017 –  
April 2018

- Development

May 2018–  
Q1 2020

- Implementation

Q2 2020

- Closure + follow-up



Natural Capital Accounting and  
Valuation of Ecosystem Services



SEMARNAT



2018 Forum of Experts in SEEA

Experimental Ecosystem Accounting



# Work streams

- Piloting ecosystem accounts (in each of the 5 partner countries) for selected areas (national and/or regional)
- Developing guidelines and methodology
- Indicators
- Business accounting (sustainability reporting)
- Communication and outreach
- Training and capacity development



The Sustainable Development Goals 'wedding cake'  
(<http://eatforum.org/event/eat-stockholm-food-forum-2016/>)

# Roadmap (work programme)

- Ingredients
  - > By workstream
  - > Phased approach
    - Biophysical modeling -> valuation-> scenario analysis
  - > Lead agency
- Coordination mechanisms
  - > Inter-institutional committee
  - > PMU
  - > National Steering Committee
- Planning
- Milestones

# Planning - Workstream 1

1 Compile selected ecosystem accounts									
<b>PHASE 1 - BIOPHYSICAL MODELLING</b>									
Data collection	x	x							
Modelling <b>priority ecosystem services</b> (carbon; water supply; crop provisioning)	x	x	x						
Integrating / overlaying ES maps with land cover / ecosystem extent	x	x	x	x					
Document methods		x	x	x					
Compile reports summarizing the accounts				x	1ai				
Modelling <b>additional ecosystem services</b> (coastal protection;				x	x				
Integrating / overlaying ES maps with land cover / ecosystem extent					x	x			
Document methods						x	x		
Compile reports summarizing the accounts							x	1aii	



# Planning - Workstream 1

Compile <b>ecosystem condition</b> accounts				
Integrating / overlaying ES maps with land cover / ecosystem extent accounts	x			
Document methods	x	x		
Compile reports summarizing the accounts		x	<b>1a</b>	<b>iii</b>

<b>PHASE 2 - VALUATION</b>							
Valuation of ecosystem services (priority and additional)	x	x	x	x			
Valuation of ecosystem degradation (based on condition accounts)		x	x	x			
Integration / overlaying with extent account (and business register)			x	x			
Document methods				x	x		
Compile reports summarizing the accounts					x	<b>1b</b>	
Update EDP indicator						x	x

<b>PHASE 3 - SCENARIO ANALYSIS</b>								
Choose modeling scenarios					x	x		
Biophysical modeling						x	x	x
Valuation impacts							x	x
Summarise key results and stats							x	x

# Milestones

Nov-18	<b>0a. Final programme of work</b>
Nov-18	<b>0b. Assessment Report</b>
Nov-18	<b>1ai. Report with physical ecosystem extent and service account</b>
Jan-19	<b>5c. Aguascalientes report</b>
Feb-19	<b>5d. National Forum</b>
Mar-19	<b>1ai. Report with ecosystem condition accounts</b>
Apr-19	<b>1ai. Report with extended accounts</b>
Jun-19	<b>1b. Report with ecosystem accounts in monetary terms</b>
Aug-19	<b>6a. National training workshop</b>
Oct-19	<b>0c. Updated National Strategy</b>
Oct-19	<b>3. National report on ecosystem indicators</b>
Dec-19	<b>7. Report with results of scenario analysis</b>
Feb-20	<b>5e. National Forum</b>
Mar-20	<b>5f. Final report</b>
Mar-20	<b>5g. Policy makers summary</b>

# Additional ecosystem services

		Criteria					
Ecosystem service		<i>Data availability</i>	<i>Existing studies</i>	<i>Policy relevance</i>	<i>Tech. capacity</i>	<i>Scale (informativ</i>	
Provisioning	Harvested resources						
Cultural	Nature based tourism	+/-	+	+	+	regional	
	Habitat / biodiversity	+	+	+	+	national	
	Urban recreation / amenity value	-	?	?	+/-	local	
Regulating	Carbon sequestration						
	Flood attenuation / mitigating ex	-	-	+/-	+/-	local	
	Water supply						
	Water purification	+/-	+	+/-	+	local	
	Sediment/soil retention services	+	+	+	+	national	
	Air filtration services	+	+	+	+	local	
	<i>Coastal protection</i>	+	+	+	+	regional	
	<i>pollination</i>	+/-	+/-	+	+	national	

# Conclusion

- Points for discussion:
  - > Milestones ( + planning)
  - > Additional ecosystem services
  - > Policy linkage opportunities
- Next steps