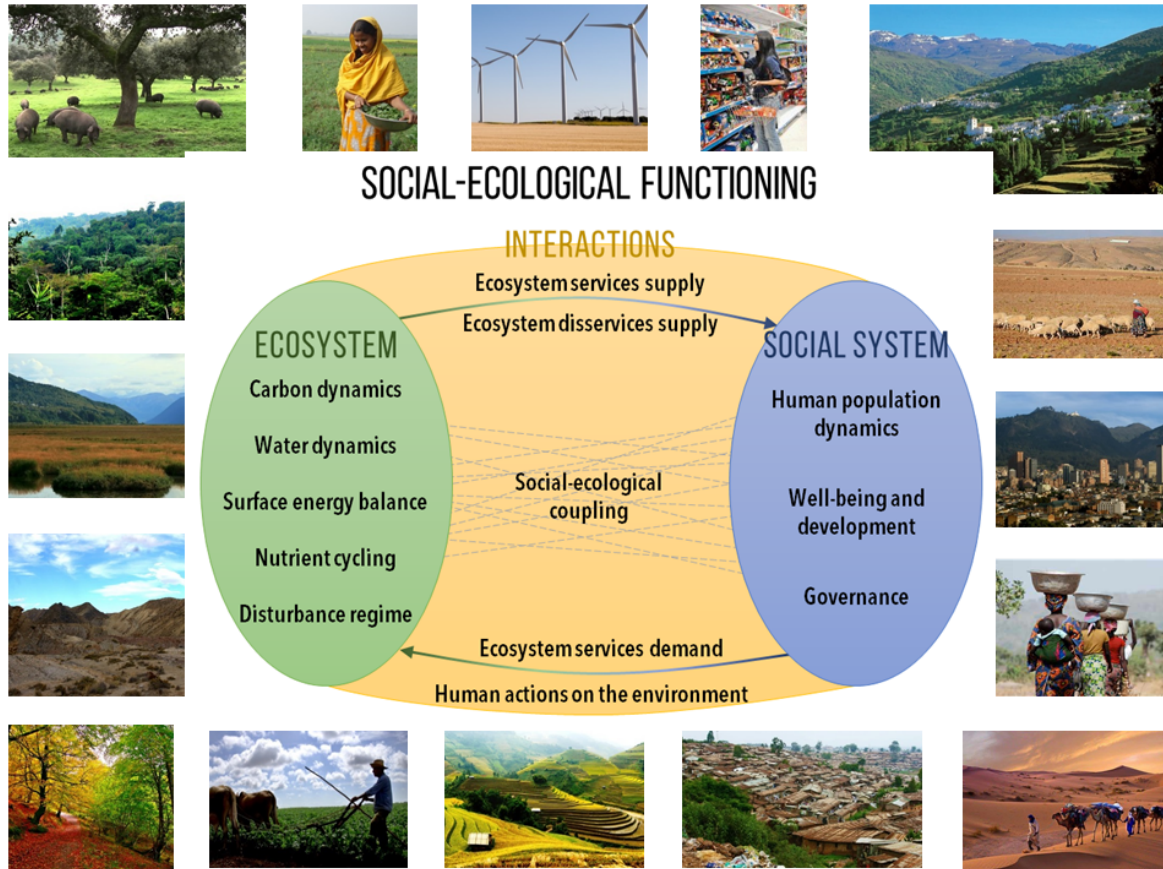


Essential variables to characterize the functioning of Social-Ecological Systems



Participating Institutions



Introduction

This survey aims to collect expert opinions and knowledge about key variables to characterize social-ecological systems functioning.

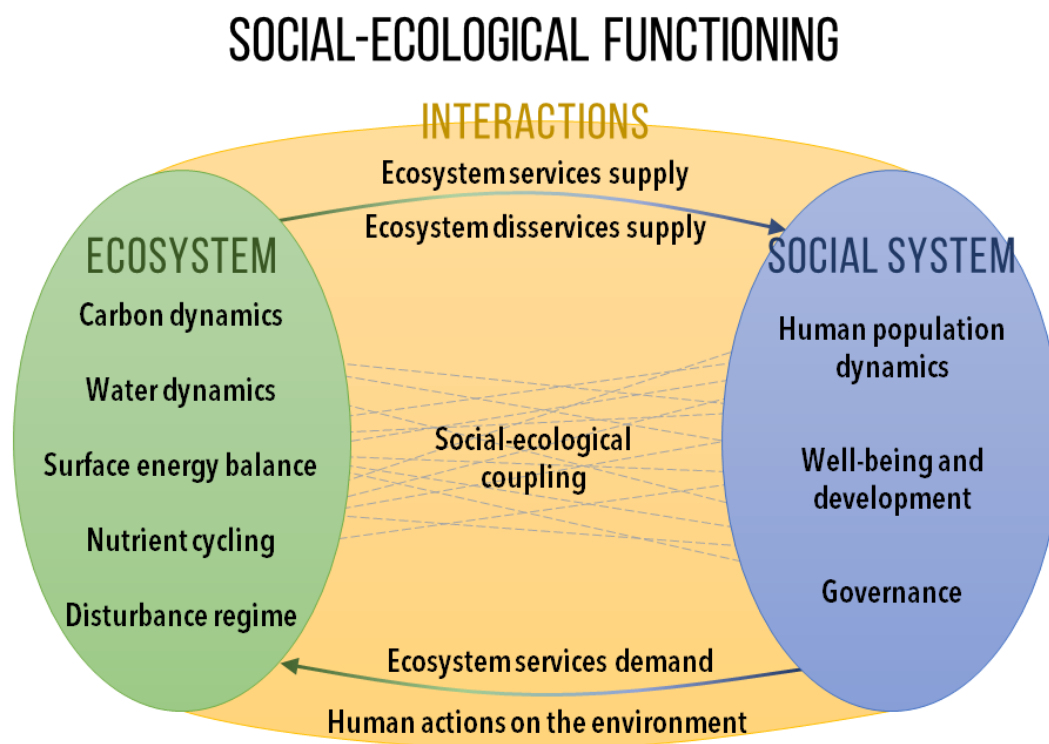
The list of candidate variables is structured in three 'Components' of the social-ecological system (Social System, Ecosystem and Interactions) and each Component into several 'Functional Dimensions' (dimensions of the social system functioning, dimensions of ecosystem functioning, and dimensions of the interactions between the social system and the ecosystem). Possible indicators are shown in some cases only to exemplify, but the answers should focus on the variables.

We ask you to punctuate each variable according to its relevance to characterize the functioning of social-ecological systems. A key aspect to deal with is the issue of context-dependence. We are aware of the difficulties to assess the relevance of proposed variables without bearing in mind any specific social-ecological system. However, we call for a common effort to identify those variables that better explain the differences among social-ecological systems across the world.

We consider as essential those variables that encompass and integrate critical processes to characterize the functioning of social-ecological systems. They should be coherent and appropriate for comparing across social-ecological systems diversity. Spatially, these variables aim to target the ecosystem level and the human community level. Ideally, they should be viable for regional or global implementation in monitoring programs, regional land-use planning, and sustainability and resilience assessment. Our final goal is to integrate both biophysical and social processes to produce a functional characterization and mapping of social-ecological systems at the regional scale and landscape level.

Please, feel free to visit the webpage of the E&SEFT Project: "Ecosystem & Socio-Ecosystem Functional Types: integrating biophysical and social functions to characterize and map the ecosystems of the Anthropocene" (<http://functionaltypes.caescg.org/>) to know more about project goals, scientists involved, and other partners. In this webpage you can also learn more about the variables included in this survey (selection process, definitions, etc.).

*Important: if you are viewing this survey through your mobile phone, we recommend that you use it in horizontal position for better visualization.



Personal data (optional)

In any case, your answers will be treated as confidential

1. **First name:**

2. Last name:

3. Institution/Department:

4. e-mail:

5. Area of expertise:

Selecciona todos los que correspondan.

- Biophysical sciences
- Social sciences
- Sustainability Science
- Environmental management / Territorial planning
- Remote sensing
- Biodiversity Science
- Otro: _____

6. Tick if you want to be acknowledged in derived publications:

Selecciona todos los que correspondan.

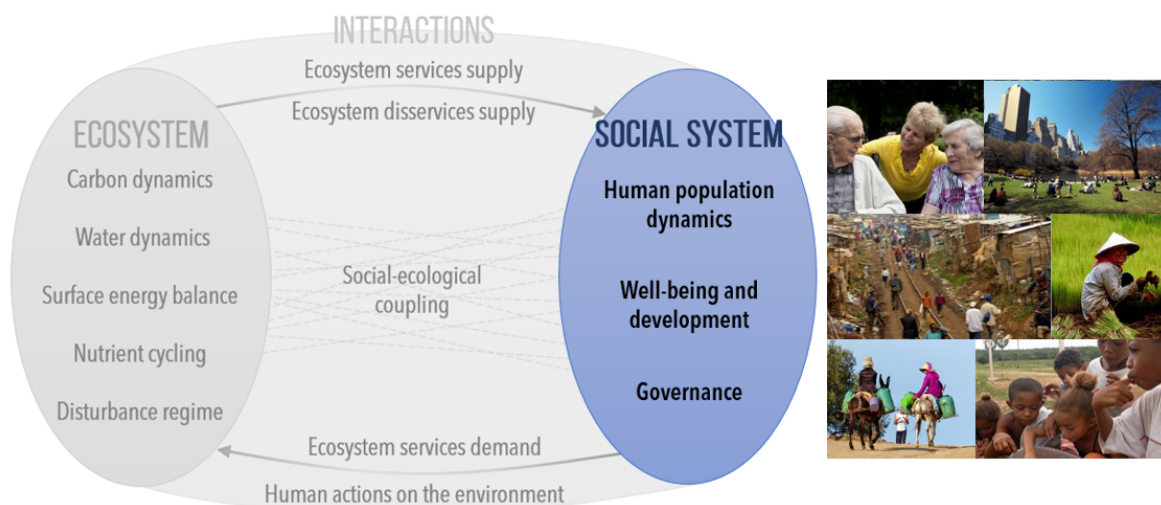
- Yes, include my name in the acknowledgments

7. Tick if you want to receive the results of this study:

Selecciona todos los que correspondan.

- Yes, send to me the results of this study

COMPONENT 1. SOCIAL SYSTEM



Dimension 1a. Human population dynamics

(You are in: Component 1. Social System)

8. In your opinion, which variables that describe human population dynamics are essential to characterize social-ecological systems functioning?

Please, punctuate each variable according to its relevance for being considered as 'Essential Social-Ecological Functional Variable' (from 1 "less essential" to 5 "more essential")

Marca solo un óvalo por fila.

	No essential	1	2	3	4	5
Population density	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Population distribution (e.g.: % rural population vs. % urban population)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Population size	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Human migrations (e.g.: ratio of immigration/emigration)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Population growth rate by natural increase	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Population growth rate by immigration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Age structure (e.g.: median age, population ageing index, dependency ratio)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sex Ratio	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

9. Would you add/modify any variable of human population dynamics to better describe social-ecological systems functioning? Please specify:

Dimension 1b. Well-being and development

(You are in: Component 1. Social System)

10. In your opinion, which variables that describe human well-being and development are essential to characterize social-ecological systems functioning?

Please, punctuate each variable according to its relevance for being considered as 'Essential Social-Ecological Functional Variable' (from 1 "less essential" to 5 "more essential")

Marca solo un óvalo por fila.

	No essential	1	2	3	4	5
Access to drinking water (e.g.: distance to drinking water)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water sanitation (e.g.: % of houses using improved sanitation facilities)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water scarcity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Electricity access	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to internet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Educational level of the population (e.g.: illiteracy rate, % of population with higher education, school enrolment rate, out of school rate for adolescents)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Employment (e.g.: employment rate, unemployment rate)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Economic level of the population (e.g.: household income, income per capita)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poverty (e.g. % of population with unsatisfied basic needs)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Social equality (e.g.: wealth distribution, women participation in government, women literacy rate, Gini Index)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Environmental quality (e.g.: air, water and soil pollution levels)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to healthcare and other basic social services (e.g.: % of population receiving public assistance)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Infant mortality rate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Life expectancy (e.g.: life expectancy at birth)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Total fertility rate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Average household size (e.g.: people per home)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subjective well-being (e.g.: life satisfaction)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Security (e.g.: crime rate)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Social trust (in government, institutions)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

11. Would you add/modify any variable of social well-being and development to better describe social-ecological systems functioning? Please specify:

Dimension 1c. Governance

(You are in: Component 1. Social System)

12. In your opinion, which variables that describe regional governance are essential to characterize social-ecological systems functioning?

Please, punctuate each variable according to its relevance for being considered as 'Essential Social-Ecological Functional Variable' (from 1 "less essential" to 5 "more essential")

Marca solo un óvalo por fila.

	No essential	1	2	3	4	5
Institutional diversity (degree of polycentrism and nesting level in government, with efficient horizontal and vertical coordination)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agenda effectiveness (degree in which the agenda is adequately formulated and assessed to achieve specific goals and have a popular understanding)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stakeholders participation in decision making (degree of stakeholders inclusiveness, with an adequate leadership arrangement and commitment to group and purpose)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internal capacity (degree of sufficiency of resources -money, information and expertise, authority and legitimacy- to achieve success on a specific goal)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
External capacity (skills and reach of the government to connect to - at both the national and international levels- and secure external resources to support regional goals)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Implementation experience (level of experience addressing regional goals and degree of institutionalization of these experience in policies and processes)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Political stability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Corruption level	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Current conflicts (e.g.: armed conflicts, political violence)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Candidate variables from 2 to 6 have been included following Foster & Barnes (2012) proposal of indicators for regional governance.

13. Would you add/modify any variable of governance to better describe social-ecological systems functioning? Please specify:

17. **Would you add/modify any variable of water dynamics to better describe social-ecological systems functioning? Please specify:**

Dimension 2c. Surface energy balance

(You are in: Component 2. Ecosystem)

18. **In your opinion, which variables that describe surface energy balance are essential to characterize social-ecological systems functioning?**

Please, punctuate each variable according to its relevance for being considered as 'Essential Social-Ecological Functional Variable' (from 1 "less essential" to 5 "more essential")

Marca solo un óvalo por fila.

	No essential	1	2	3	4	5
Net solar radiation (insolation)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Downward shortwave (visible [0.4-0.8 μm] + near ultraviolet [0.4-0.3 μm] + near infrared [0.8-2.5 μm]) radiation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Upward shortwave (visible [0.4-0.8 μm] + near ultraviolet [0.4-0.3 μm] + near infrared [0.8-2.5 μm]) radiation (i.e. albedo)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Upward longwave radiation (electromagnetic radiation)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sensible heat, land surface temperature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Downward longwave radiation (thermal infrared [2.5-50 μm])	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Latent heat flux (heat spent in water evapotranspiration)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Snow heat flux	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deep ground heat flux	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air temperature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

19. **Would you add/modify any variable of surface energy balance to better describe social-ecological systems functioning? Please specify:**

Dimension 2d. Nutrient cycling

(You are in: Component 2. Ecosystem)

20. In your opinion, which variables that describe nutrient cycling are essential to characterize social-ecological systems functioning?

Please, punctuate each variable according to its relevance for being considered as 'Essential Social-Ecological Functional Variable' (from 1 "less essential" to 5 "more essential")

Marca solo un óvalo por fila.

	No essential	1	2	3	4	5
Nitrogen fixation (atmospheric nitrogen fixed by N-fixer organisms, e.g.: Rhizobium)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nitrogen deposition (wet and dry deposition of ammonium, nitrate, and particulate nitrogen)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Phosphorus deposition (e.g.: aerosols and atmospheric dust, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gross nitrogen mineralization (e.g.: rate of production of ammonium in soils)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Net nitrogen mineralization (e.g.: net rate of production of plant-available nitrogen)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Soil phosphorus availability (e.g.: concentrations of non-occluded soil phosphorus)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nitrogen status of plants (e.g.: plant tissue nitrogen concentrations)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Phosphorus status of plants (e.g.: plant tissue phosphorus concentrations)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

21. Would you add/modify any variable of nutrient cycling to better describe social-ecological systems functioning? Please specify:

Dimension 2e. Disturbance regime

(You are in: Component 2. Ecosystem)

22. In your opinion, which variables that describe disturbance regime are essential to characterize social-ecological systems functioning?

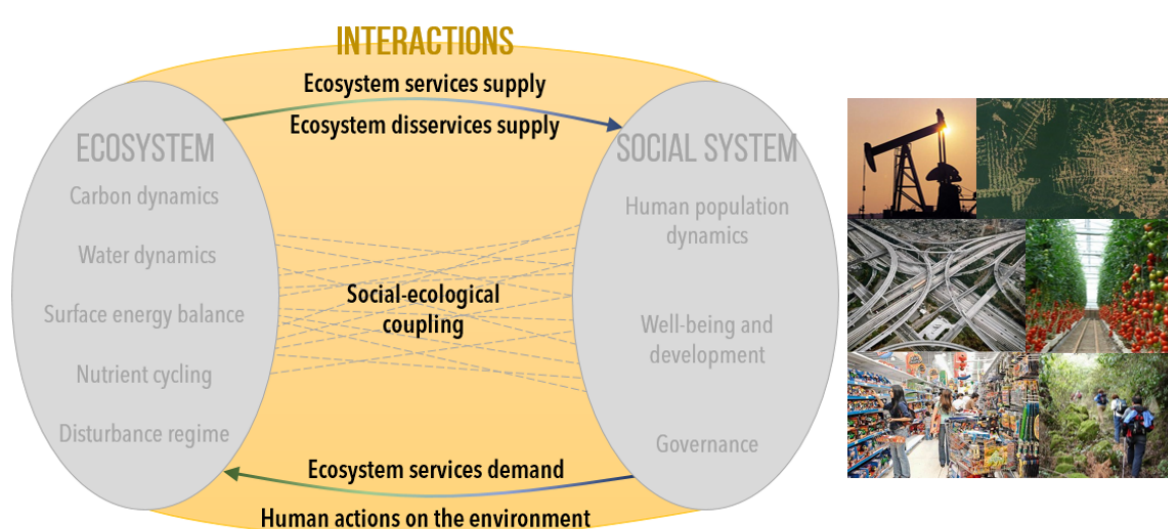
Please, punctuate each variable according to its relevance for being considered as 'Essential Social-Ecological Functional Variable' (from 1 "less essential" to 5 "more essential")

Marca solo un óvalo por fila.

	No essential	1	2	3	4	5
Drought occurrence [frequency, severity, extension]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fire occurrence [frequency, severity, extension]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Flood occurrence [frequency, severity, extension]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Herbivory (natural, not cattle grazing) [frequency, severity, extension]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pest outbreaks occurrence [frequency, severity, extension]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hurricanes/ storms occurrence [frequency, severity, extension]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Landslides occurrence [frequency, severity, extension]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Volcanic eruptions occurrence [frequency, severity, extension]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

23. Would you add/modify any variable of disturbance regime to better describe social-ecological systems functioning? Please specify:

COMPONENT 3. INTERACTIONS



Dimension 3a. Ecosystem services supply

(You are in: Component 3. Interactions)

This candidate variables have been adapted from the Common International Classification of Ecosystem Services (CICES) 4.3 version ('class' level of this classification for provisioning and regulating services, and 'group' level for cultural services) (European Environment Agency, 2013).

27. Would you add/modify any variable of ecosystem services supply to better describe social-ecological systems functioning? Please specify:

Dimension 3b. Ecosystem disservices supply

(You are in: Component 3. Interactions)

28. In your opinion, which variables that describe ecosystem disservices supply are essential to characterize social-ecological systems functioning?

Please, punctuate each variable according to its relevance for being considered as 'Essential Social-Ecological Functional Variable' (from 1 "less essential" to 5 "more essential")

Marca solo un óvalo por fila.

	No essential	1	2	3	4	5
Bio-economic (e.g.: biological invasions, agricultural and fisheries pests and diseases incidence, red tydes)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Abiotic-economic (e.g.: droughts and fires occurrence, siltation, leaching of nutrients)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bio-health (e.g.: human diseases incidence from pathogens, allergens)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Abiotic-health (e.g.: flood and storm events occurrence)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bio-cultural (e.g.: bird droppings on outdoor sculptures, tree roots cracking pavements)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Abiotic-cultural (e.g.: soil erosion rates, mud/landslide scar events, unpleasant odours from rotting organic matter)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

It is noted that this candidate variables express the incidence of different kinds of harmful events. For simplicity, they have been classified according to their origin and primary dimension of human well-being affected, following Shackleton et al. (2016) approach.

29. **Would you add/modify any variable of ecosystem disservices supply to better describe social-ecological systems functioning? Please specify:**

Dimension 3c. Ecosystem services demand

(You are in: Component 3. Interactions)

30. **In your opinion, which variables that describe the human capture of ecosystem goods and services are essential to characterize social-ecological systems functioning?**

Please, punctuate each variable according to its relevance for being considered as 'Essential Social-Ecological Functional Variable' (from 1 "less essential" to 5 "more essential")

Marca solo un óvalo por fila.

	No essential	1	2	3	4	5
Water use level (e.g.: water consumed per capita/ per year)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water use for irrigated agriculture (e.g.: water use per hectare/ per year)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Energy use level (e.g.: energy consumed per capita/ per year)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Material use level (e.g.: raw materials consumed per capita/ per year)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Human Appropriation of Net Primary Production (e.g.: Tn C extracted/ per hectare/ per year)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Appropriation of land for agriculture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nature tourism (e.g.: number of visitors to natural areas)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

31. **Would you add/modify any variable of ecosystem services demand to better describe social-ecological systems functioning? Please specify:**

Dimension 3d. Human actions on the environment

(You are in: Component 3. Interactions)

32. In your opinion, which variables that describe the human actions on the environment are essential to characterize social-ecological systems functioning?

Please, punctuate each variable according to its relevance for being considered as 'Essential Social-Ecological Functional Variable' (from 1 "less essential" to 5 "more essential")

Marca solo un óvalo por fila.

	No essential	1	2	3	4	5
Land cover/Land use change (e.g.: agriculturization, urbanisation, land abandonment)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Land use intensity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Territorial connectivity (e.g.: distance to main roads, travel time to major cities)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Anthropogenic water management (e.g.: water delivery, drainage and storage systems)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Anthropogenic carbon dioxide emissions (e.g.: per capita CO2 emissions, CO2 emissions by sector of economic activity)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Net carbon dioxide flux (e.g.: CO2 emissions - CO2 sequestration)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pollution (toxic emissions and spills)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Eutrofization of water bodies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Soil erosion (by anthropogenic practices)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conservation tillage (sustainable agricultural practices for soil preservation)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ecological restoration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Land protection (e.g.: % of the territory declared as natural protected area with a management plan)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

33. Would you add/modify any variable of human actions on the environment to better describe social-ecological systems functioning? Please specify:

Dimension 3e. Social-ecological coupling

(You are in: Component 3. Interactions)

No essential 1 2 3 4 5

Non-ecosystem services demand
(goods and services that do not
come directly from ecosystems,
e.g.: socioeconomic services like
hospitals, schools or culture,
internet, manufactured products,
technology)

35. Would you add/modify any variable of social-ecological coupling to better describe social-ecological systems functioning? Please specify:
