

Tu papel hoy y mañana



Día 1 Revisión y peso de los datos

Day 1 Review and weight data

Objetivo: Obtener revisión experta de los datos, determinar los valores de las partes interesadas

Objective: Elicit expert review of data, determine stakeholder values

	Name	Theme	weight
1	Amphibians (range restricted)	CBD	1.00
2	Biological corridors	CBD	1.00
3	Birds (range restricted)	CBD	1.00
4	Mammals (range restricted)	CBD	1.00
5	Protection Suitability	CBD	1.00
6	Ramsar sites	CBD	1.00
7	Reptiles (range restricted)	CBD	1.00
8	Agricultural Suitability	SDG	1.00
9	Forest Water Yield	SDG	1.00
10	Opportunities to Reduce Freshwater Flood Risk	SDG	1.00



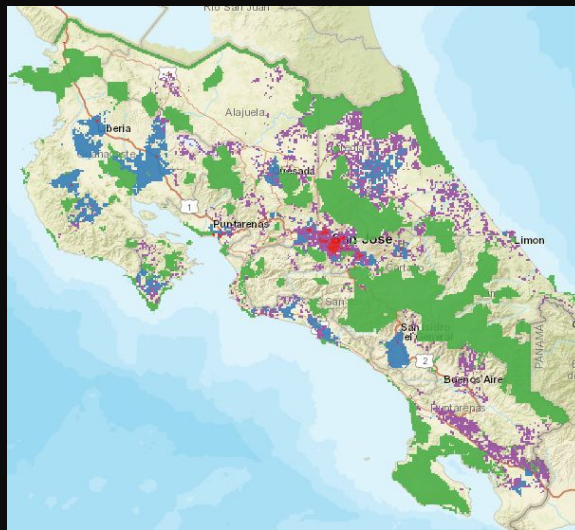
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Día 2 Codesarrollar mapas ELSA

Day 2 Co-develop ELSA maps

Objetivo: Usar los pesos de las partes interesadas para crear mapas de acción ELSA, revisar los mapas y compensaciones, reiterar

Objective: Use stakeholder weights to create ELSA action maps, review maps and tradeoffs, reiterate



Lo que estamos haciendo es especial

What we are doing is special

Planificación para la conservación	No	Yes
<i>Conservation planning</i>		
Optimización espacial <i>Spatial optimization</i>	50%	50%
Objetivo Múltiple <i>Multiple Objective</i>	80%	20%
Zona Múltiple <i>Multiple Zone</i>	97%	3%
No técnico <i>Non-technical</i>	95%	5%
Hecho en tiempo real <i>Done in real time</i>	95%	5%

La enchilada grande de Costa Rica. Que yo sepa, es la primera vez que algo como esto se ha hecho en alguna parte

Costa Rica big Enchilada is the first time this has been done anywhere, that I know of

Capas para ELSA

Layers for ELSA

33 capas creadas para el proyecto ELSA-CR:

33 layers created for the ELSA-CR project:

PLANNING UNITS:

- Unidades de Planeación/*Planning Units*
- Zona de Amortiguamiento de las Unidades de Planeación/*Planning Units Buffer*

ACTIONS:

- Agricultura/*Agriculture*
- Bosque/*Forest*
- FSCI
- Huella Humana/*Human Footprint*
- Zonas de Vida Bosque y Manglar/*Life Zones Forest and Mangrove*
- Pagos por Servicios Ecosistémicos/*Payments for ES*
- Áreas Naturales Protegidas/*Protected Natural Areas*
- Urbano No urbano/*Urban non-Urban*

OUTCOMES:

- Idoneidad Agrícola/*Agriculture Suitability*
- Corredores Biológicos/*Biological Corridors*
- Rendimiento Hídrico del Bosque/*Forest Water Yield*
- Manglares/*Mangroves*
- Oportunidades para Reducir Riesgo de Inundación/*Opportunities to Reduce the Flood Risk*
- Oportunidades para Reducir Riesgo de Inundación Marítima/*Opportunities to Reduce the Marine Flood Risk*
- Potencial Suministro de Agua Potable/*Potential Clean Water Provision*
- Potencial Carbono Orgánico Hi/*Potential Organic Carbon Hi*
- Potencial Carbono Orgánico Me/*Potential Organic Carbon Me*
- Pobreza/*Poverty*
- Idoneidad de Protección/*Protection Suitability*
- Sitios Ramsar/*Ramsar Sites*
- Valor del Agua liberada/*Released Water Value*
- Riqueza de Especies 50p (Anfibios, Aves, Mamíferos, Reptiles)/*Species Richness 50p (Amphibians, Birds, Mammals, Reptiles)*
- Carbono en la Biomasa Terrestre/*Terrestrial Biomass Carbon*
- Carbono en el Suelo Terrestre /*Terrestrial Soil Carbon*
- Oportunidades de Enverdecimiento Urbano/*Urban Greening Opportunities*
- Contaminación del Agua/*Water Contamination*

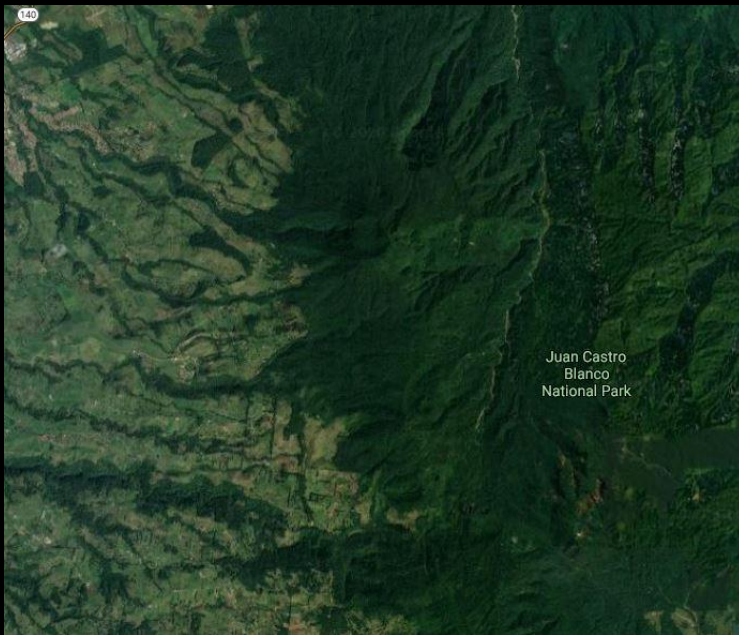
Outcome from yesterday

- Initial weights
- First reveal and engagement
- Comments
- Results
- Data sources

Definition and restrictions: Protect

Protection: Equivalent land use restrictions as protected areas, maintains natural ecosystem processes, restricts human land uses

Where: Not in Urban or Agricultural Areas (30%), not in low integrity forests



Definition and restrictions: Manage

Management: Sustainable management in agricultural areas to increase soil organic material, reduces erosion, reduces fertilizer and pesticides, increases habitat structure.

Where: In agricultural areas, not in urban areas



Definition and restrictions: Restore

Restoration: Passive or active restoration of ecosystems, including forests. Increases habitat structure and vegetation biomass, especially in areas that are currently depredated.

Where: Not in urban and agricultural areas, in places that were naturally forest, but are now not forest or are low integrity forest



Definition and restrictions: Urban Greening

Urban greening: Active restoration of greenspace and trees in urban areas. Decreases the urban heat island effect by 2-3 C, improves health and well being of urban residents, provides habitat for some biodiversity.

Where: In urban areas



El problema que estamos resolviendo

The problem we are solving

¿Dónde en Costa Rica la protección, la agricultura sostenible, la restauración forestal y el enverdecimiento urbano creáran los mejores resultados basados en la naturaleza para los objetivos de biodiversidad, clima y desarrollo sostenible?

Where in Costa Rica will protection, sustainable agriculture, forest restoration and urban greening create the greatest nature-based outcomes for biodiversity, climate and the sustainable development goals?

$$\begin{aligned} & \text{Maximize } \sum_{i=1}^I -s c_i x_i + \sum_{j=1}^J a_j w_j \\ & \text{subject to} \\ & a_j = \sum_{i=1}^I x_i r_{ij} \quad \forall j \in J \\ & \sum_{i=1}^I x_i c_i \leq B \end{aligned}$$

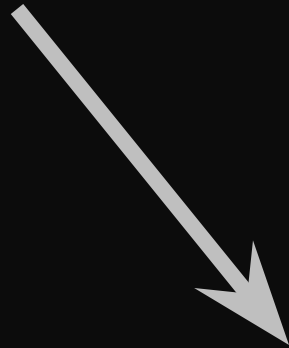
1) Biodiversity



2) Carbon



3) Local People



4) All together = ELSA

Let's do it