

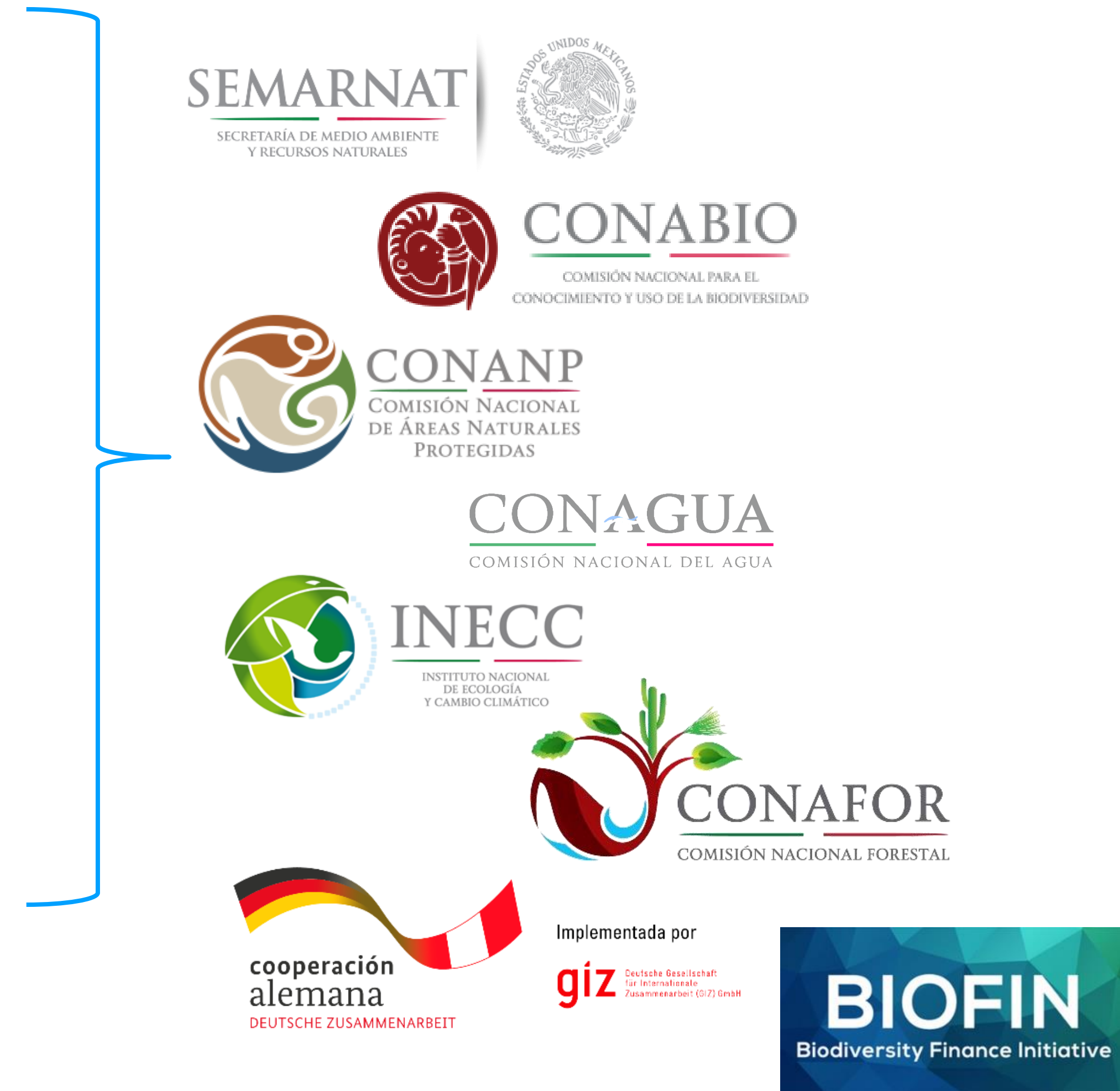
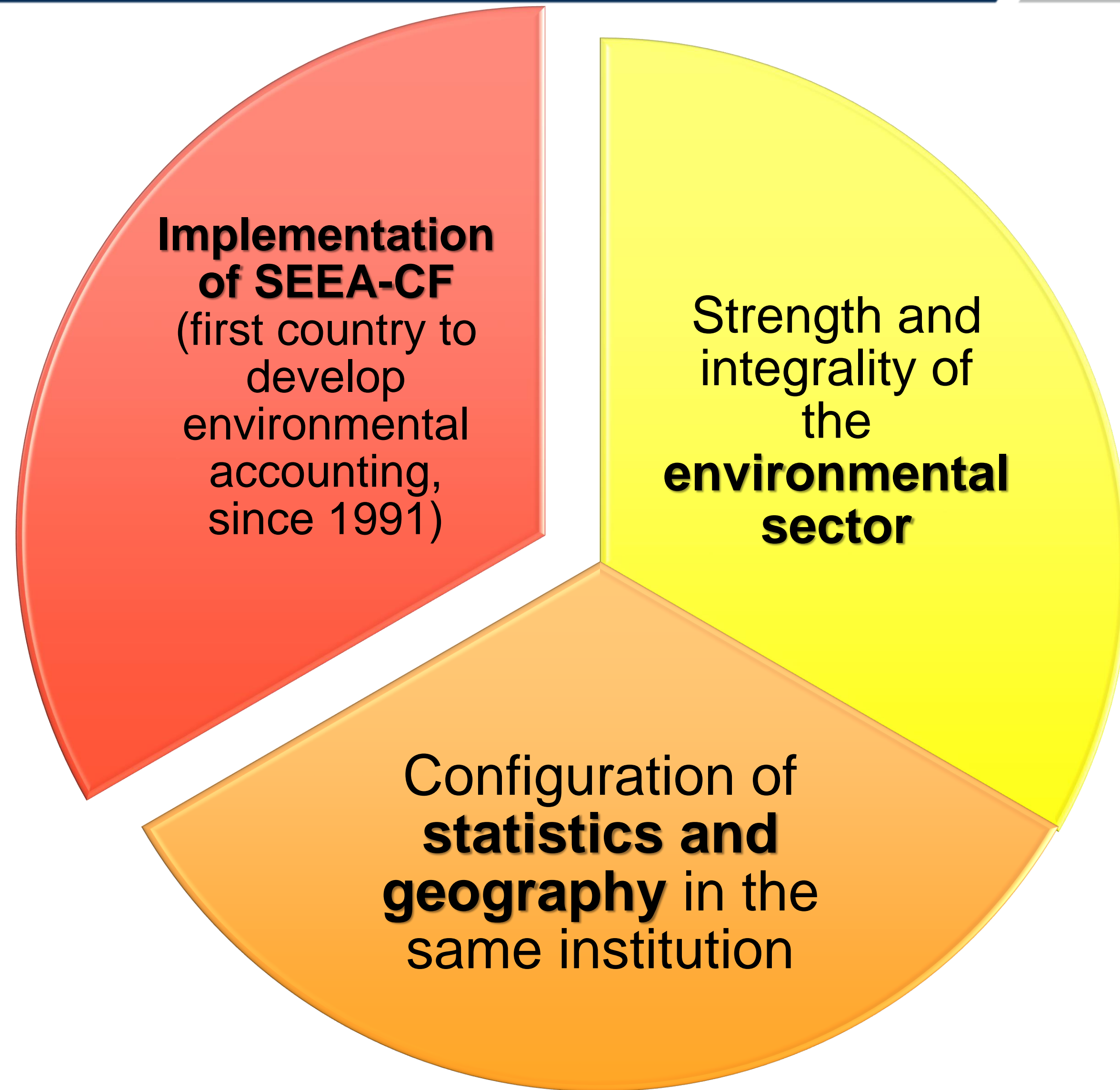


Environmental Ecosystem Accounting in Mexico (SEEA-EEA Mx)

Raúl Figueroa Díaz

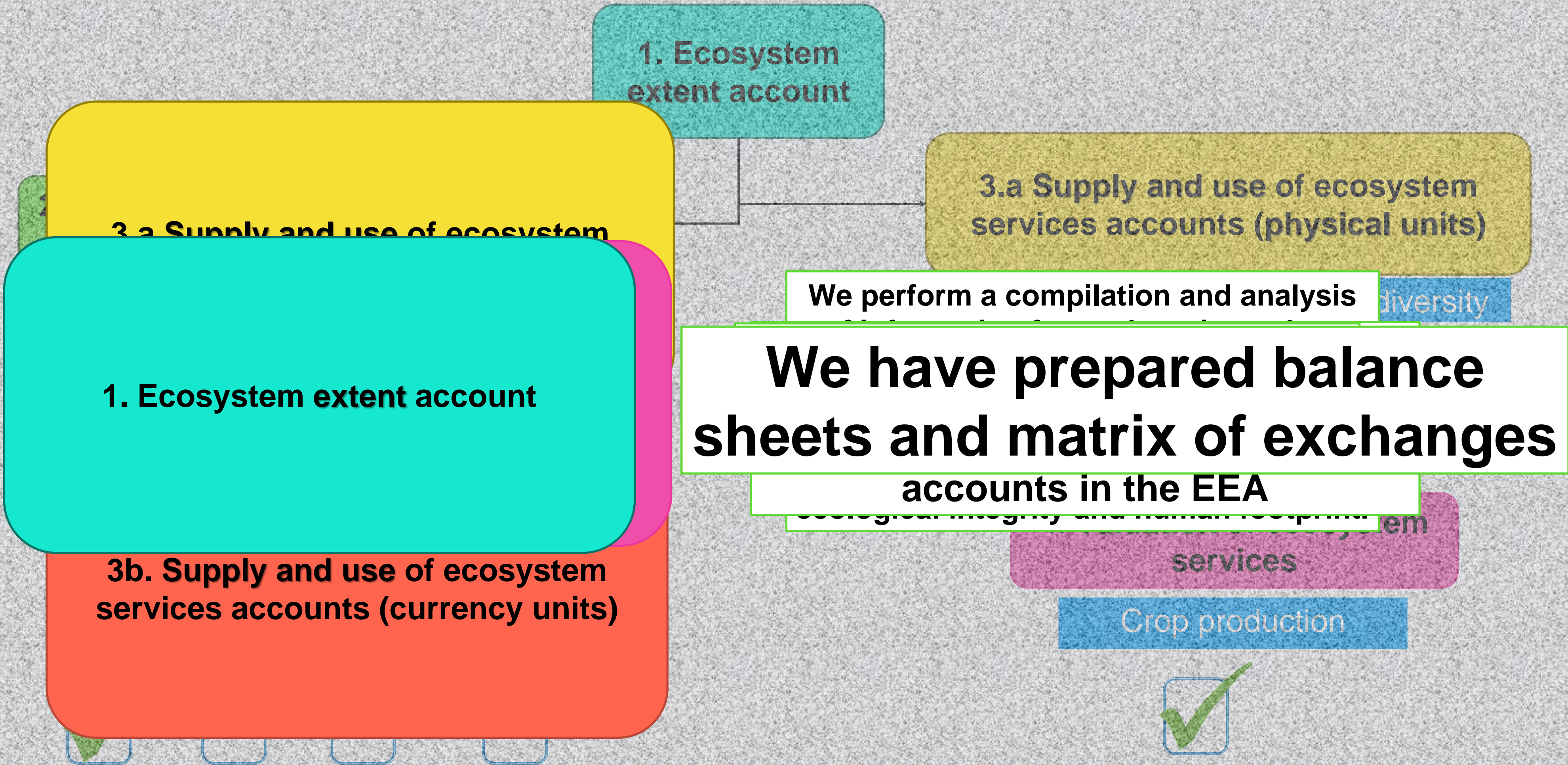
November 2019

| Progress and results of the project



Accounts in
physical
units

Accounts in
currency
units

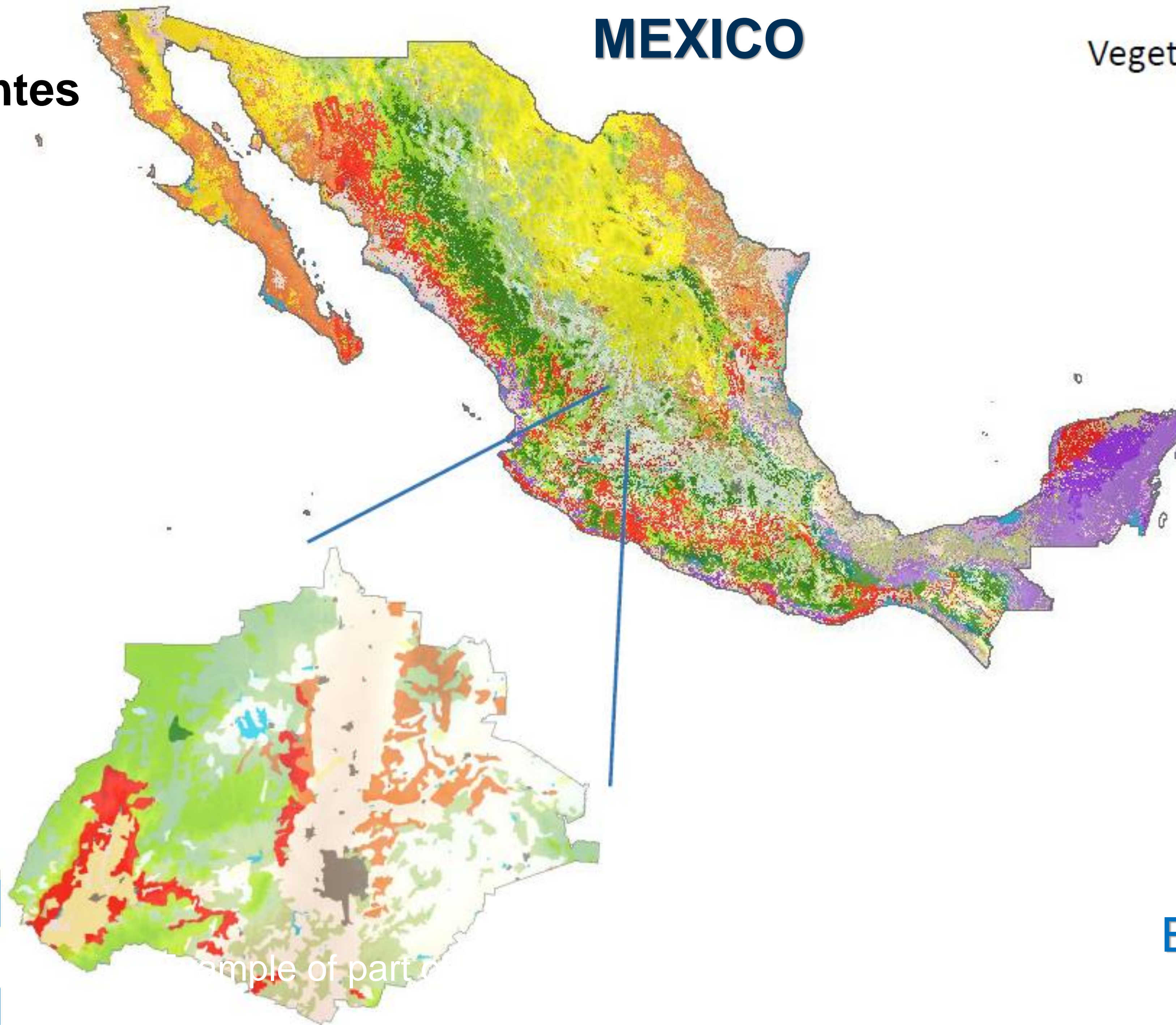


Aguascalientes State

MEXICO

Vegetation and land-use 2002

- Conifer forest
- Oak woodland
- Mountain cloud forest
- Evergreen tropical forest
- Semideciduous tropical forest
- Deciduous tropical forest
- Woody xerophytic shrubland
- Non-woody xerophytic shrubland
- Grassland
- Woody hydrophilous vegetation
- Non-woody hydrophilous vegetation
- Woody Special Vegetation types
- Non-woody Special Vegetation types
- Other lands
- Annual crops
- Perennial crops
- Forest plantation
- Human settlements
- Aquaculture
- Water bodies
- Ocean



Extent accounts



Aguascalientes State

MEXICO

Year 2013 Year 2002	Annual agriculture	Permanent agriculture	Human settlements	Primary coniferous forest	Primary Oak Forest	Secondary oak forest	Water bodies	Primary Woody Xerophilic Scrub	Secondary Woody Xerophilic Scrub	Other lands	Grassland	Secondary Deciduous Forest	Total
Annual agriculture	2,079.02	2.35	74.42	0.00	0.45	3.70	1.41	6.41	12.34	0.00	20.34	1.80	2,202.24
Permanent agriculture	2.81	174.02	9.06	0.00	0.00	0.00	0.13	0.78	0.00	0.00	1.37	16.28	204.46
Human settlements	0.61	0.00	110.80	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	111.52
Primary coniferous forest	0.00	0.00	0.00	11.32	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	11.44
Primary Oak Forest	0.22	0.00	0.00	0.00	343.57	60.37	0.02	0.00	0.00	0.00	28.78	1.29	434.25
Secondary oak forest	5.01	0.25	0.00	1.20	18.38	417.56	0.12	0.00	0.00	0.00	8.97	31.88	483.37
Water bodies	0.02	0.00	0.11	0.00	0.00	0.00	43.50	0.00	0.00	0.00	0.00	0.05	43.68
Primary Woody Xerophilic Scrub	25.03	0.38	3.96	0.00	0.00	0.00	0.00	173.03	90.47	0.00	9.92	1.09	303.88
Secondary Woody Xerophilic Scrub	1.61	0.12	1.95	0.00	0.00	0.00	0.00	2.86	73.30	0.88	8.75	0.00	89.48
Other lands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grassland	124.86	3.27	8.94	0.00	18.68	103.46	0.73	4.77	2.02	0.39	1,134.14	4.75	1,406.00
Secondary Deciduous Forest	14.54	7.57	0.10	0.00	2.74	3.54	0.60	0.00	0.00	0.00	12.05	284.22	325.35
Total	2,253.74	187.96	209.35	12.52	383.83	588.74	46.61	187.85	178.14	1.27	1,224.33	341.35	

Selected services for the study case of Mexico

- 1) Carbon capture and retention (in soil and biomass)
- 2) Provision of priority crops (rice, beans, corn, sorghum, soybeans and wheat)
- 3) Water supply (surface and groundwater)
- 4) Regulation of natural disasters in coastal areas (mangroves)

		Type of measure	
		Ecosystem characteristics	Pressures on the ecosystem
Aggregation	Individual indicators or variables	<ul style="list-style-type: none"> • Vegetation conservation status • Water erosion • Organic carbon content in soil • Biodiversity 	<ul style="list-style-type: none"> • Infrastructure farming • Cattle raising • Mining • Urban Development • Tourism, etc
	Composite indices or indicators	<ul style="list-style-type: none"> • Ecosystem Integrity Index • Ecological Integrity Index 	<ul style="list-style-type: none"> • Human footprint

Economic valuation purpose: Services that the ecosystem provides for crop production

$$V_x = VBP - CI - (FBKF - CKF) - RT - CDg$$

Where:

V_x = Value of the service that the ecosystem provides for the crop x

VBP = Gross Value of crop Production x

CI = Intermediate crop consumption x

$FBKF$ = Gross Fixed Capital Formation of the crop x .

CKF = Consumption of Fixed Capital of the crop x

RT = Total Compensation of the crop x

CDg = Cost of soil degradation caused by the crop x



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