

## Societal Biodiversity Awareness Study 2022

Brazil, Colombia, India, Indonesia, Kenya, Mexico. Peru. South Africa, Vietnam



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## Content





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The study project design

How to measure awareness?

Societal Biodiversity Awarness Study

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Why measuring awareness?

## Assessing biodiversity awarness: Benefits for policy & decision makers





#### In general terms

- policies across all sectors, particularly nature conservation policy
- nature conservation communication & education
- fulfillment of reporting obligations at the national level

#### In specific, for example:

- Including society into decisions: Basis for developing of measures, strategies and policies concerning or impacting biodiversity conservation.
- Including level of awareness of the society: Basis for developing of communications campaigns and strategies.
- The new indicator can enable the derivation of development targets in a determined period
- The development of the biodiversity awareness for each country can be assessed in a comparable way over time.
- Develop measurements / policies with measurable targets which promotes awareness about biodiversity.

## Policy: Biodiversity Awareness in international Strategies





#### **Convention on Biological Diversity - 1992**

#### **Article 13. Public Education and Awareness**

**The Contracting Parties shall:** 

- (a) Promote and encourage understanding
- (b) Cooperate, as appropriate, with other States and international organizations in **developing educational and public awareness programmes**

Strategic Plan of Biodiversity 2011 – 2020 (extended to 2022) Target 1: By 2020, at the latest, people are aware of the values of biodiversity and the steps they can take to conserve and use it sustainably.

#### SDG's

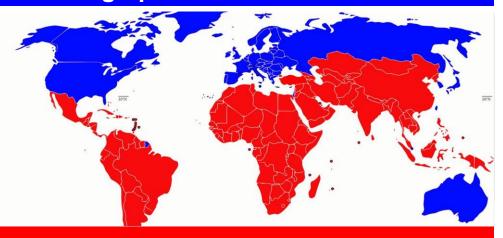
#### Post-2020 GBF

**Target 21** "...enabling monitoring, and by **promoting awareness**, education and research." Section K "Outreach, Awareness & Uptake"

## **Behavioural Science Research: Gaps**



#### **Geographical focus: Global North**



**Underrepresented: Global South** 



Energy



**Transportatio** 



Water



Biodiversity



How to measure awareness?

## **Assessment tool: How to measure awareness?**





# **Goal of the Societal Biodiversity Awareness Indicator**

- Measuring awareness
- Predicting & influence behaviour

#### Theoretical core

- Theory of planned behaviour (Ajzen, 1991)
- Norm activation model (Schwartz & Howard, 1981)

#### Result

Societal Indicator on Biodiversity Awareness (2022)

The cross-cultural invariance of a new biodiversity index (2023)

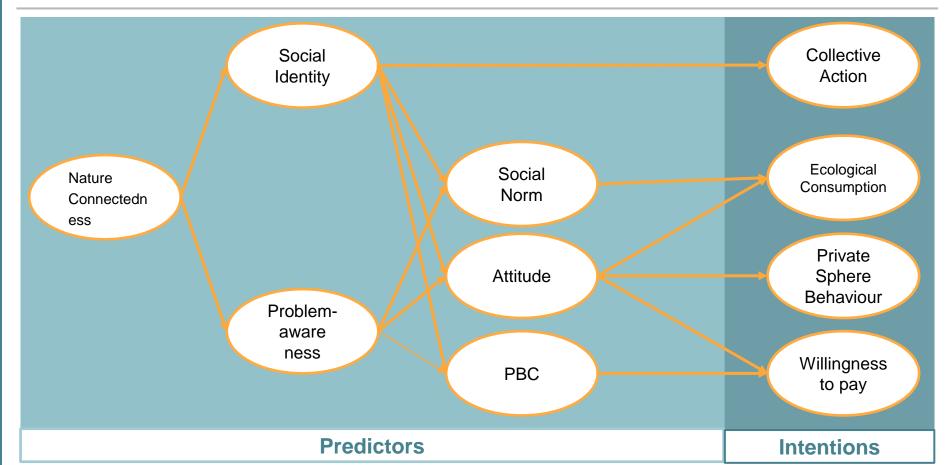
## **Background: Aspects of Awareness**



	Constructs	Item (examples)				
	Nature Connectedness	I am part of nature, not separate from it.				
	Problem Awareness	By destroying biodiversity, humans are endangering the very foundation of life.				
tors	Social Norms	People wo are important to me prefer buying products produced in an eco-friendly way.				
Predictors	Attitude	Preferring to buy products in an eco friendly way for me is				
<b>L</b>	Perceived Behaviour Control (PBC)	Preferring to buy products produced in an eco friendly way for me is				
	Identification with Nature Conservation Group	I feel connected to groups that are actively committed to protecting biodiversity.				
	Social Identity	Keep informed about current developments regarding biodiversity.				
ntentions	Lifestyle Change / Ecological Consumption	Live more frugally so that future generations can continue to benefit from nature's diversity and wealth.				
Inten	Collective Action	Participate actively in a nature conservation organization in order to help conserve nature and biodiversity.				
	Willingness to pay for nature conservation	Donate money to the care and maintenance of a protected area.				

## **Background: Structural modell**







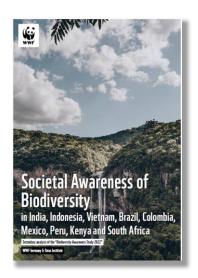
**Societal Biodiversity Awareness Study** 

## **Background: Societal Biodiversity Awareness Study**



#### **Biodiversity Awareness Study 2018 and 2022**







#### **ASIA**

#### **LATIN AMERICA**

**AFRICA** 



















## **Methodology: Data collection**





#### **Target group**

- Online
- 18 to 65 years



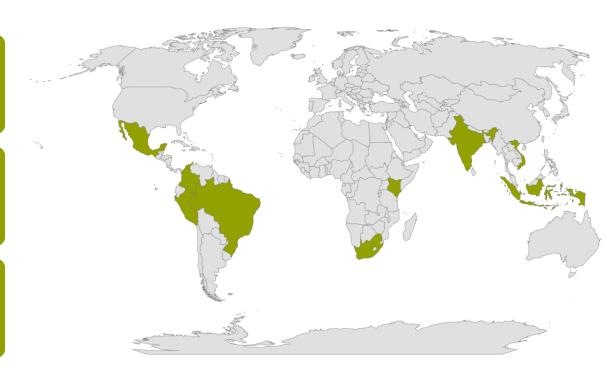
#### Method

Standardised online interviews (CAWI)



#### **Implementation**

- November 2021
- Ca. 25. min per query



## **Methodology: Data analysis**



	Ø	India	Indonesia	Vietnam	Brazil	Columbia	Mexico	Peru	Kenya	South Africa
1. Quartile	25			-		on betv				
2. Quartile	25				ample	alues we (N = 10, groups	260) in	to four	-	)
3. Quartile	25									
4. Quartile (SBA-Indicator)	25									

## **Results: Overall indicator**



	Ø	India	Indonesia	Vietnam	Brazil	Columbia	Mexico	Peru	Kenya	South Africa
1. Quartile	25	16	30	19	45	18	25	21	22	35
2. Quartile	25	24	25	23	27	22	26	27	25	25
3. Quartile	25	30	23	26	16	27	22	26	28	22
4. Quartile (SBA-Indicator)	25	31	23	32	13	33	27	27	25	19



**Results: Socio demographics** 

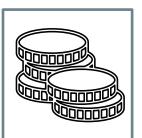
## Composition: Socio demographics global





#### Gender:

• Male / Female: 50/50



#### Household Income

• Low: 29%

Average: 37%

• High: 31%

#### Age:

18 – 29 years: 39%
30 – 39 years: 31%
40 – 49 years: 16%

• 50 – 65 years: 14%



#### **Residential Location**

• Urban: 66%

Sub-urban: 29%

Rural: 5





#### **Education:**

Low formal education:12%

• Average: 19%

• High: 69%



#### Children in household

• With: 78%

• Without: 22%

## Composition: Socio demographics country wise



Figures in percent	Ø	India	Indonesia	Vietnam	Brazil	Columbia	Mexico	Peru	Kenya	South Africa
rigules ili percent	D	•			<b>(</b>			4)		
Gender										
Male	50	52	50	48	47	48	49	52	52	49
Female	50	48	49	52	52	52	50	48	48	51
Age group										
18 to 29 years	39	35	39	51	34	36	28	39	67	33
30 to 39 years	31	34	35	34	25	28	30	29	28	30
40 to 49 years	16	17	16	11	17	19	20	19	5	19
50 to 65 years	14	14	10	4	24	17	21	13	1	18
Education										
Low formal education	12	5	5	11	36	12	4	8	9	25
Average formal education	19	10	36	13	12	18	17	23	20	24
High formal education	69	85	59	76	52	70	78	69	71	51

## **Composition: Socio demographics country wise**



Figures in percent	Ø	India	Indonesia	Vietnam	Brazil	Columbia	Mexico	Peru	Kenya	South Africa
rigares in personi	-	•			<b>(</b>			0		
Household income										
Low income	29	22	30	10	34	37	30	50	32	25
Average income	37	40	49	31	32	39	26	25	47	44
High income	31	36	19	58	29	19	40	22	17	28
No answer	3	2	2	1	5	5	4	3	5	3
Residential location										
Urban	66	80	56	69	59	82	82	86	20	41
Sub-urban	29	16	36	22	39	16	16	13	68	53
Rural	5	4	8	10	2	2	1	1	12	5
Children in household										
Children in household	78	83	89	85	75	81	79	82	63	77
No children in household	22	17	12	15	25	19	21	18	37	23

## **Results: Education**



Campaigns seem to have appealed more to people with a high education

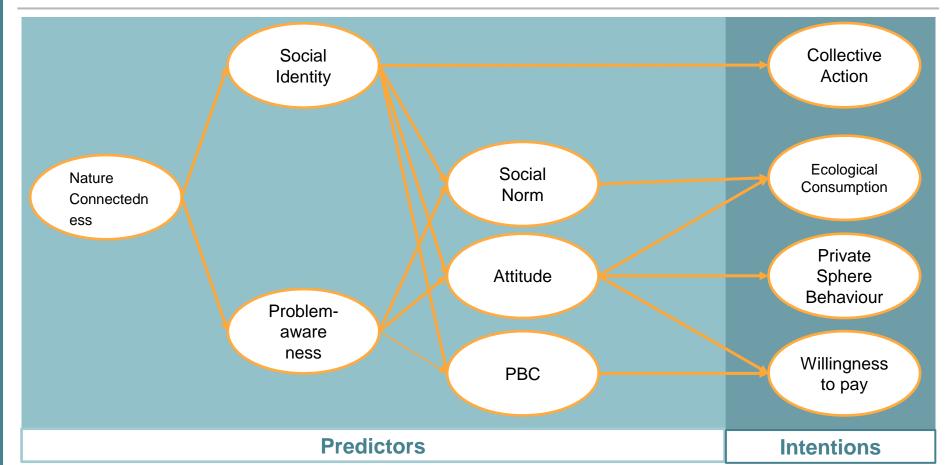




Strutural modell examples

## **Background: Structural modell**

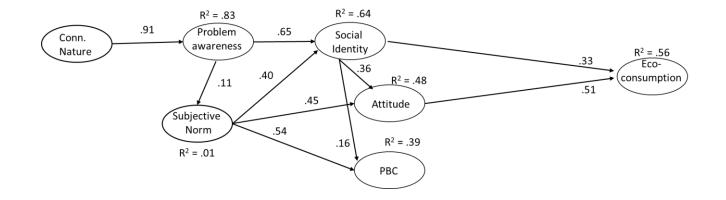




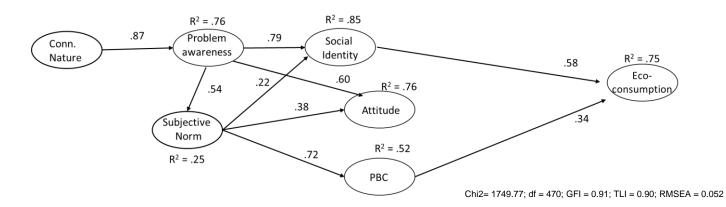
## **Structural Modell: Transnationally aplicable**









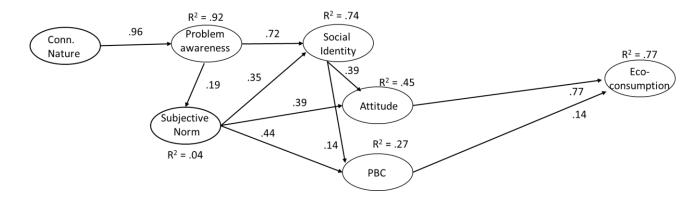


## Structural Modell: Age differences in Mexico

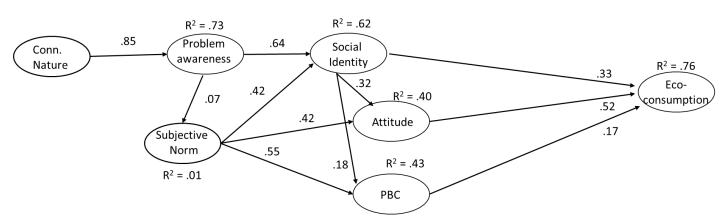




Age <30



Age >30





# **Constructs example**

## **Background: Aspects of Awareness**



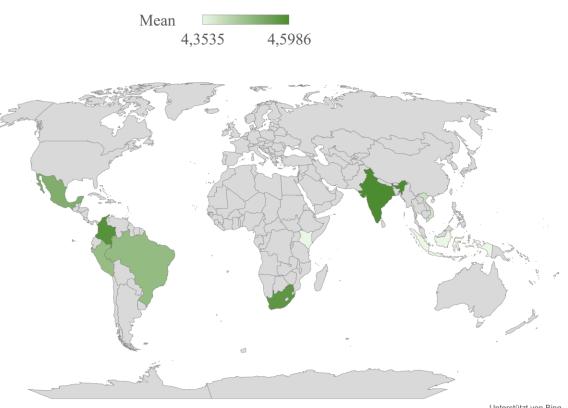
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## **Results: Nature Connectedness**



#### **Predictors**

	N	Mean	SD
Brazil	958	4,4889	,66391
Colombia	968	4,5854	,76479
India	960	4,5986	,56916
Indonesia	1009	4,3538	,66767
Kenya	1008	4,3535	,73058
Mexico	1014	4,5181	,71528
Peru	1003	4,4842	,83280
South Africa	997	4,5724	,57602
Vietnam	989	4,3997	,70134
World	9892	4,4731	,68872



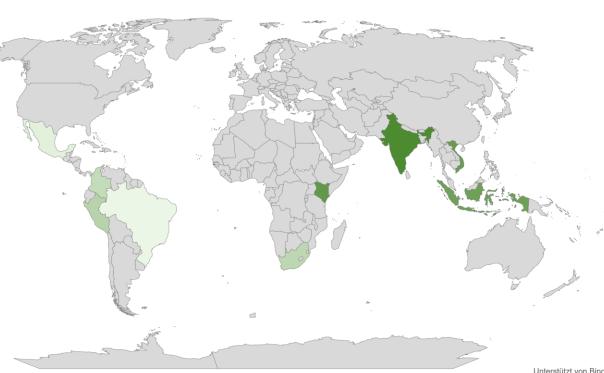
## **Results: Social Norm**



#### **Predictors**

	N	Mean	SD
Brazil	949	3,2993	1,11751
Colombia	930	3,5161	1,03568
India	979	4,1958	,80791
Indonesia	1027	4,0094	,81664
Kenya	1010	4,0809	,83263
Mexico	975	3,3480	1,04393
Peru	966	3,5894	,97959
South Africa	986	3,5632	1,03067
Vietnam	1013	4,0494	,88215
World	9830	3,7849	,98616





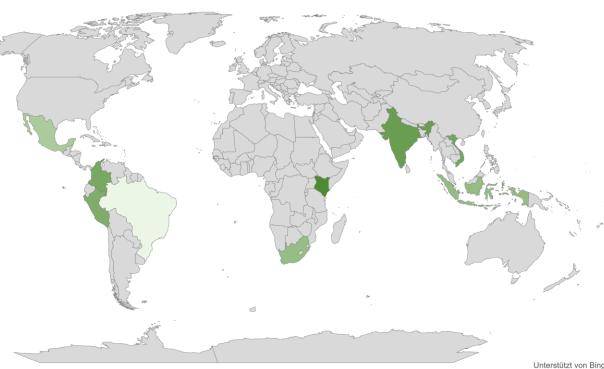
## **Results: Collective Action**



#### **Intentions**

	N	Mean	SD
Brazil	940	3,2723	,72855
Colombia	948	3,5258	,54132
India	940	3,5588	,48315
Indonesia	1007	3,4593	,51065
Kenya	999	3,6199	,53059
Mexico	995	3,4121	,59819
Peru	985	3,5079	,54754
South Africa	982	3,4562	,58610
Vietnam	969	3,5312	,49284
World	9714	3,4797	,55631







**Benefits for communication & education** 

## Benefits of the indicator for communication & education





- Great oversight on the state of awareness for biodiversity in the nine countries
- Transnationally applicable
- Complex model analysis
- Socio-Demographics show which demographics are not yet reached
- Constructs show where to start



# Thank you



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