





Human Development Report **2020**

The next frontier: Human development and the Anthropocene

#HDR2020

Lessons learned from the Human Development Report 2020





01

Renewing human development for the Anthropocene

Heriberto Tapia

02

Anthropocene risks and human development

Heriberto Tapia

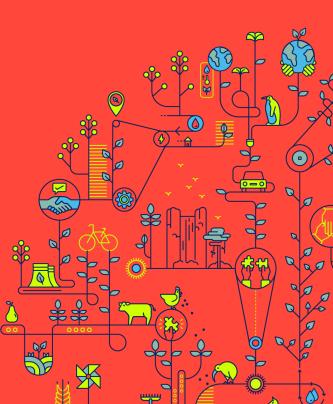
03

Acting for change Carolina Rivera

04

Nature-based Solutions and Household Well-Being: Evidence from LAC

Almudena Fernandez



1990: Human Development Index (HDI) is born

UN DP

"People are the real wealth of nations" (Human Development Report 1990)

But how to measure development? Can be find a single number?

Amartya Sen: "you must see how vulgar this imagined *single number* must be in terms of trying to represent simultaneously so many distinct features of life!"

Mahbub ul Haq: "People will pay tribute to the excellence of your multiple components, but when it comes to ready use, they will abandon your complicated world and choose the single GDP number instead".

HDI (composite index): measures income, education and health

+ comprehensive tables/dashboards

Human Development Index (HDI) as standard of development

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Qatar	25*30N 51*15E			
From Wikipedia, the free encyclopedia				
This article is about the country. For other places, see Qatar (disambguation).				Area
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In early 2017, Gatar's total population was 2.0 million: 313,000 Gatari otdanes and 2.3 million exceptionales (%) jeans to the official relation of Gatari ¹⁰⁰ In terms of income, the country has the third-highest GDP (PPP) per capits in the work ⁽²⁾ and the soft-highest (K) per capits (Alsa method). ¹²² Gatar is classified by the UI	(Arabic) دولة قطر Dewlat Qatar)		
as a country of very high human development, having the third-highest HDI in the Arab world after United Arab Emistes and Soudi Arabia. I ^{DI} Qatar is a World Bank high-income economy, backed by the world's third-largest natural gas reserves and oil reserves. ^[26]	(all a		
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The FIFA World Cup 2022 will be held in Castar, making it the first Muslim and Arab country to host the event. ¹⁰⁰	لسلام الأميري :Anthem	Emblem		
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6.2 Transport	Religion (2010) ^[3] 67.7%			
7 Demographics 7 1 Belian	(officia	al) Christianity		GDP
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Etymology	Declared Independence 1 Sect	tember 1971		
Filly the Elder, a Roman writer, documented the earliest account pertaining to the inhabitants of the peninsula around the mid-first century AD, referring to them as the Cetharrei, a designation which may have derived from the name of a prominent local settlement; PRID ⁴ A century later, Ptolemy produced the first known	Independence from the			HDI
map to depict the peninsula, referring to it as Cataras ¹⁴¹²⁰⁷ . The map also referenced a town named "Cadara" to the sent of the peninsula, referring to it as cataras ¹⁴¹²⁰⁷ . The map also referenced a town named "Cadara" to the sent of the peninsula, referring to it as Cataras ¹⁴¹²⁰⁷ . The map also referenced a town named "Cadara" to the sent of the peninsula, referring to it as Cataras ¹⁴¹²⁰⁷ . The map also referenced a town named "Cadara" to the sent of the peninsula, referring to it as Cataras ¹⁴¹²⁰⁷ . The map also referenced a town named "Cadara" to the sent of the peninsula, referring to it as Cataras ¹⁴¹²⁰⁷ . The map also referenced a town named "Cadara" to the sent of the peninsula, referring to it as Cataras ¹⁴¹²⁰⁷ . The map also referenced a town named "Cadara" to the sent of the peninsula, referring to it as Cataras ¹⁴¹²⁰⁷ . The map also referenced a town named "Cadara" to the sent of the peninsula, referring to it as Cataras ¹⁴¹²⁰⁷ . The map also referenced a town named "Cadaras" to the sent of the peninsula, referring to its cataras ¹⁴¹²⁰⁷ . The map also referenced a town named "Cadaras" to the sent of the peninsula, referenced a town named "Cadaras" to the sent of the peninsula, referenced a town named "Cadaras" to the sent of the peninsula, referenced a town named "Cadaras" to the sent of the peninsula, referenced a town named "Cadaras" to the sent of the peninsula, referenced a town named "Cadaras" to the sent of the peninsula, referenced a town named "Cadaras" to the sent of the peninsula, referenced a town named "Cadaras" to the sent of the peninsula, referenced a town named "Cadaras" to the sent of the town named "Cadaras" to the sent of the town named "Cadaras" to the sent of the town named "Cadaras" to the town named "Cadaras" town named "Cadaras" town named town named "Cadaras" town nam	• Total 11 581			
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located on the western coast of Qatar, is the most important Ubaid site in the country and is believed to have accommodated a small seasonal encampment. ^[11]42]	(5110)	338 billion ⁻⁶¹		Driv
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was not limited to Catar; it also included Bahrain, Tarout Island, AH/Natt, and AH/asa, 591				
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Early and late Islamic period (661–1783)		1 rijal (QAR)		Inte
Catar was described as a famous horse and camel breeding centre during the Umaryyad period 341 in the Bith century, it started benefiting from its commercially strategic position in the Persian Guif and went on to become a centre of pearl trading 18888	Inte zone UTC+			Ince
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portion of Eastern Arabia in 1521. ^{[12][32][31]} in 1550, the inhabitants of Al-Hasa voluntarily submitted to the rule of the Ottomans, preferring them to the Portuguese. ^[84] Having retained a negligible military presence in the area, the Ottomans were expelled by the Bani Khald tribe in 1670. ^[86]				

Area	
Total	11,581 km ²
	(4,471 sq mi)
	(158th)
• Water (%)	0.8
Population	
 2020 estimate 	2,795,484 ^[4] (139th)
 2010 census 	1,699,435 ^[5]
Density	176/km ²
	(455.8/sq ml) (76th)
GDP (PPP)	2020 estimate
Total	\$357.338 billion ^[6]
	(51st)
 Per capita 	\$138,910 ^[6] (1st)
GDP (nominal)	2018 estimate
Total	\$183.807 billion ^[6]
	(56th)
 Per capita 	\$66,202 ^[6] (6th)
Gini (2007)	41.1[7]
	medium
HDI (2019)	- 0.848 ^[8]
	very high - 45th
Currency	Qatari riyal (QAR)
Time zone	UTC+3 (AST)
Driving side	right ⁽⁹⁾
Calling code	+974
ISO 3166 code	QA
Internet TLD	ea. بعنی
	, قطر

UN DP

GDP pc: 138,910 Rank #1

HDI: 0.848 Rank #45



Enter The Anthropocene, the Age of Humans

In 2020:

Enormous wildfires in Australia, USA, Brazil and Siberia

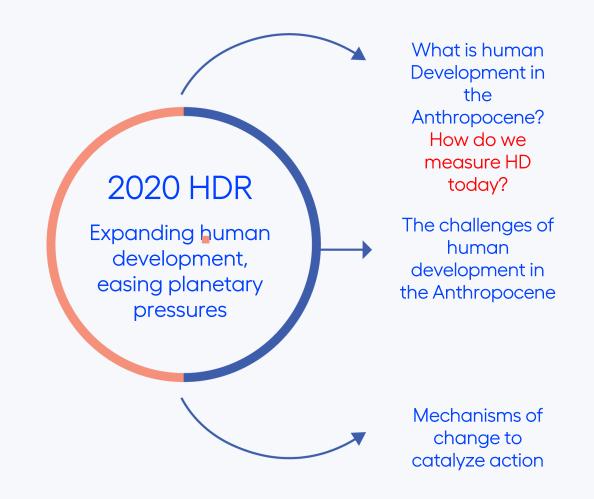
Hurricanes in the Atlantic break records

Global wildlife has declined almost 70% since 1970

COVID-19 global pandemic

The 30th Anniversary Report





The 30th Anniversary Report: Human Development and the Anthropocene

Anthropocene Not another sustainability report. It goes beyond needs, beyond sustaining, beyond summarizing well

known policy options.

Refreshes human development for a new geologic epoch. <u>Focuses on</u> <u>how we can expand human</u> <u>development while easing</u> <u>planetary pressures</u>. Moves thinking from solving discrete problems to navigating complex, interconnected social and ecological systems.

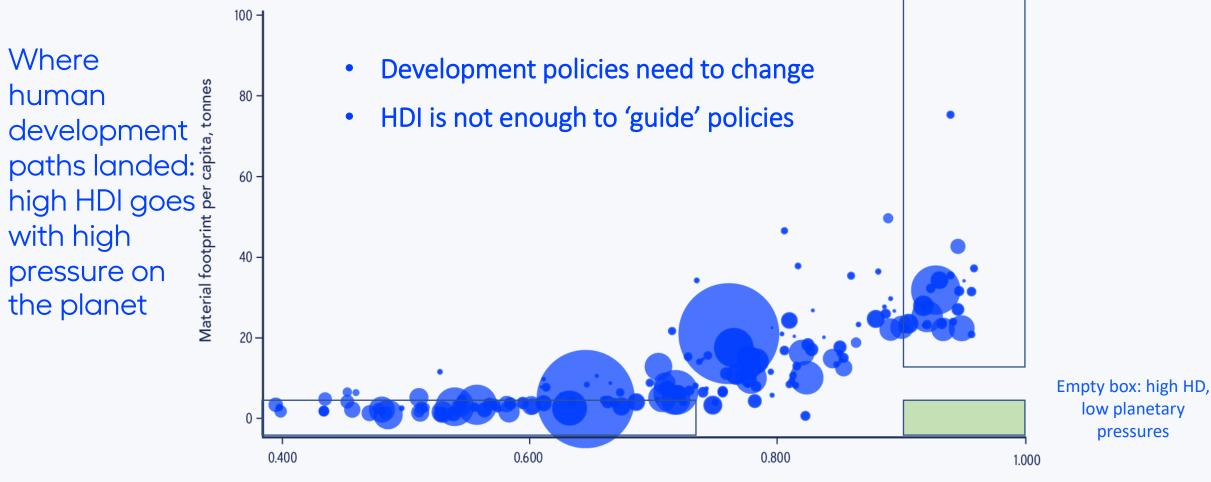
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U N D P



Problem: High human development means high resource use

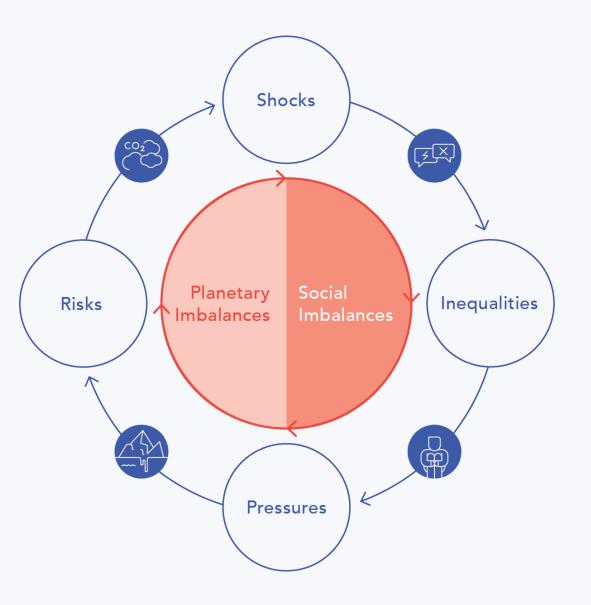




Human Development Index value, 2019

Inequality and Planetary Pressure A Vicious Circle

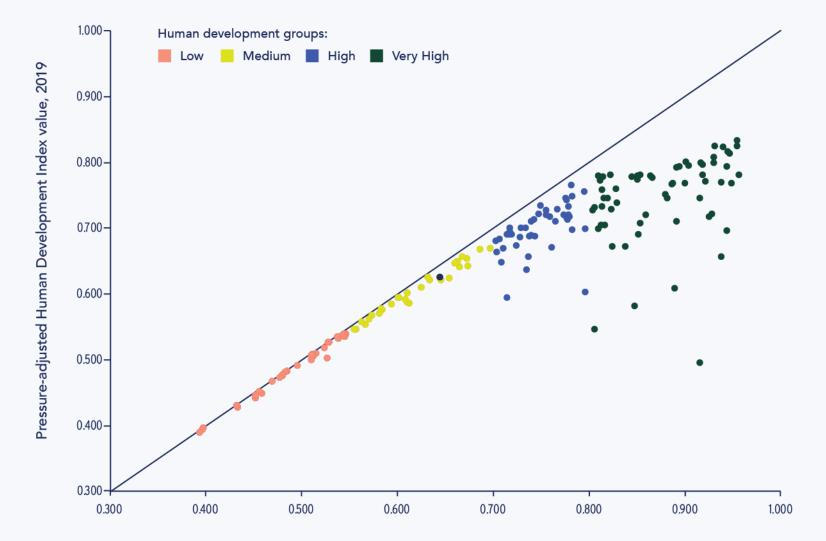
Planetary and social imbalances reinforce each other





A new era needs new measures: the PHDI

Adjusting the Human Developme nt Index for planetary pressures (carbon dioxide and material footprint per capita).

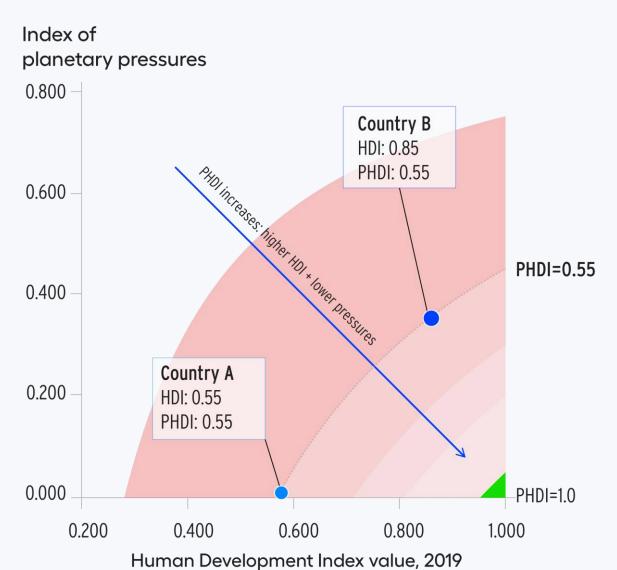






Nowhere has high human development & low planetary pressure - yet

Adjusting the Human Development Index for planetary pressures.





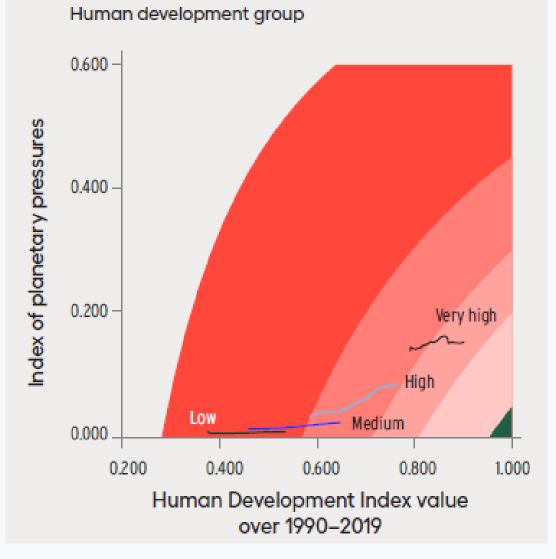


THE CHALLENGE:

- Expand Human Development
- Reduce pressures on the planet

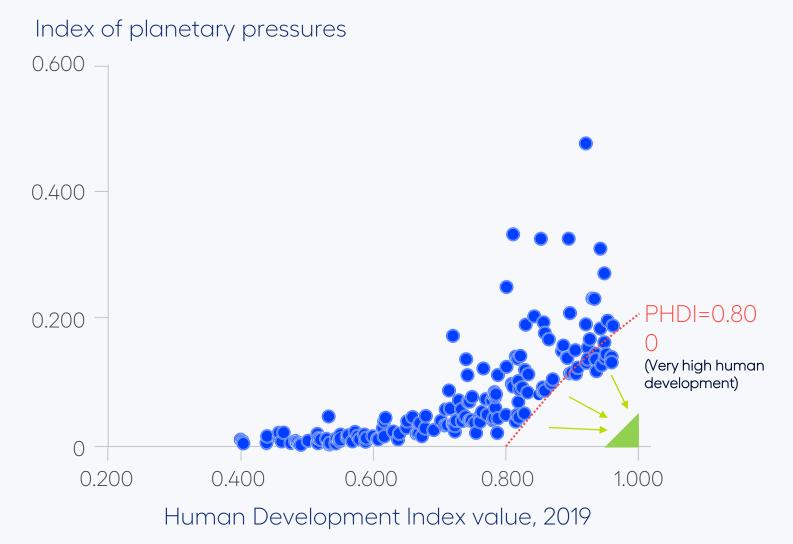
Simultaneous process, everywhere.

No country or territory is there yet.



Source: Human Development Report Office

Of the more than 60 very high human development countries in 2019, only 10 are still classified as very high human development on the PHDI



Human Development is as relevant as ever

How can we increase human development, while easing planetary pressures?

A focus on **capabilities**, **agency** and **values** can reorient our approach to the Anthropocene, so people and the planet prosper together.

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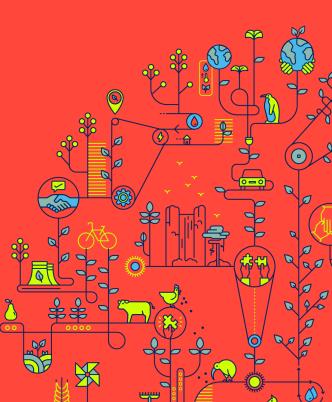
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Anthropocene risks and human developmen



The anthropocene has meant enormous uncertainty for societies:

COVID-19 global pandemic

Climate change weakening economic progress

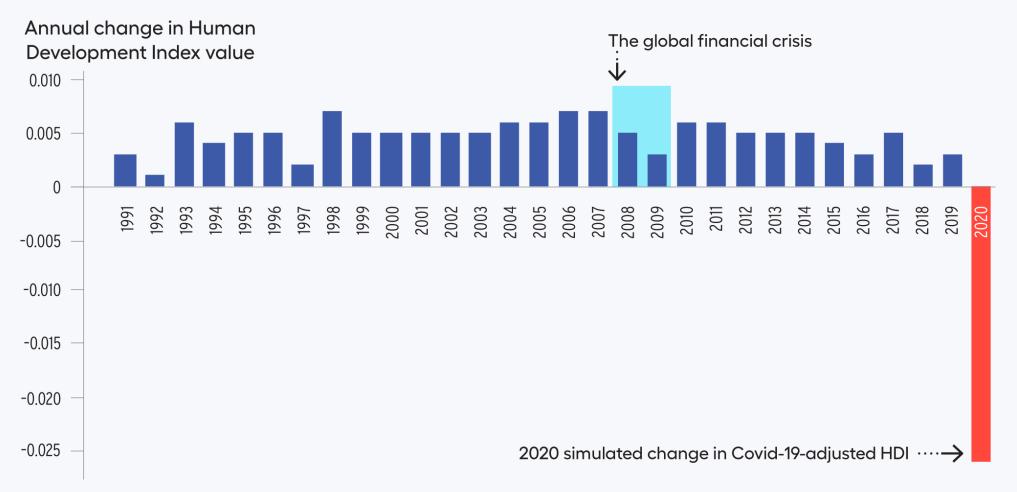
Increasing hunger

Increasing impacts from natural hazards

COVID-19 offers a glimpse of what is coming It is also an opportunity for change



COVID-19: Unprecedented shock to human development

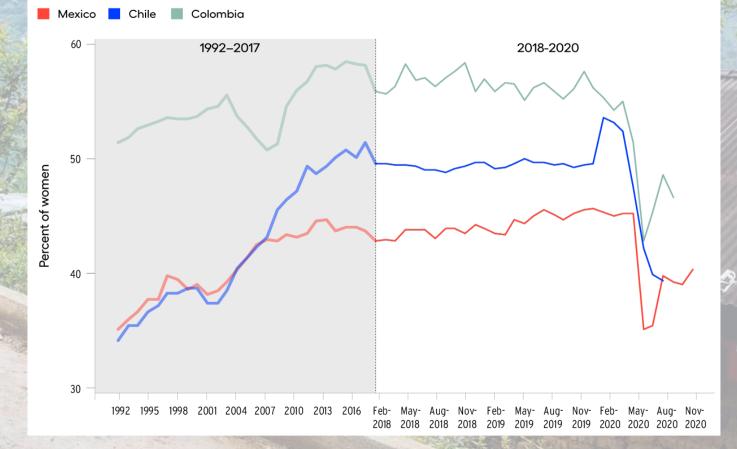


COVID-19: when environmental shocks interact with inequalities, empowerment gaps widen



Women and girls are disproportionately affected by shocks because of traditional roles and norms. The Covid-19 pandemic has erased decades of progress in the female labour force participation

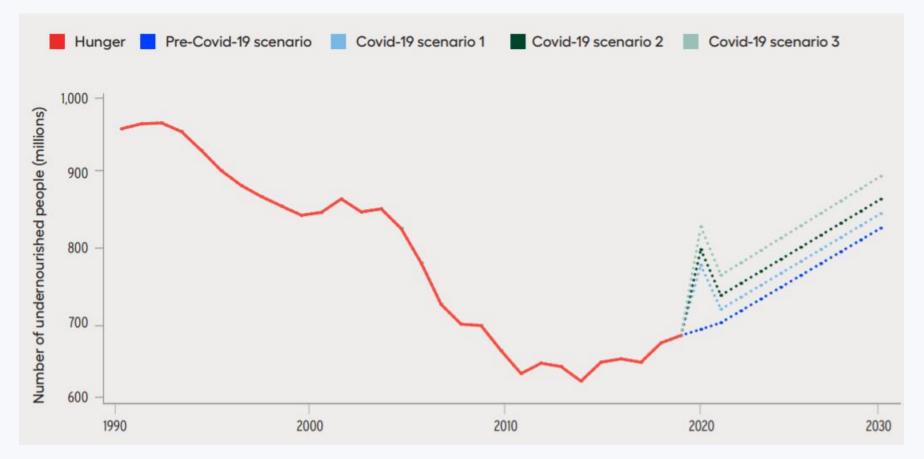
Female labor force participation rate by country, 1992–2020



Increase in the number of people affected by hunger is driven by anthropogenic shocks

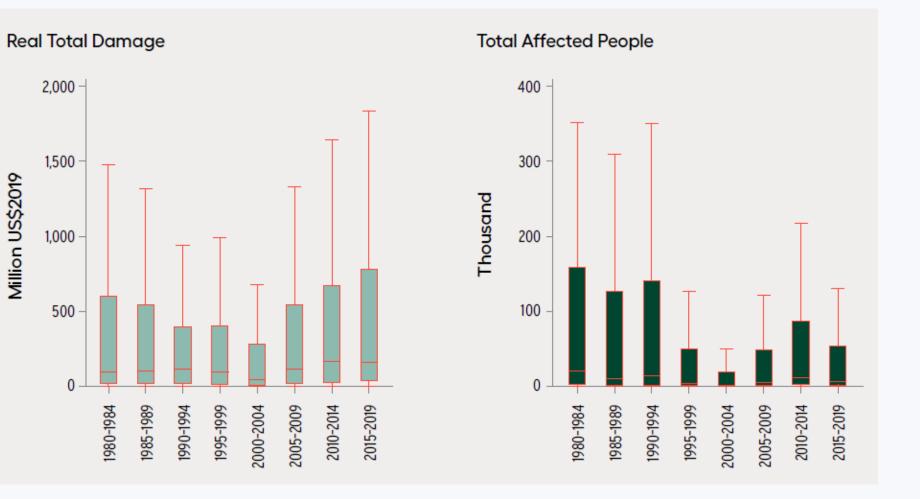


Hunger is on the rise



Increasing impact of natural hazards



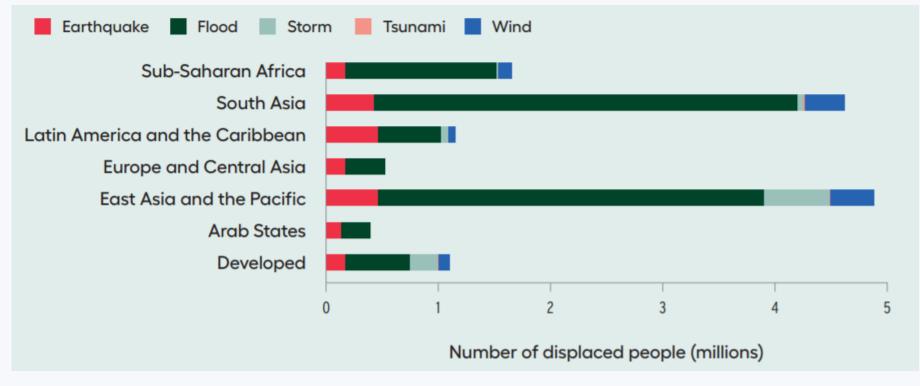


Source: Adapted from FAO and others (2020), using data for 1991–2001 from FAO (2020b) and UNDESA (2015).

Natural hazards continued to trigger most new displacements in 2020

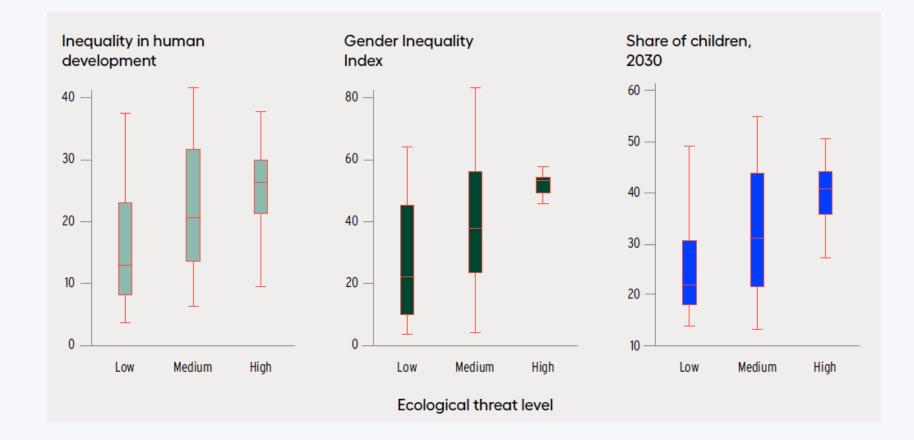


Globally, about 13.7 million people a year are expected to be displaced after 2020



The Anthropocene: Greater impact in more vulnerable places

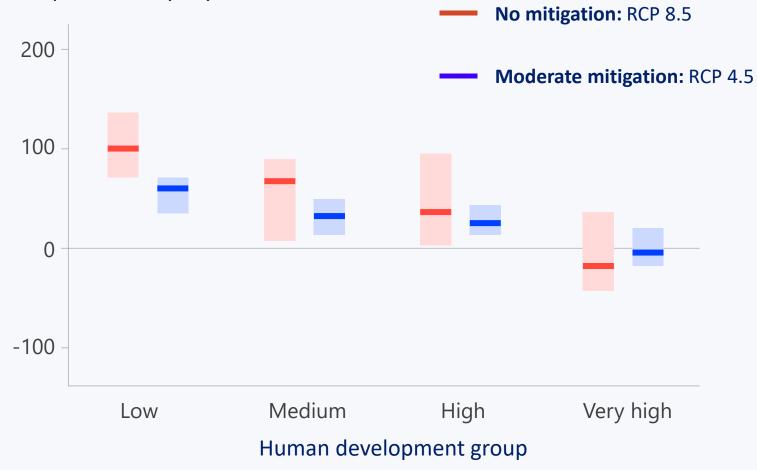
Threats higher in countries with greater social vulnerability





Looking forward: new and greater risks

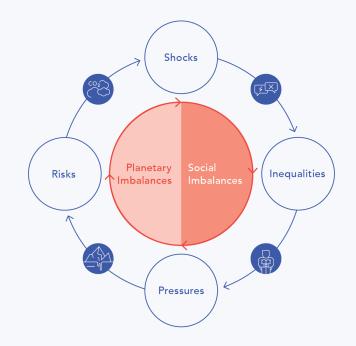
Number of additional extreme temperature days by 2100*



*Number of additional extreme temperature days by 2100, compared with average for 1986-2005



By 2100 the number of days a year with extreme temperatures is expected to increase more in lower human development countries



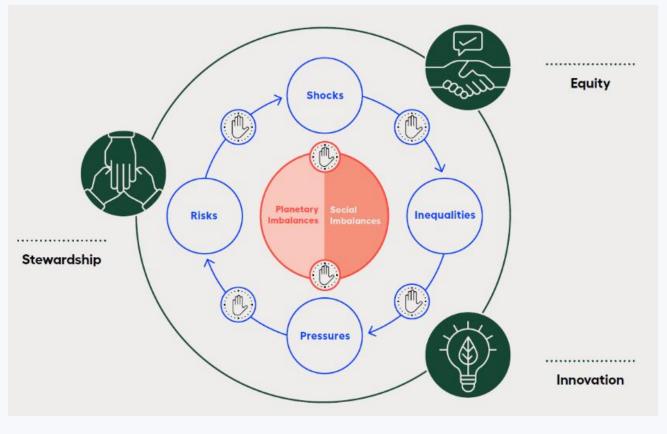
Navigating the Anthropocene: Equity, Stewardship and Innovation



We do not know what the future will look like. But we know we need a great transformation in the way we work, live and cooperate.

• The report suggests three principles are key to navigating the Anthropocene.

Key principles to guide action in the Anthropocene



Source: Human Development Report Office.

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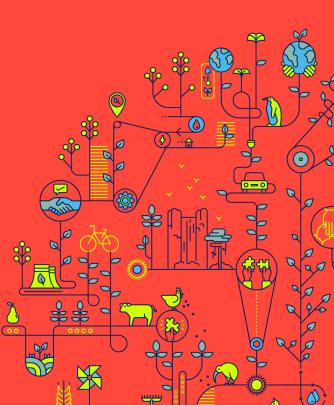
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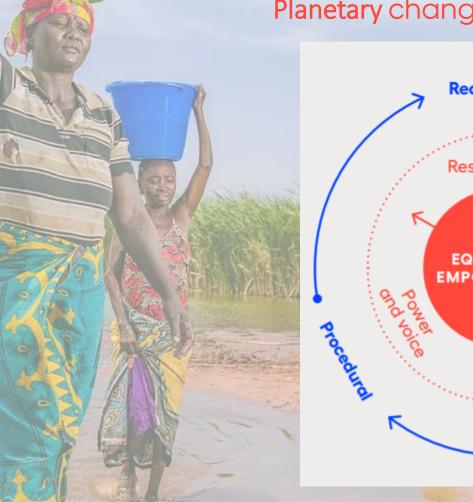
Almudena Fernandez



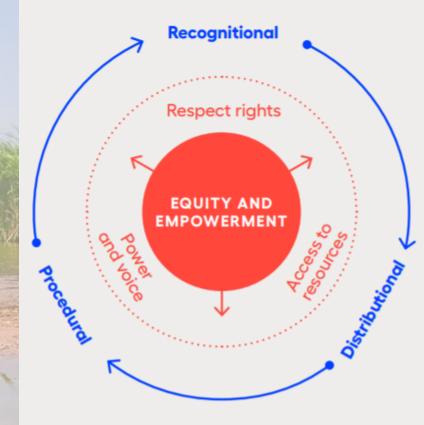
Planetary change shocks can reinforce patterns of disempowerment of specific groups



Addressing asymmetries in these three areas seeks to enhance the power of groups unseen, unheard and undervalued and guarantee environmental justice.

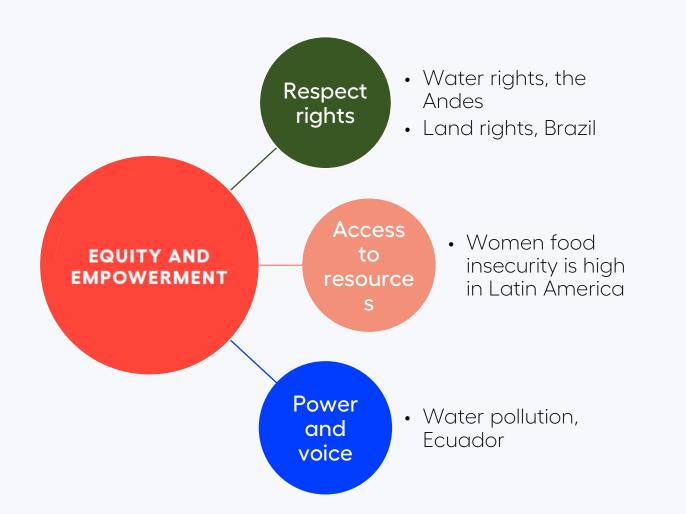


Planetary change can be disempowering



Source: Human Development Report Office based on Leach and others (2018).

Planetary change shocks can reinforce patterns of disempowerment of specific groups











Mechanisms for change

Three main mechanisms of action are explored:

Social norms & values



- Female education in Haiti, Cuba and the Dominican Republic contributes to longterm resilience to natural disasters.

Incentives & regulation



-Valuation of wetlands in Brazil,
Bolivia and Paraguay.
-Collective payments for ecosystem services in Mexico.

Nature-based solutions



- Coral reef insurance in Mexico.
- Fund to protect water in **Ecuador**.
- Mapping natural areas in Costa Rica.
- Empowerment of indigenous farmers in **Jamaica**.



What can the flourishing of nature contribute to advance human development in the Anthropocene?



Actions to protect, sustainably manage and restore ecosystems can **empower** in ways that enhance equity, foster innovation and are rooted in a sense of stewardship of nature.

...... Equity ature Bottom-up based solutions Empower local communities and indigenous peoples **Reduce risks** Stewardship Innovation **Responsible use** of resources New forms of Natureproduction Protection of nature based solutions Interation between Support regeneration areen and arev of nature insfrastructure Supports new green economy

Key outcomes to guide action in the Anthropocene

Closing gaps in empowerment: Indigenous peoples as shapers and defenders of nature



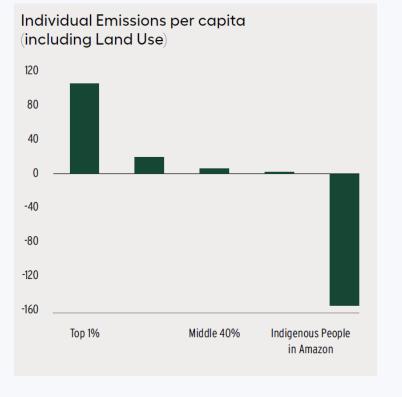
Supporting the practices of indigenous peoples that sustain biodiversity is key, especially since lands managed by indigenous peoples—around 25 percent of global land area—host an estimated 80 percent of global biodiversity.



Indigenous peoples: pioneers and vulnerable at the same time



Per capita carbon capture by forests (tons of CO2 equivalent)



Yearly killings of environmental activists, 2002–2019



Conclusion

It is time to chart bold **new paths**. Recognizing and supporting the **contribution** of local communities and indigenous peoples are key to **ease planetary pressures**. Recognizing ongoing **injustices** suffered by the communities and the way they shape their **agency and ability to thrive**.





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NATURE-BASED SOLUTIONS AND HOUSEHOLD WELL-BEING: EVIDENCE FROM LATIN AMERICA AND THE CARIBBEAN THROUGH AN ASSET-BASED APPROACH

November 2021

Almudena Fernandez

Advisor to the Regional Director for Latin America and the Caribbean (Based on research done by UNDP and Northeastern University)



3 LEVERS OF CHANGE TO PROMOTE HUMAN DEVELOPMENT BY ELIMINATING PLANETARY PRESSURES



MECHANISMS OF CHANGE TO CATALYZE ACTION IN HDR 2020



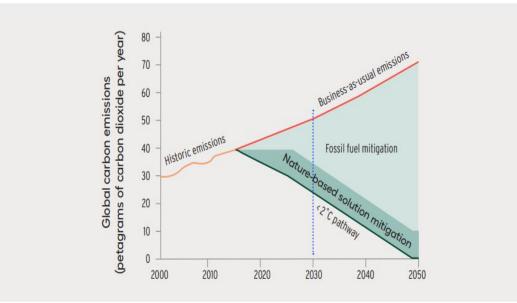
Nature-based solutions are understood as actions that protect, sustainable manage and restore ecosystems while simultaneously promoting well-being.

Nature-based solutions can contribute to transformational change for two reasons:



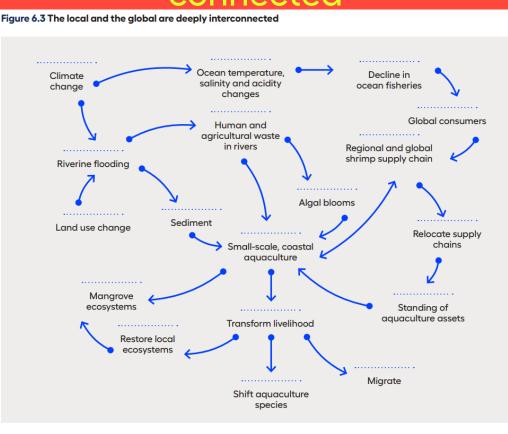
Because local action can add up to global impact

Figure 6.2 Twenty nature-based solutions can provide some of the mitigation needed to restrain global warming



Source: Griscom and others 2017, figure 2.

Because socio-economic and planetary systems are deeply connected

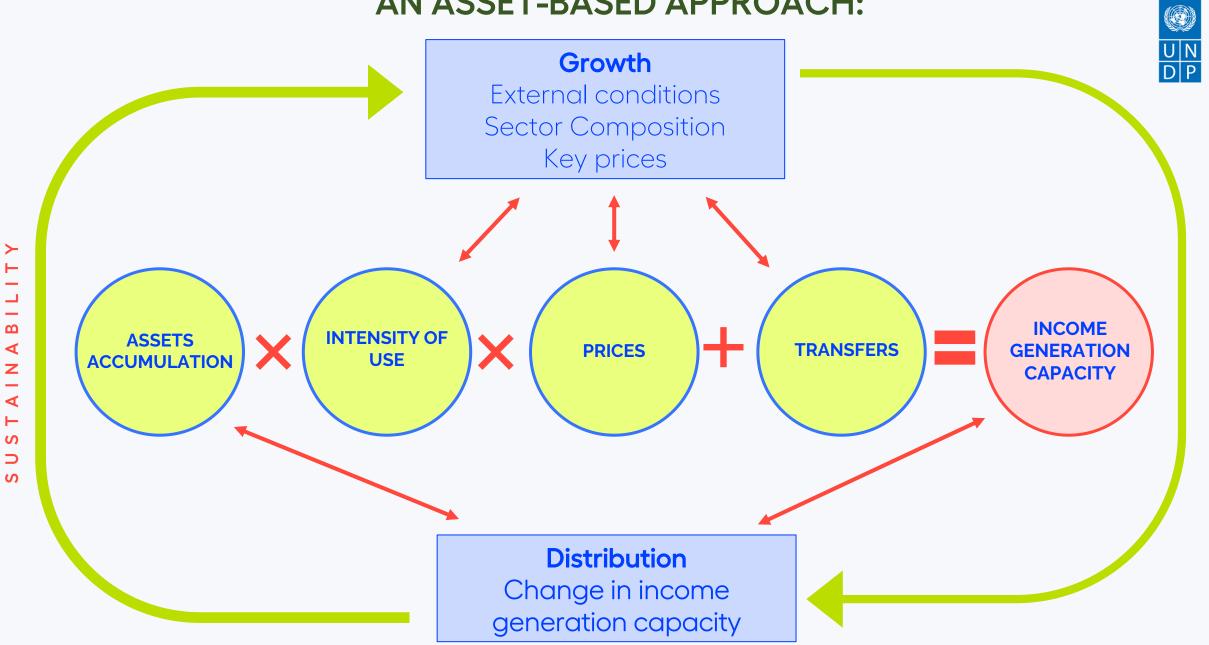


Source: Keys and others 2019, figure 3b.

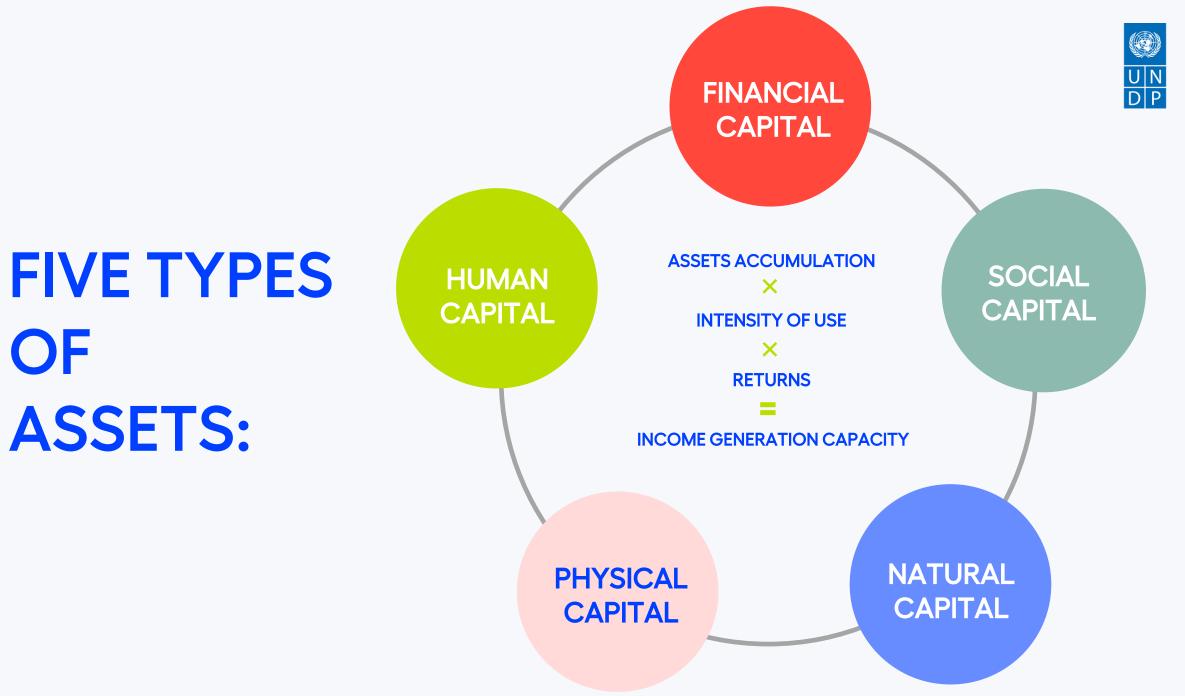


VARIOUS CHANNELS OF TRANSMISSION THROUGH WHICH NATURE-BASED SOLUTIONS CAN IMPROVE HOUSEHOLD WELL-BEING, AND CUMULATIVELY EASE PLANETARY PRESSURES

AN ASSET-BASED APPROACH:



Source: Bussolo, Maurizio, y Luis F. Lopez-Calva. 2014. Shared Prosperity: Paving the Way in Europe and Central Asia. Washington, DC: World Bank (3) 21-27.



Source: Bussolo, Maurizio, yLuis F. Lopez-Calva. 2014. Shared Prosperity: Paving the Way in Europe and Central Asia. Washington, DC: World Bank (3) 21-27.

We looked at 5 UNDP NbS projects to understand their impact on household well-being



Colombia

Payment for Ecosystem Services (PES) and Biodiversity Conservation in the Coffee Sector project (2010-2014),

Guatemala

Climate Change Resilient Productive Landscapes and Socio-economic Networks Advanced project (2015-2018),

Cuba

Reduction of Vulnerability to Coastal Flooding through Ecosystem-based Adaptation in the South of Artemisa and Mayabeque Provinces project (2014-2020),

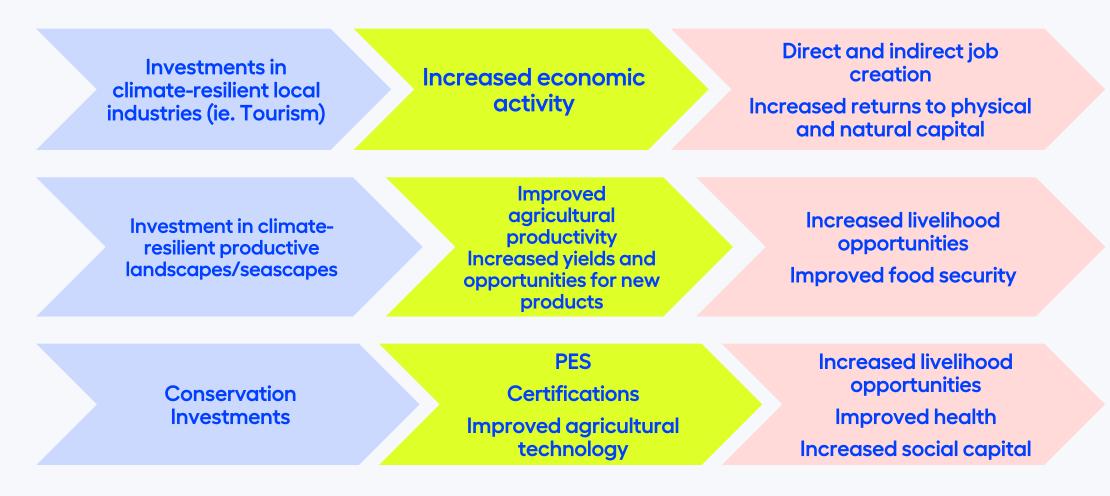
Grenada

Climate Resilient Agriculture for Integrated Landscape Management project (2020-2023).

Ecuador

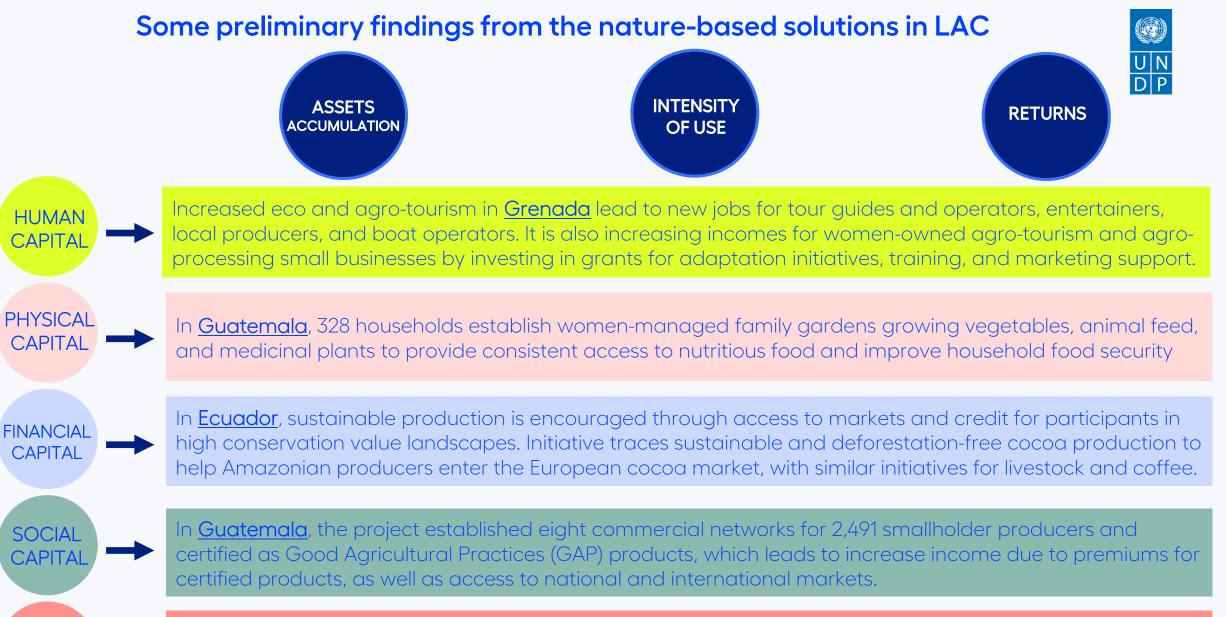
Sustainable Development of the Ecuadorian Amazon: Integrated Management of Multiple Use Landscapes and High Values Conservation Forests project (2017-2022).

Pathways through which NbS impact Human Development while easing planetary boundaries



Some preliminary findings from the nature-based solutions in LAC

Some premining manys nom the nature-based solutions in LAC						
	ASSETS	INTENSITY OF USE	RETURNS			
	Improved food security Improved health - using fewer toxic chemicals Acquisition of new productive skills	Job creation (direct and indirect_) Livelihood opportunities	Higher returns to labour due to increased productivity			
	Higher livestock yields Increased diversity & volume of fauna Assets for diversification	Increase agricultural and fishery productivity	Higher crop yields due to improved environmental quality and agricultural techniques			
	Increased asset accumulation (as a means of savings) Access to credit	Access to financial services Access to markets that require financial intermediation	Improved returns due to access to value chains			
	Creation of seed banks Strengthened connection between actors	Commercial networks increases market access	Product certification increases returns			
	Increased soil health and biodiversity accumulation, water quality, reduced pollution	Increased environmental services have a positive impact on human and physical capital	Increased environmental services yield better results			



In <u>Colombia</u>, encouraging biodiversity through more sustainable coffee cultivation allowed farmers to certify their coffee, earning additional income for premium product – up to 29% higher income, on top of additional income from PES for carbon sequestration, for an average 8% increase in annual income.

NATURE-BASED SOLUTIONS ARE ONE IMPORTANT MECHANISM THROUGH WHICH HUMAN DEVELOPMENT AND PLANETARY HEALTH CAN BE EXPANDED, STARTING AT THE LOCAL LEVEL, PLACING HUMAN AGENCY AT THE CENTER. AND ADDING UP TO GLOBAL IMPACT BOTH IN TERMS OF SUSTAINABILITY AND GROWTH.



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