

Third Meeting of the SCS SAP Regional Scientific and Technical Committee (RSTC-3)



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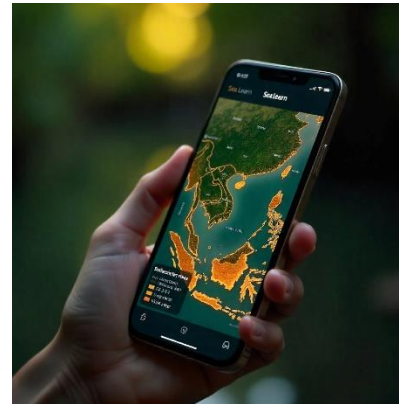
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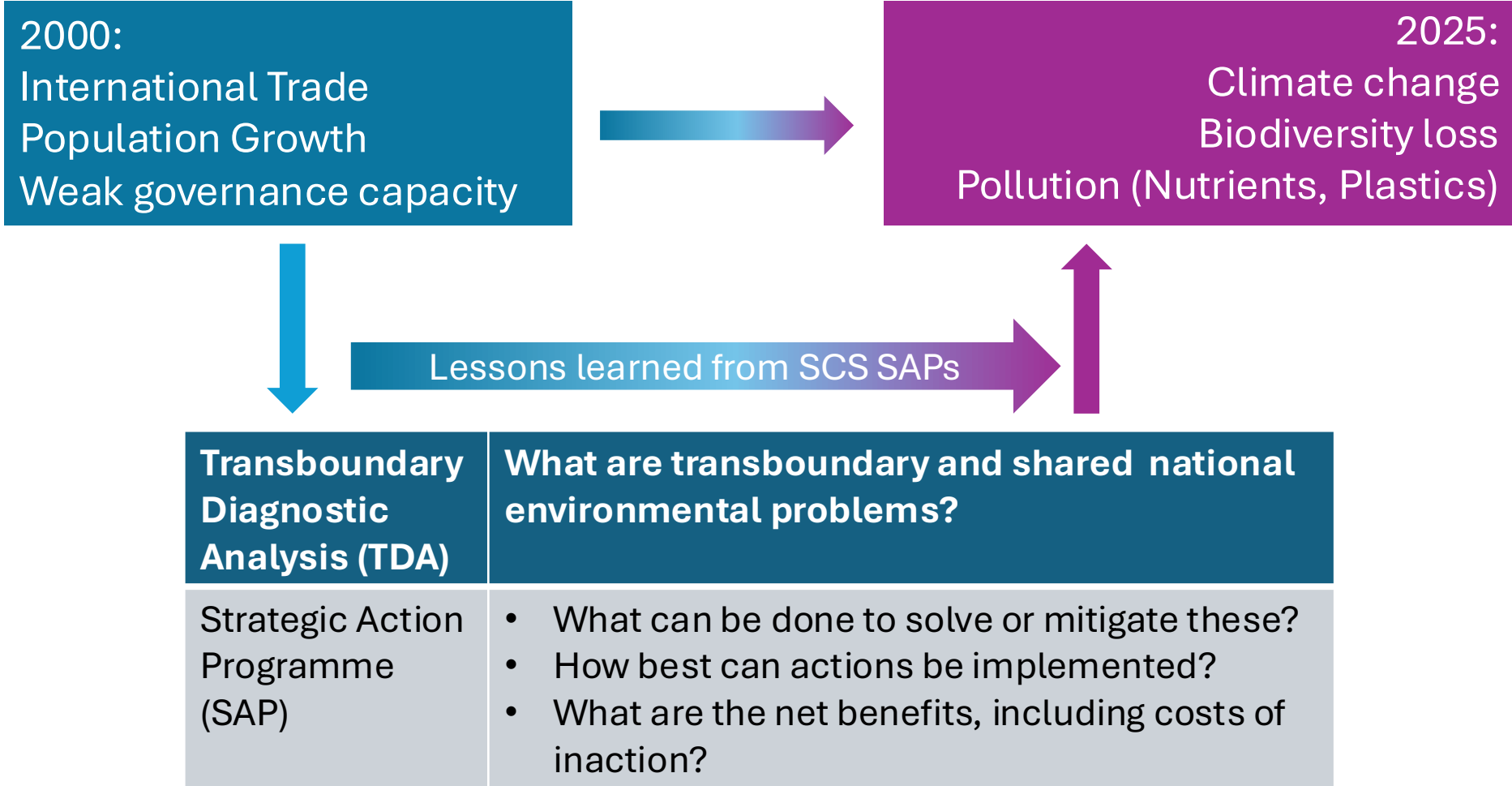
RSTC3 Meeting
26-28 Jan 2026
Phú Quốc

Regional TDA: Why an update now? By: Liana Talaue McManus



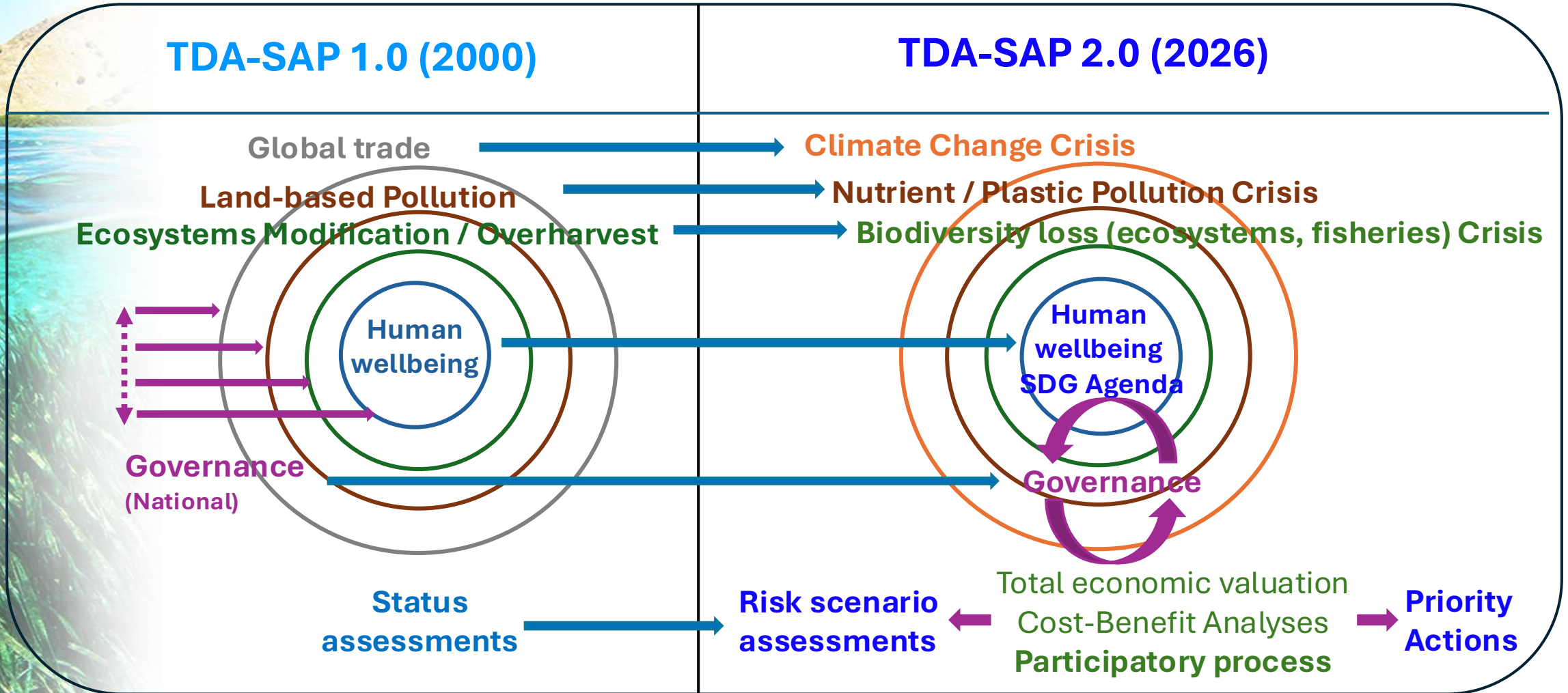


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TDA-SAP Update (National, LME scales): From Status to Risk Scenario Assessments





TDA-SAP 2.0 (2026)

Indicator-based Assessment

Climate Change Crisis

Nutrient Pollution Crisis

Biodiversity loss [Ecosystems, Fisheries Crisis]

Human wellbeing
SDG Agenda

Governance

Risk scenario assessments

Priority Actions

PEOPLE

- Population & Wellbeing
- Livelihoods
- Climate risks

ECOSYSTEM BIOVERSITY

- Coral reefs
- Seagrasses
- Mangroves
- Wetlands

LIVING AQUATIC RESOURCES

- Fisheries
- Aquaculture

POLLUTION

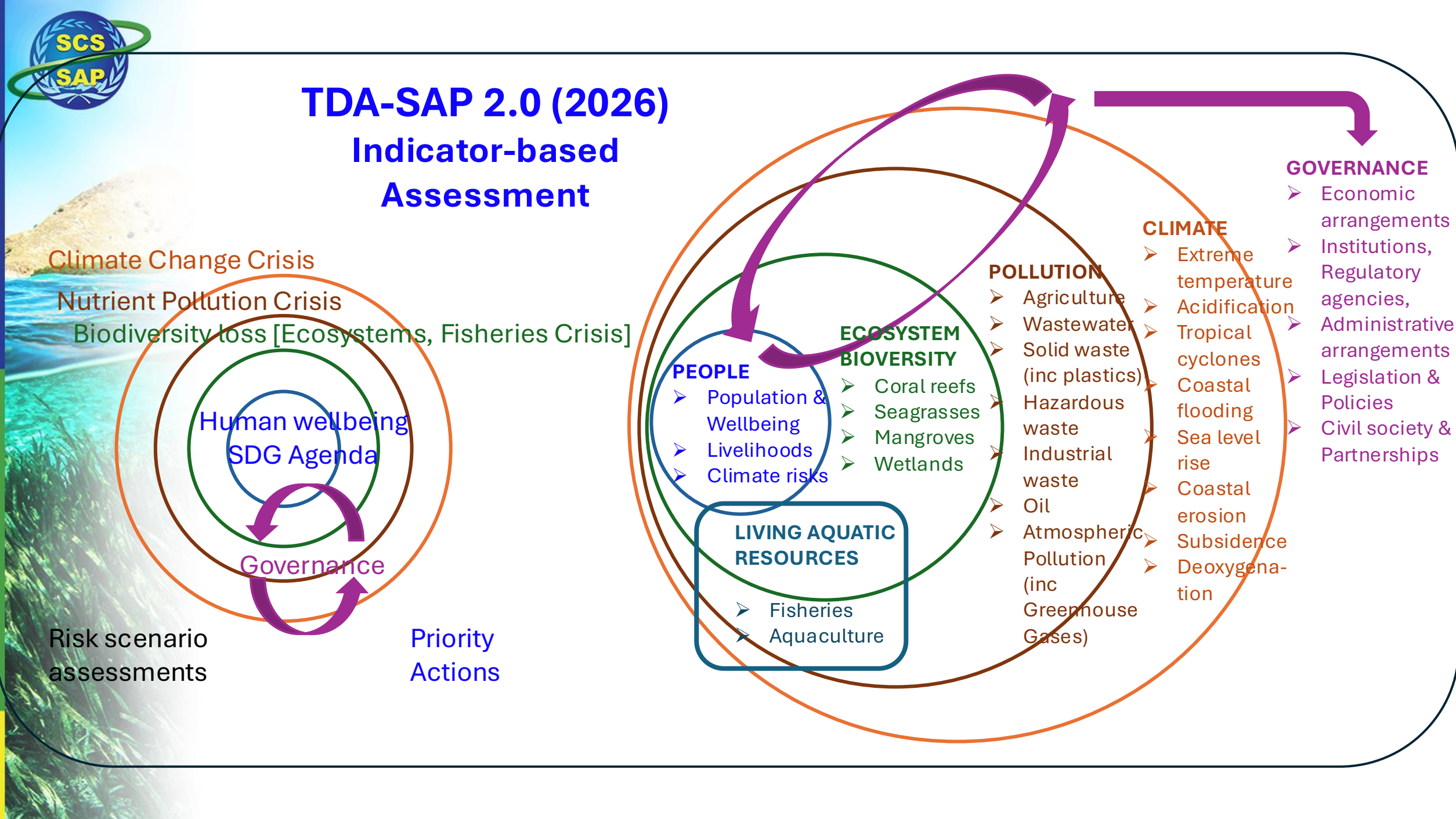
- Agriculture
- Wastewater
- Solid waste (inc plastics)
- Hazardous waste
- Industrial waste
- Oil
- Atmospheric Pollution (inc Greenhouse Gases)

CLIMATE

- Extreme temperature
- Acidification
- Tropical cyclones
- Coastal flooding
- Sea level rise
- Coastal erosion
- Subsidence
- Deoxygenation

GOVERNANCE

- Economic arrangements
- Institutions, Regulatory agencies, Administrative arrangements
- Legislation & Policies
- Civil society & Partnerships





TDA – SAP 2.0  Adaptive Governance

Marine Environmental Assessments - Strategic Actions for Resilient Sustainability (STARS)

Component 1: SAP Implementation

SAP Lessons

Implementation

Component 2:
TDA-SAP 2.0 =
SEA STARS,
SEA:LEARN
Tools, KM

Knowledge Management
Expert Networks
Tools
SEA:LEARN

SEA STARS

Priority Valuated
Actions

Component 3:
Regional Financing
Mechanism =
SEA PUFFER

SEA PUFFER

Funding
Mechanisms

Identifying Key Component Deliverables

[SCS SAP Project Retreat, October 2024]



PROCESS

OUTPUT

MILESTONE

GOAL

**REGIONAL SAP
2.0**

Components 2, 3

Key valuated
actions with
LME-scale TB
impacts

Regional SAP 2.0
= reference doc
for COBSEA

**REGIONAL TDA
2.0**

Components 1, 2

Key LME-scale TB
environmental
issues & climate
synergies

Regional and
National Experts
analyze NET
BENEFITS of
alternative actions

**NATIONAL
TDA – SAP 2.0**

Components 1, 2

TDA-SAP : KEY TB
Environmental
issues in-country
and priority
valuated actions

National Ministers
APPROVE &
implement
climate-resilient
National SAP

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Spatial Scale

TDA Reports

STARS Report

**COBSEA
STARS**

Regional &
National TDA
Infographics
May 2026

**Regional &
National STARS
Infographics
Jun 2026**

**Regional
TDA-SAP**

Regional TDA
Report
**Jun 2025 – Feb
2026**

**For IGM-reference
Regional STARS
Report
Mar-Jun 2026**

**National
TDA-SAP**

TDA Report
Feb-Feb 2025

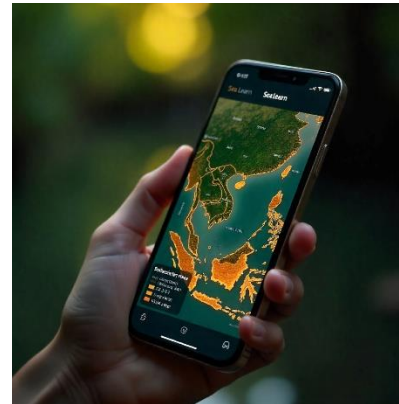
**Govt- Approved
NAT STARS Report
Nov 2025 – May
2026**

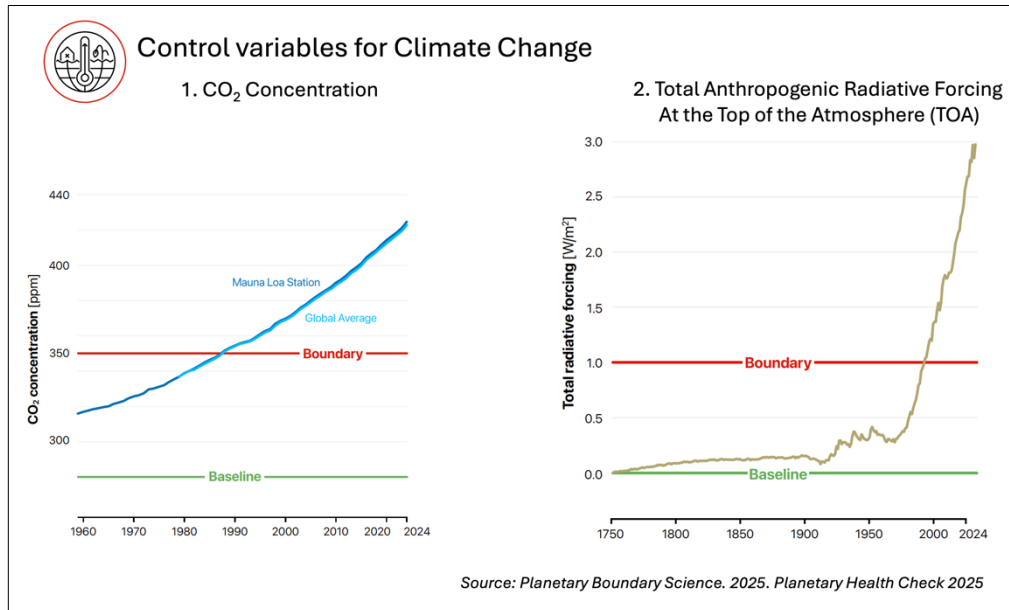
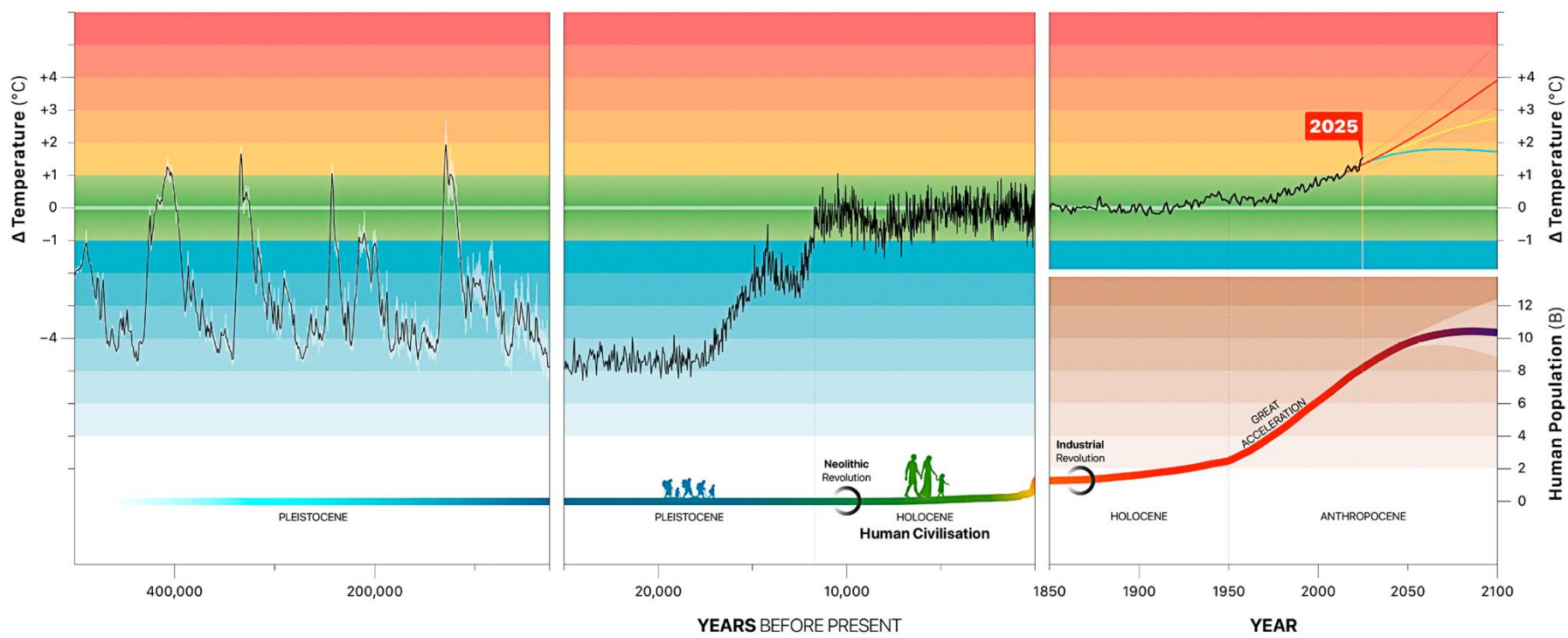


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Regional TDA: How is climate change manifested in the SCS-GoT?

By: Liana Talaue McManus



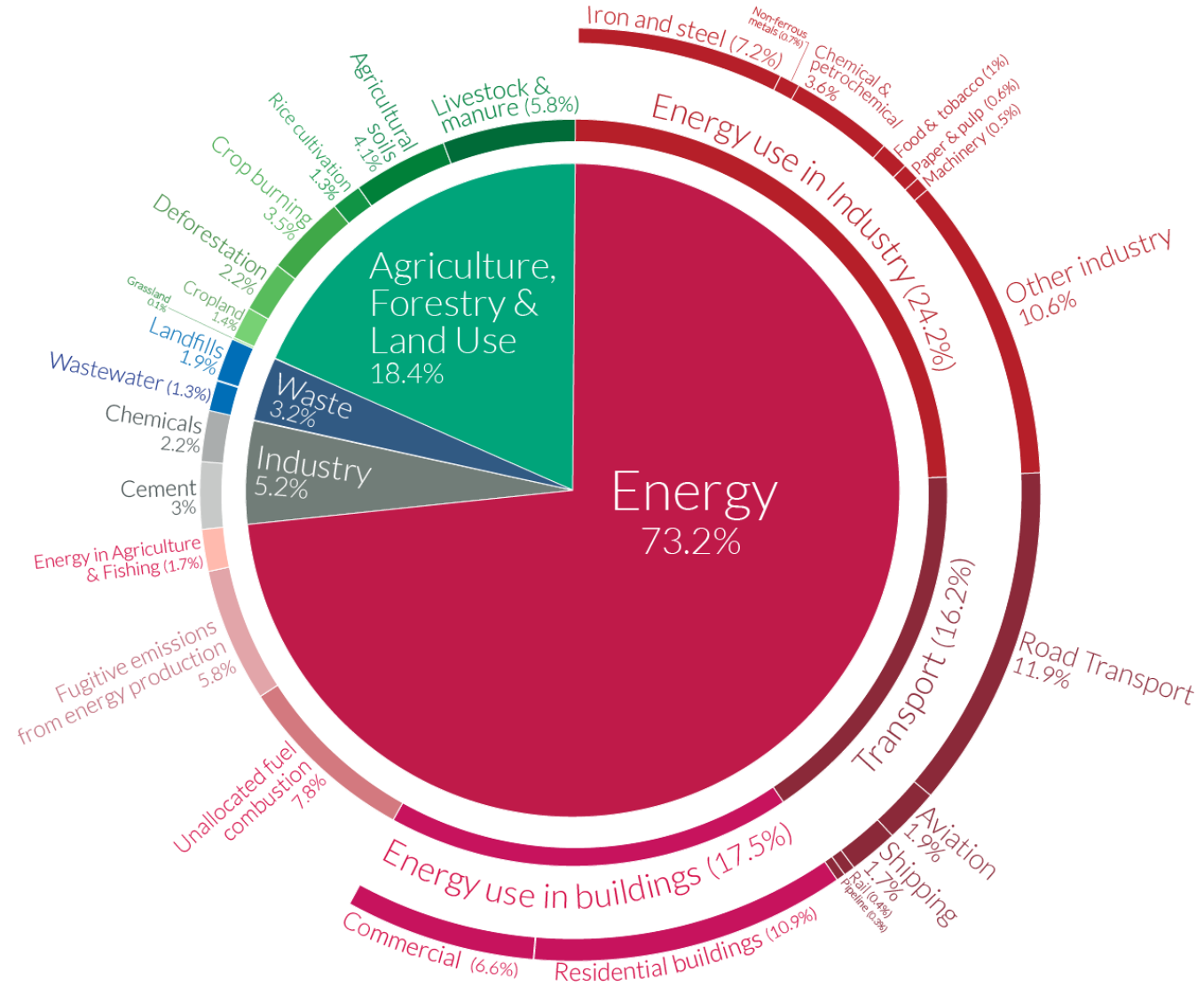


- Climate Change:
1. CO_2 Concentration increases beyond safe limits
 2. Radiative forcing exceeds safe limits

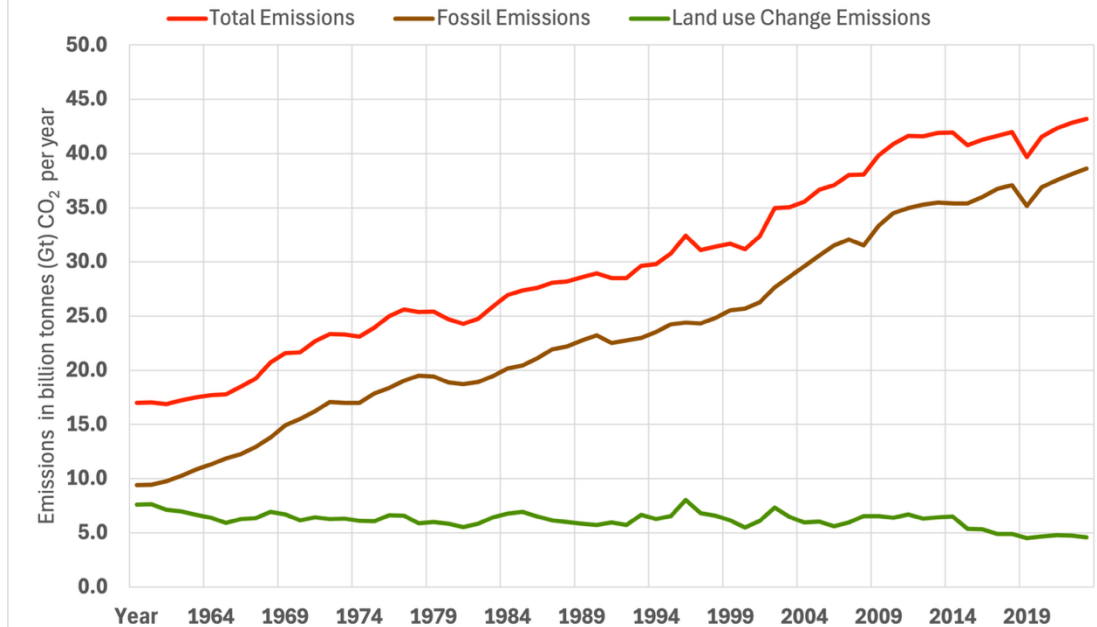
Global greenhouse gas emissions by sector

Our World in Data

This is shown for the year 2016 – global greenhouse gas emissions were 49.4 billion tonnes CO₂eq.



Global CO₂ Emissions in billion tonnes (Gt) per year, 1960-2024



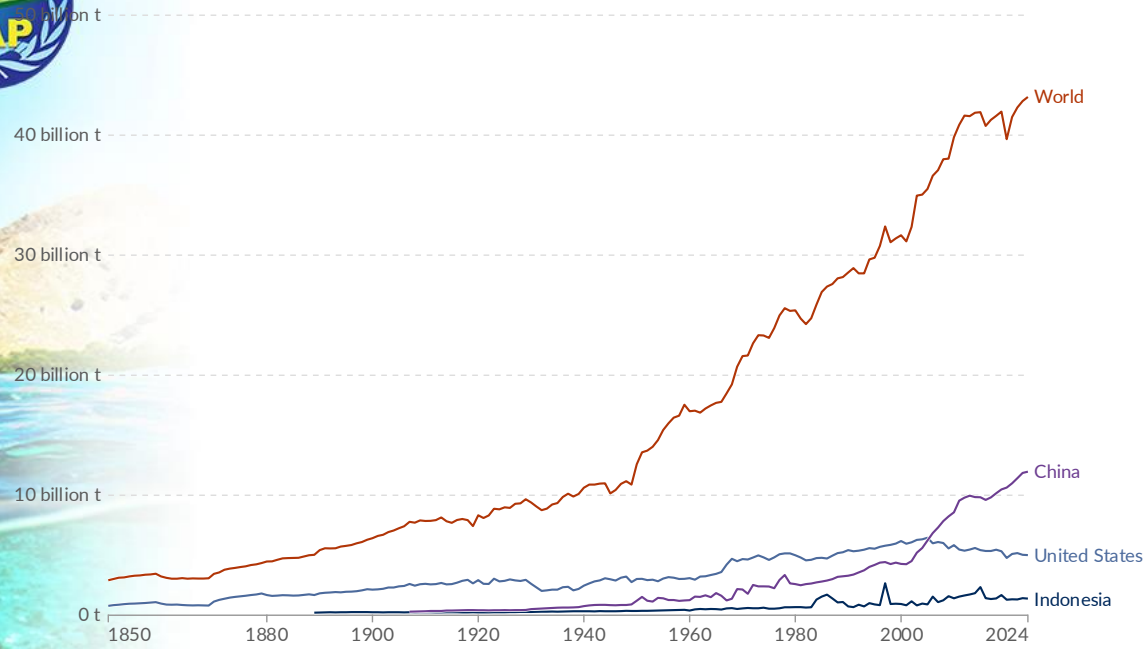
Greenhouse gas emissions (global):

1. Fossil fuel-based energy use (industry, buildings, transport)
2. Food production
3. Manufacture of cement and chemicals
4. Wastewater and Landfills



Annual CO₂ emissions including land-use change, 1850 to 2024

Emissions include those from fossil fuels and industry¹, and land-use change². They are measured in tonnes.



Data source: Global Carbon Budget (2025)

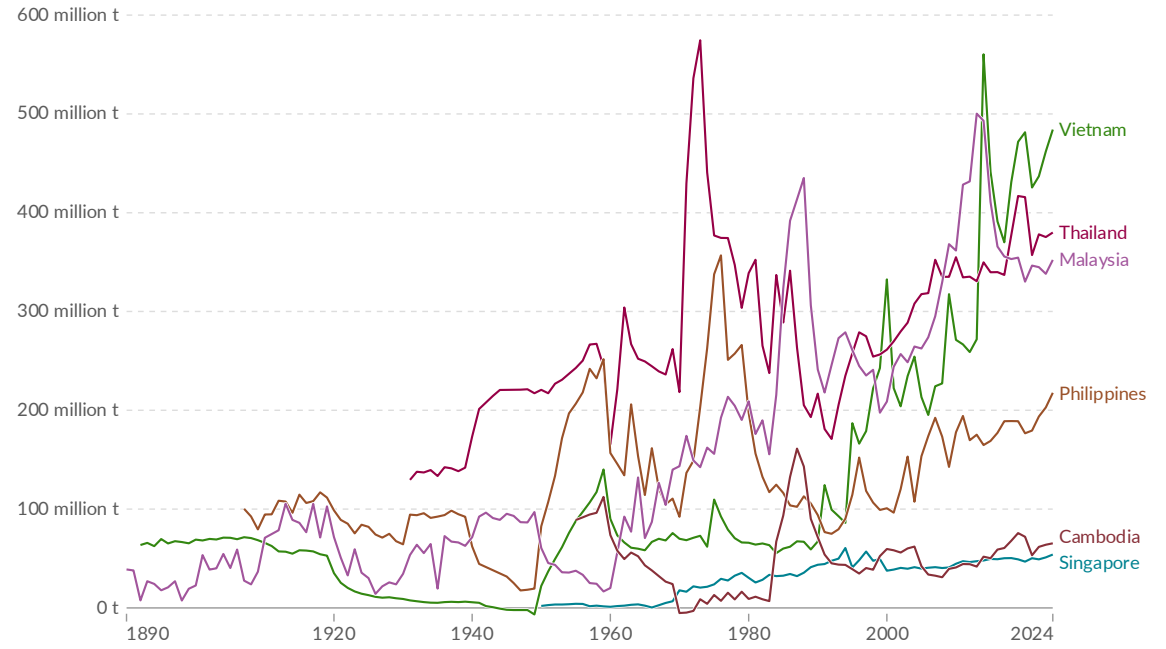
OurWorldinData.org/co2-and-greenhouse-gas-emissions | CC BY

Note: Emissions from land-use change can be positive or negative depending on whether carbon is emitted or sequestered.



Annual CO₂ emissions including land-use change, 1890 to 2024

Emissions include those from fossil fuels and industry¹, and land-use change². They are measured in tonnes.



Data source: Global Carbon Budget (2025)

OurWorldinData.org/co2-and-greenhouse-gas-emissions | CC BY

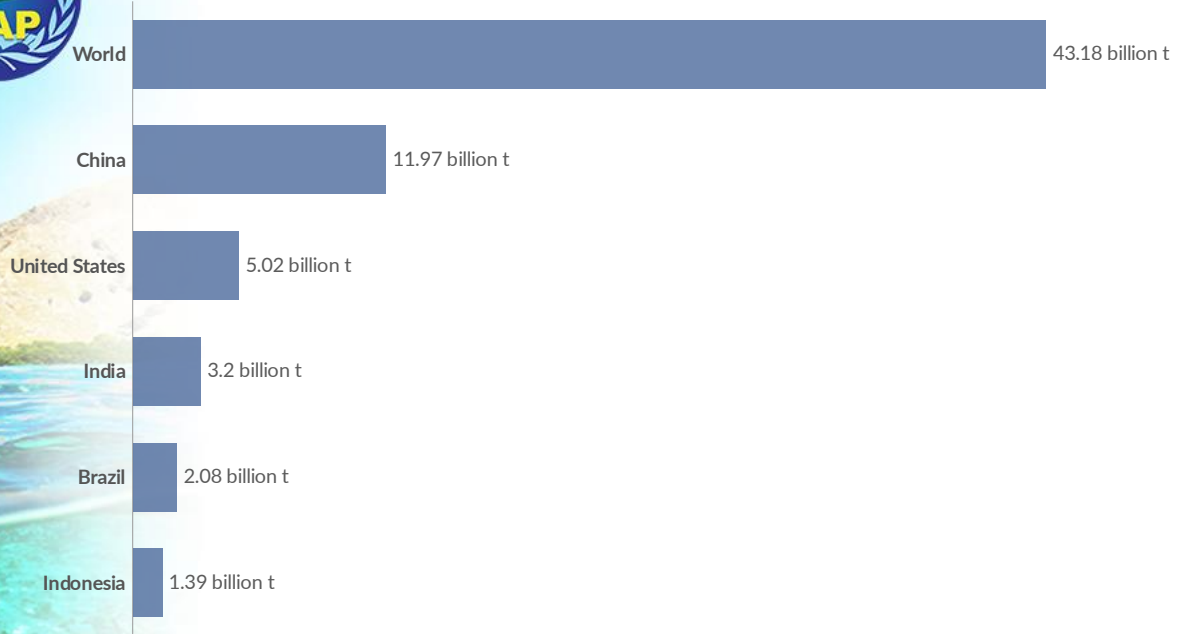
Note: Emissions from land-use change can be positive or negative depending on whether carbon is emitted or sequestered.



Annual CO₂ emissions including land-use change, 2024



Emissions include those from fossil fuels and industry¹, and land-use change². They are measured in tonnes.

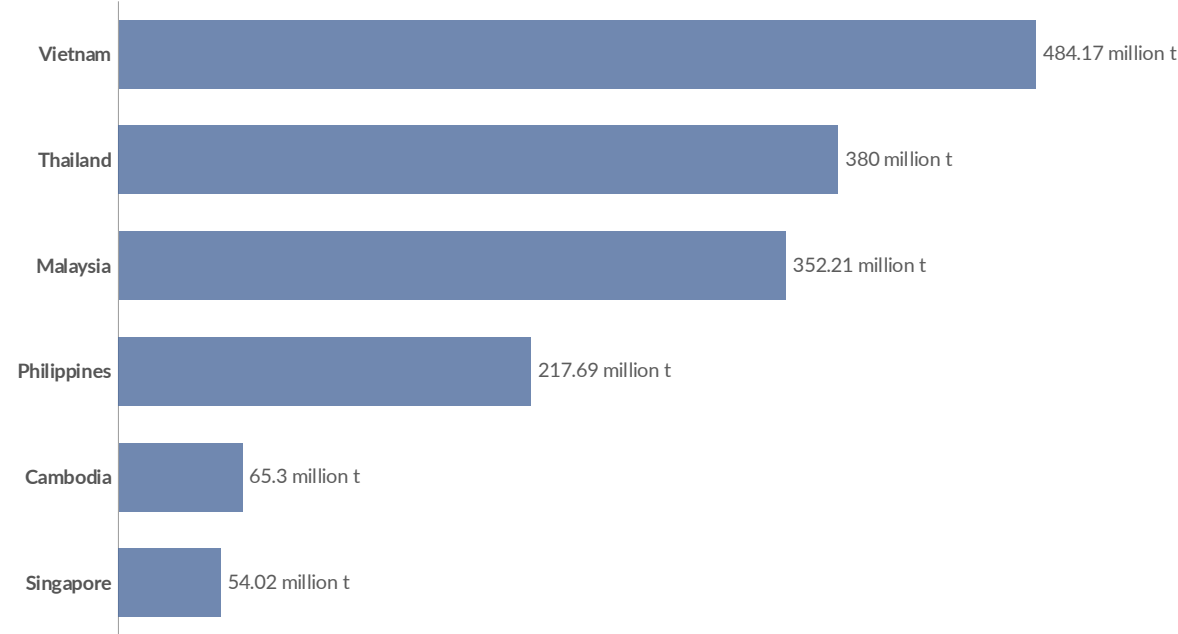


Data source: Global Carbon Budget (2025) OurWorldinData.org/co2-and-greenhouse-gas-emissions | CC BY
Note: Emissions from land-use change can be positive or negative depending on whether carbon is emitted or sequestered.

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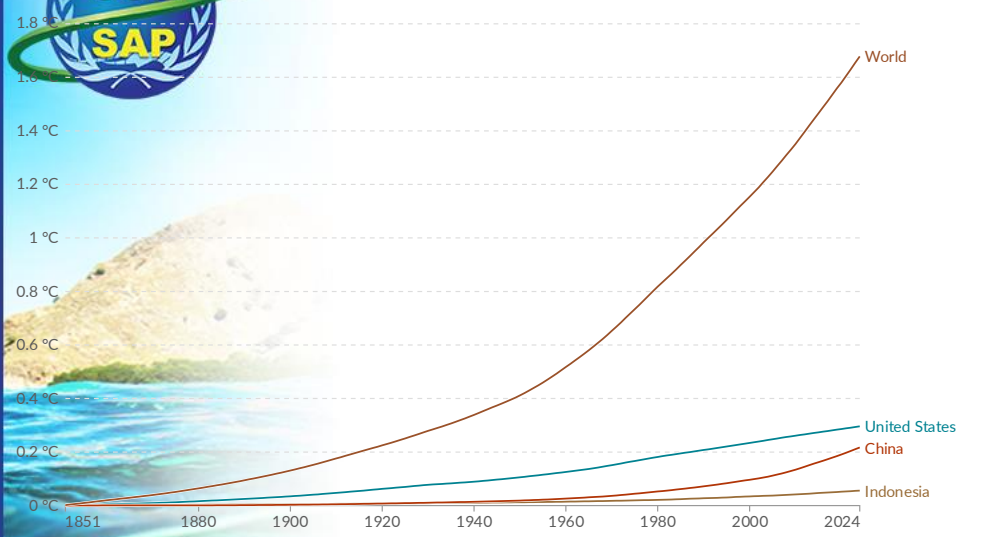
Data source: Global Carbon Budget (2025) OurWorldinData.org/co2-and-greenhouse-gas-emissions | CC BY
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In 2024:

1. Maritime SCS-GoT countries contributed 7% of global greenhouse gas emissions.
2. China contributed 28% of global greenhouse gas emissions
3. All SCS-GoT countries contributed 35% of global greenhouse gas emissions, inclusive of land use change sources

Contribution to global mean surface temperature rise, 1851 to 2024

The global mean surface temperature change as a result of a country or region's cumulative emissions of three gases – carbon dioxide, methane, and nitrous oxide.

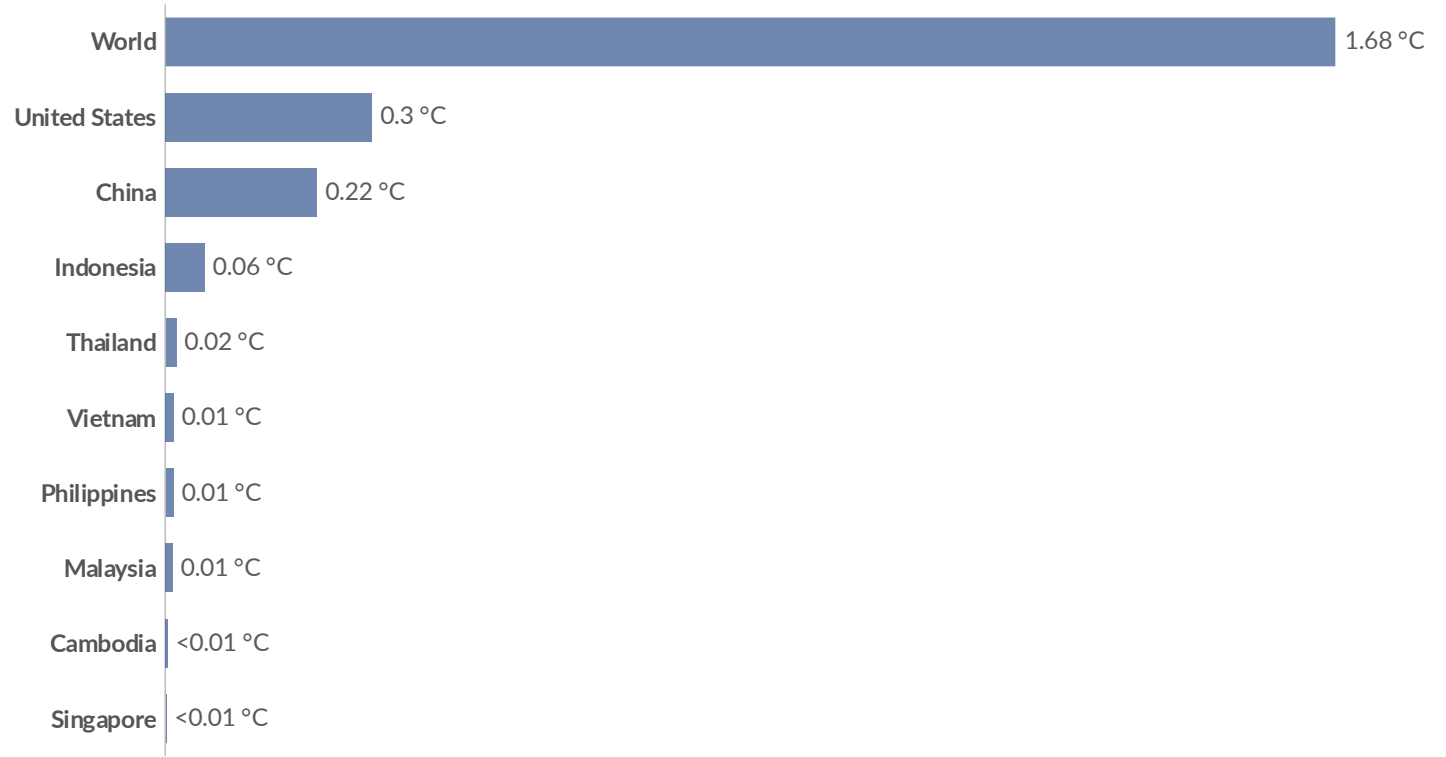


Data source: Jones et al. (2025) OurWorldinData.org/co2-and-greenhouse-gas-emissions | CC BY
 Note: This does not include cooling impacts from sulphur dioxide and aerosols, so the net warming can be lower.



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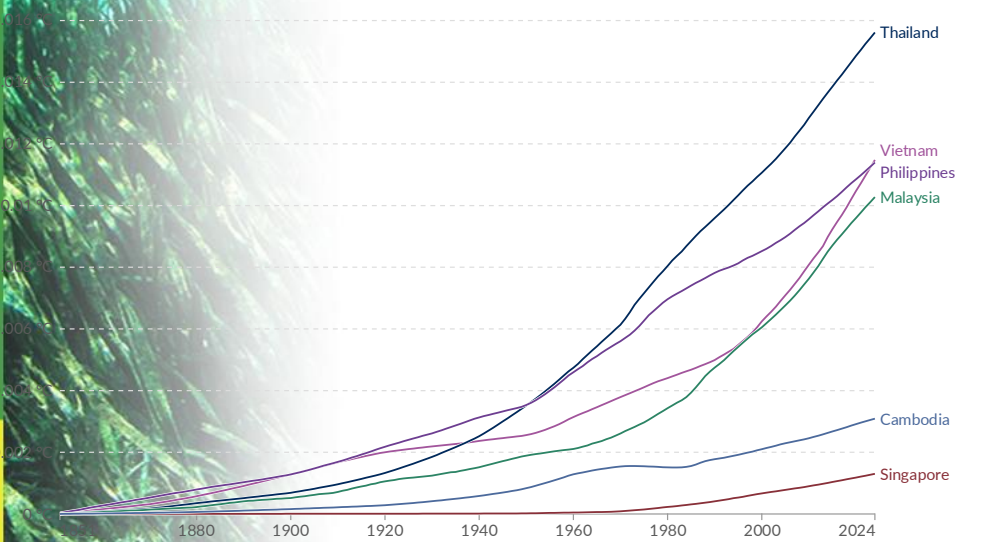


Data source: Jones et al. (2025) OurWorldinData.org/co2-and-greenhouse-gas-emissions | CC BY
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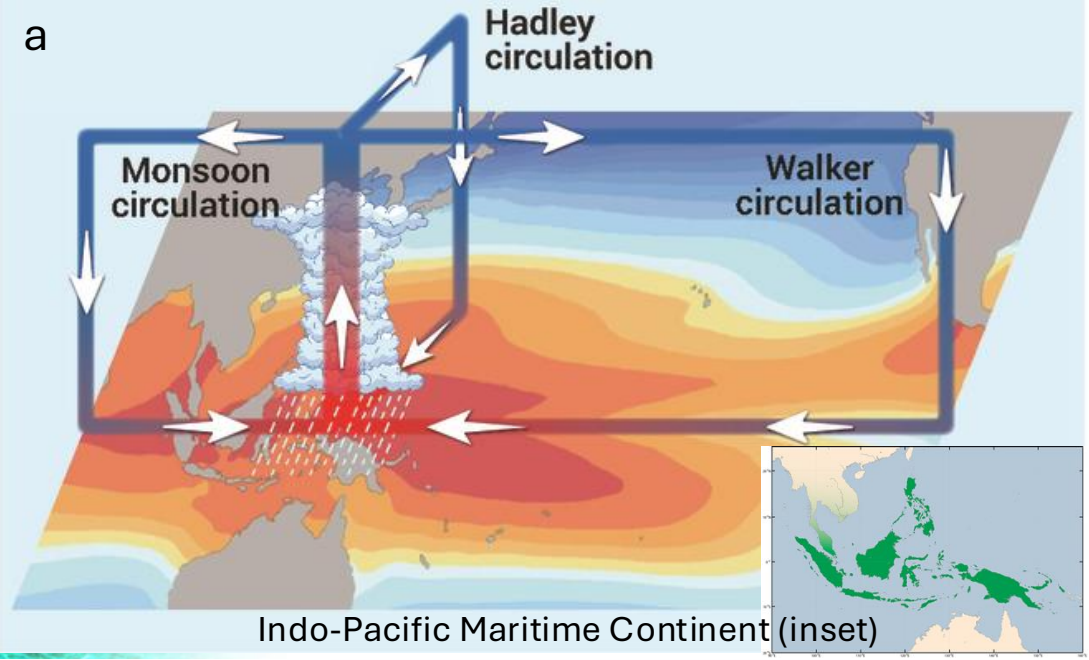


Data source: Jones et al. (2025) OurWorldinData.org/co2-and-greenhouse-gas-emissions | CC BY
 Note: This does not include cooling impacts from sulphur dioxide and aerosols, so the net warming can be lower.



In 2024, SCS-GoT coastal states contributed 0.35°C out of the global 1.68 °C (20%). Of these, China contributed 13%, Indonesia, 3.5%, and all other remaining six countries accounted for the remaining 3.5%.

a



Biodiversity in the South China Sea is 1/3 of global marine species count



Mangroves

45 species out of 80 worldwide



Seagrasses

21 species out of 72 known



Reef-building corals

> 500 species out of 800 worldwide



Reef fish

> 1120 species or 1/3 of global count



Marine turtles

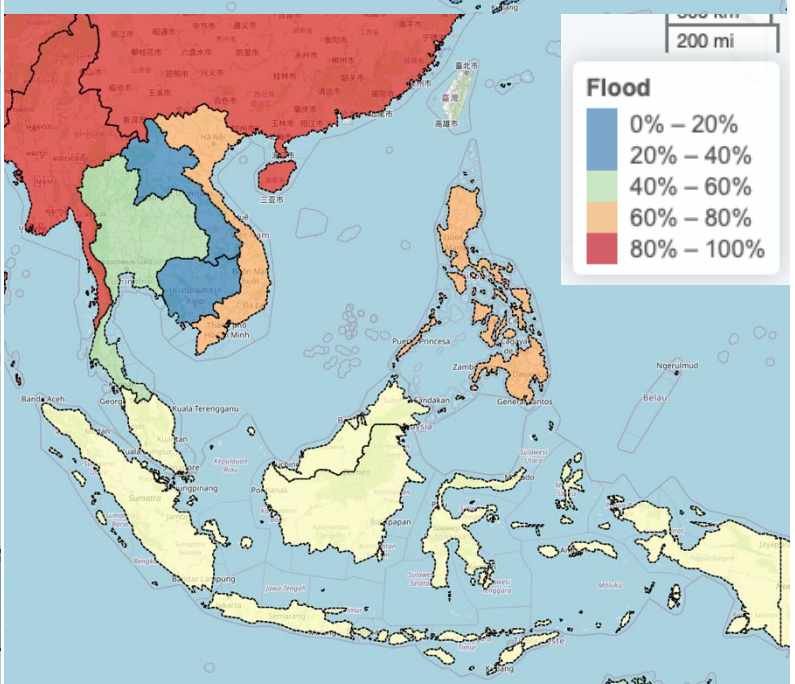
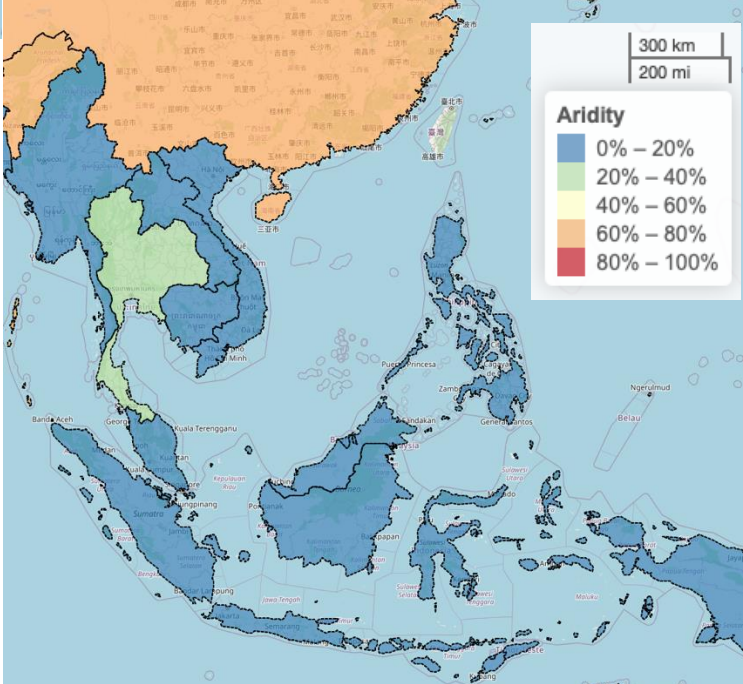
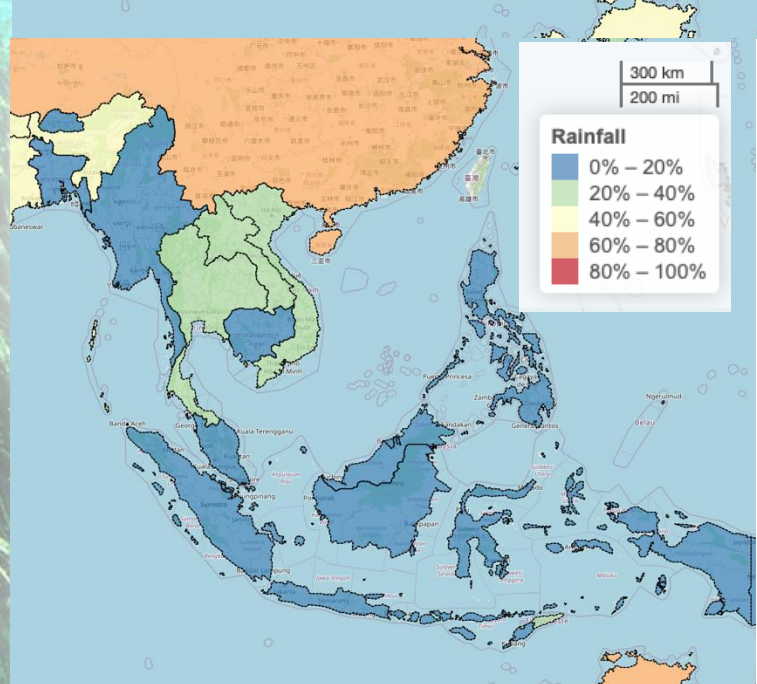
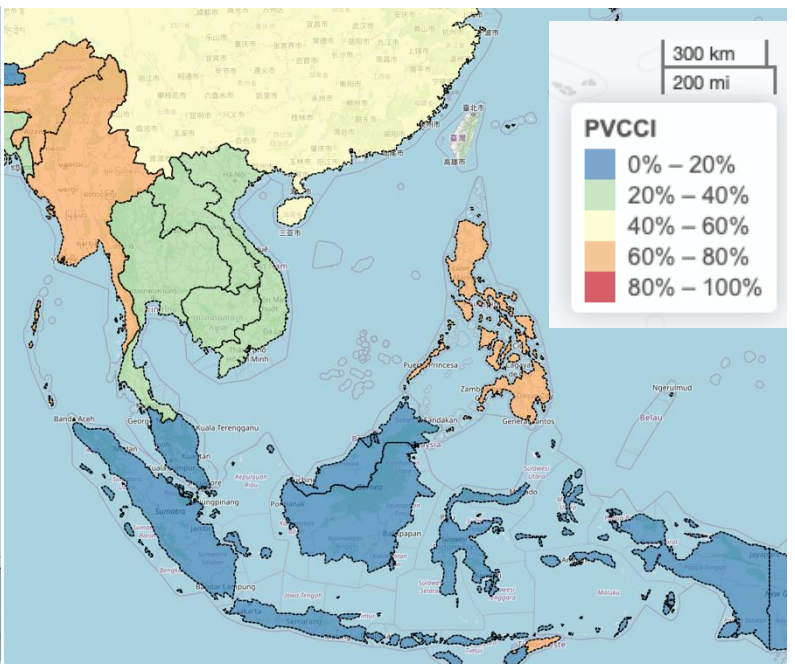
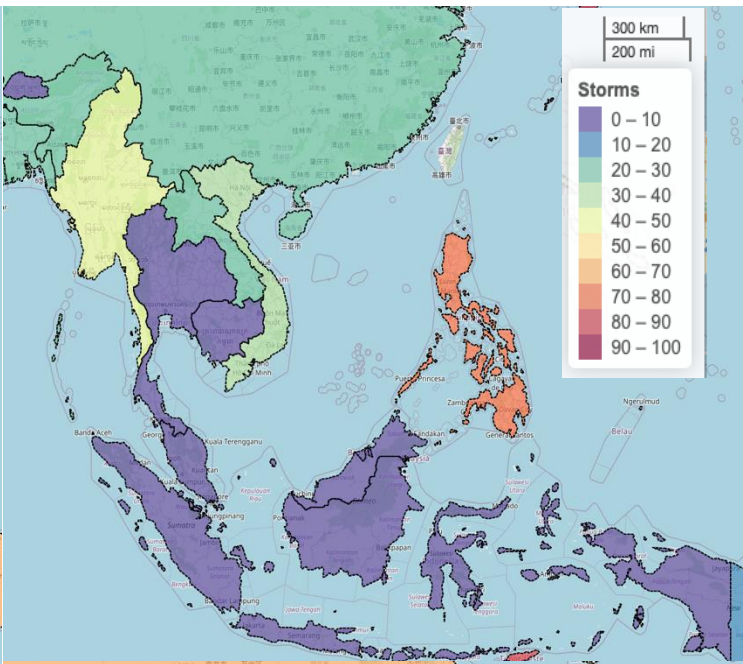
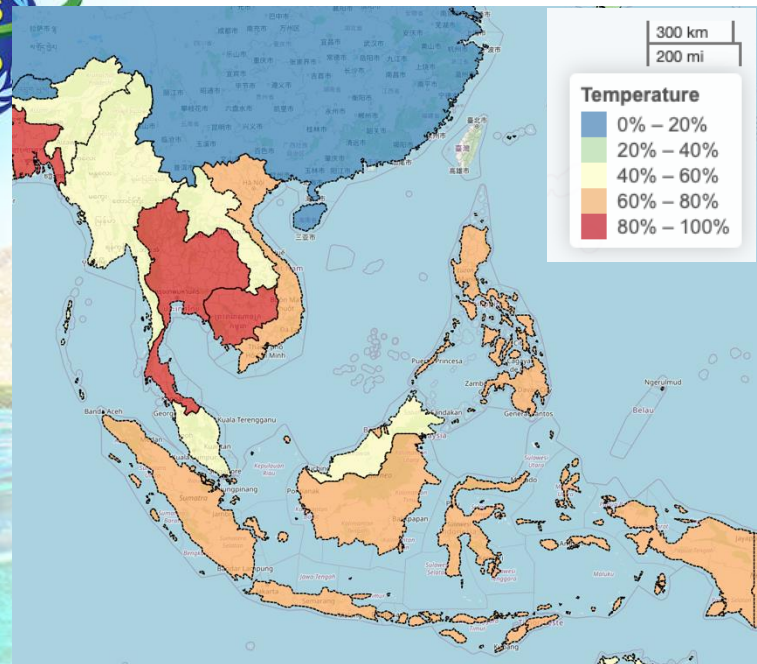
6 species of 7 worldwide

b





Physical Vulnerability to Climate Change Index (PVCCI)



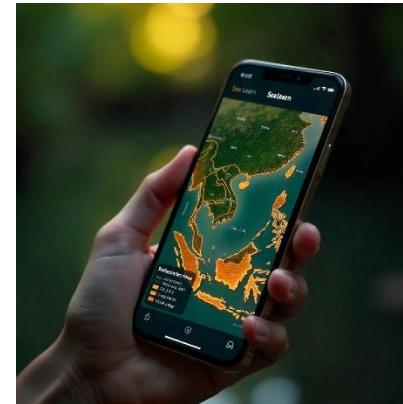


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Regional TDA: Are the coastal citizens around the SCS-GoT at risk?

By: Liana Talaue McManus

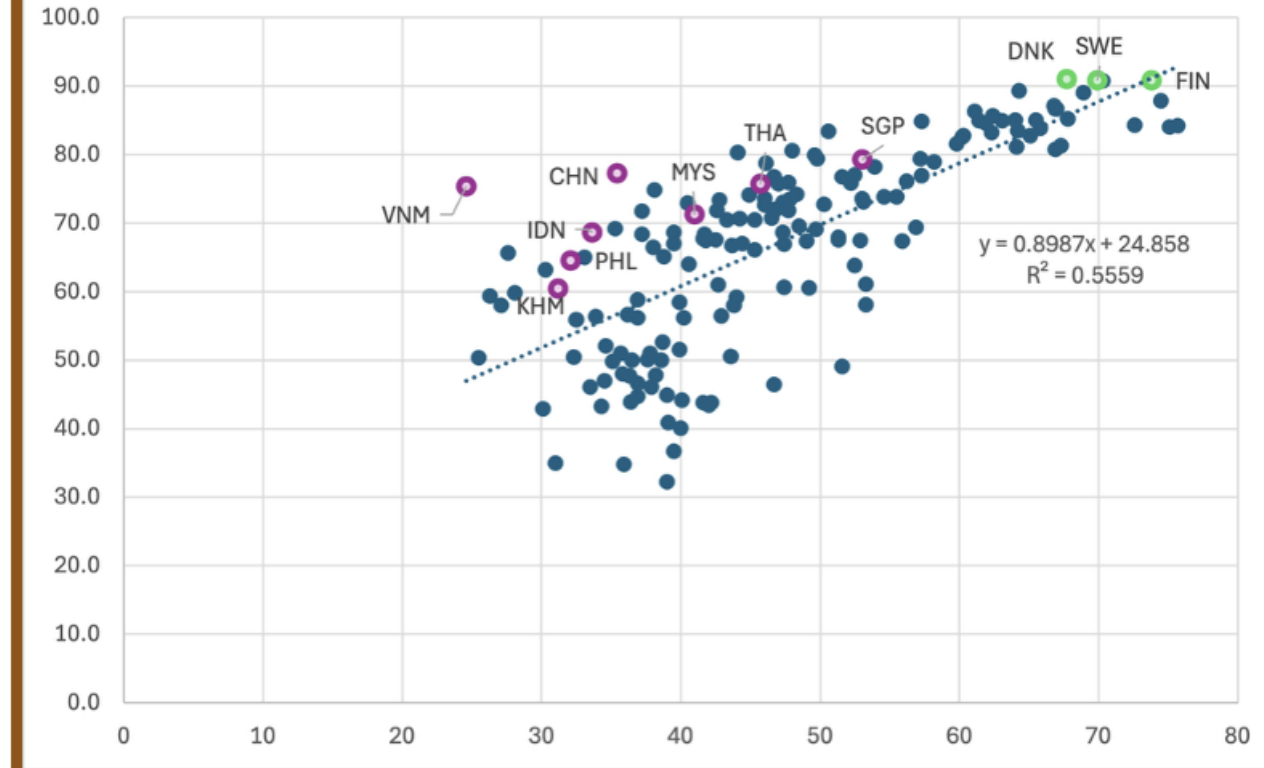
While humans are responsible for climate change, they have the creative energy to design solutions that align with their survival as part of the living world.





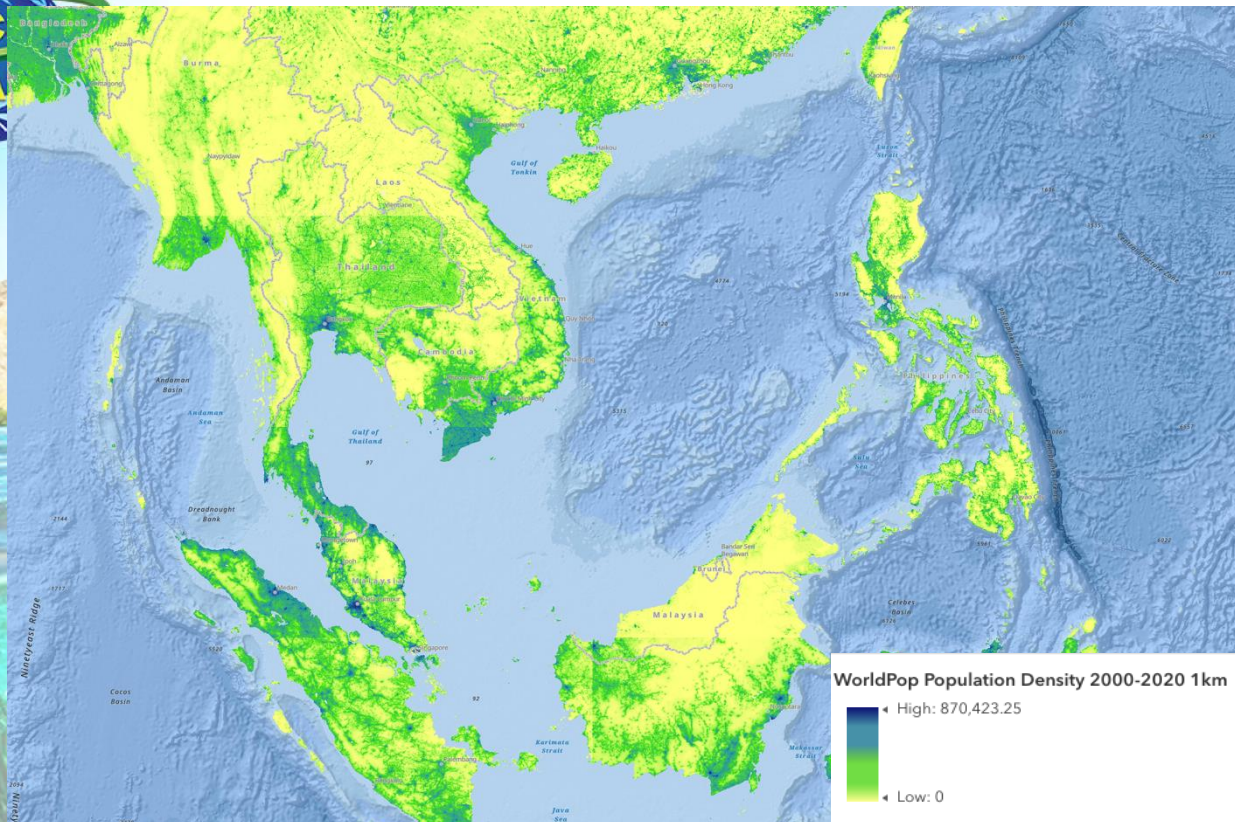
SEG Index [SDG 1-11, 16, 17]

Social Wellbeing and Environmental Performance



Environmental Performance Index
[58 indicators for 11 issue categories, to support 3
policy objectives]

Social Wellbeing and Environmental Performance are two sides of the same coin, called Resilient Sustainability. One cannot be achieved without the other.

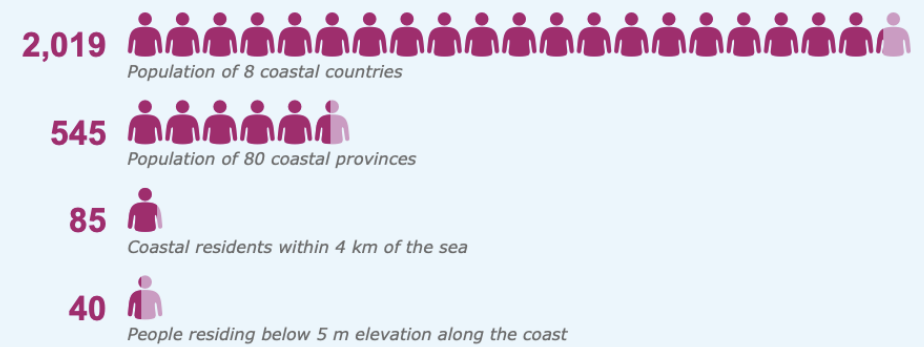


Country	Population 2025	World Share %	Fert. Rate	Yearly Population Change	Median Age	Urban Pop %
China	1,416,096,094	17.20%	1.02	-0.23%	40.1	67.5%
Indonesia	285,721,236	3.47%	2.1	0.79%	30.4	59.6%
Philippines	116,786,962	1.42%	1.88	0.81%	26.1	49.3%
Vietnam	101,598,527	1.23%	1.88	0.60%	33.4	41.4%
Thailand	71,619,863	0.87%	1.2	-0.07%	40.6	53.5%
Malaysia	35,977,838	0.44%	1.53	1.18%	31	77.4%
Cambodia	17,847,982	0.22%	2.51	1.19%	26.2	26.5%
Singapore	5,870,750	0.07%	0.96	0.66%	36.2	100.0%
Maritime SE Asia	635,423,158	8%	1.89		31.2	54.6%
SCS-GoT	2,051,519,252	25%	1.29		37.3	63.5%

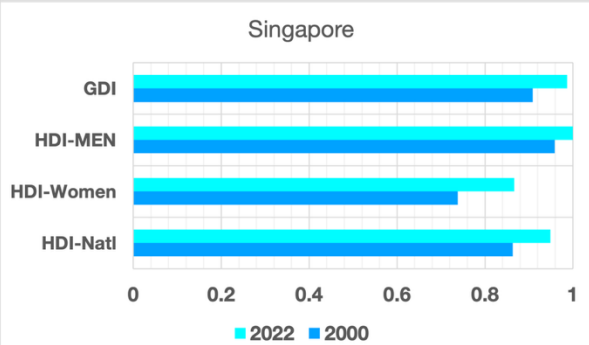
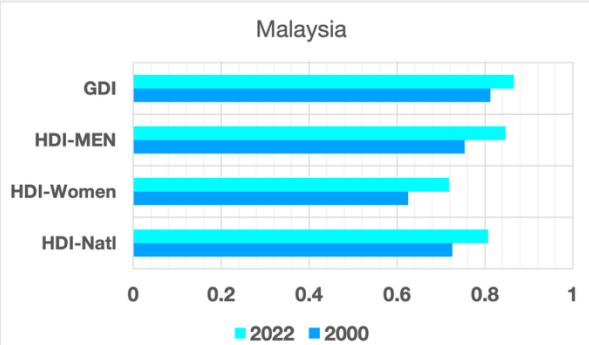
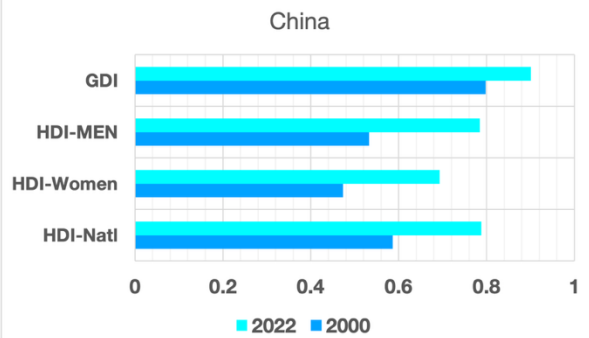
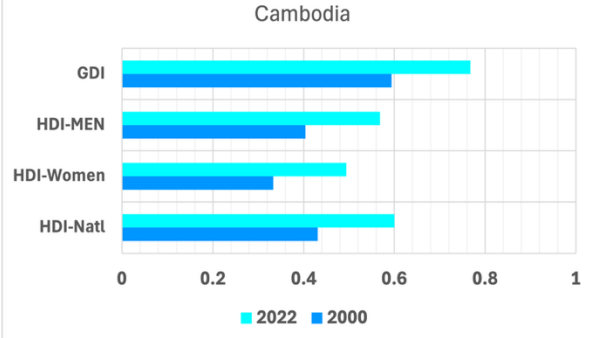
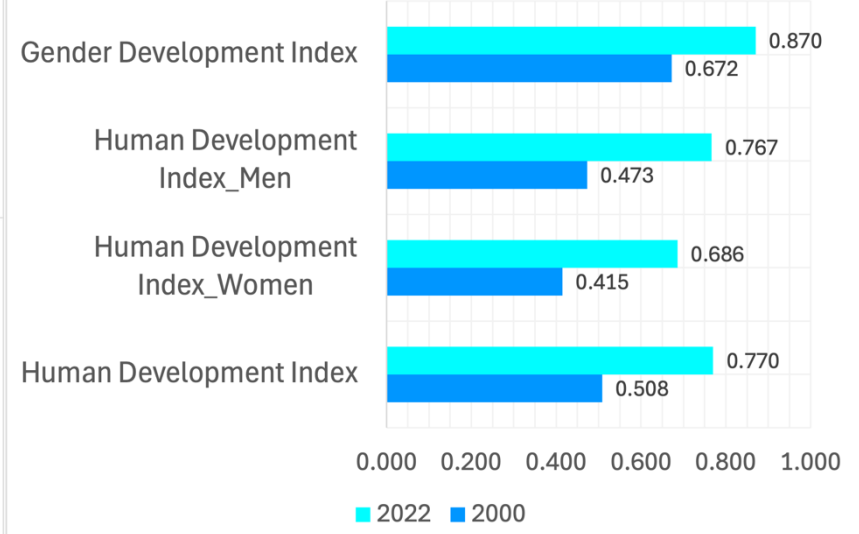
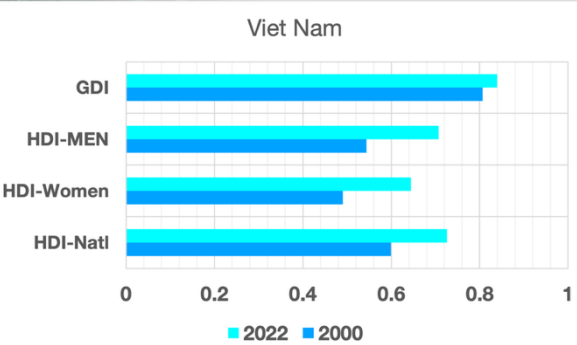
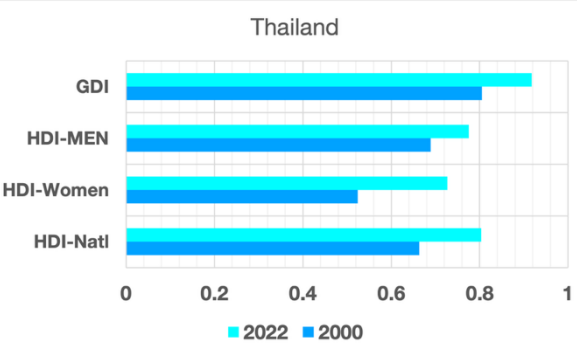
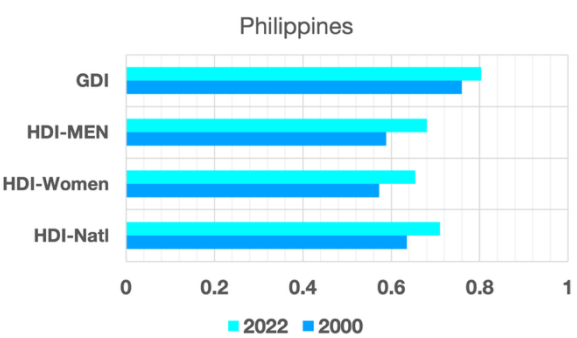
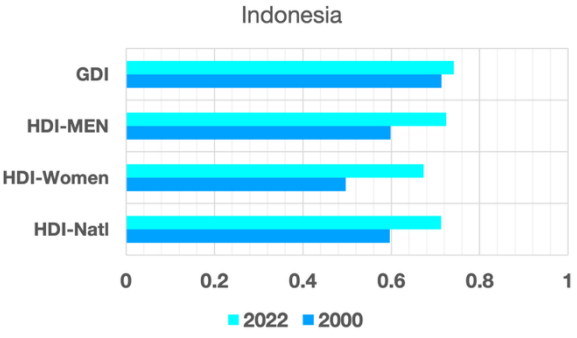
TOTAL POPULATION SIZE OF SOUTH CHINA SEA COUNTRIES (MILLIONS)



COASTAL POPULATIONS (MILLIONS) IN 2020



Progress in Human Well-Being SCS Countries, 2000 to 2022



5 GENDER EQUALITY

13 pts (%) needed for gender equality



1 NO POVERTY

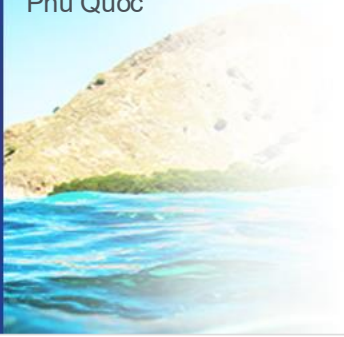


SDG 1 may take beyond 2030 to achieve.

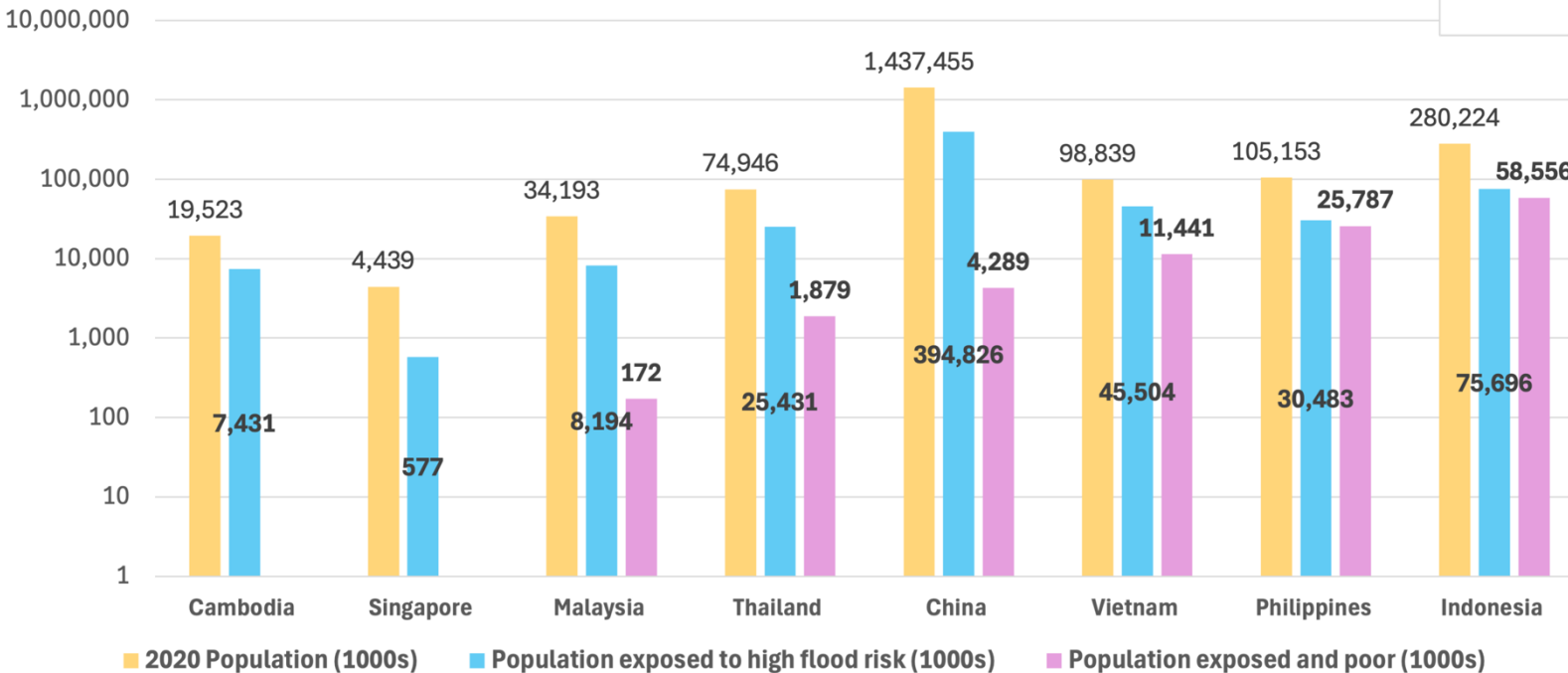
2023 GNI per capita threshold 2023 Income classification	SCS Country	Poverty Threshold 2015 PPP USD	2020 Poverty headcounts		2030 Poverty headcounts	
			SSP2- BAU	SSP3	SSP2- BAU	SSP3
Low-Middle Income US\$ 1136-4495	Cambodia	3.2	2,240,212	2,435,946	657,407	1,160,707
	Philippines	3.2	16,055,167	18,240,751	8,820,237	15,782,757
	Vietnam	3.2	18,908,463	20,107,742	8,350,876	11,784,653
Upper-Middle Income US\$ 4496-13935	China	5.5	289,016,513	304,634,752	104,956,045	157,359,971
	Indonesia	5.5	74,280,169	77,966,588	29,936,369	42,985,893
	Malaysia	5.5	4,758,876	5,020,826	3,176,416	4,197,233
	Thailand	5.5	7,236,252	7,983,895	1,616,902	3,461,263
High Income US\$ >13935	Singapore	5.5	134,093	143,273	89,833	117,111
		Total	412,629,745	436,533,773	157,604,084	236,849,588



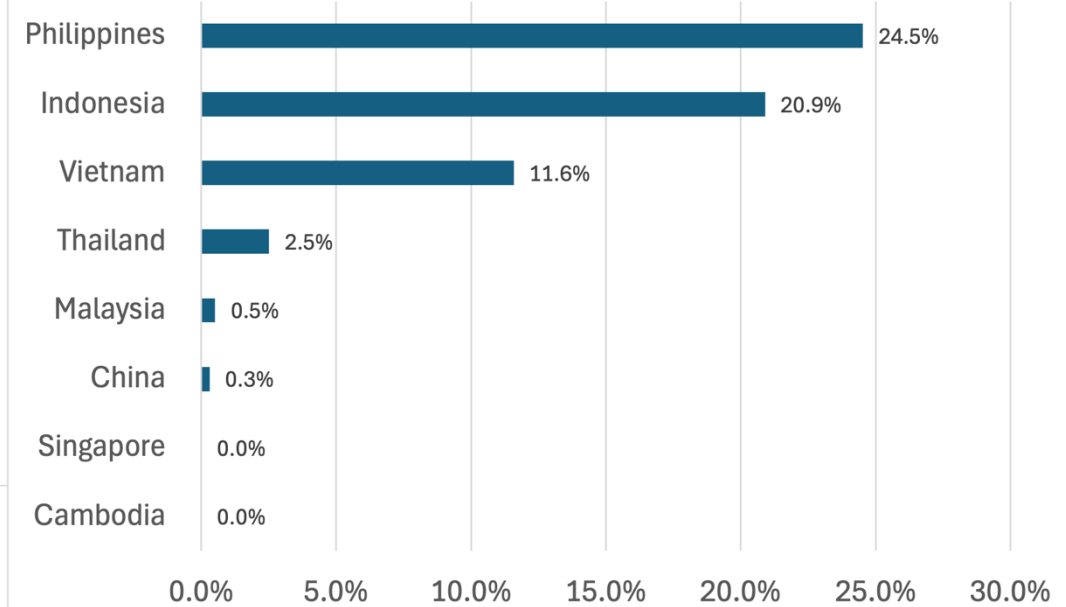
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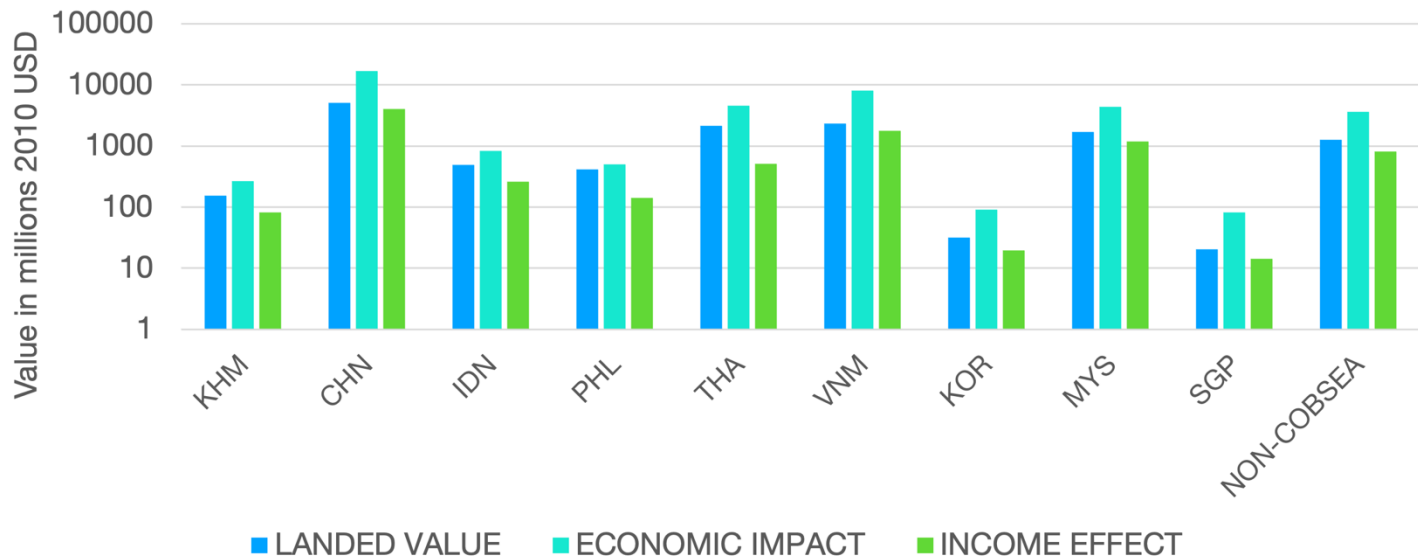
Populations of SCS-GoT Countries exposed to high flood risk and those exposed and poor
Poor (at \$1.90, \$3.2 & \$5.5 per day) (in 1000s) (data from Rentschler et al. 2022) (yr 2020)



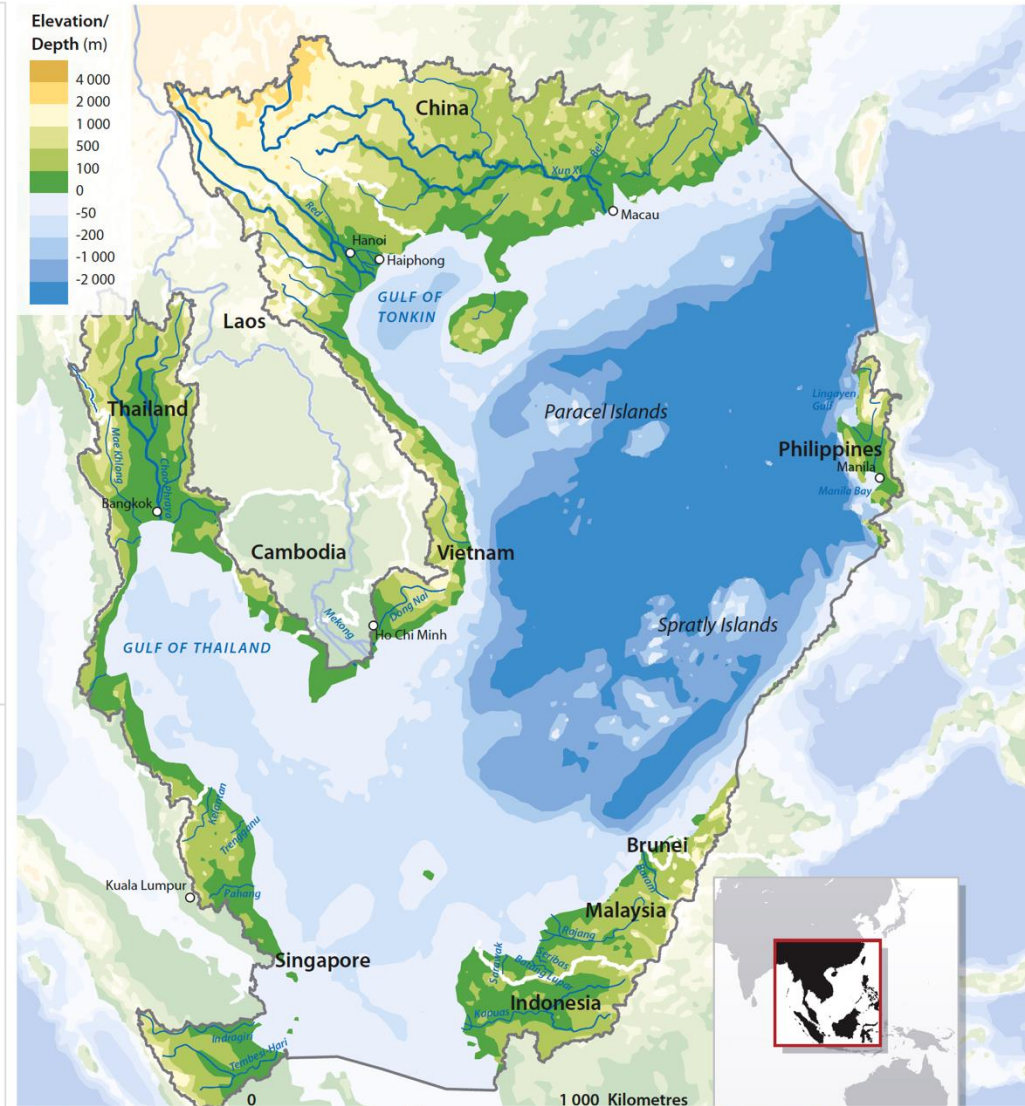
Proportions of populations of SCS-GoT Countries exposed to high flood risk and poor (1000s) (2020)



Economic Impact of Capture Fisheries
South China Sea - Gulf of Thailand, 2000



Economic Impact of Capture Fisheries
South China Sea - Gulf of Thailand, 2019




















Millions 2010 USD	2000	2019
Landed Value	13,600	19,400
Economic Impact	39,200	59,100
Income Effect	9,000	13,600



Coral Reef Tourism in COBSEA Countries

Country	Total reef area (km ²)	Area of reefs used for tourism	Value of coral reefs per year (2013 USD)	Reef visitor expenditures as % Total tourism	Reef tourism as % GDP	Mean value of reef as tourist attraction (2013 USD/ km ²)
Cambodia	116	79 (68%)	\$18,070,000	0.87%	0.13%	\$157,629
China	351	228 (65%)	\$1,435,090,048	0.45%	0.02%	\$3,110,617
Indonesia	39,507	9,087 (23%)	\$3,054,259,968	7.80%	0.34%	\$78,342
Philippines	22,456	7,823 (34%)	\$1,354,889,984	8.83%	0.55%	\$61,607
Thailand	522	522 (100%)	\$2,407,579,904	5.65%	0.61%	\$4,619,366
Viet Nam	777	543 (70%)	\$136,031,008	1.52%	0.09%	\$177,006
Malaysia	2,965	1,816 (61%)	\$1,144,220,032	3.36%	0.37%	\$391,467

Statistical Relationships	Domain	Sustainable Development Goals				
<ol style="list-style-type: none"> Socioeconomic Goal indicators are positively correlated with each other. These were negatively or not correlated with Environment indicators Scores for these 13 goals were averaged to create a Socioeconomics Index for each country (Y-axis, Figure 3.6) 	<p>Socio- economics & Governance</p>	<p>1 NO POVERTY</p> 	<p>2 ZERO HUNGER</p> 	<p>3 GOOD HEALTH AND WELL-BEING</p> 	<p>4 QUALITY EDUCATION</p> 	<p>5 GENDER EQUALITY</p> 
<ol style="list-style-type: none"> Scores for 4 Environment Goals and the International Spillovers Score were averaged to generate an Environment Index for each country (X-axis, Figure 3.6) 	<p>Environment</p>	<p>6 CLEAN WATER AND SANITATION</p> 	<p>7 AFFORDABLE AND CLEAN ENERGY</p> 	<p>8 DECENT WORK AND ECONOMIC GROWTH</p> 	<p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p> 	
		<p>10 REDUCED INEQUALITIES</p> 	<p>11 SUSTAINABLE CITIES AND COMMUNITIES</p> 	<p>16 PEACE, JUSTICE AND STRONG INSTITUTIONS</p> 	<p>17 PARTNERSHIPS FOR THE GOALS</p> 	
		<p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p> 	<p>13 CLIMATE ACTION</p> 	<p>14 LIFE BELOW WATER</p> 	<p>15 LIFE ON LAND</p> 	<p>International Spillovers Score</p>



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Country	2024 SDG Index Score	2024 SDG Index Rank	SDG1: No Poverty		SDG2: No Hunger		SDG3: Good Health and Well-Being		SDG4: Quality Education		SDG5: Gender Equality	
Thailand	74.67	45	Green	↑	Red	→	Red	↘	Green	↑	Yellow	→
Vietnam	73.32	54	Green	↑	Red	↘	Red	↘	Green	→	Yellow	→
Singapore	71.41	65	Grey		Yellow	↓	Yellow	↘	Green	→	Yellow	↘
China	70.85	68	Green	↑	Yellow	→	Yellow	↘	Green		Yellow	→
Indonesia	69.43	78	Yellow	↑	Red	→	Red	↘	Yellow	↑	Yellow	↘
Malaysia	69.32	79	Green	↑	Red	→	Yellow	↘	Yellow	→	Red	↘
Philippines	67.47	92	Yellow	↘	Yellow	↘	Red	→	Yellow	→	Yellow	→
Cambodia	64.90	104	Grey		Yellow	↘	Red	→	Red	→	Red	→

Country	2024 SDG Index Score	2024 SDG Index Rank	SDG6: Clean Water and Sanitation		SDG7: Affordable and Clean Energy		SDG8: Decent Work and Economic Growth		SDG9: Industry, Innovation & Infrastructure		SDG10: Reduced Inequalities	
Thailand	74.67	45	Yellow	↘	Yellow	↘	Yellow	→	Yellow	↑	Yellow	→
Vietnam	73.32	54	Yellow	↘	Yellow	↘	Yellow	→	Yellow	↘	Yellow	↓
Singapore	71.41	65	Red	↘	Yellow	↘	Red	↘	Green	↘	Grey	
China	70.85	68	Yellow	↘	Yellow	↘	Yellow	→	Yellow	↑	Yellow	↘
Indonesia	69.43	78	Yellow	↘	Yellow	↘	Yellow	↘	Yellow	↘	Yellow	→
Malaysia	69.32	79	Yellow	↘	Yellow	→	Yellow	→	Yellow	↘	Red	→
Philippines	67.47	92	Yellow	→	Yellow	→	Red	↘	Yellow	↘	Red	↘
Cambodia	64.90	104	Red	↘	Red	↘	Red	→	Red	↘	Grey	

Country	2024 SDG Index Score	2024 SDG Index Rank	SDG11: Sustainable Cities and Communities		SDG12: Responsible Consumption & Production		SDG13: Climate Action		SDG14: Life Below Water		SDG15: Life on Land	
Thailand	74.67	45	Yellow	↘	Yellow	→	Yellow	→	Red	→	Red	→
Vietnam	73.32	54	Yellow	→	Yellow	→	Yellow	→	Red	→	Red	→
Singapore	71.41	65	Yellow	↑	Red	↘	Red	→	Red	↘	Red	→
China	70.85	68	Yellow	↘	Yellow	→	Yellow	→	Red	→	Red	→
Indonesia	69.43	78	Red	→	Yellow	→	Yellow	↘	Red	→	Red	→
Malaysia	69.32	79	Yellow	↑	Yellow	→	Yellow	→	Red	→	Red	→
Philippines	67.47	92	Red	→	Green	→	Yellow	↓	Red	↘	Red	↘
Cambodia	64.90	104	Yellow	→	Yellow	→	Yellow	↓	Red	→	Red	→

Country	2024 SDG Index Score	2024 SDG Index Rank	SDG16: Peace, Justice and Strong Institutions		SDG17: Partnerships for the Goals		Dashboard :		Time Series :	
Thailand	74.67	45	Red	→	Yellow	→	green	Goal Achievement	↑	On track or maintaining achievement
Vietnam	73.32	54	Red	→	Yellow	↘	yellow	Challenges remain	↘	Moderately Increasing
Singapore	71.41	65	Yellow	→	Yellow	↘	orange	Significant challenges	→	Stagnating
China	70.85	68	Red	↘	Yellow	→	red	Major challenges	↓	Decreasing
Indonesia	69.43	78	Yellow	→	Yellow	→	grey	Insufficient data		
Malaysia	69.32	79	Yellow	→	Yellow	→				
Philippines	67.47	92	Red	→	Yellow	↘				
Cambodia	64.90	104	Red	→	Yellow	→				

This data should be cited as: Sachs, J.D., Lafortune, G., Fuller, G. (2024). The SDGs and the UN Summit of the Future. Sustainable Development Report 2024. Paris: SDSN, Dublin: Dublin University Press. doi:10.25546/108572

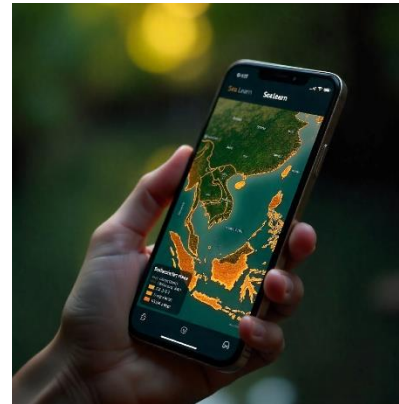
**THANK
YOU**



RSTC3 Meeting
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Regional TDA: Synthesis and Conclusions

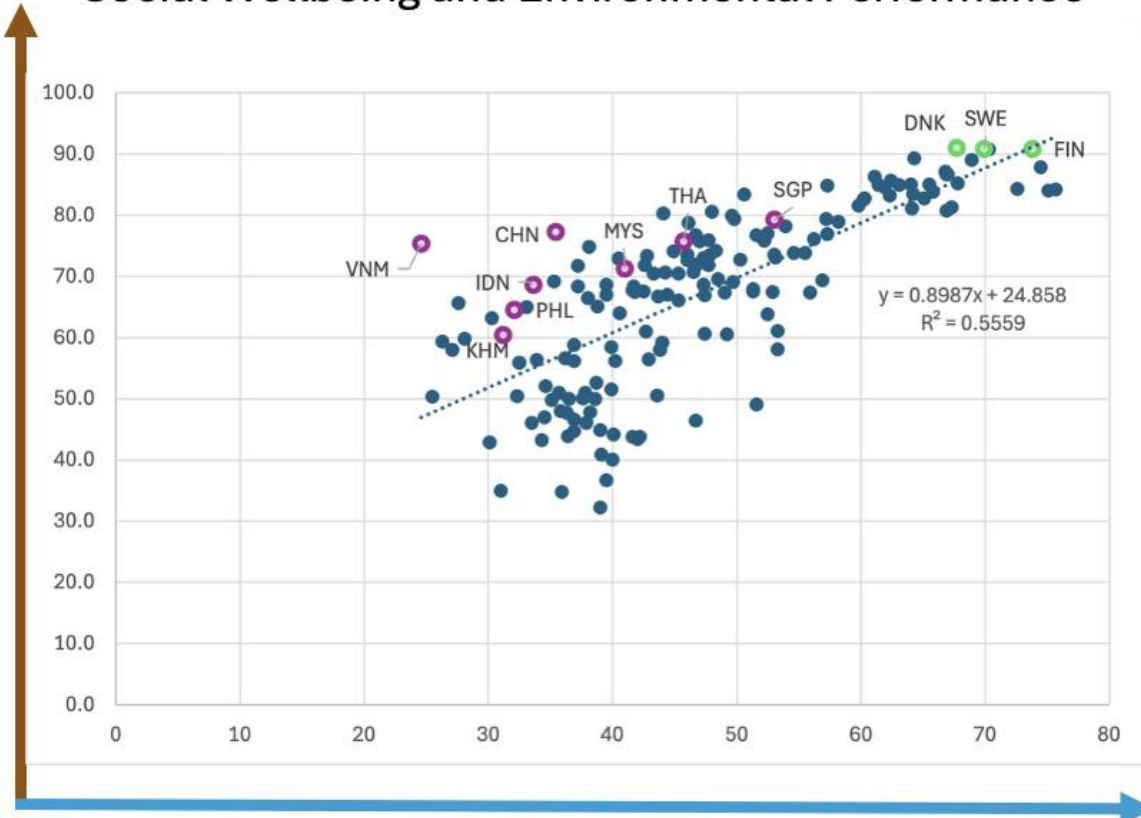
By: Regional TDA Team



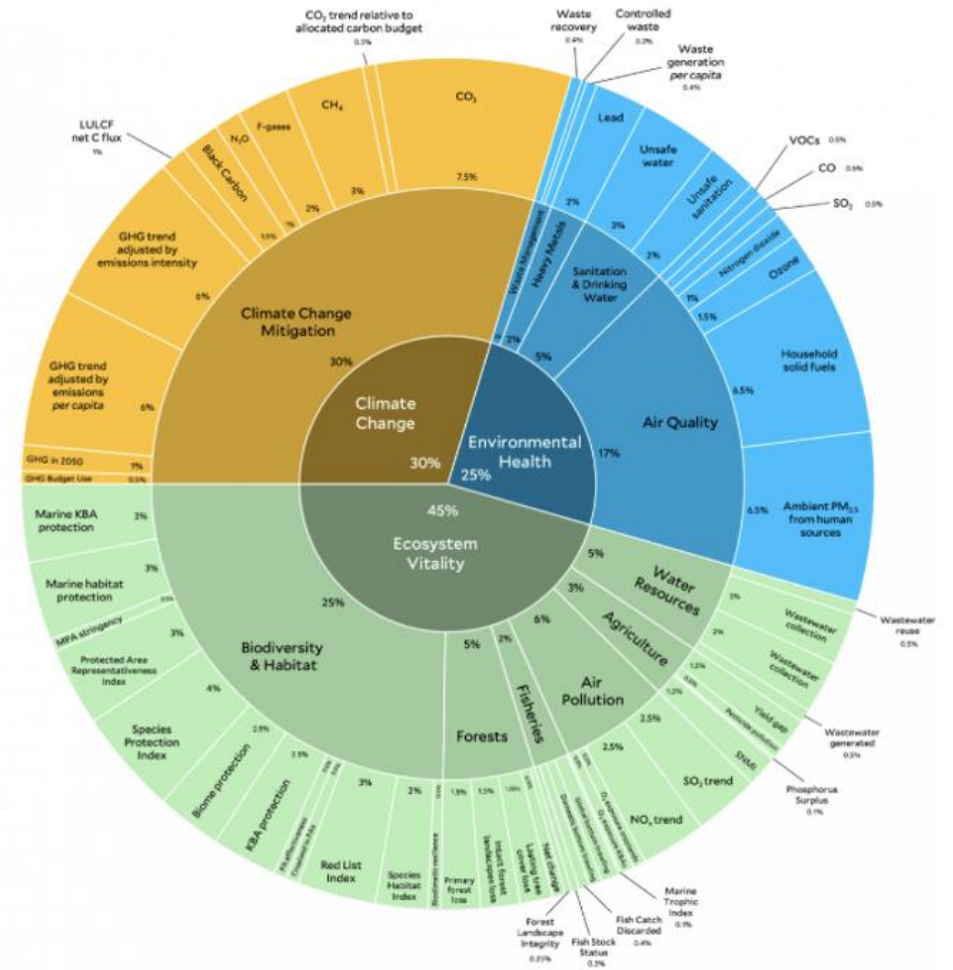


SEG Index [SDG 1-11,16,17]

Social Wellbeing and Environmental Performance



Environmental Performance Index
[58 indicators for 11 issue categories, to support 3 policy objectives]



Social Wellbeing and Environmental Performance are two sides of the same coin, called Resilient Sustainability. One cannot be achieved without the other.



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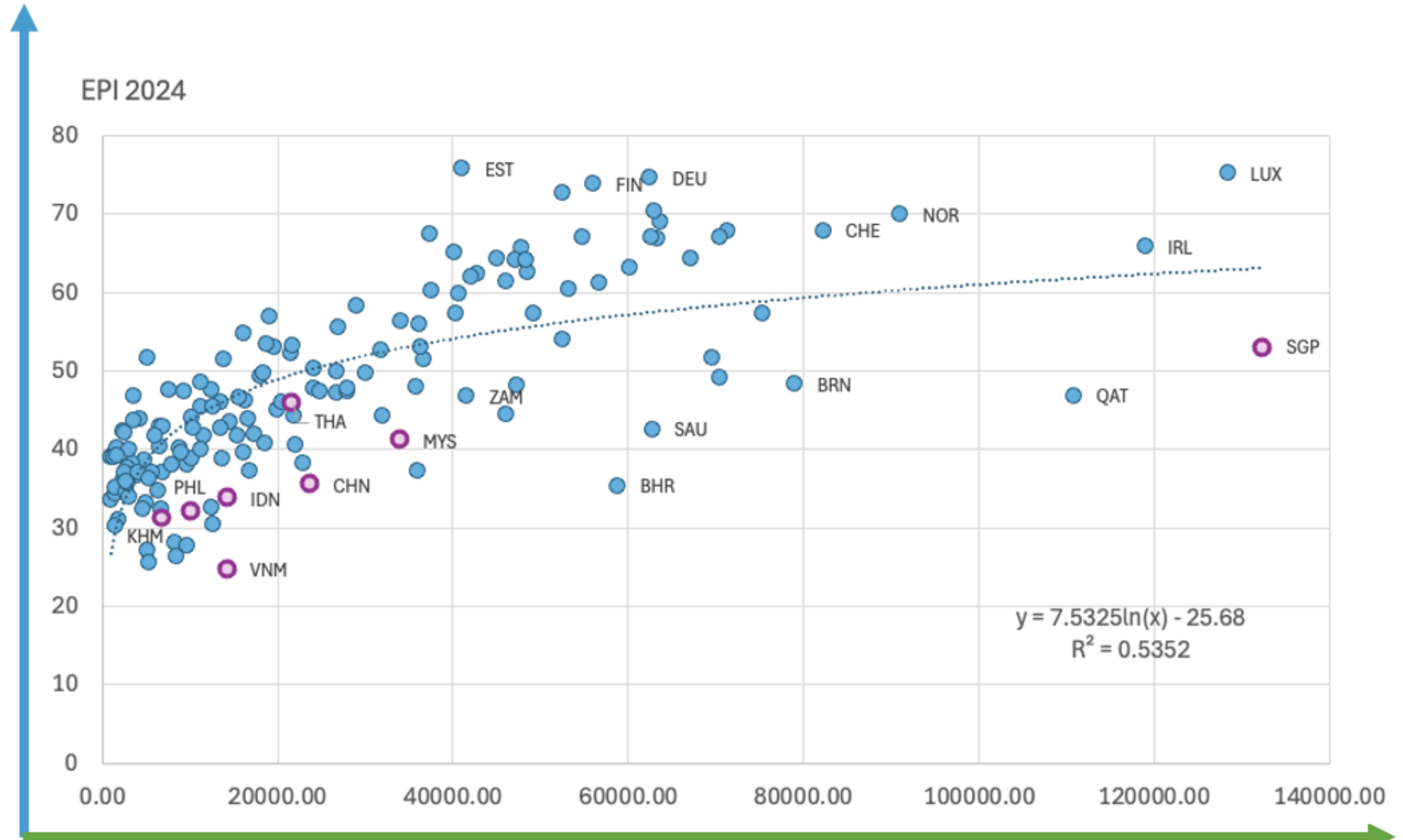
Social Wellbeing and Wealth



Social wellbeing and wealth is contingent on development phase: (1) survival phase – tight linear relationship; bend phase – growth in wealth increases consumption, which increases ecological footprint; flat phase – life satisfaction is not rising with GDP.



Environmental Performance Index (2024)











2024 GDP per capita, constant 2021 Intl \$






Recommended Regional Actions Across Six Thematic Areas in the South China Sea and the Gulf of Thailand






A. Climate Change Adaptation

Sub-theme	Key Recommended Actions	Implementation Focus & Notes
	Establish Integrated Early Warning Systems (EWS) with community preparedness	Involve communities and achieve benefit-to-cost ratio >10 (Krishnan et al. 2025)
	Expand decentralized renewable energy systems (solar, wind)	Ensure post-disaster energy supply and increase community resilience (WRI 2025)
	Promote sustainable agriculture & land use (agroforestry, silvopasture, community forests)	Reduce land-use emissions (20% of GHG); enhance farmer resilience
	Invest in climate-smart buildings (passive cooling, reflective roofs, low-carbon materials)	Decrease building emissions (20% of GHG); provide co-benefits
	Expand urban green spaces	Lower ambient temperature through shading and evapotranspiration
	Protect & restore coastal ecosystems (mangroves, seagrass, coral)	Provide carbon sequestration, fisheries support, and natural flood defense
	Build stormwater drainage networks & detention basins	Reduce urban flooding; land-intensive (may not suit dense urban areas)
	Implement "soft" shoreline maintenance & flexible infrastructure planning	Use dunes, vegetation, setbacks; implement dynamic planning to reduce long-term risk (Feng et al. 2025)



B. Socioeconomic & Livelihoods

Sub-theme	Key Recommended Actions	Implementation Focus & Notes
	Promote gender equality in environmental governance	Empower women to assume leadership roles: habitat restoration, sustainable fishing, plastic waste initiatives, climate-friendly consumption
	Poverty alleviation through cash transfer programs & vocational training	Build on Indonesia/Philippines models; youth training in digital monitoring, citizen science, climate outreach
	Ensure inclusive community participation in decision-making	Enable vulnerable groups to participate in environmental governance & solution design







C. Pollution Control

Sub-theme	Key Recommended Actions	Implementation Focus & Notes
	Update SAP priorities for 2030 and 2050	Reflect rising plastic leakage and stronger climate and storm pressures.
	Adopt a regional legally binding pollution framework	Build on existing regional instruments and agree on shared targets and obligations.
	Invest in land-based pollution control for coastal cities	Package wastewater and solid-waste upgrades; prioritize hotspots and high-exposure cities.
	Climate-proof waste and wastewater systems	Storm-safe design, redundancy, overflow controls, safer siting; align with land-use planning and marine spatial planning.
	Build a regional Monitoring Review Verification (MRV) and performance scorecard	Shared indicators and reporting; data platform for tracking delivery and benchmarking progress.





	Reduce nutrient loads in priority watersheds	Reform fertilizer incentives; scale precision nutrient management and farmer advisory support.
	Align plastics measures and EPR across the region	Common standards and coordinated action plans; comparable data and scenario tools to guide choices.






D. Marine Habitats & Ecosystems

Sub-theme	Key Recommended Actions	Implementation Focus & Notes
	Manage biodiversity hotspots with locally appropriate restoration & management	Customize actions to habitat status, impacts, and resilience
	Develop & connect MPA & OECM networks	Improve management effectiveness and ecological connectivity
	Protect migratory species across nesting/feeding areas	Exchange information and conservation techniques, reduce bycatch
	Enhance climate resilience & reduce cumulative anthropogenic impacts	Plan for scenarios that feature unpredictable events
	Strengthen monitoring, evaluation, reporting & policy briefing	Enable adaptive management
	Promote transboundary cooperation (habitats, fisheries refugia, blue carbon, pollution, migratory species)	Encourage and support multi-theme, cross-border collaboration

E. Sustainable Fisheries Management

Sub-theme	Key Recommended Actions	Implementation Focus & Notes
	Gulf of Thailand (Recovery Challenge): Drastically reduce fishing capacity (especially bottom trawlers) and enhance bilateral cooperation and enforcement	<ul style="list-style-type: none"> Adopt Ecosystem-Based Fisheries Management (EBFM) Eliminate Illegal, Unregulated and Unreported (IUU) fishing Strengthen Monitoring Control and Surveillance (MCS) systems
	South China Sea (Prevention Challenge): Establish Regional Fisheries Management Organization (RFMO); set shared TACs; protect spawning grounds	<ul style="list-style-type: none"> Invest in shared science & stock assessment. Phase out harmful subsidies Promote sustainable aquaculture

F. Governance and Collaboration

Sub-theme	Key Recommended Actions	Implementation Focus & Notes
	Strengthen existing platforms:	COBSEA (coordination), PEMSEA (data/community), ASEAN (policy dialogue), regional research networks
	Accelerate progress toward UNSDG 14 by 2030	Reverse trends in overfishing, pollution, habitat loss, climate impacts
	Establish effective transboundary governance mechanisms	Harmonize policies, coordinate science, implement cross-border conservation
	Ensure integrated, equitable policies & funding	Reach remote/vulnerable communities; distribute resources fairly
	Long-term vision: Create a fully functional intergovernmental regional authority for SCS & GoT	Apex body for integrated marine governance



Transformative, integrated and cooperative Governance is key to a sustainable future for the SCS-GoT LMEs

Urgent proactive, integrated and cooperative action is needed that addresses the triple planetary crisis for a sustainable future in the SCS-GoT.

Global and regional treaties (UNCLOS, SDGs and ASEAN) set high level legal and policies, need strengthening and shared commitment.

Regional mechanisms (COBSEA, PEMSEA, ASEAN, ect) need to be strengthened with clear agenda-setting, coalition building, leadership supported by a robust institution, with systemic integration to amplify efforts.

Political commitment, sustained investment, and capacity, is necessary, at all levels, through strong integrated national governance, incentives, legitimacy and cost benefit realism.

A Source to Sea approach adopted, with harmonized policies and laws, and inclusive and participatory decision-making, planning and management.

Technology, infrastructure, adaptation, knowledge sharing, monitoring, evaluation, control and surveillance are tools that need to be adopted.



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