GEO 6
GLOBAL ENVIRONMENT OUTLOOK
HEALTHY PLANET HEALTHY PEOPLE

UN environment
United Nations Environment Programme

Measuring Progress

Nature and the SDGs

Outline

- Summary of discussions
- Experts contributions and Drafting guidelines
- Proposed timeline

Summary of discussions

- **Difference between correlation and causality**
  - Necessity to clarify and differentiate between them
  - Define what is used for the analysis in this report
- **Analysis of outliers**
  - Shall take into consideration the yearly variability of data (use mean of several years)
  - Country specificity: to account for the difference in size, population
  - Analyse the cause of the outlier (investigative perspective to understand the data)
- **Data availability and data coverage**
  - Highlight the impact of data unavailability on the outcomes of the report
  - What could have been achieved if all data was available

Summary of discussions

- Definition of nature used in the report
  - Nature in the context of the SDGs
- Use of indicators and sub-indicators for the analysis
- Mention of COVID-19
- Possibility of case studies from different regions

Lead authors: Terms of Reference

- Take the overall responsibility for coordinating and drafting sections to given deadlines and work closely with the UNEP to provide oversight of the sections.
- Ensure that sections are completed to a high standard, collated and delivered to UNEP in a timely manner and conform to the guidelines for scientific credibility.
- Ensure review comments are dealt with according to specific guidelines.
- Develop text that is scientifically, technically and socio-economically sound incorporating contributions by group contributing authors.
- Ensure that any crosscutting scientific or technical issues which may involve several sections of the report are addressed in a complete and coherent manner.
- Contribute to preparing identifying findings and recommendations.

Note: The names of all authors will be acknowledged in the report.

Contributing authors: Terms of Reference

- Prepare technical information in the form of text, graphs or data for assimilation by the Lead Author into the draft section.

- Edit, merge and amend contributed material in the course of developing the overall draft text.

- Conform to the guidelines for scientific credibility.

Note: The names of all authors will be acknowledged in the report.

Experts Contributions

Executive Summary

Chapter 1: Introduction

- Introduction
  - SDGs
  - Environmental Targets and indicators
- Defining nature in the context of this report and analysis Scope of SDG targets related to nature
- Description of socio-economic indicators included in the analysis
- Identify the broad link between nature-related SDGs and environmental and socio-economic benefits

Lead author:

UNEP

Contributing authors?

Experts Contributions

Chapter 2: Methodology

- Overview of methodological approach
  - Theory of change
  - Analytical approach
- Data availability and impact of unavailable data

Lead authors:

UCL

UNEP

Experts Contributions

Chapter 3: the State of Nature

- Global progress on the environmental dimension of the SDGs
- Overview of the SDGs Progress
  - Analysis: including biodiversity and environmental conditions, pollution
- General state of nature as per the Nature-related SDG indicators
- Regional nature-related SDG indicators
  - Regional analysis

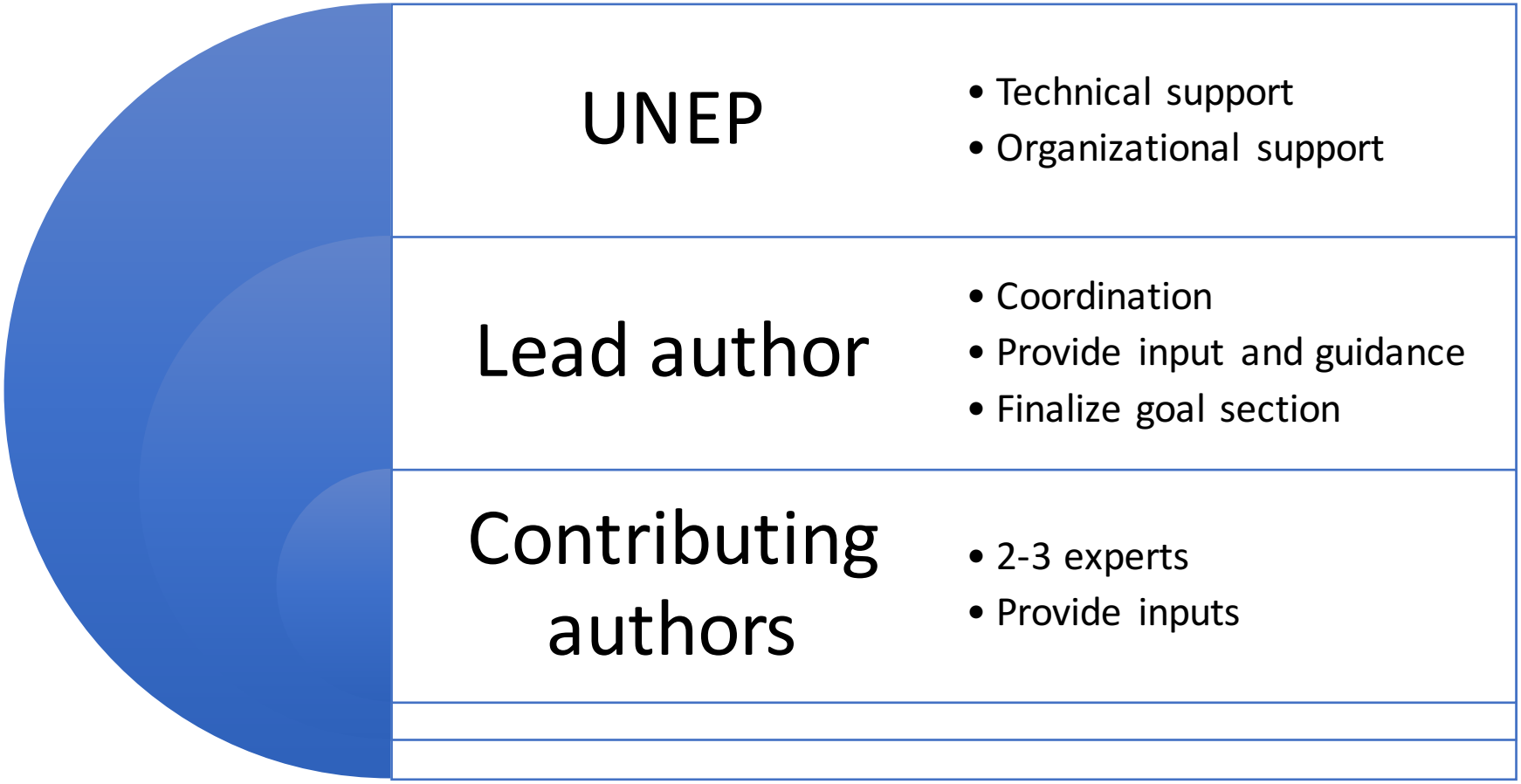
Lead authors:

UNEP

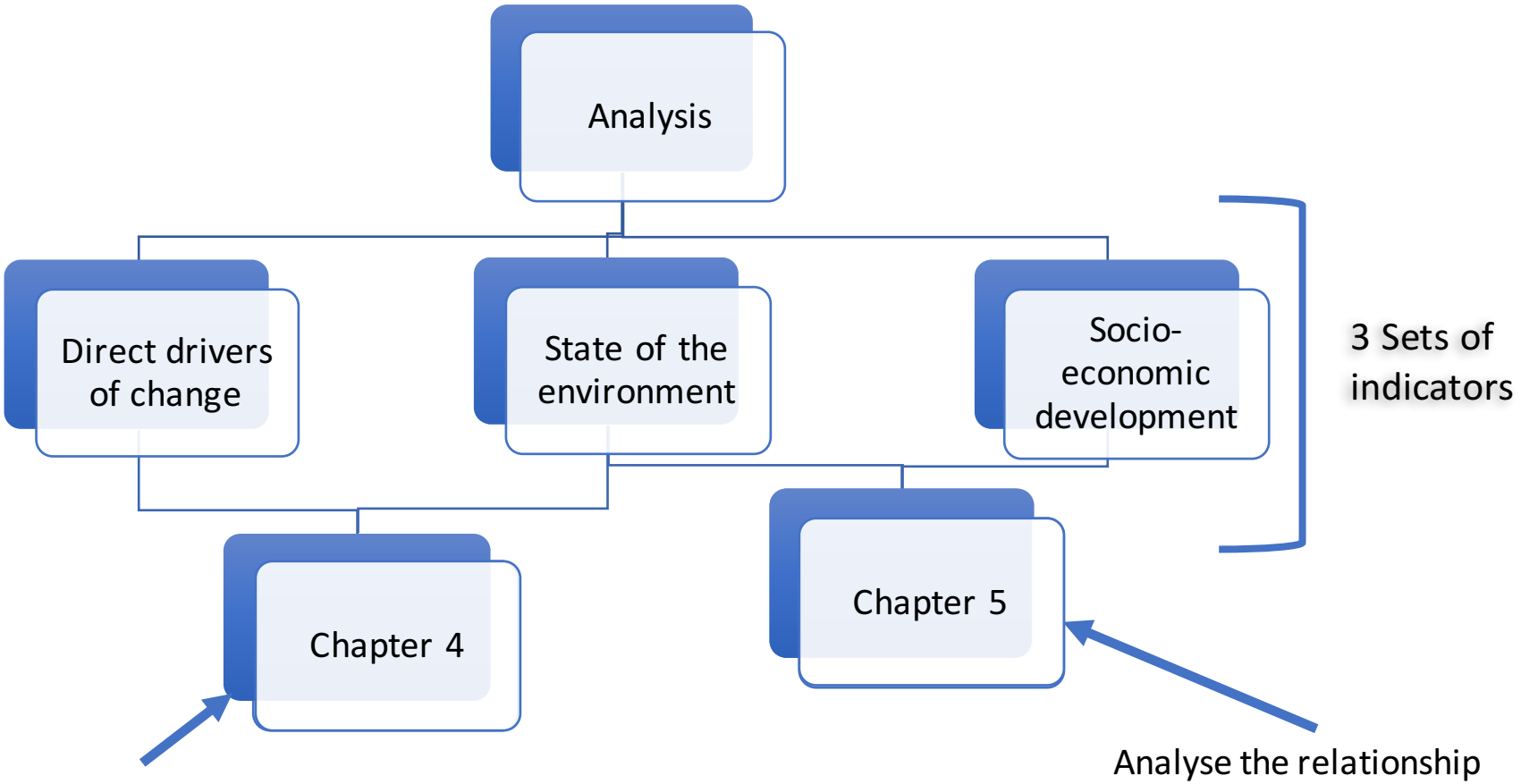
UNEP

Regional Offices

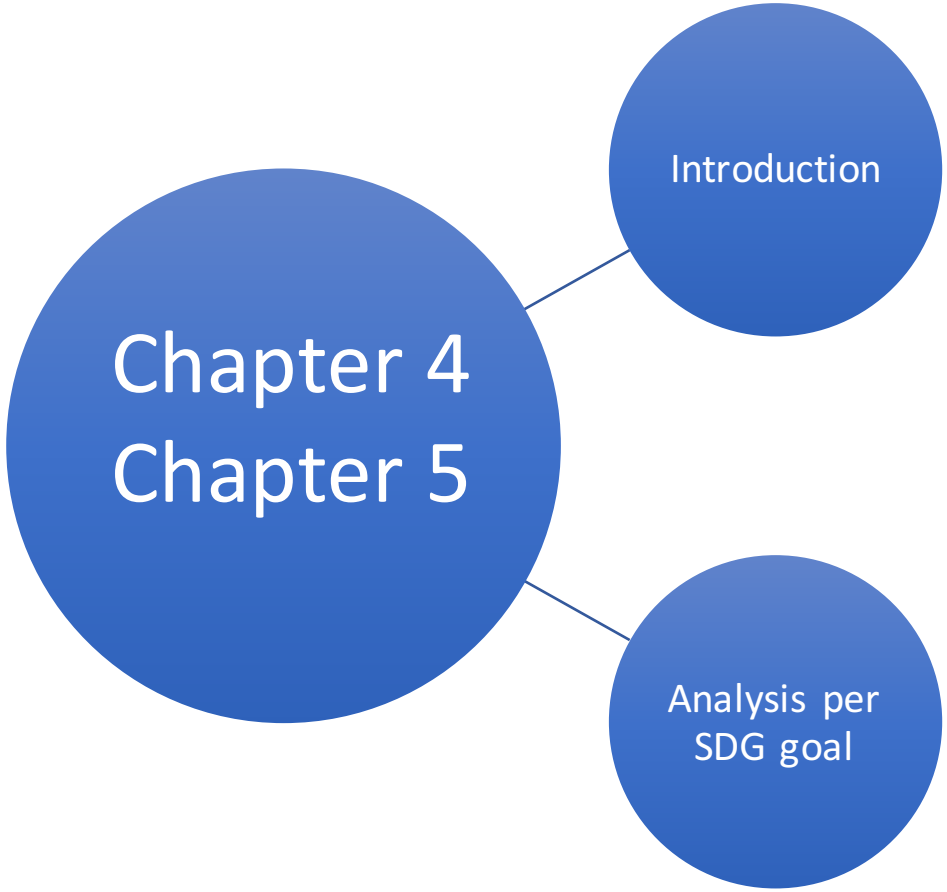
Drafting Guidelines: Chapters 4 and 5- Analysis section



Drafting Guidelines: Analysis section

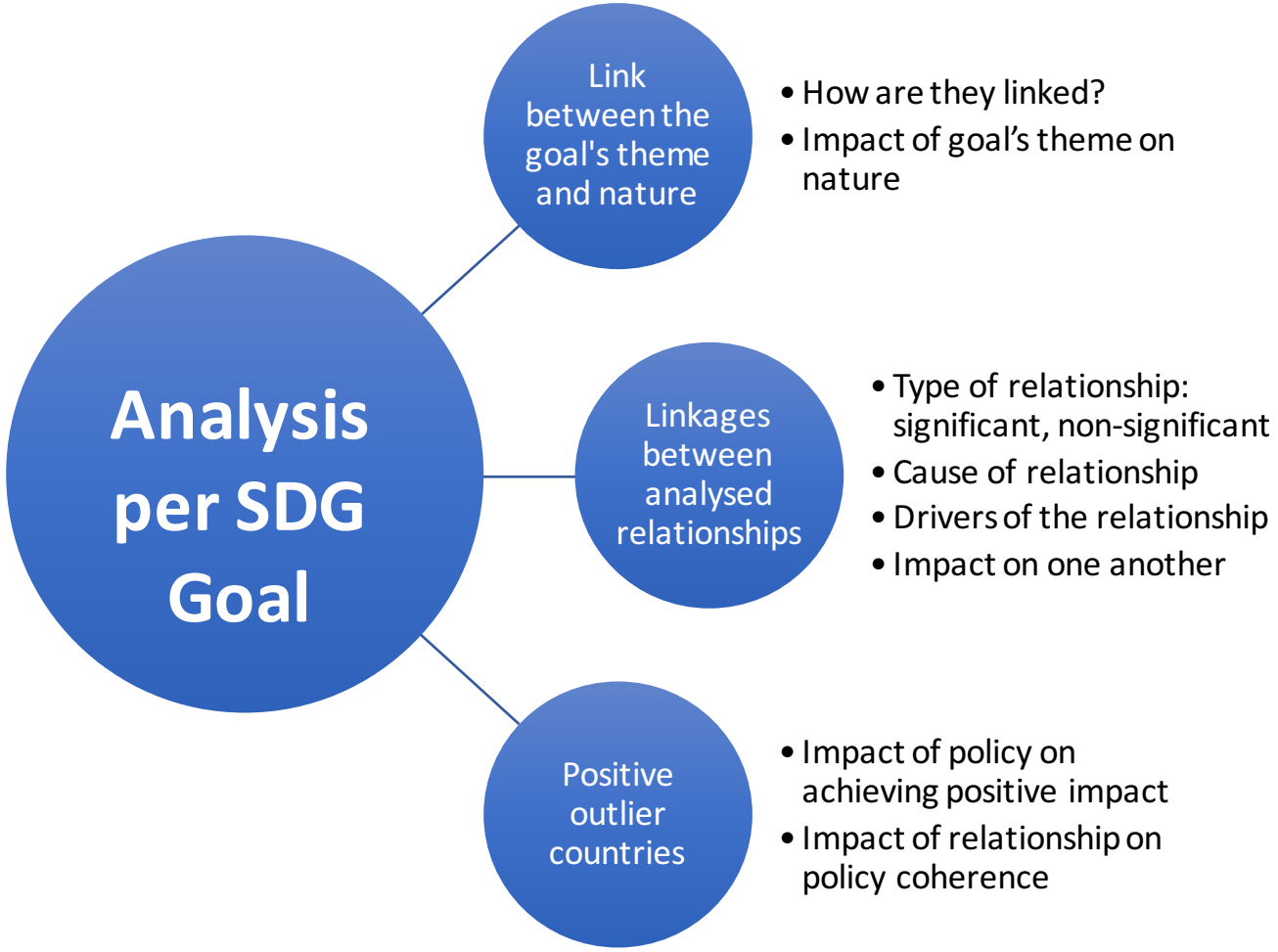


Drafting Guidelines: Chapters 4 and 5- Analysis section



- Identifying the link between nature-related SDG indicators and direct drivers of change or socio-economic development

Drafting Guidelines: Chapters 4 and 5- Analysis section



Experts Contributions- Chapter 4

Goals to analyse

- Goal 2: Secure genetic resources for food:
  - 2.5.1 Secure genetic resources for food
- Goal 6: water efficiency, stress, investment and local water management
  - 6.4.1 Water efficiency
  - 6.4.2 Water stress
  - 6.a.1 Investment in water and sanitation
  - 6.b.1 Local water management
- Goal 7: Clean energy
  - 7.2.1 Clean energy consumption
- Goal 9: infrastructure support
  - 9.a.1 Infrastructure support
- Goal 11: land consumption
  - 11.3.1 Land consumption

Experts Contributions- Chapter 4

- Goal 8 and 12: domestic material consumption, action plans for sustainability, chemicals and waste, recycling
  - 8.9.1 Tourism
  - 12.1.1 Action plans for sustainability
  - 12.2.2 Domestic material consumption
  - 12.4.1 Chemicals and waste conventions
  - 12.4.2 Hazardous waste generation
  - 12.5.1 Recycling rate
- Goal 14: Marine protected area
  - 14.5.1 Marine protected areas
- Goal 15: protection of key and mountain biodiversity areas, sustainable forest management, invasive alien species
  - 15.1.2 Protection of key biodiversity areas
  - 15.2.1 Sustainable forest management
  - 15.4.1 Mountain protected areas
  - 15.8.1 Invasive alien species

Experts Contributions- Chapter 4*

Goal number	Name of expert
Goal 2: secure genetic resources for food	Stockholm Environment Institute team
Goal 6: water efficiency, stress, investment and local water management	Chinese Academy of Sciences team Ruth Onkangi Jillian Campbell (UNEP CBD)
Goal 7: clean energy	Ruth Onkangi Noelle Kumpel (Birdlife International)
Goal 9: infrastructure support	International Labour Organization team Ruth Onkangi Noelle Kumpel (Birdlife International)
Goal 8 and 12: tourism, plans for sustainability, chemicals, waste and hazardous waste, recycling	International Labour Organization team Noelle Kumpel (Birdlife International)

* Please note that contributions to the sections are on personal basis only. The institutional naming in this table is based on the fact that several experts work in the same institute and decision on the expert name would be made in the near future.

Experts Contributions- Chapter 4*

Goal number	Name of expert
Goal 14: Marine protected area	Adrien Comte (CIRED) Jillian Campbell (UNEP CBD) Noelle Kumpel (Birdlife International) Hilary Allison (UNEP-WCMC)
Goal 15: protection of key and mountain biodiversity areas, sustainable forest management, invasive alien species	Thomas Brooks (IUCN) Chinese Academy of Sciences team International Institute for Applied Systems Analysis team Jillian Campbell (UNEP CBD) Noelle Kumpel (Birdlife International) Hilary Allison (UNEP-WCMC)

* Please note that contributions to the sections are on personal basis only. The institutional naming in this table is based on the fact that several experts work in the same institute and decision on the expert name would be made in the near future.

Experts Contributions- Chapter 5

Goals to analyse

- Goal 2: pollution and human health, food security
  - 2.1.1 Undernourishment
  - 2.1.2 Food insecurity
  - 2.2.2 Unhealthy child weight
- Goal 4 and 6: drinking water access and school drinking water access
  - 4.a.1 Schools drinking water access
  - 6.1.1 Drinking water access
- Goal 7: clean fuel access
  - 7.1.2 Clean fuel access
- Goal 11: disaster vulnerability
  - 11.5.1 Disasters: human impact
  - 11.5.2 Disasters: economic impact

Experts Contributions- Chapter 5

Goal number	Name of expert
Goal 2: pollution and human health, food security	South African Medical Research Council team Stockholm Environment Institute team
Goal 4 and 6: drinking water access and school drinking water access	South African Medical Research Council team
Goal 7: clean fuel access	South African Medical Research Council team Ruth Onkangi
Goal 11: disaster vulnerability	Xiaosong Li (Chinese Academy of Sciences) Adrien Comte (CIRED) International Labour Organisation team International Institute for Applied Systems Analysis team Bob Chen (Columbia University)

* Please note that contributions to the sections are on personal basis only. The institutional naming in this table is based on the fact that several experts work in the same institute and decision on the expert name would be made in the near future.

Experts Contributions

Chapter 6: Case studies (Kenya and Vietnam)

- Introduction
- Statistical summary of the nature-related SDG indicators
- Overview of biodiversity indicators and achieving sustainability
- Overview of socio-economic indicators and achieving sustainability
- Opportunities for success
- Challenges faced
- Lessons learnt

Experts:

Carolina Soto-Navarro
Maurice Otieno
Jinhua Zhang
Adrien Comte (New Caledonia)
Abdelmenam Mohamed

Experts Contributions

Chapter 7: Data gaps and opportunities

- Introduction
- Measured vs. non-measured aspects of nature needed to understand the current global situation
- Identification of gaps and how to address them
- Identification of gaps in the SDG indicators for the state of environment and socio-economic development
- Opportunities to fill the gaps with additional indicators
- Conclusion

Experts:

IIASA team
Bob Chen
Myriam Linster
Jillian Campbell
Xiaosong Li
Noelle Kumpel

Experts Contributions

Chapter 8: Conclusions and Recommendations

- How to upscale positive examples
- How to upscale positive examples for climate change vulnerable countries
- Role of sustainability policies and policy coherence to reach sustainability; why policies work in some places and not others
- How to better measure sustainability in people's language
- Getting the world on track toward sustainability

Contribution from all lead authors?

Sections Draft Reviewer

- Review and comment on the accuracy and completeness of the scientific/policy/socio-economic content and balance of drafted chapters

Experts:

Hilary Allison
UNEP RO

Proposed timeline

Thank you

Therese El Gemayel, UN Environment