



Climate Change and Land – Context and Framing

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Climate Change and Land

An IPCC Special Report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems

Summary for Policymakers



WG I WG II WG III



You could say
that this report
is about

“my landscape”

“my farm”

and

“my food”.

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Special Report Outline

Agreed at 45th session of the IPCC in Guadalajara, Mexico (March 2017)

Summary for Policy Makers **Technical Summary**

- Chapter 1:** Framing and Context
- Chapter 2:** Land-Climate Interactions
- Chapter 3:** Desertification
- Chapter 4:** Land Degradation
- Chapter 5:** Food Security
- Chapter 6:** Interlinkages between desertification, land degradation, food security and GHG fluxes: Synergies, trade-offs and Integrated Response Options
- Chapter 7:** Risk management and decision making in relation to sustainable development

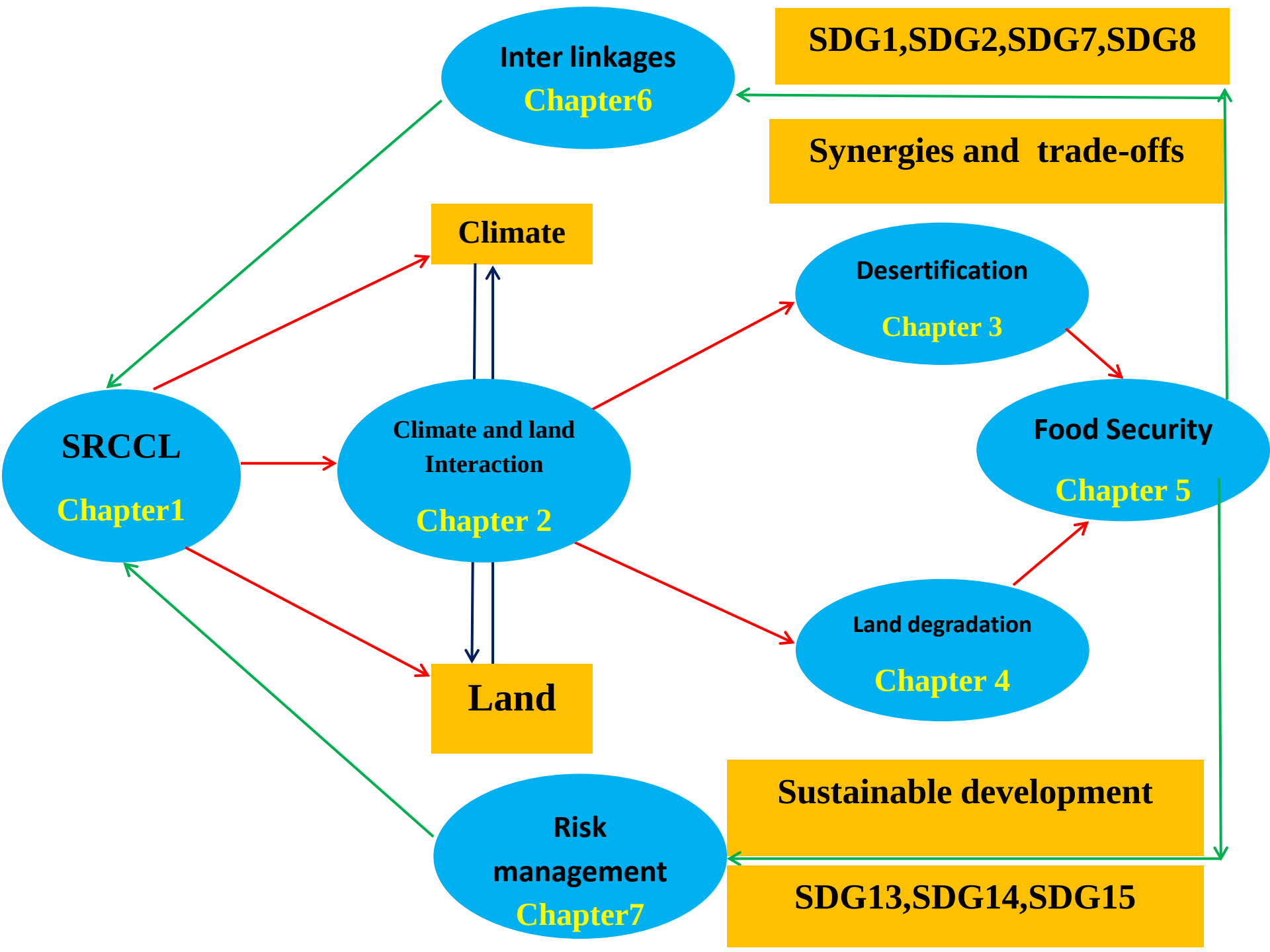
Boxes, Case Studies and FAQs

Chapter 1: Framing and Context

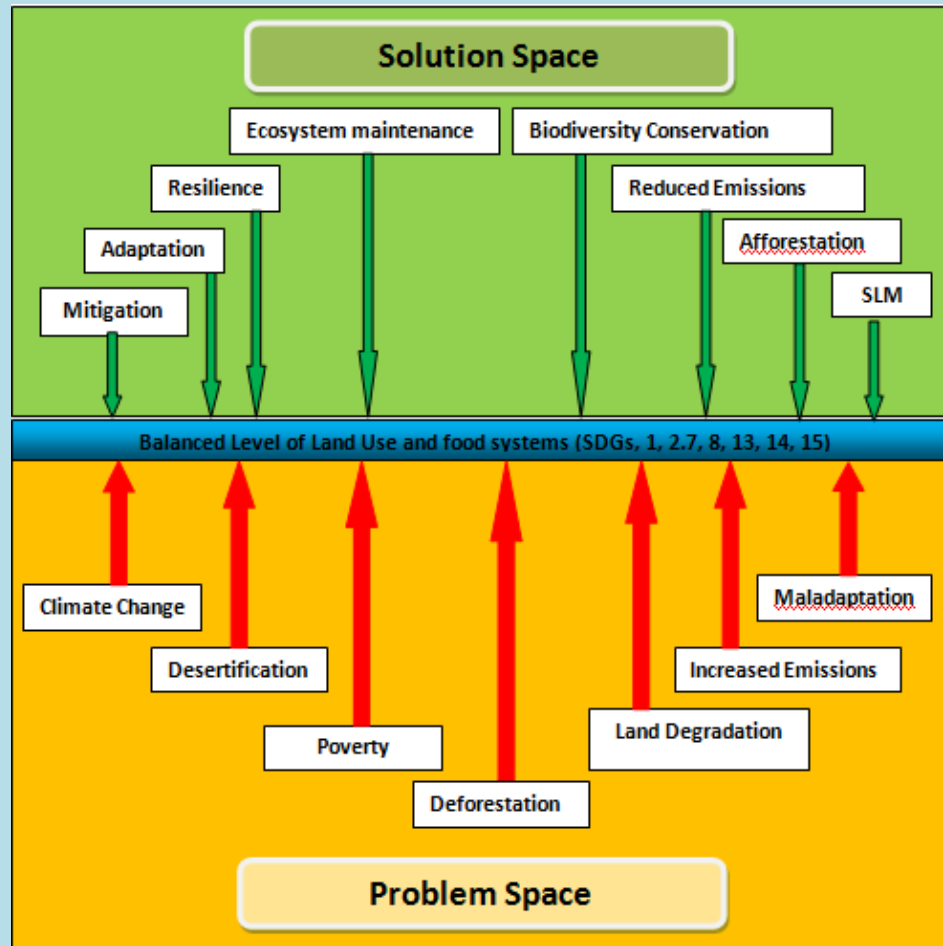
- **Socio-economic, biogeochemical, and biophysical interactions** between climate change and desertification, land degradation, food security and GHG fluxes
- Additional and alternative demands for, and use of, land in the context of climate change, as well as **socioeconomic and technological changes**.
- **The contribution of this report in relation to reports** by IPCC and other relevant institutions (for instance IPBES, UNCCD, FAO, etc.)
- **Key concepts and definitions** including vulnerability assessments, adaptation limits, and residual risks
- **Treatment of uncertainties**
- **Integrated storyline of report, chapter narrative, sequence, linkages**

Sustainable development





Planetary Boundary



GHG Fluxes

What is new in SRCCL

Compared to these previous IPCC reports, the SRCCL offers a more integrated analysis as it embraces multiple direct and indirect drivers of natural resource management.

What is new in SRCCL

The SRCCL also looks at land degradation from a human food security perspective and refers to the strong correlations between land degradation and poverty.

What is new in SRCCL

It looks at incentives related to market, institutions that can trigger positive impacts between climate change, food access and biophysical drivers.

What is new in SRCCL

The SRCCL offers a more integrated analysis including multiple direct and indirect drivers of natural resource management (related to food, water and energy securities).

Main Message

- In the past 50 years, global per capita food consumption increased by one fifth, consumption of dairy products and vegetable oils has almost doubled, meat consumption has almost tripled, and wood harvest has increased by one third.

Main Message

Land productivity can be enhanced sustainably in several ways:

- promotion of crop genetic diversity,
- the preservation and protection of pollination services under climate change,
- soil management conservation agriculture.

Main Message

- Large differences between world regions in food production, degree of desertification and degradation, and recovery from past over-use.
- More emphasize on bio-energy/renewable energy

Main Message



There are solutions in the hands of farmers. But there are also solutions in the hands of each of us, when we buy food, and don't waste food.

Valérie Masson-Delmotte
Co-Chair of IPCC Working Group I
Geneva, 2019

#SRCCL

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Main Message



Limiting global warming to 1.5 or even 2 degrees will involve removing carbon dioxide from the atmosphere, and land has a critical role to play in its removal.

Jim Skea

Co-Chair of IPCC Working Group III

Geneva, 2019

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Main Message



Food security will be increasingly affected by future climate change through yield declines – especially in the tropics – increased prices, reduced nutrient quality, and supply chain disruptions.

Priyadarshi Shukla
Co-Chair of IPCC Working Group III
Geneva, 2019

#SRCCL

Main Message



We are best places to tackle climate change in a world with an overall focus on sustainability.

Hans-Otto Pörtner
Co-Chair of IPCC Working Group II
Geneva, 2019

#SRCCL

Main Message



Climate change will exacerbate warming trends that already exist in cities.

Debra Roberts
Co-Chair of IPCC Working Group II
Geneva, 2019

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The [UNCCD](#) welcomes the [IPCC](#)'s Special Report on [ClimateChange](#) and [Land](#). Sustainable Land Management is one of the best responses to the climate crisis.

“When the ministers meet for COP14 in September, I expect the IPCC report on climate and land released today to have a strong influence, not only on the policy decisions Parties will debate, but on the will to take them home for appropriate action in each country.”

#SRCCL #IPCC

Ibrahim Thiaw
Executive Secretary
UNCCD

THANK YOU FOR YOUR ATTENTION!

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IPCC Secretariat: ipcc-sec@wmo.int

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