

Koko Warner

- Lead Author for IPCC's 5th Assessment Report, Working Group 2 on Adaptation (chapter 20). She researches risk management strategies of the poor in adapting to changing environmental and climatic conditions.
- At the United Nations University, Ms Warner is responsible for adaptation research related to environmentally induced migration and climate risk insurance. She heads the UNU-EHS Section on Environmental Migration, Social Vulnerability and Adaptation.



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Capacity Building to enhance

**Climate Resilient Pathways to
Sustainable Development**
(IPCC AR5 WG2 Ch. 20)

Dr. Koko Warner

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UNU-EHS

The most important thing to know:



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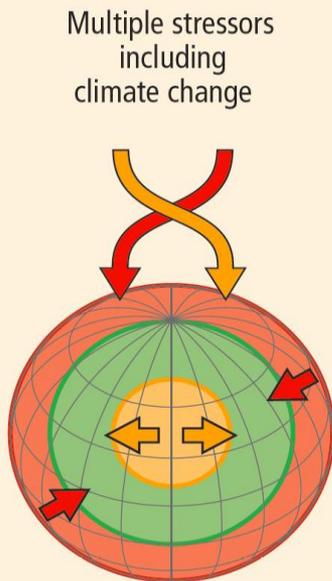
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Climate change poses a moderate threat to current sustainable development and a severe threat to future sustainable development.

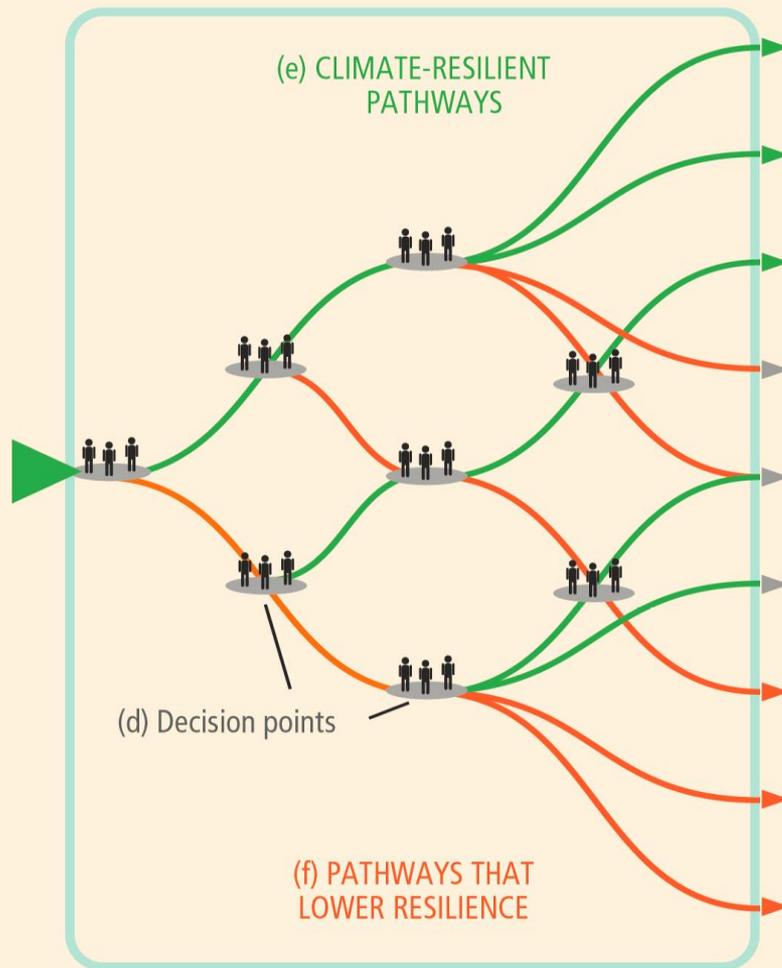
(high confidence; high agreement, medium evidence).

(a) Our world

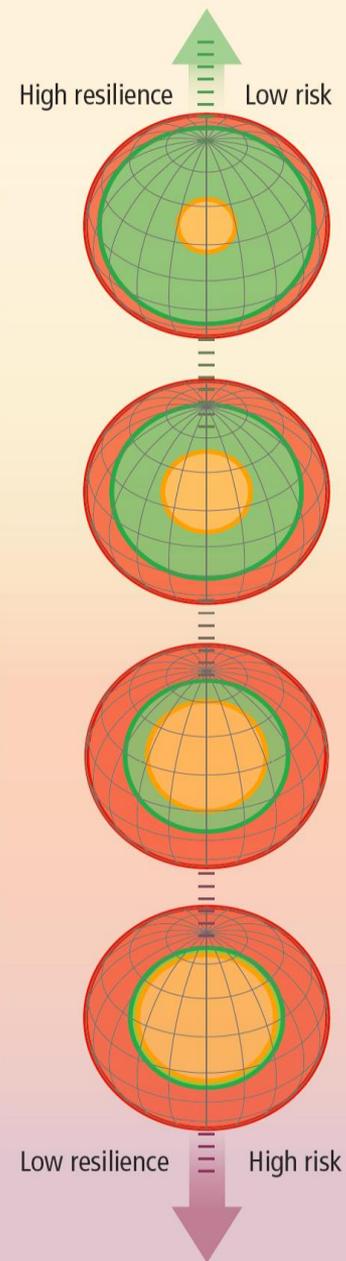


- Biophysical stressors
- Resilience space
- Social stressors

(b) Opportunity space



(c) Possible futures



Key messages about climate resilient pathways (Ch. 20)



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- 1. Climate change poses a moderate threat to current sustainable development and a severe threat to future sustainable development. (*high confidence; high agreement, medium evidence*).**
- 2. Climate-resilient pathways include strategies, choices and actions that reduce climate change and its impacts. They also include actions to assure that effective risk management and adaptation can be implemented and sustained. (*high confidence; high agreement, medium evidence*).**
- 3. The integration of adaptation and mitigation responses can in some cases generate mutual benefits, as well as introduce co-benefits with development policies. (*moderately high confidence; medium high agreement, medium evidence*).**

Key messages about climate resilient pathways (Ch. 20)



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4. Prospects for climate-resilient pathways are related fundamentally to what the world accomplishes with climate change mitigation, but both mitigation and adaptation are essential for climate change risk management at all scales. (*high confidence; high agreement, medium evidence*).
5. To promote sustainable development within the context of climate change, climate-resilient pathways may involve significant transformations (*high confidence; high agreement, medium evidence*).
6. Strategies and actions can be pursued now that will move toward climate-resilient pathways while at the same time helping to improve livelihoods, social and economic well-being, and responsible environmental management (*high confidence; high agreement, medium evidence*).

Key messages about climate resilient pathways (Ch. 20)



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- 7. Delayed action in the present may reduce options for climate resilient pathways in the future (*high confidence; high agreement, medium evidence*).**
- 8. More research about the relationship between mitigation, adaptation, and sustainable development is needed, as well as research on the relationship between incremental changes and more significant transformations for sustainable development (*high confidence; high agreement, robust evidence*).**



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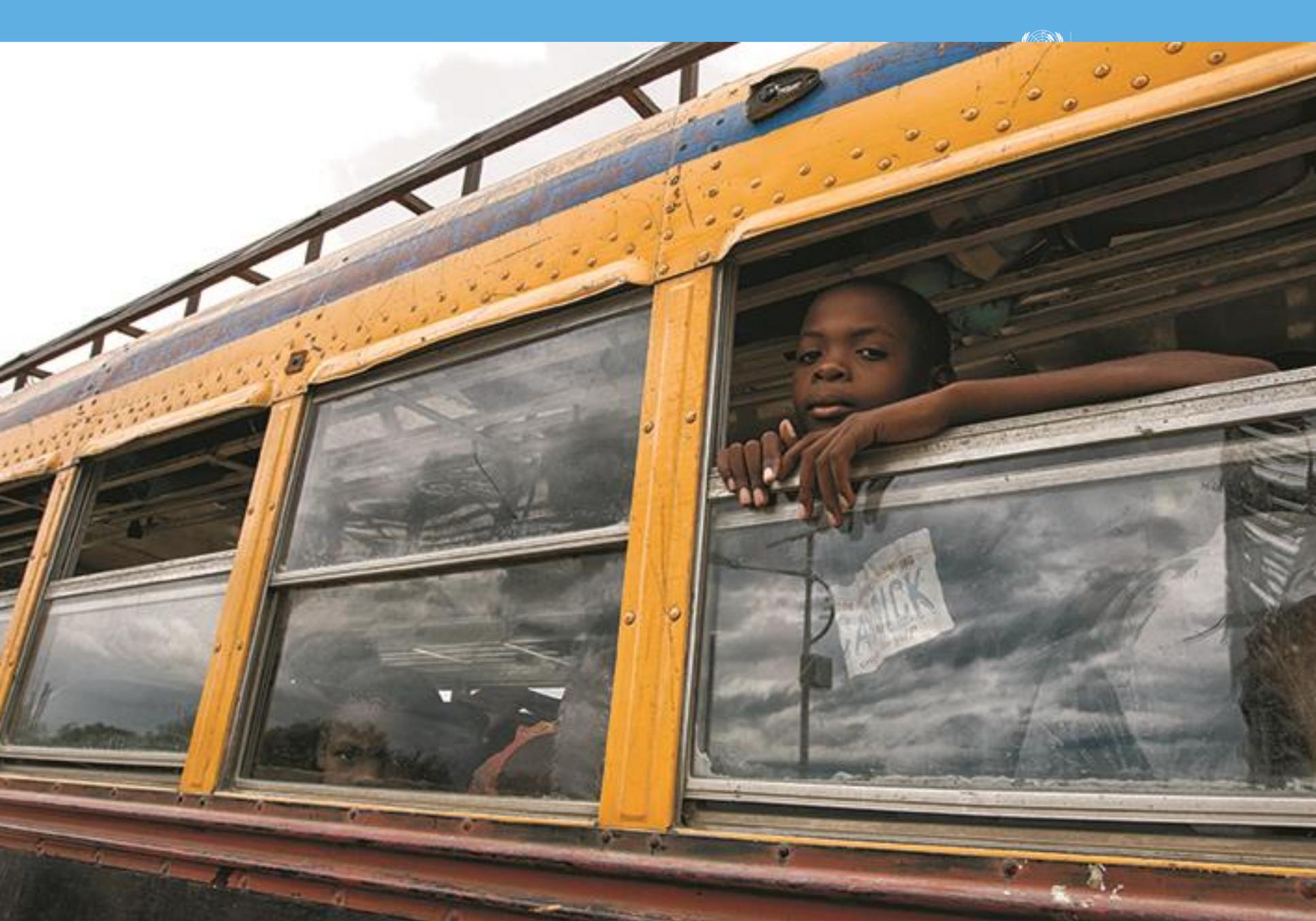
How can capacity building foster climate resilient pathways?

Awareness and capacity

- A high level of social awareness of climate change risks
- A demonstrated commitment to contribute appropriately to reducing net GHG emissions, integrated with national development strategies
- Institutional change for more effective resource management through collective action
- Human capital development to improve risk management and adaptive capacities
- Leadership for sustainability that effectively responds to complex challenges



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Thank you.



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