Global Warming of 1.5°C

An IPCC special report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty.

Climate Change Adaptation

Joy Jacqueline Pereira Vice Chair, IPCC Working Group II

Siem Reap, 27 May 2019





Climate change is **already** affecting people, ecosystems and livelihoods around the world

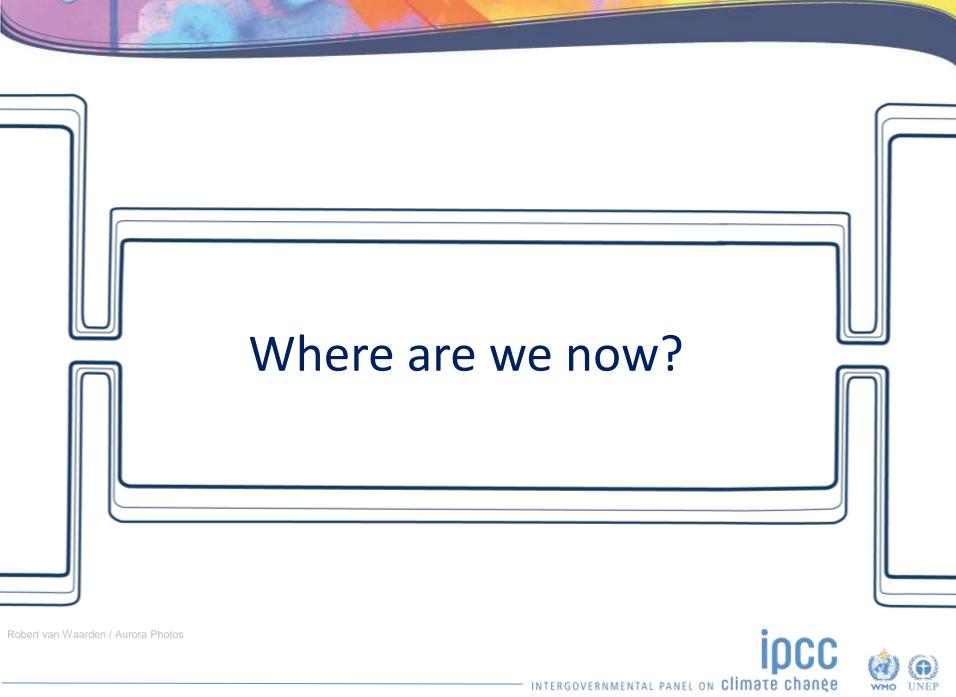
Limiting global warming to 1.5°C is not impossible, but would require unprecedented transitions in all aspects of society

There are clear benefits to keeping warming to 1.5°C rather than 2°C or higher

Limiting warming to 1.5°C can contribute to achieving other world goals













Where are we now?

Since pre-industrial times, human activities have caused approximately 1.0°C of global warming.

- At current rate, would reach 1.5°C between 2030 and 2050
- Past emissions alone do not commit the world to 1.5°C
- Already seeing consequences for people, nature and livelihoods









Where do we want to go?

At 1.5°C compared to 2°C:

- There are clear differences in climate and extremes between today, a 1.5°C and a 2°C warmer world
- Less impacts from extreme weather where people live
- By 2100, global mean sea level rise will be around 10 cm lower but will continue to rise for centuries
- 10 million fewer people exposed to risk of rising seas and less coastal ecosystems exposed

Jason Florio / Aurora Photos







Tropical Southeast Asia: projected to experience the largest impacts on economic growth

Where do we want to go?

At 1.5°C compared to 2°C:

- Smaller reductions in yields of maize, rice, wheat and sorghum
- Global population exposed to water stress is up to 50% less, also less water stress for ecosystems
- Up to several hundred million fewer people exposed to climate-related risk and susceptible to poverty by 2050
- Lower impact on biodiversity and species
 - High risk of losing 70-90% of warm water coral reefs and their services to humankind, even higher at 2°C

Andre Seale / Aurora Photo







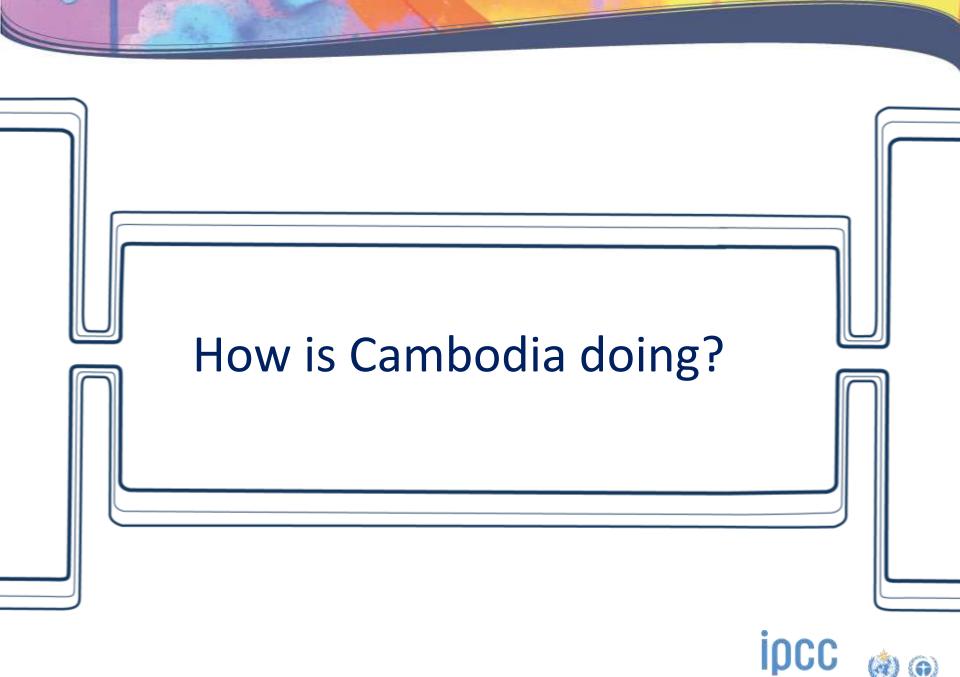
Where do we want to go?

 At 1.5 and even more so at 2°C, there is disproportionately high risk for Arctic, dryland regions, small island developing states and least developed countries

At 1.5°C compared to 2°C:

- Lower risks for health, livelihoods, food security, water supply, human security and economic growth
- A wide range of adaptation options can reduce climate risks; less adaptation needs at 1.5°C





Cambodia's Second National Communication

Submitted under the United Nations Framework Convention on Climate Change



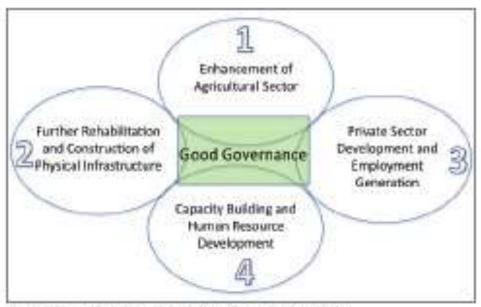


Figure 2.1: Third Rectangular Strategy (NSDP 2014-2018)



NOVEMBER 2015





Issues and Challenges



2007 Survey: 85% of respondents believed the climate was changing but only 52% knew about the term "climate change"

NC2 (2015): 10% of survey respondents in government, academia and media had a clear idea of their institutional mandate and climate change

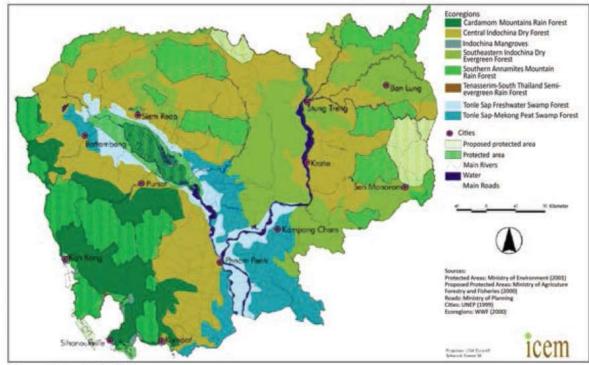
NC2 (2015): Strong call for capacity development, resources and technology transfer







Future Conditions (NC2 2015)



Coastal inundation and associated hazards due

exposed to higher risk of

drought, reduced rice

Agriculture areas

to sea level rise

transmission

Increased risk of malaria

Source: MEF and MoE 2003

Figure 2.4: Forest types of Cambodia







Every bit of warming matters

Every year matters

Every choice matters





THANK YOU FOR YOUR ATTENTION!

For more information:

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