



# IPCC Fifth Assessment Report Key messages

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**ipcc**  
INTERGOVERNMENTAL PANEL ON climate change

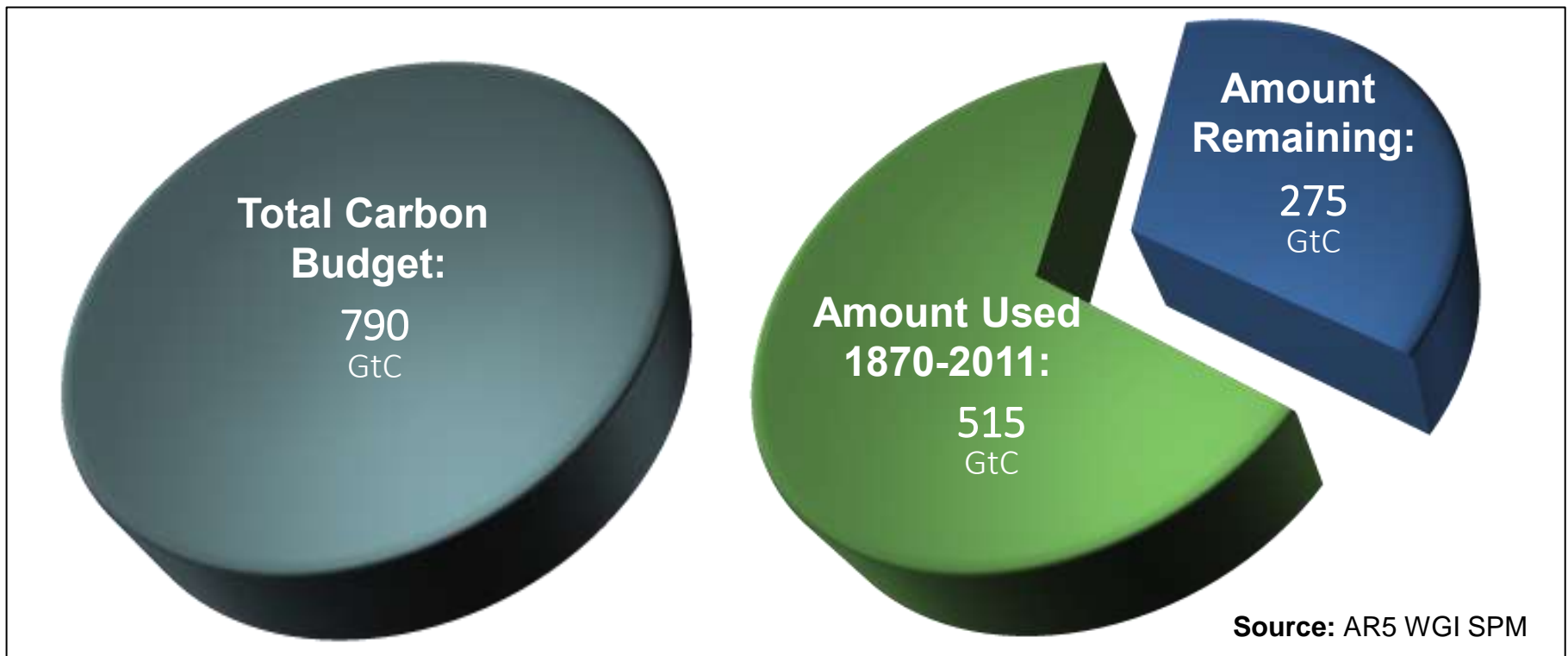


# Outline of AR5 WG-III Report

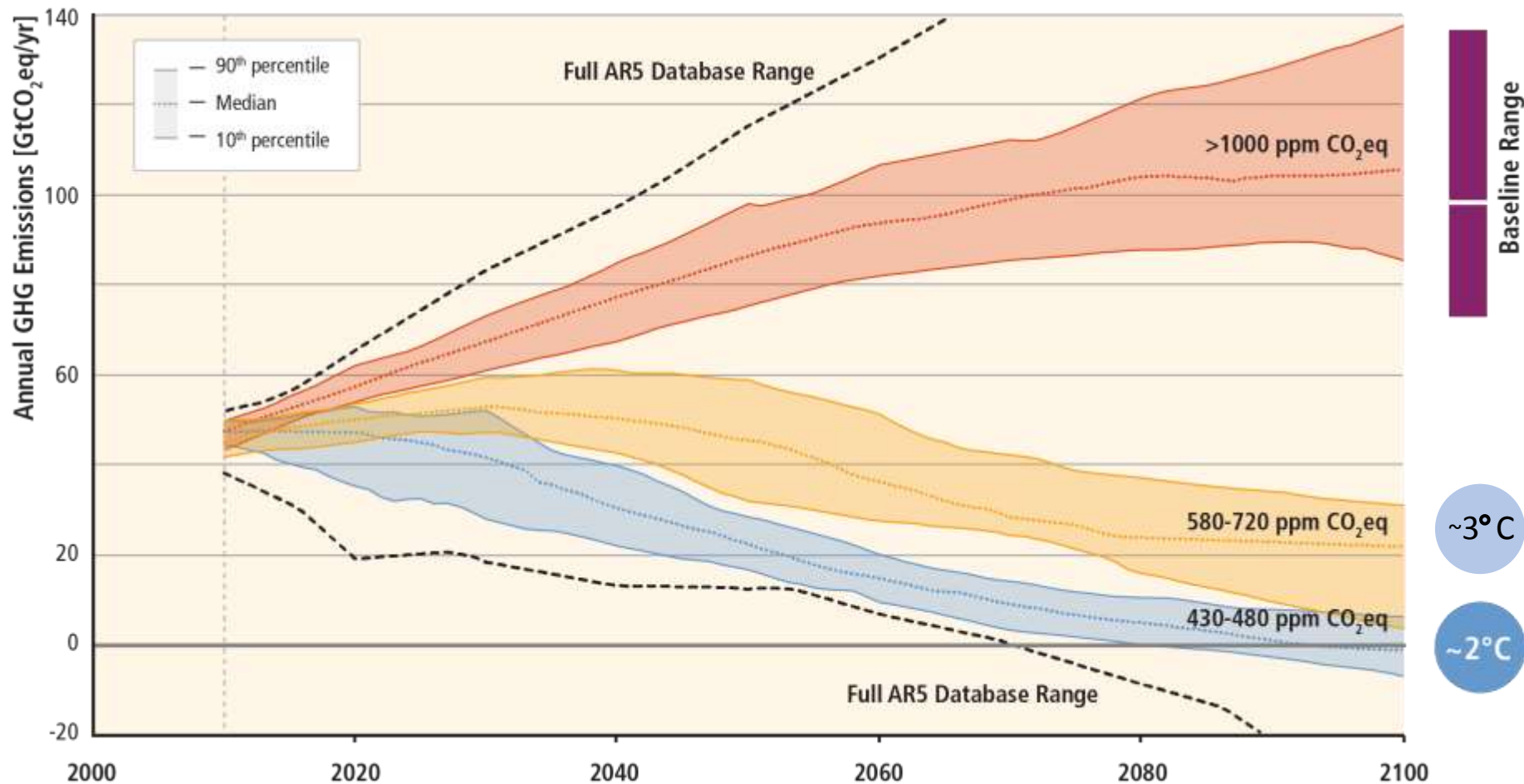
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|----------|--|-----------|---|
| <b>1</b> | <b>Introductory Chapter</b>                              | <b>10</b> | <b>Industry</b>   |
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| <b>9</b> | <b>Buildings</b>   |           |   |

# The window for action is rapidly closing

65% of our carbon budget compatible with a 2°C goal already used

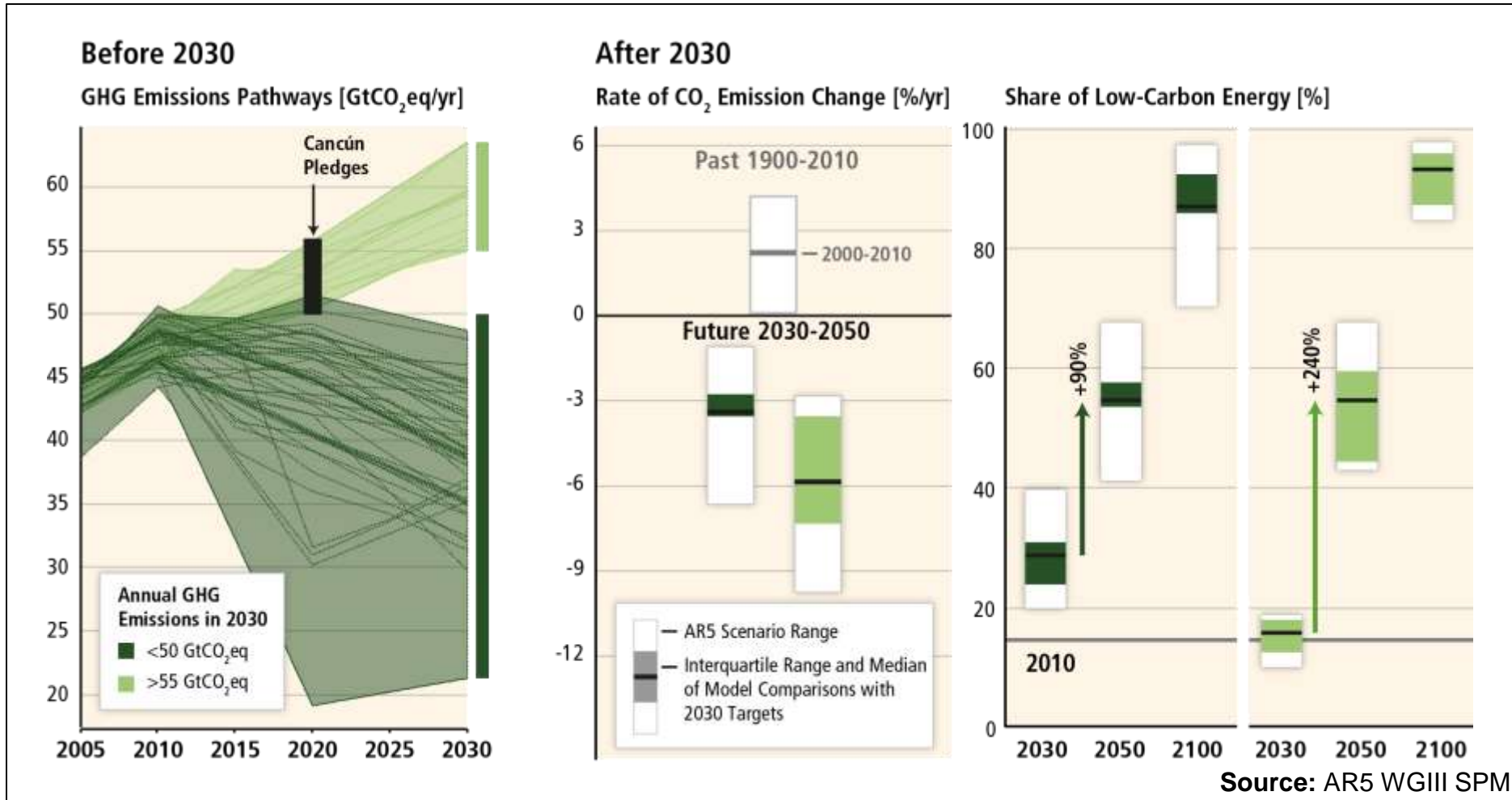


# Stabilization of atmospheric concentrations requires moving away from the baseline – regardless of the mitigation goal

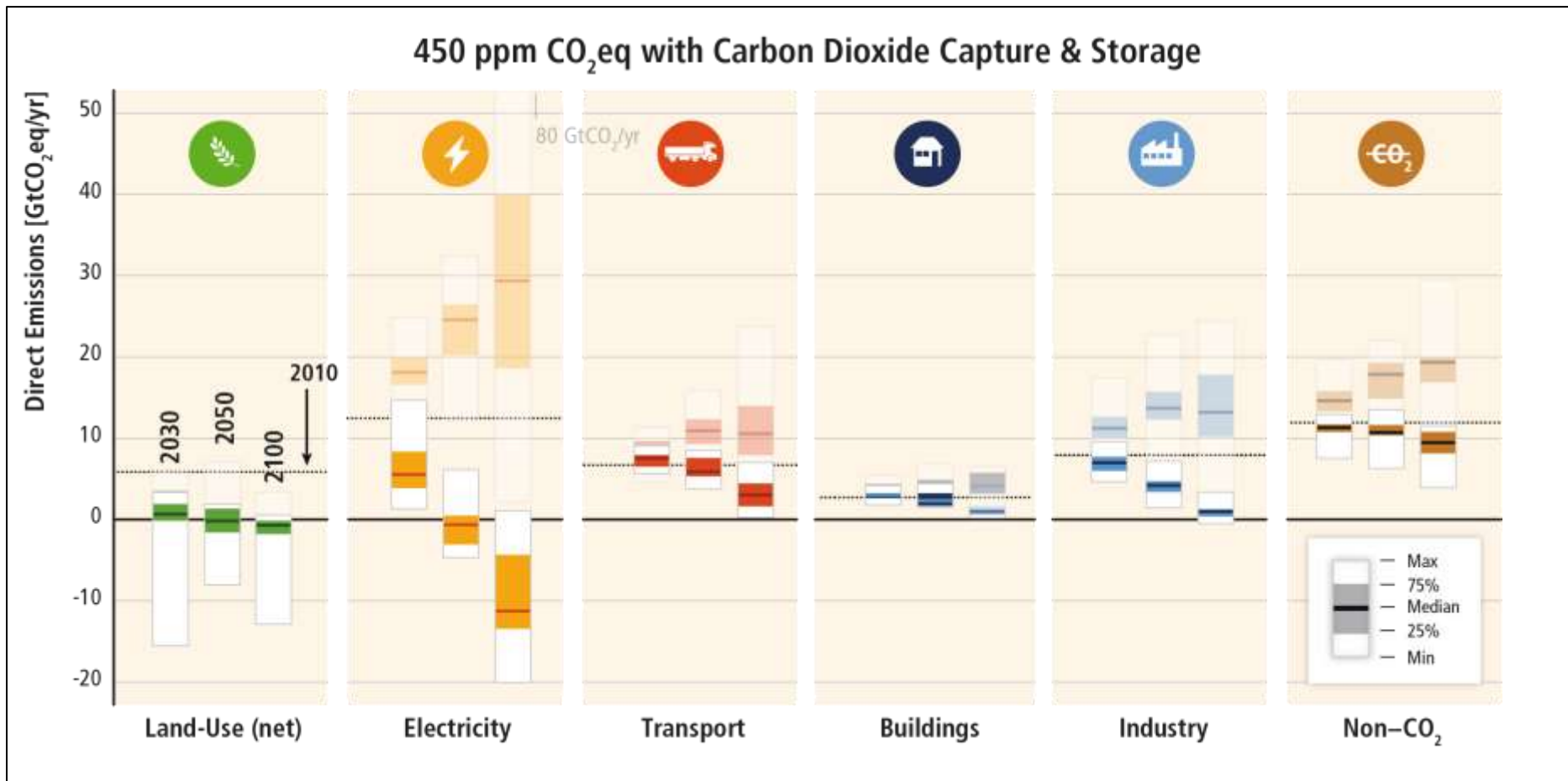


Source: AR5 WGIII SPM

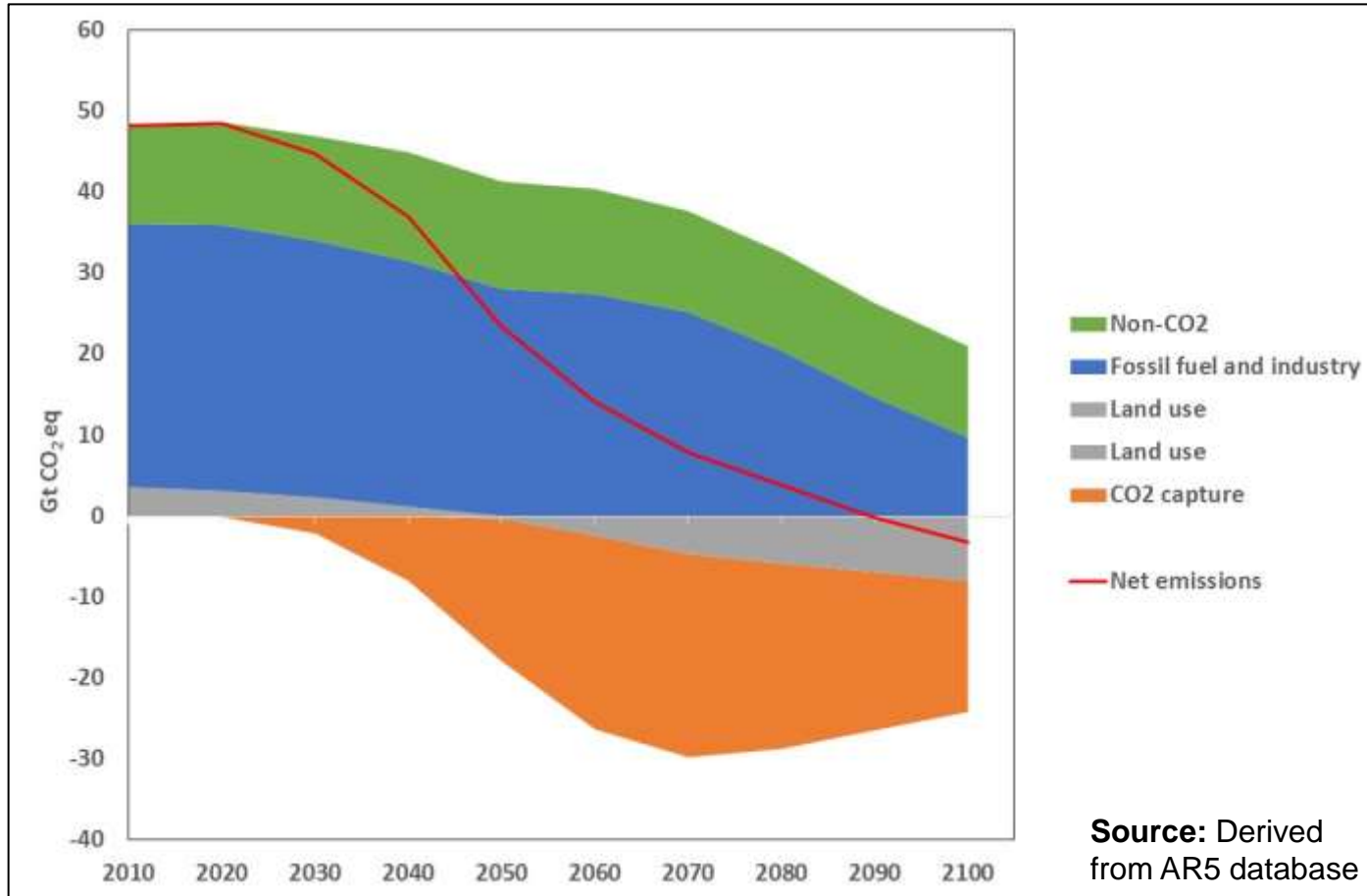
# The sooner we act, the easier and the cheaper it will be to reach a given temperature goal



# Emission patterns would need to change throughout the economy



# Balancing sinks and sources and long-term low greenhouse gas emission development strategies (Article 4)



Note: One illustrative scenario with a 65% probability of getting below 2°C warming

# Limiting Temperature Increase to 2°C



Measures exist to achieve the substantial emissions reductions required to limit likely warming to 2° C



A combination of adaptation and substantial, sustained reductions in greenhouse gas emissions can limit climate change risks



Implementing reductions in greenhouse gas emissions poses substantial technological, economic, social, and institutional challenges



But delaying mitigation will substantially increase the challenges associated with limiting warming to 2° C

Source: AR5 WGI, WGII and WGIII SPMs



# Mitigation Measures



## More efficient use of energy



## Greater use of low-carbon and no-carbon energy

- Many of these technologies exist today



## Improved carbon sinks

- Reduced deforestation and improved forest management and planting of new forests
- Bio-energy with carbon capture and storage



## Lifestyle and behavioural changes

Source: AR5 WGIII SPM

## Ambitious Mitigation Is Affordable

- Economic growth reduced by ~ 0.06% (BAU growth 1.6 - 3%)
- This translates into delayed and not forgone growth
- Estimated cost does not account for the benefits of reduced climate change
- Unmitigated climate change would create increasing risks to economic growth
- Opportunities for economic diversification

**Source:** AR5 WGI and WGII SPMs



# Thank you for your attention

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