

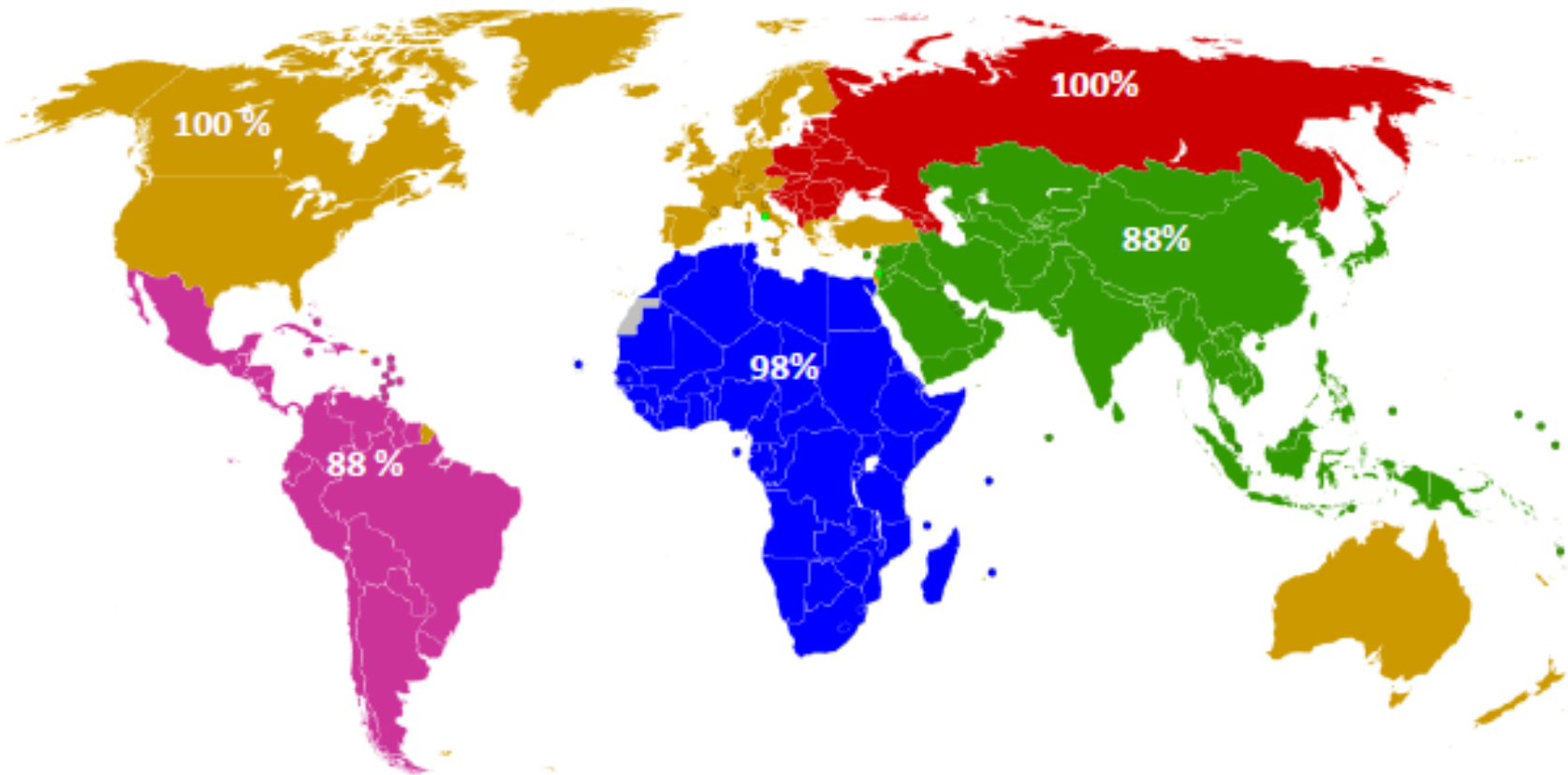
Synthesis report on the aggregate effect of INDCs



- Total INDCs received: 156
- Parties covered: 184 / 94%
- Global emissions covered: 94%



Regional participation



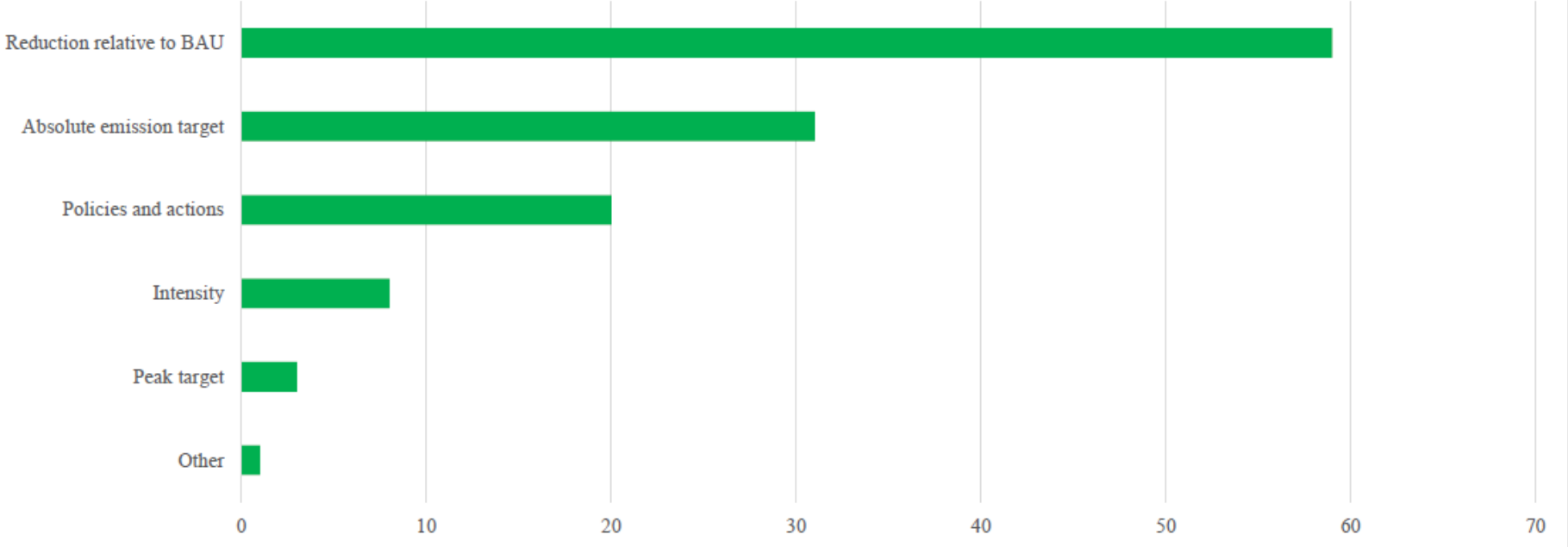
- Synthesis of information
- Global aggregate emissions in 2025 and 2030, and in relation to:
 - Past and present levels (1990, 2000 and 2010)
 - Reference case (pre 2020 action)
 - Cost optimal scenarios towards 2C
- Adaptation component
- Emerging trends



119 INDCs by 147 Parties

86 % of 2010 emissions





- Many up to 2030
- A few up to 2025.
- A few both 2025 and 2030
- A few up to 2035, 2040 or 2050,



- **General: Outcome of the ADP, efforts of others, markets and forests**
- **Some include an unconditional mitigation component alongside an enhanced conditional one**



- Comparisons with the past
- Narratives on national efforts
- References to IPCC
- Use of indicators (efficiency, energy matrix, emissions per capita or GDP)
- No conditional components
- Link to national priorities



- General statements on the need for finance, technology and capacity building
- Specific on the conditions to implement INDCs or any conditional component



- Coverage
- Assumptions and methodologies
- Planning processes



2000

2050

30%

1990

15%

BAU

10%

More than numbers

28%

50%

GtCO2

2025

2030

2010

9.8%

CO2/GDP



- Increasing **participation in and scope** of climate action
 - National in scope and quantified
- Increasing **institutional and political** processes
 - Some backed by law
 - Higher public acceptance
- Increasing interest in **cooperation**
 - Markets
 - Finance, technology and technical assistance
- Increasing **ambition** and commitment to 2C
 - Balance national circumstances with science



Synthesis report on the aggregate effect of INDCs

Methods and Effect

Side event at COP 21



1 December, 2015

Barbara Muik, UNFCCC secretariat, MDA

Methods



Estimates of global emissions in 2025 and 2030

- Party by Party calculation; country-level analysis limited to GHG emissions covered by the INDCs
- Adding:
 - Aggregate levels of emissions resulting from the implementation of the communicated INDCs in 2025 and 2030
 - Levels of emissions not covered by the INDCs in 2025 and 2030 using IPCC (pre-INDC) reference scenarios; emission growth rates of relevant countries, regions, sectors and gases



Estimates of global emissions in 2025 and 2030

- Extrapolations/interpolations for 2025/2030, when needed
- Emission level expressed as a median value with an associated range (20th to 80th percentile)
 - Ranges of effort expressed by Parties in their submissions
 - Conditions expressed by Parties in their submissions
 - Uncertainties underlying the aggregation of the INDCs



Estimates of cumulative CO₂ emissions

- Linearly estimated trajectory of GHG emissions between the last historical data point and estimated emission levels for 2020, 2025 and 2030
- Share of CO₂ emissions of total GHG emissions from the IPCC pre-INDC reference scenarios
- Summed for the cumulative emission estimate, starting after 2011
- Cumulative emissions in line with keeping global average temperature rise below 2°C from contribution of Working Group I to IPCC AR5



Estimates of global emissions 2025/2030 in relation to

- The global emission levels in 1990, 2000 and 2010
 - Contribution of Working Group III to the AR5; harmonised with 2005 emissions from the IPCC pre-INDC reference scenarios and adjusted for the different GWP values
- The global emission levels in 2025 and 2030 corresponding to pre-INDC trajectories
 - IPCC AR5 database: 22 reference scenarios under the AMPERE project; reflecting the effect from the efforts communicated by Parties for the pre-2020 period and assumed no change in climate policies thereafter until 2030



Estimates of global emissions 2025/2030 in relation to

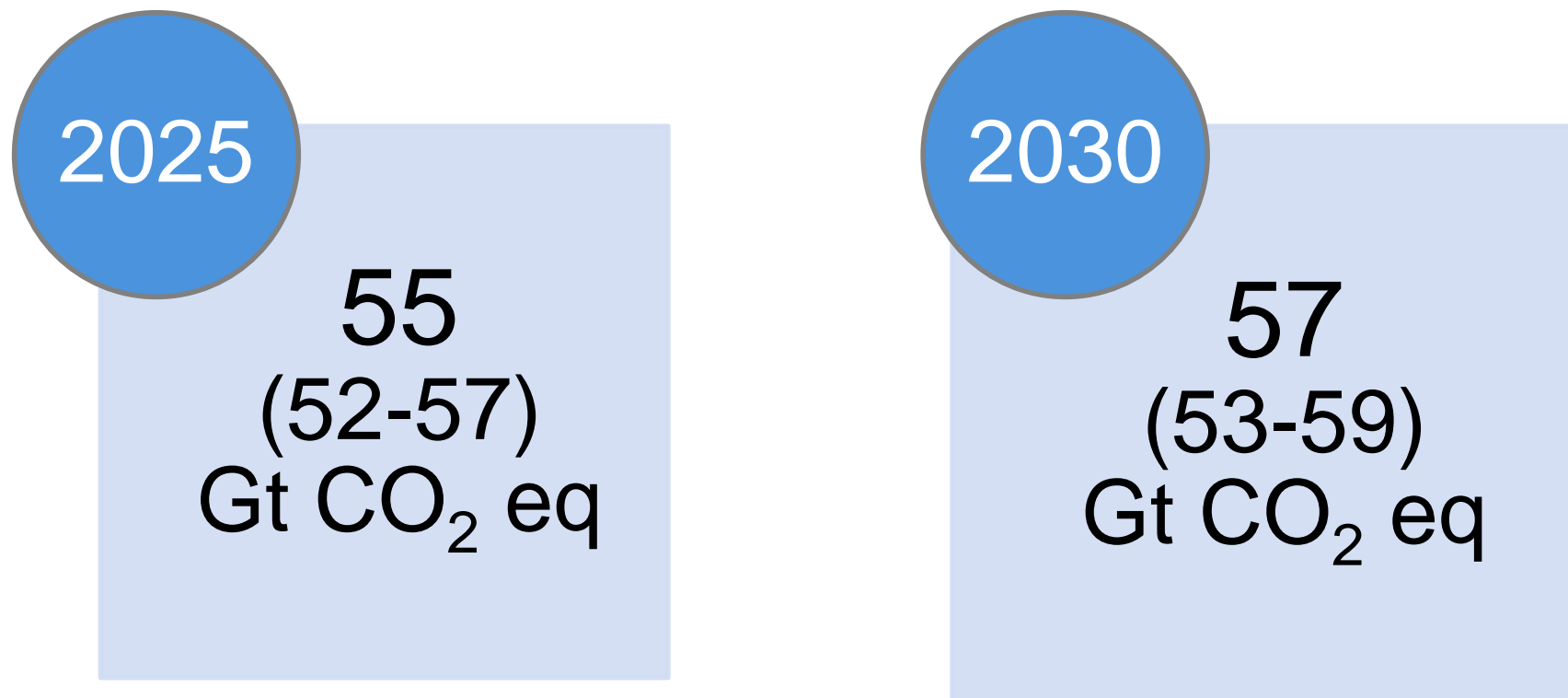
- The global emission levels in 2025 and 2030 corresponding to 2 °C scenarios
 - IPCC AR5 database: all scenarios with a 66% or higher probability of remaining below 2°C over the course of the 21st century
 - P1 policy scenarios: immediate (e.g. as of 2010) enhanced global mitigation action that is sufficient to achieve a least-cost emission trajectory over the course of the 21st century
 - P2 policy scenarios: enhanced global mitigation action as of 2020 that is sufficient to achieve a least-cost emission trajectory over the course of the 21st century



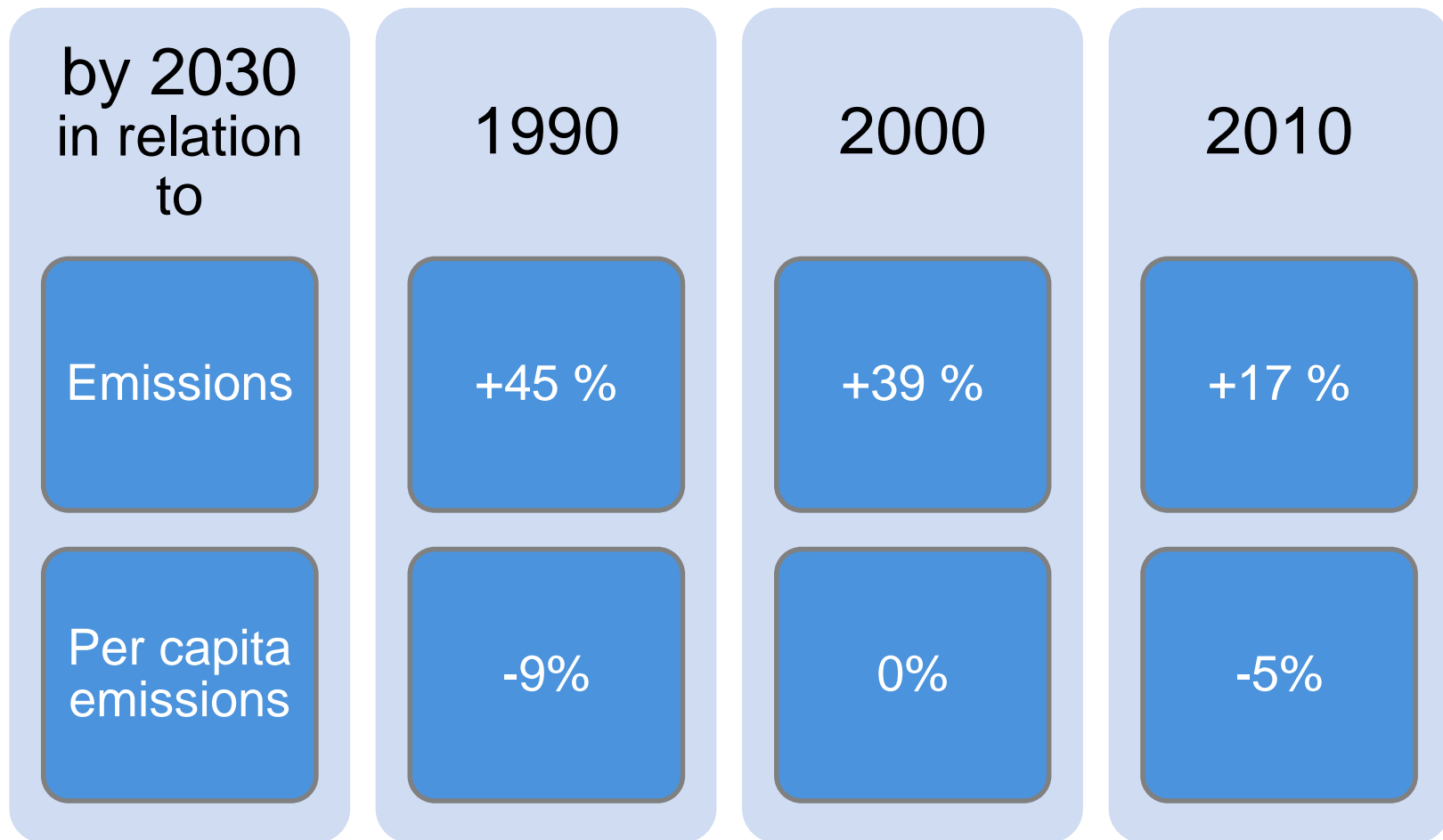
Aggregate effect



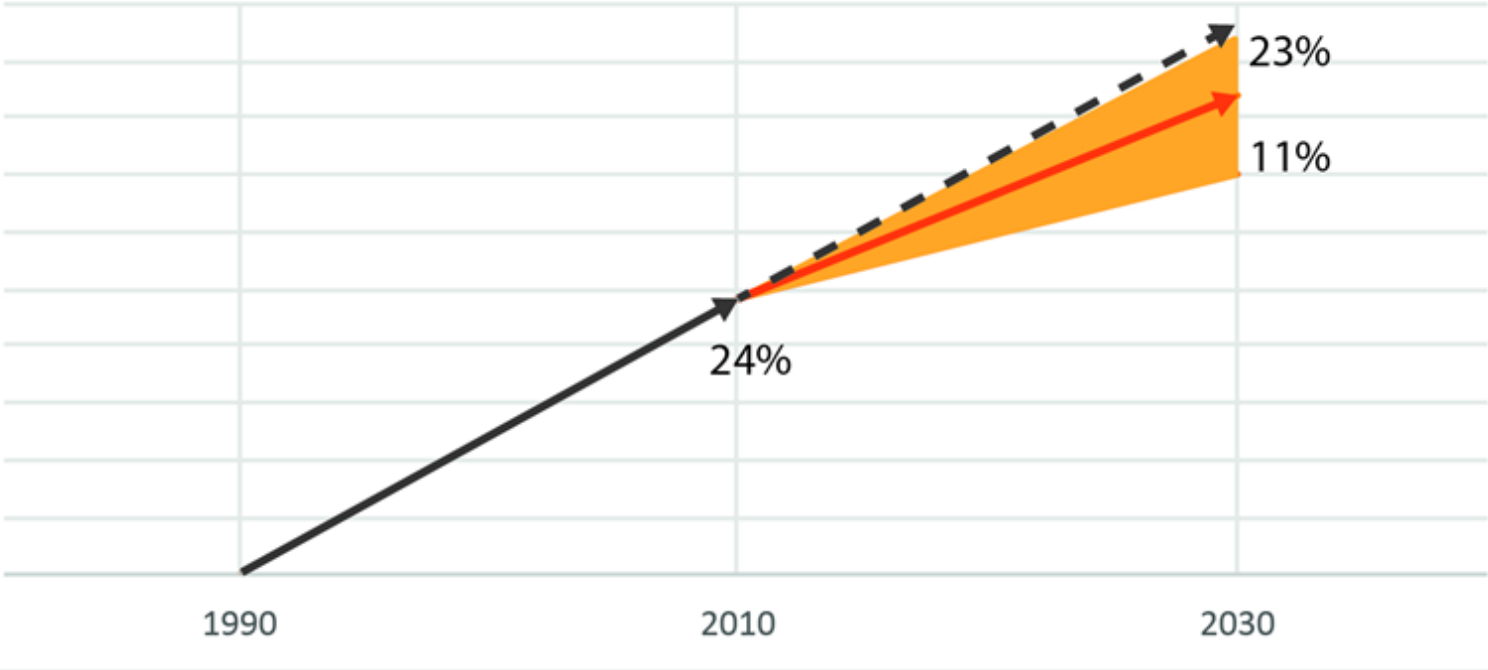
Global emissions levels



Expected change



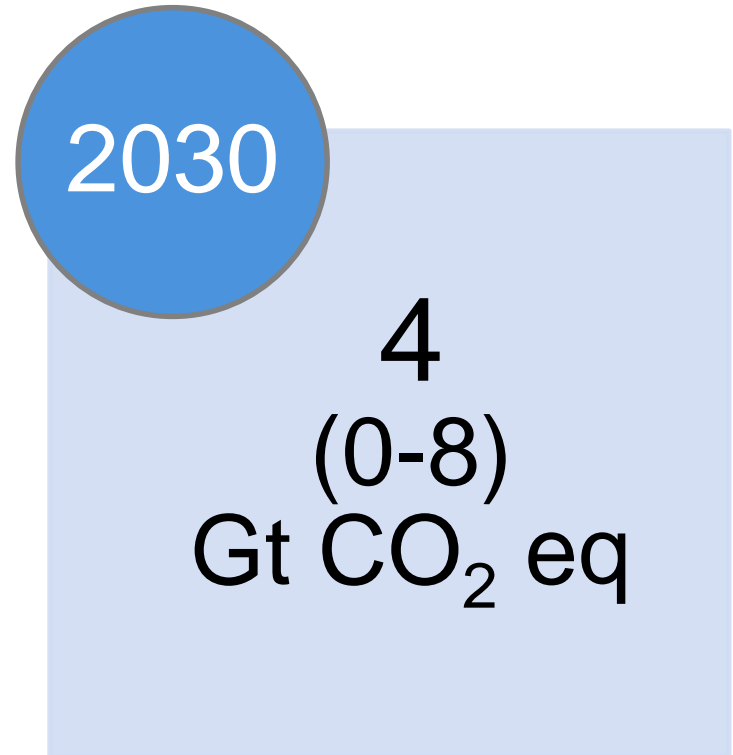
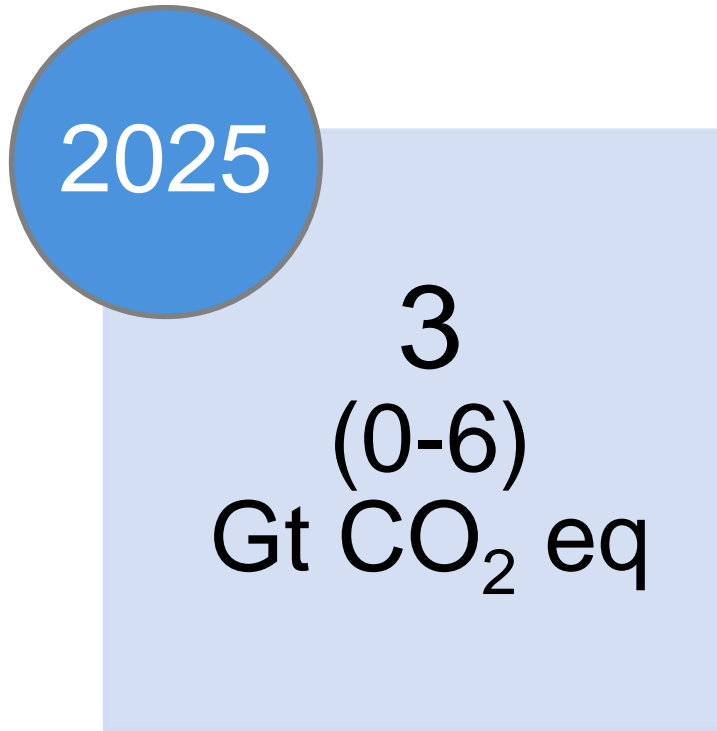
Slow down of emission growth due to INDCs



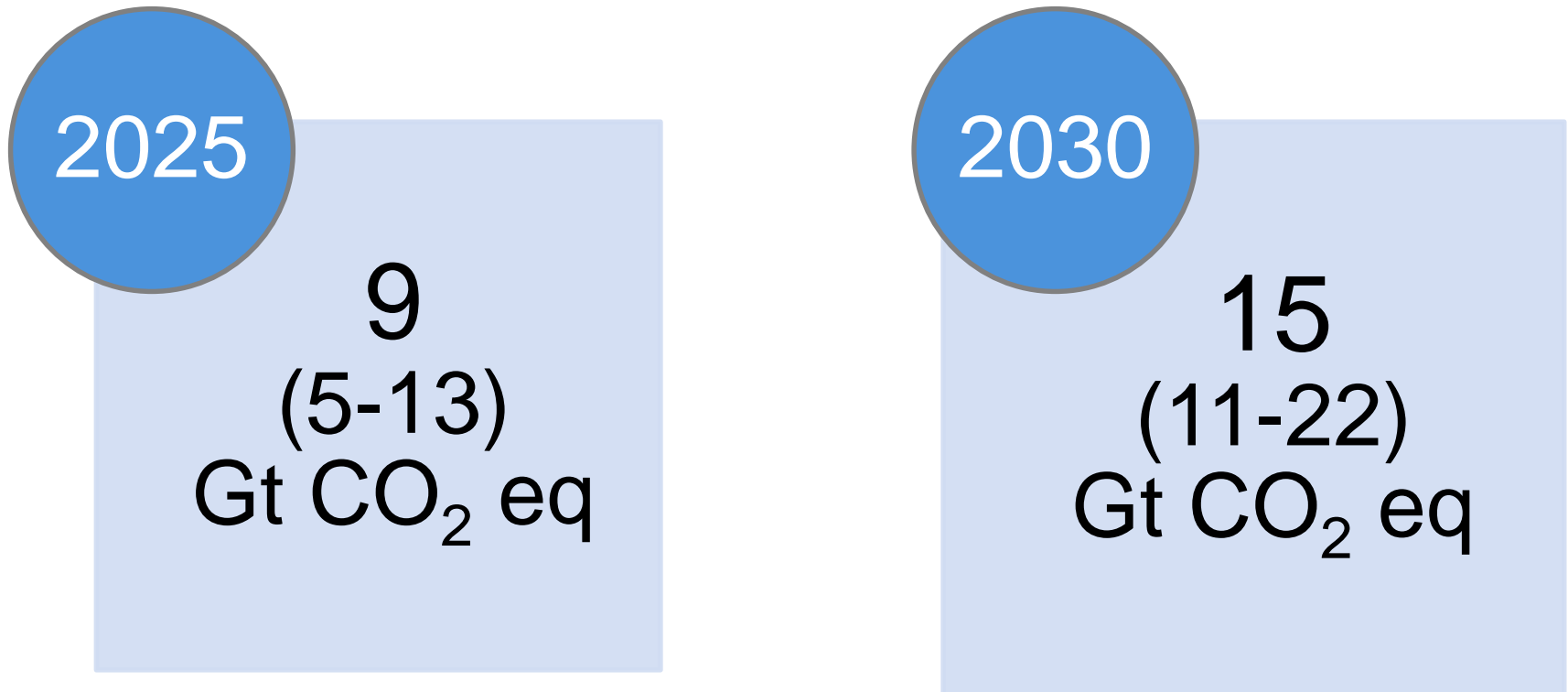
- growth rate 1990-2010
- - - extended growth rate 2010-2030
- estimated growth rate with INDCs 2010-2030 (median and range)



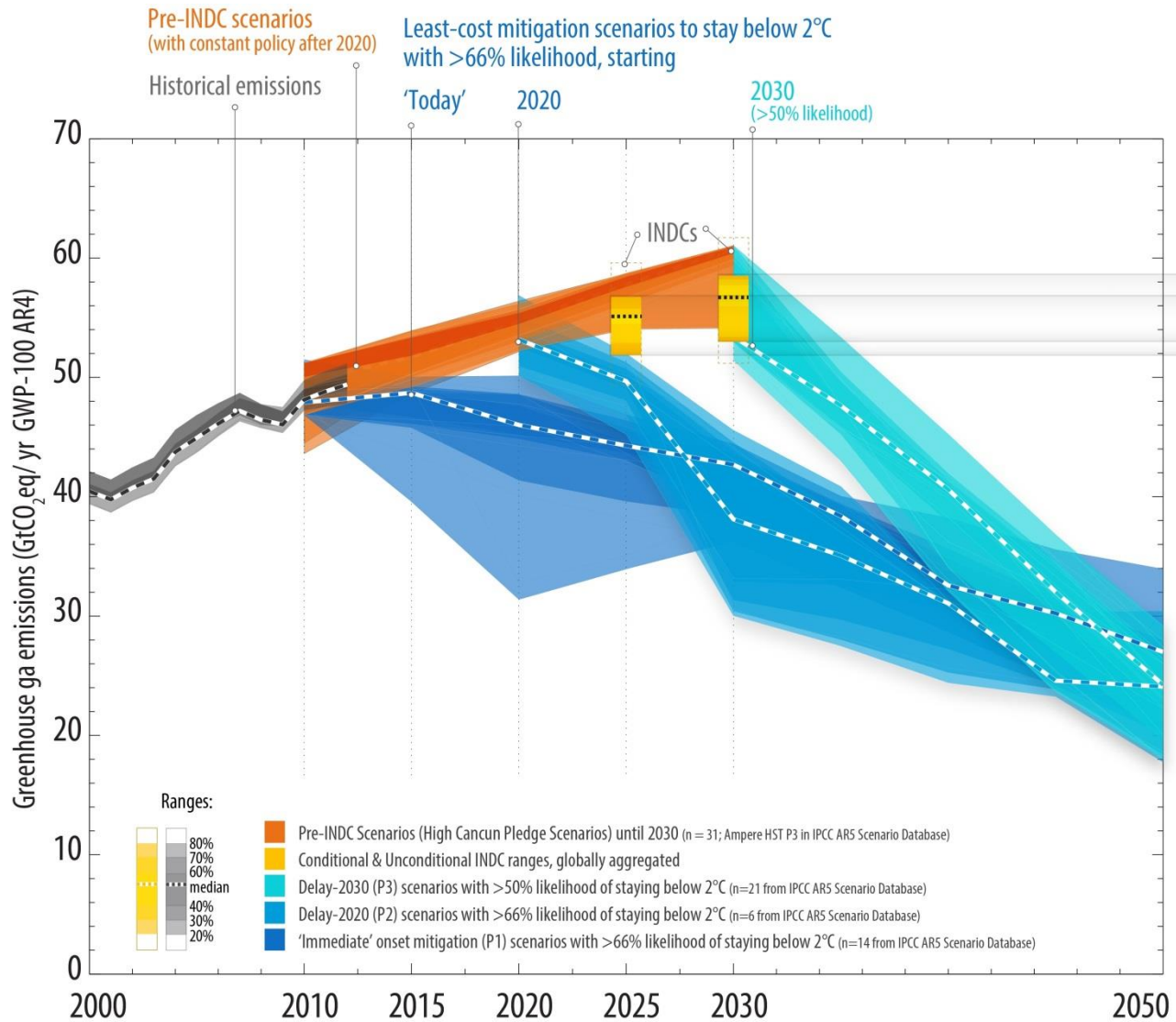
Expected gain with respect to the reference scenarios



Expected gap with respect to the 2 °C scenarios

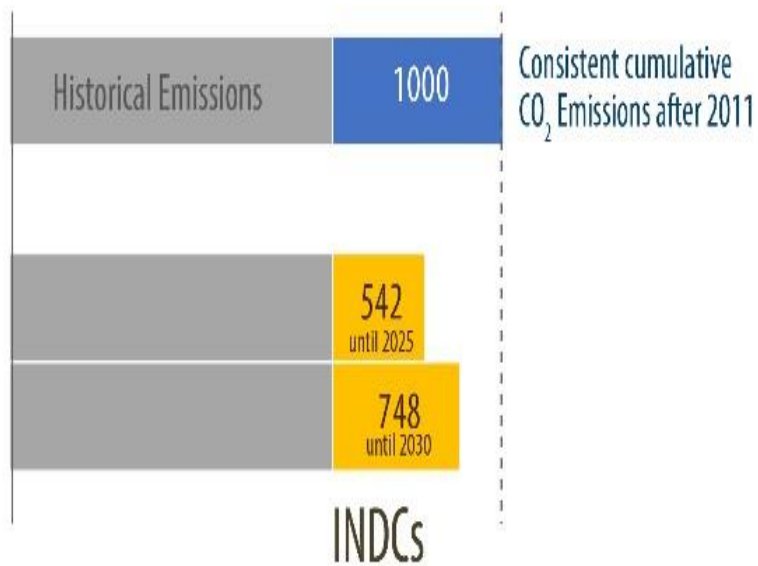


Results

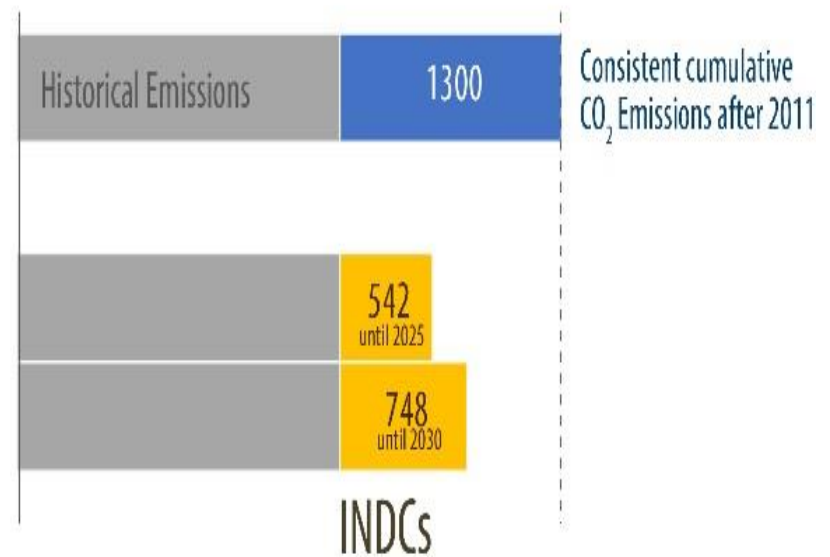


Cumulative emissions

Staying below 2 °C with 66% probability



Staying below 2 °C with 50% probability



Adaptation components of INDCs: an overview

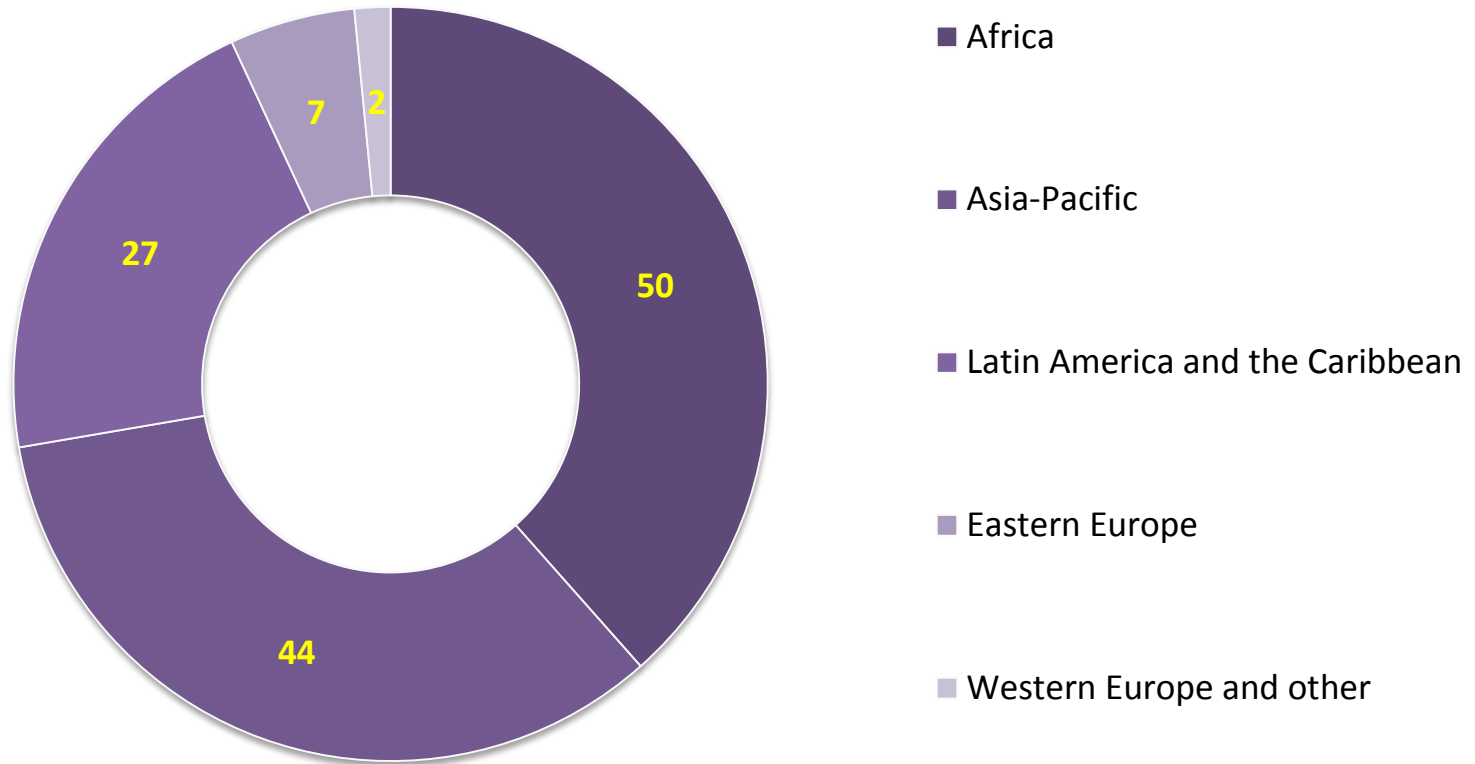
Presentation of the INDCs synthesis report

1 December 2015 – Paris Le Bourget, France



[Matti Goldberg]
UNFCCC secretariat

REGIONAL DISTRIBUTION (status 27 November 2015):



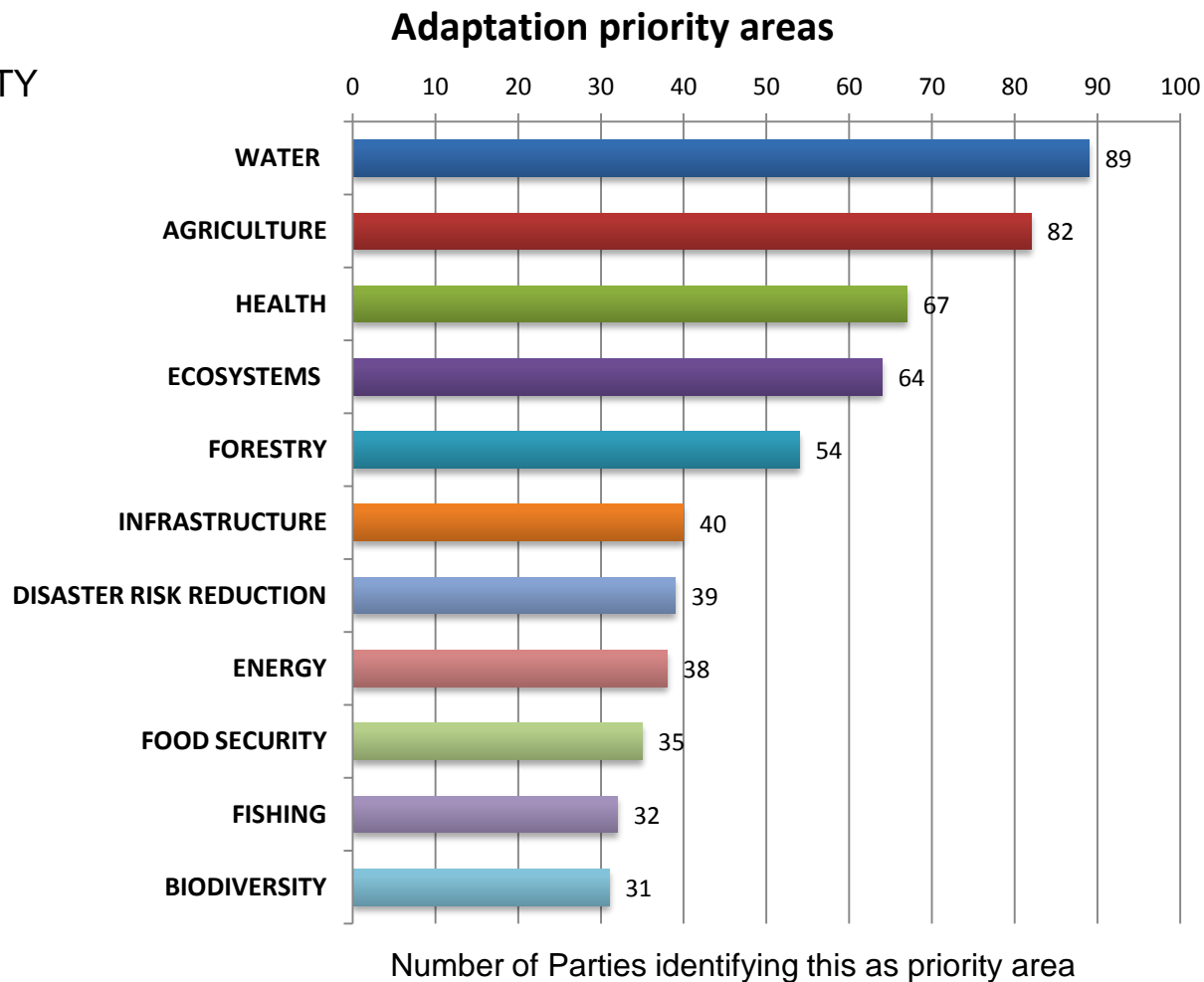
ELEMENTS OF THE ADAPTATION COMPONENTS

PRIORITY ACTIONS Actions on all sectors: Water, Agriculture, Health, Ecosystems, Forestry, Desertification etc. 2015-2030 Cross-cutting measures and integrated approaches Programmatic approaches Economic diversification Implementation underway	IMPACTS AND VULNERABILITIES Vulnerable Parties, sectors, zones, groups Observed and projected impacts Development challenges Socio-economic consequences Vulnerability assessments Drivers of vulnerability Key climate hazards Transboundary risks		NATIONAL FRAMEWORKS National Adaptation Plans/NAPAs Climate change laws Sector-specific plans DRR plans and strategies Development strategies Investment plans and strategies Green growth strategies Coordinating mechanisms	
	SUPPORT Support needs Bilateral support South-South cooperation Domestic resources Multilateral support		ADAPTATION-MITIGATION SYNERGIES Mitigation and other benefits	
	GOALS AND VISIONS Development aspirations MDGs/SDGs Survival 2°C/1.5°C limit		MONITORING AND EVALUATION Continuous and flexible Developing indicators	
			LOSS AND DAMAGE Projected costs of impacts Disaster risk reduction	

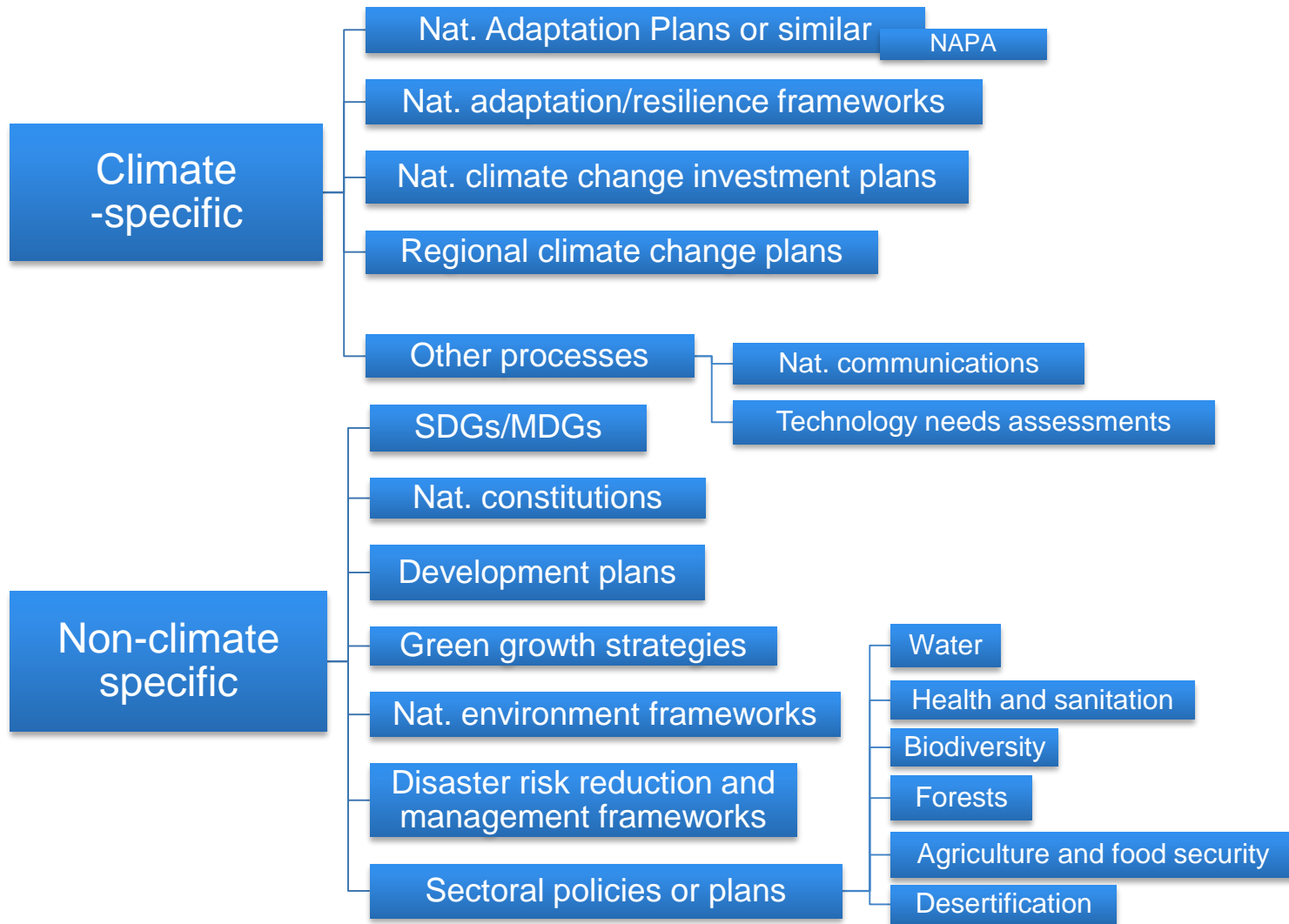


PRIORITY AREAS IDENTIFIED IN THE ADAPTATION COMPONENTS

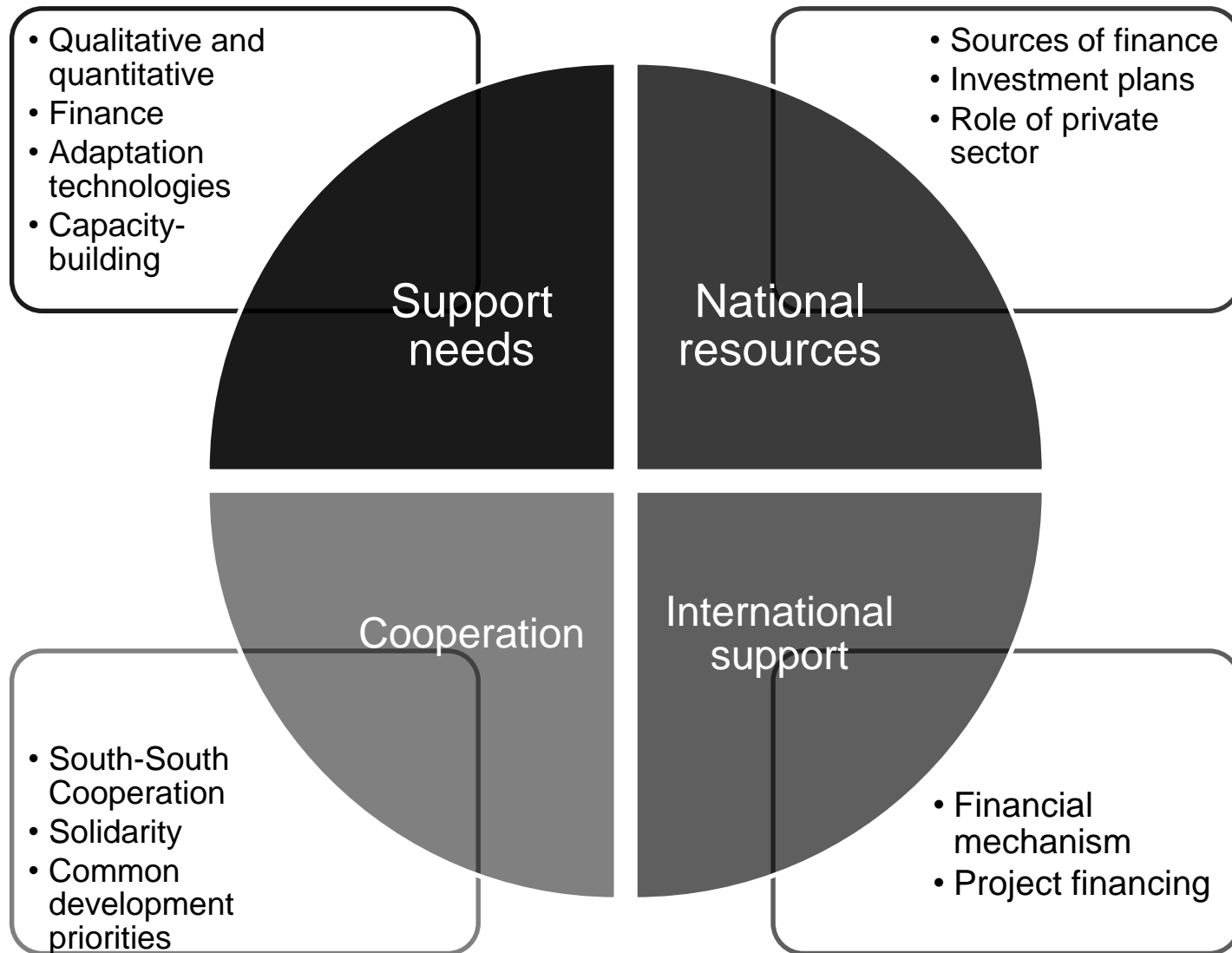
- ACTIONS ON PRIORITY AREAS/SECTORS
- BROAD/STRATEGIC ↔ SPECIFIC/PROJECT-BASED
- TIMEFRAMES:
 - 2015-2020
 - 2020-2030
- QUANTITATIVE OBJECTIVES



FRAMEWORKS INFORMING THE ADAPTATION COMPONENTS



SUPPORT IN THE ADAPTATION COMPONENTS



Thank you for your attention

