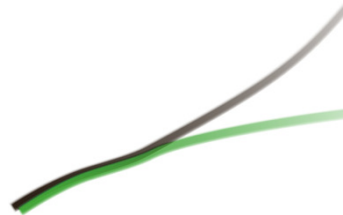


## UN Climate Change Conference – Paris, December 2015: ADP 2.12 & COP21

### THE GROUP OF GOVERNANCE OF CLIMATE CHANGE



GGCC GROUP GOVERNANCE CLIMATE CHANGE

STH. Sustainability, Technology and Humanism  
UPC Singular Research Group

UNIVERSITAT POLITÈCNICA DE CATALUNYA

QUANTIFIED PROPOSAL – BASED ON CRITERIA OF  
CLIMATE JUSTICE PER CAPITA - OF THE  
DISTRIBUTION AMONG THE UNFCCC STATE PARTIES  
OF THE EMISSIONS MITIGATION GLOBAL OBJECTIVE  
DEFINED BY SCENARIO RCP2.6 OF THE IPCC'S AR5

**“THE CARBON BUDGETS THAT  
WILL PREVENT THE AVERAGE  
TEMPERATURE OF THE EARTH’S  
SURFACE FROM INCREASING BY  
MORE THAN 2°C WHEN COMPARED  
WITH THE TEMPERATURE OF  
THE PRE-INDUSTRIAL ERA”**

**ARMENIA, BOLIVIA,**

**EL SALVADOR AND ETHIOPIA**

**...and you..., members of the**

**“GROUP OF FRIENDS**

**FOR STRONG MITIGATION,**

**DISTRIBUTING**

**GLOBAL CARBON BUDGET**

**UNDER**

**CLIMATE JUSTICE CRITERIA”**

**FOR INFLUENCING THE PARIS  
TEXTS!**

**The Group of Governance of Climate Change,  
GGCC, of the UPC, is the secretariat of the  
Group of Friends!**

# **“GLOBAL CARBON BUDGET DISTRIBUTION BASED ON CLIMATE JUSTICE”**

**THIS KEY IDEA HAS MADE ITS WAY INTO THE DRAFT AGREEMENT.  
NOW IT MUST BE INCLUDED IN THE FINAL PARIS AGREEMENT!**

CSE INDIA SIDE EVENT  
DECEMBER 4 – PARIS ADP2.12 - COP 21

# **CONTENTS**

**THE GLOBAL CARBON BUDGET FRAME  
AND ITS DISTRIBUTION UNDER CLIMATE  
JUSTICE CRITERIA...**

**MUST BE IN THE PARIS AGREEMENT  
TEXT**

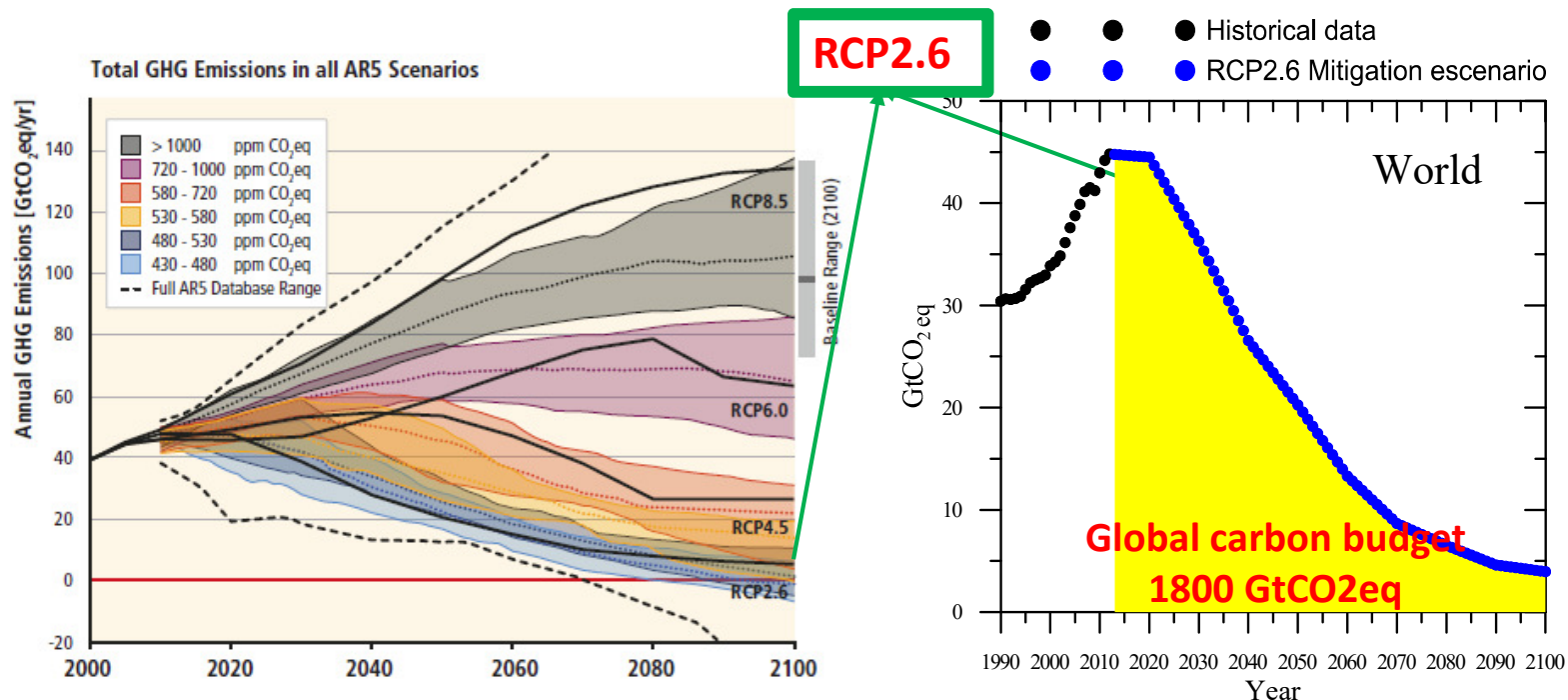
# **CONTENTS**

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# THE GLOBAL CARBON BUDGET FRAME

- In the “Cancun agreements” there is a political consensus:
  - *The average temperature of the Earth’s surface must not rise by more than 2°C, compared with the temperature of the pre-industrial era*
- And then, from the fifth Assessment Report, AR5, of the IPCC, we know that :
  - **From all the Representative Concentration Pathways (RCP’s) future scenarios considered, only one of them has a “likely” probability to achieve this objective: the RCP2.6 scenario.**



# HOW TO DISTRIBUTE THE GLOBAL CARBON BUDGET WITH **CLIMATE JUSTICE**?

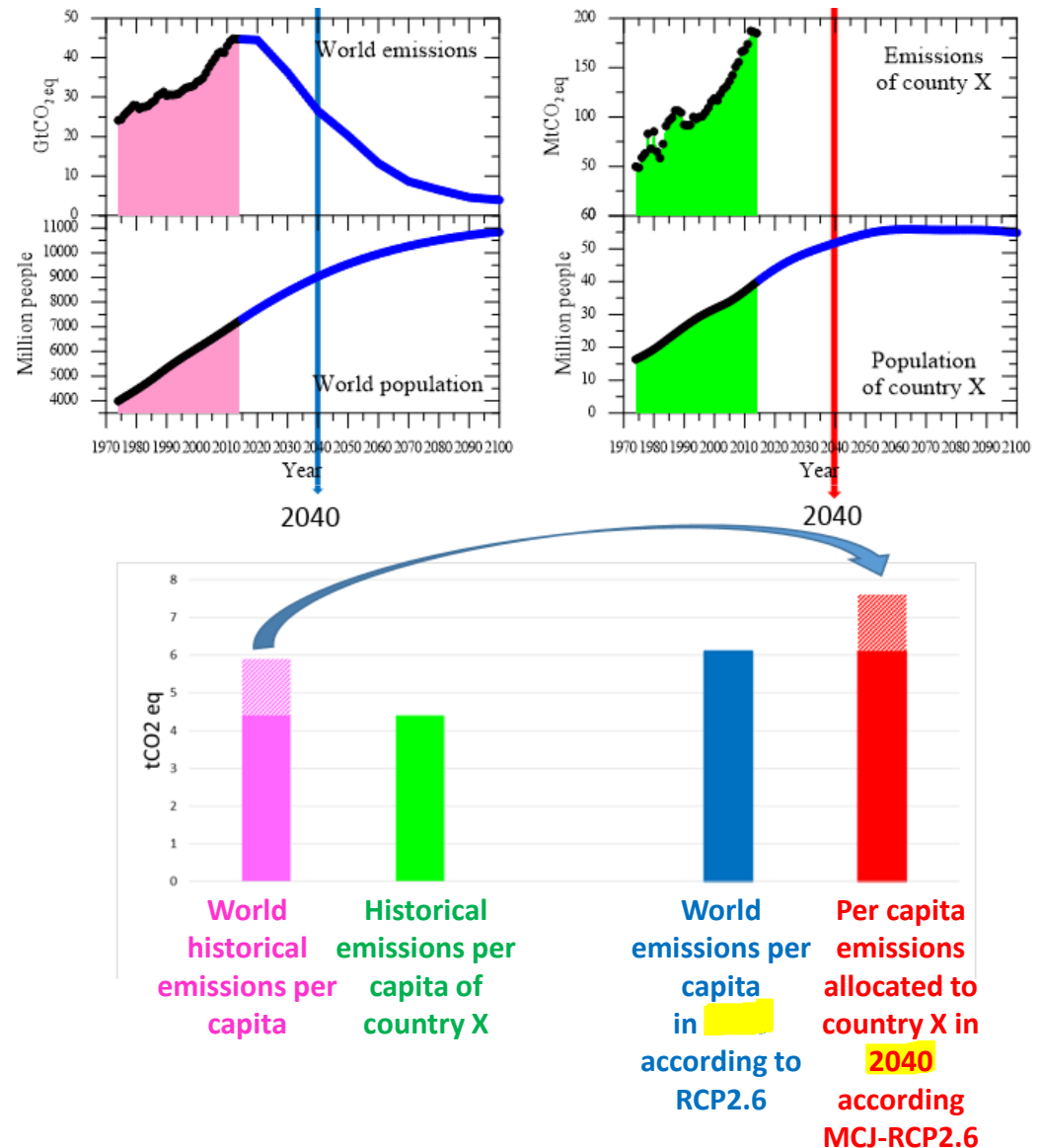
There are several manners to introduce an ethical concept like the “CLIMATE JUSTICE” in a computer with the aim to calculate a “fair” distribution of the “Global Carbon Budget” among the UNFCCC state parties. One of them is our **Model of Climate Justice per capita (MCJ)**.

The **MCJ** has been produced with the aim of determining the total quantity of emissions, or “carbon budget”, which would be available to all the UNFCCC state parties from now until 2050 and 2100, distributing these carbon budgets according to the following criterion...

# THE MODEL OF CLIMATE JUSTICE PER CAPITA (MCJ)

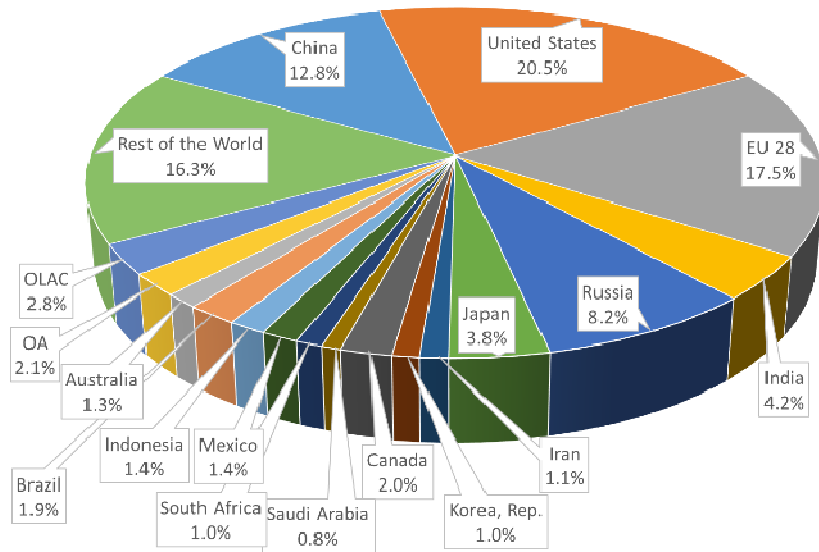
The **MCJ** treats all inhabitants of the planet equally, but taking into account the different historical responsibilities of each one of the UNFCCC state parties, insofar as emissions are concerned.

To the extent that emissions per capita of GHG are not the same, **the model quantifies the historical responsibility per capita** and takes it into account when determining the possible future emissions of each of the countries (less historical responsibility means more possible future emissions and vice versa).



Carbon Budget 1970-2010  
1273.6 GtCO<sub>2</sub>eq

## Historical distribution of emissions



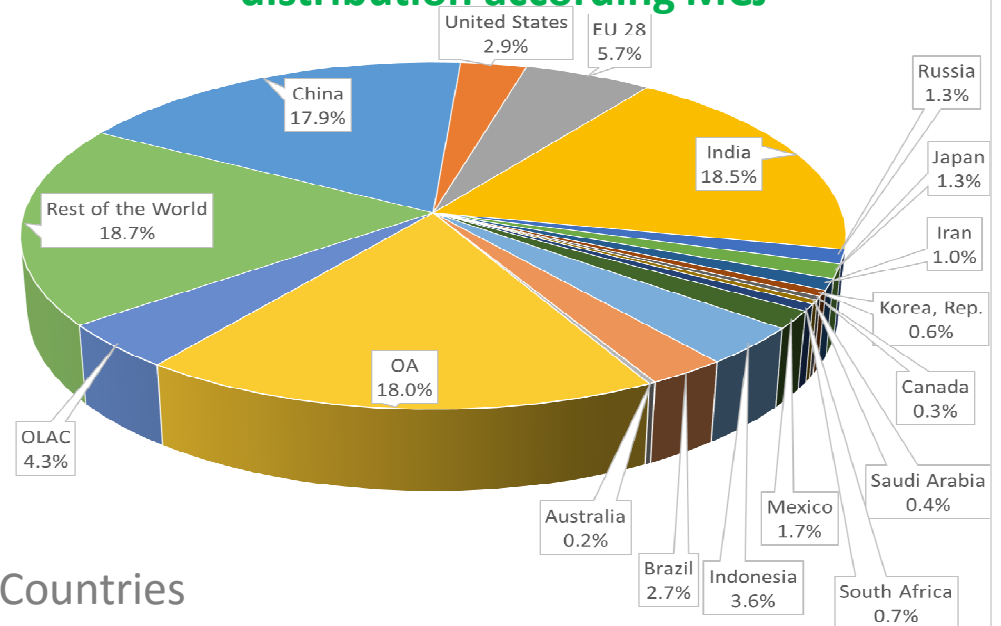
- OA: Other African Countries
- OLAC: Other Latin American and Caribbean Countries

## Carbon Budget distribution according to our Model of Climate Justice



Carbon Budget 2011-2050  
1386.6 GtCO<sub>2</sub>eq











## Future "Global Carbon Budget" distribution according MCI





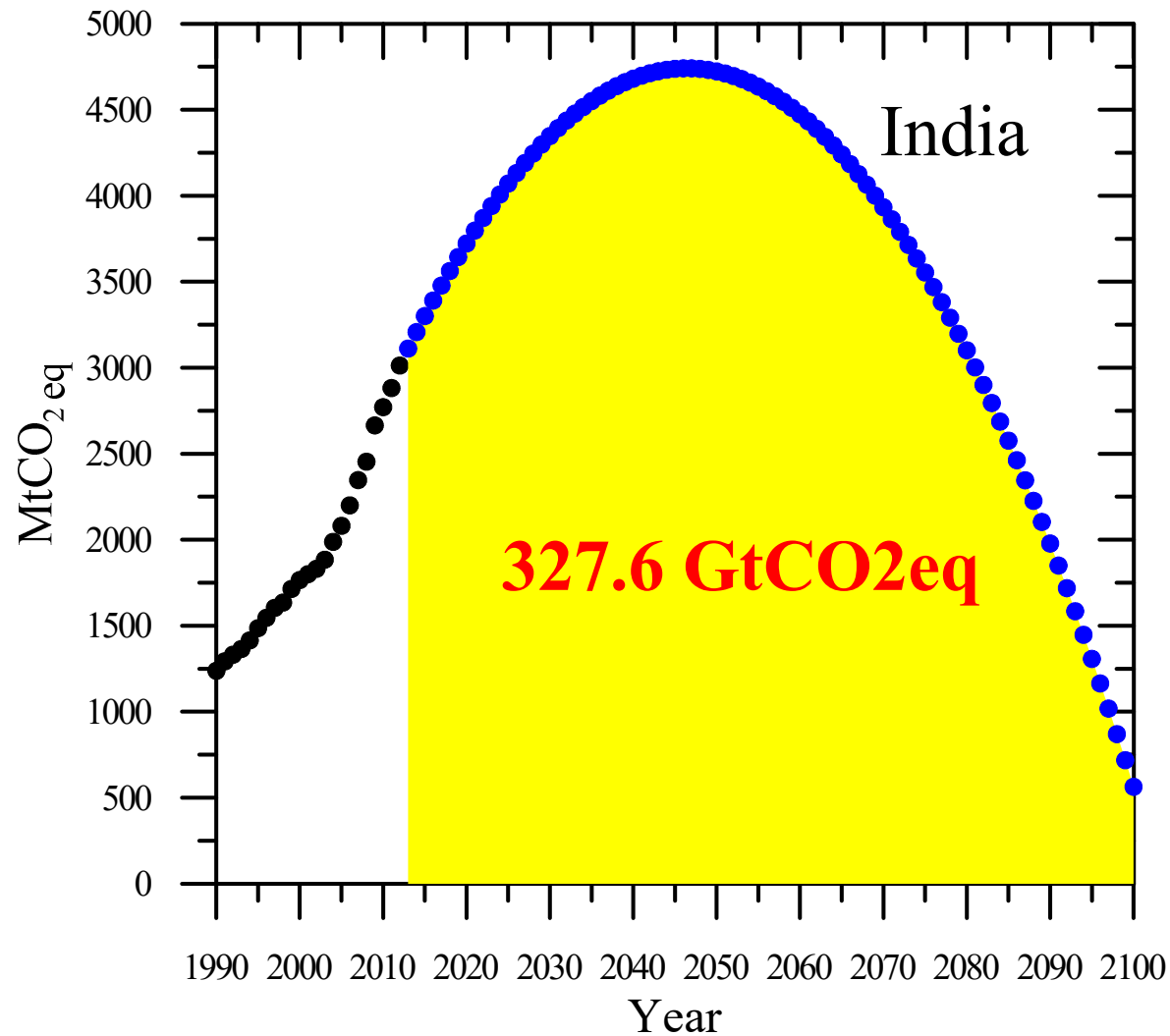
# India, case study

## Results for India of the MCJ

	WORLD	INDIA	%
Cumulative emissions 1970-2010 (GtCO <sub>2</sub> eq)	1273.6	52.9	
Cumulative emissions per capita (tCO <sub>2</sub> eq per capita)			
2010 emissions (MtCO <sub>2</sub> eq)	42968.1	2772.5	
2010 emissions per capita (tCO <sub>2</sub> eq per capita)			
Carbon budget 2011-2050 MCJ-RCP 2.6 (GtCO <sub>2</sub> eq)	1386.6	256.7	
Carbon budget per capita (tCO <sub>2</sub> eq per capita)			
Carbon budget 2011-2100 MCJ-RCP2.6 (GtCO <sub>2</sub> eq)	1831.1		17.9
Carbon budget per capita (tCO <sub>2</sub> eq per capita)	2.2	2.4	

# India, case study

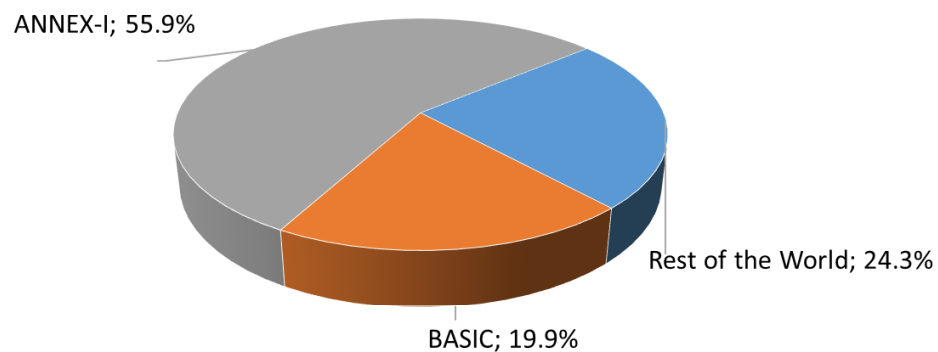
## Mitigation pathway for India



# The BASIC group vs ANNEX-I countries, case study

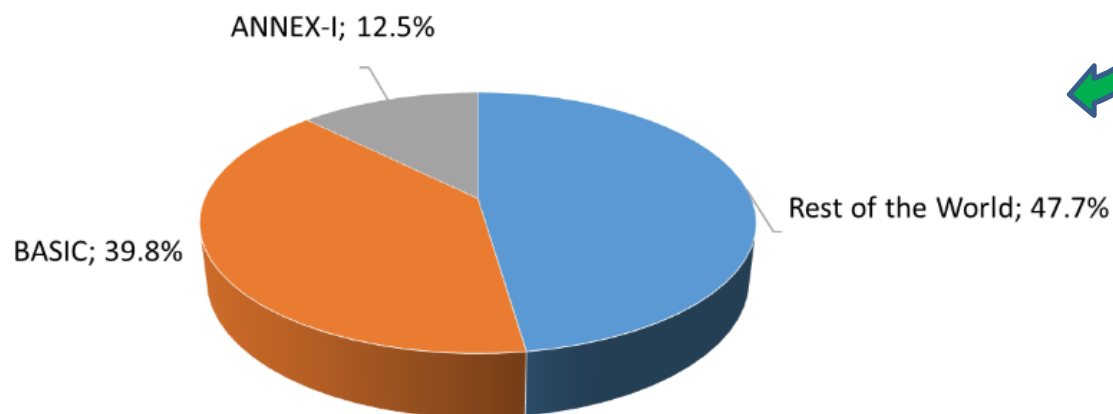
## Historical distribution of emissions

GHG cumulative emissions 1970-2010  
World - 1273.6 GtCO<sub>2</sub>eq



## Future “Global Carbon Budget” distribution according MCJ

Carbon Budget 2011-2050  
World - 1386.6 GtCO<sub>2</sub>eq



# **CONTENTS**

**THE GLOBAL CARBON BUDGET FRAME  
AND ITS DISTRIBUTION UNDER CLIMATE  
JUSTICE CRITERIA...**

**MUST BE IN THE PARIS AGREEMENT  
TEXT**

# INTRODUCTION

The GLOBAL CARBON BUDGET and the CLIMATE JUSTICE are, as concepts and proposals, in the GNT (Geneva Negotiation Text)!

**Since last BONN meeting the concepts are in the current DRAFT AGREEMENT negotiations!**

Mainly, thanks to **Bolivia!**

**Today, the key point and the main goal of our presence in the COP 21 is to reinforce and empower these concepts in the PARIS negotiation and FINAL texts (AGREEMENT AND DECISIONS)!**

# The existent text on “Global Carbon Budget distribution based on Climate Justice”

Work of the ADP Contact Group incorporating bridging proposals by the  
Co-facilitators

*Version of 4 December 2015@10.00*  **!!!**

A. DRAFT AGREEMENT 

**Text introduced by Bolivia (with the support of the “G of F”)**

# Article 3 (*Mitigation*)

*{Collective long-term goal}*

1. **Option 1:** Parties aim [to achieve the global temperature goal], in accordance with the best available science [and the principles of the Convention], through [long-term global [low-[carbon][emission] transformation] [[climate][carbon] neutrality]], [and the peaking of their [net] emissions] [by 2030][by 20XX][as soon as possible], [with a [x]40–[y]70 per cent net emission reduction below the 2010 level by 2050][**according to the global carbon budget distribution based on climate justice**], and [overall reductions][[net] zero emissions] [over the course of the present century][by 2050][by 2100].]

# Article 3 *(Mitigation)*

*{Collective long-term goal}*

1. **[Parties [collectively][cooperatively] aim to reach the global temperature goal referred to in Article 2 through:**

(a) [A peaking of global greenhouse gas emissions as soon as possible[, recognizing that peaking requires deeper cuts of emissions of developed countries and will be longer for developing countries]]

(b) [Rapid reductions thereafter [in accordance with best available science] to at least a X [-Y] per cent reduction in global [greenhouse gas emissions][CO<sub>2</sub>[e]] compared to 20XX levels by 2050]];

(c) [Achieving zero global GHG emissions by 2060-2080]

(d) [A long-term low emissions transformation] [toward [climate neutrality][decarbonization] [over the course of this century] [as soon as possible after mid-century];

(e) **[Equitable distribution of a global carbon budget based on historical responsibilities and [climate] justice]**



# The existent text on “Global Carbon Budget distribution based on Climate Justice”

Work of the ADP Contact Group incorporating bridging proposals by  
the Co-facilitators

*Version of 4 December 2015@10.00*  **!!!**

B. DRAFT DECISION 

**Text introduced by Bolivia (with the support of the “G of F”)**

### III. DECISIONS TO GIVE EFFECT TO THE AGREEMENT

#### *MITIGATION*

25. **Option 2:** [Develop modalities to implement the distribution of a global carbon budget based on climate justice, considering historical responsibilities, ecological footprint, capabilities, state of development and population;]

### III. DECISIONS TO GIVE EFFECT TO THE AGREEMENT

#### *MITIGATION*

*{Collective long-term goal}*

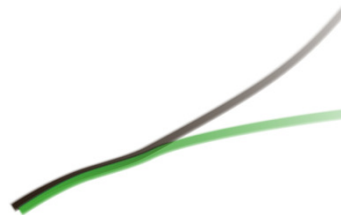
21. [*Requests* [X] to [Develop modalities to implement the distribution of a global carbon budget based on climate justice, considering historical responsibilities, ecological footprint, capabilities, state of development and population;]

### III. DECISIONS TO GIVE EFFECT TO THE AGREEMENT

#### *MITIGATION*

25. **Option 2:** [Develop modalities to implement the distribution of a global carbon budget based on climate justice, considering historical responsibilities, ecological footprint, capabilities, state of development and population;]

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