

Space and Climate Masterclass

**Preparing AEB for Engagement in
Global Climate Action**

6 & 7 October 2025

Agenda - overview

- | | |
|-----------|---|
| 01 | Setting the Stage: COP & Global Climate Governance |
| 02 | COP Decision-Making Structure and Negotiation Dynamics |
| 03 | Brazil's Climate Commitments & Challenges |
| 04 | Opportunities and Challenges of Mitigation Negotiations |
| 05 | Opportunities and Challenges of Adaptation Negotiations |
| 06 | Implementing COP decisions in Brazil |

Agenda – Day 1

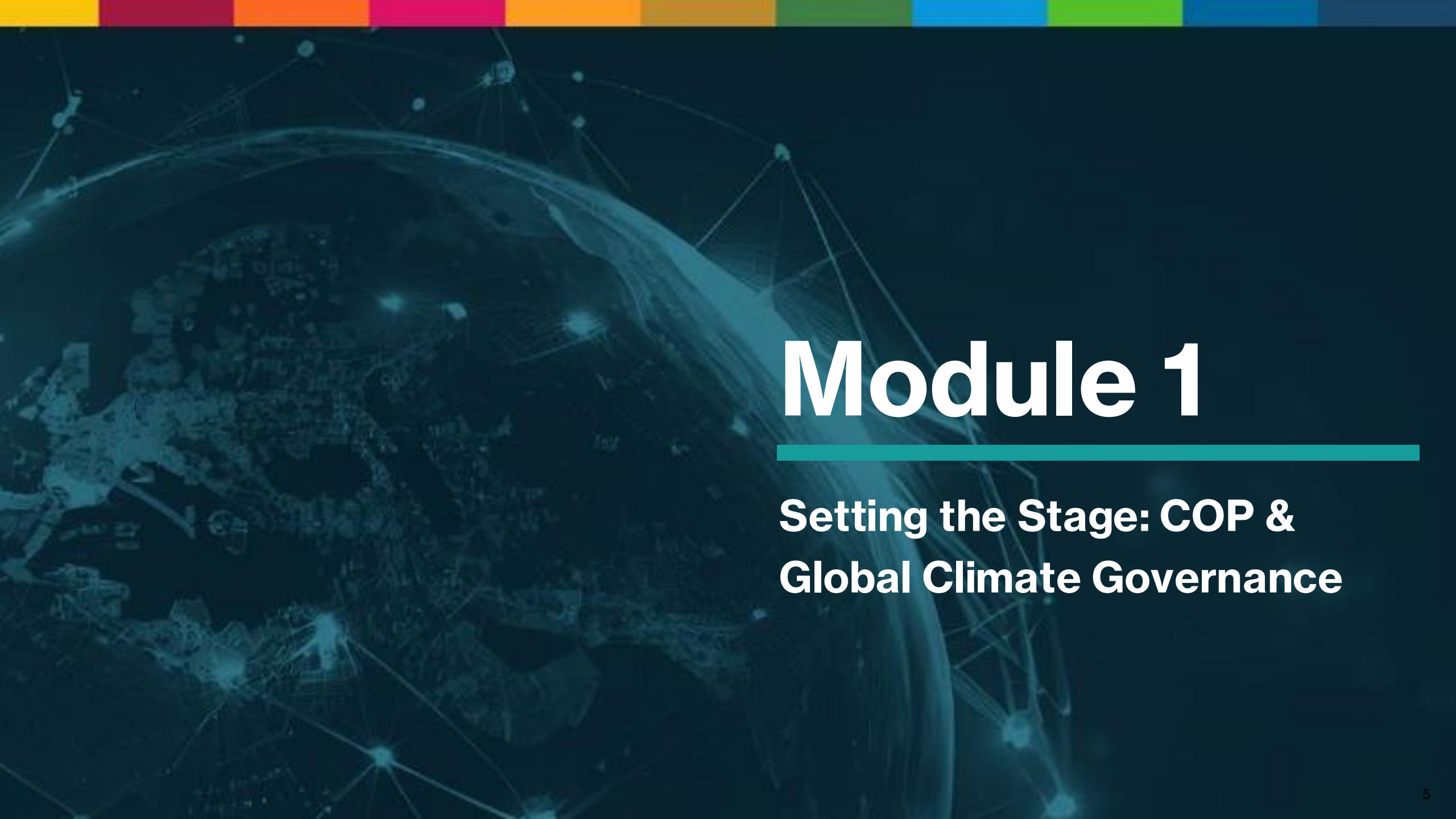
Time	Topic
9:00 – 9:10	Introduction remarks
9:10 – 10:00	Module 1 - Setting the Stage: COP & Global Climate Governance
	<i>Origins and evolution of the UNFCCC and COPs</i>
	<i>UNFCCC key milestones and major outcomes from selected COPs</i>
	<i>Negotiation groups</i>
	<i>Brazil's historical role in international climate change negotiations</i>
	<i>Brazil opportunities and challenges arising from key COP decisions</i>
	Q&A
10:00 – 10:05	Coffee-break
10:05 – 10:55	Module 2 - COP Decision-Making Structure and Negotiation Dynamics
	<i>Main subsidiary and constituted bodies under the UNFCCC</i>
	<i>UNFCCC secretariat</i>
	<i>How UNFCCC negotiations work in practice</i>
	<i>Overview of key agenda items for COP 30</i>
	<i>The role of space in tracking Paris Agreement implementation</i>
	Q&A
10:55 – 11:00	Coffe-break

Time	Topic
11:00 – 11:50	Module 3 - Brazil's Climate Commitments & Challenges
	<i>Institutional players in Brazil's climate change governance</i>
	<i>Brazil's NDCs and net-zero targets</i>
	<i>Brazil's climate change vulnerabilities</i>
	<i>Brazil's overall strengths and weaknesses in climate change negotiations and opportunities in leadership</i>
	Q&A
11:50 – 12:00	Closing remarks

Agenda – Day 2

Time	Topic
9:00 – 9:10	Recap day 1
9:10 – 10:00	Module 4 - Opportunities and Challenges of Mitigation Negotiations
	<i>Understand how mitigation is framed in COP negotiations</i>
	<i>Identify opportunities and challenges in mitigation negotiations</i>
	<i>Brazil's mitigation profile</i>
	<i>Understand Brazil's national positions on mitigation</i>
	<i>Opportunities for space data and technology</i>
	Q&A
10:00 – 10:05	Coffee-break
10:05 – 10:55	Module 5 - Opportunities and Challenges of Adaptation Negotiations
	<i>Understand how adaptation is framed in COP negotiations</i>
	<i>Identify opportunities and challenges in adaptation negotiations</i>
	<i>Brazil's adaptation profile</i>
	<i>Understand Brazil's national positions on adaptation</i>
	<i>Opportunities for space data and technology</i>
	Q&A
10:55 – 11:00	Coffe-break

Time	Topic
11:00 – 11:50	Module 6 - Implementing COP decisions in Brazil
	<i>Integration of adopted decisions into national and subnational public policies</i>
	<i>Summarize the main discussions/findings from previous sessions and to develop a draft road-map to COP 30 and beyond</i>
	<i>Opportunities for environmental monitoring through AEB services/technologies</i>
	<i>Space as a driver for climate monitoring: EO satellites, data for mitigation & adaptation</i>
	Q&A
11:50 – 12:00	Space Solutions and Business Applications Learning from International Practices
12:00 – 12:10	Closing remarks



Module 1

Setting the Stage: COP & Global Climate Governance

Learning objectives

- At the end of this module participants will be able to understand:
 - UNFCCC origins
 - What is a COP
 - Selected key decisions taken
 - Brazil historical role in international climate change negotiations across the years

Origins and evolution of the UNFCCC and COPs

- At the [1992 Earth Summit in Rio de Janeiro](#) countries came together to discuss and address the impact of human socio-economic activities on the environment
- Key outcomes included:
 - [Agenda 21](#)
 - [Convention on Biological Diversity](#)
 - [United Nations Framework Convention on Climate Change](#)



Credit: un.org

United Nations Framework Convention on Climate Change - UNFCCC

- The UNFCCC entered into force on 21 March 1994
 - After the 50th [instrument of ratification, acceptance, approval or accession had been deposited](#) (in accordance with Article 23 of the Convention)
- The 198 countries that have ratified the Convention are called **Parties to the Convention**
- “The ultimate objective of this Convention ... is to achieve, in accordance with the relevant provisions of the Convention, stabilization of greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system”(Article 2)



Suggested reading: [UNFCCC text](#)

Quiz

What would be
“dangerous
anthropogenic
interference”?

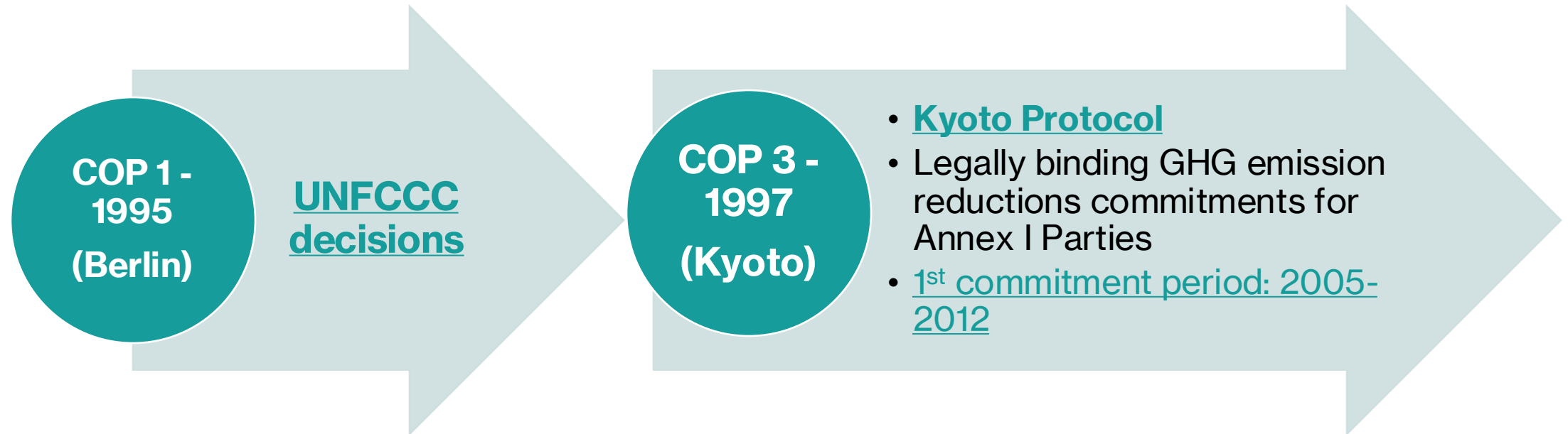
What would be the “GHG
concentration level that
would prevent dangerous
anthropogenic
interference with the
climate system”?

[Menti.com](https://www.menti.com) – código 9489 0415



UNFCCC key milestones and major outcomes from selected COPs

COP - Conference of the Parties



UNFCCC key milestones and major outcomes from selected COPs (2)

CMP - Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol



**COP 11 /
CMP 1 -
2005**

**Enter into
force of the
Kyoto Protocol
(16 February 2005)**



**COP 15 -
2009**

**Copenhagen
Accord**
(take note)

UNFCCC key milestones and major outcomes from selected COPs (3)



DOHA 2012
UN CLIMATE CHANGE CONFERENCE
COP18•CMP8

**COP 18 /
CMP 8 -
2012**

**Doha
Amendment to
the KP:**

2nd
commitment
period of the
KP (2013-
2020)



COP21 • CMP11
PARIS 2015
UN CLIMATE CHANGE CONFERENCE

**COP 21 -
2015**

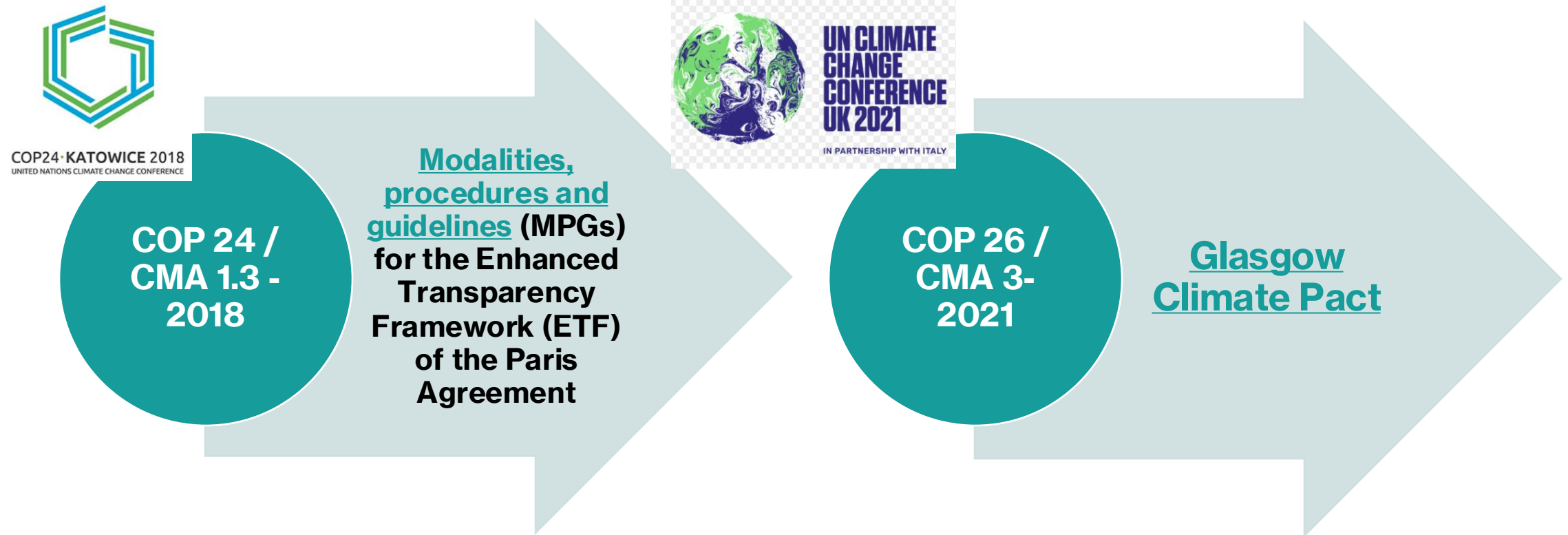
Paris
Agreement



Suggested reading: [Paris Agreement text](#)

UNFCCC key milestones and major outcomes from selected COPs (4)

CMA - Conference of the Parties serving as the meeting of the Parties to the Paris Agreement



Paris Agreement entered into force on 4 November 2016

UNFCCC key milestones and major outcomes from selected COPs (5)



Suggested reading: [GST outcome](#)

Selected highlights from the Global Stocktake

18. Acknowledges that significant collective progress towards the Paris Agreement temperature goal has been made, from an expected global temperature increase of 4 °C according to some projections prior to the adoption of the Agreement to an increase in the range of 2.1–2.8 °C with the full implementation of the latest nationally determined contributions;

21. Notes with concern the findings in the latest version of the synthesis report on nationally determined contributions that implementation of current nationally determined contributions would reduce emissions on average by 2 per cent compared with the 2019 level by 2030 and that significantly greater emission reductions are required to align with global greenhouse gas emission trajectories in line with the Paris Agreement temperature goal and recognizes the urgent need to address this gap;

Selected highlights from the Global Stocktake

107. Encourages inclusive international cooperation on research, development and demonstration as well as innovation, including in hard-to-abate sectors, with a view to strengthening **endogenous capacities and technologies and fostering national systems of innovation** in line with the findings of the Intergovernmental Panel on Climate Change;

183. Encourages the scientific community to continue enhancing knowledge on and addressing knowledge gaps in adaptation and availability of information on climate change impacts, including for **monitoring** and progress, and to provide relevant and timely inputs to the second and subsequent global stocktakes;

Key takeaways from Global Space Leaders Summit: "Space challenges in the fight against climate change"

- Azercosmos, the Space Agency of the Republic of Azerbaijan, hosted the [World Space Leaders Summit](#) within the framework of COP29
- Primary objective was to promote the role of space technology in addressing climate change and to define collaborative steps with global and emerging space agencies
- As a result of the Summit, around 20 global space agencies endorsed an "[International Pledge for Space-Based Climate Action – COP29 Impact and Output](#)"



1. **Deploy Space-Based Technologies:** Identify and deploy practical space-enabled solutions to help address the Earth's greatest climate challenges
2. **Enhance Global Collaboration:** Strengthen international partnerships to improve capacity building, scientific data sharing, and the development of joint climate strategies
3. **Support the UN's Space2030 Agenda:** Actively contribute to the objectives of the "Space2030 Agenda" as adopted by the UN General Assembly on 25 October 2021, including four objectives - advancing space economy, space society, space accessibility, and space diplomacy
4. **Enhanced Data Sharing:** Amplify scientific data sharing efforts, particularly between established and emerging space nations, with a specific focus on inclusivity, especially in engaging developing countries

Negotiation groups

- There are currently 16 official negotiating groups in the UNFCCC negotiation process
- 5 regional groups, mainly for the purposes of electing the Bureau:
 - i. African States
 - ii. Asia-Pacific States
 - iii. Eastern European States
 - iv. Latin American and the Caribbean States
 - v. European and Other States (include Australia, Canada, Iceland, New Zealand, Norway, Switzerland and the United States of America, but not Japan, which is in the Asian Group)

Negotiation groups: Annex I Parties to the UNFCCC



+ Israel and Kazakhstan

UMBRELLA Group:

- Normally the group advocates for “balanced GHG emission reductions” between developed countries and major developing countries



Sally Box, Australia, on behalf of the Umbrella Group - UNFCCC SB58 - 13Jun23 - photo | IISD Earth Negotiations Bulletin

Negotiation groups: Annex I Parties to the UNFCCC



European Union:

- Have a common position (that is previously negotiated among EU members) in all agenda items



Veronika Bagi (right) head of the Hungarian Delegation at UNFCCC, and Jacob Werksman, head of the EU delegation to the UNFCCC, attend COP29, November 14, 2024. — Reuters

Negotiation groups: Annex I Parties to the UNFCCC

 Australia	 Austria	 Belarus
 Belgium	 Bulgaria	 Canada
 Croatia	 Cyprus	 Czechia
 Denmark	 Estonia	 European Union
 Finland	 France	 Germany
 Greece	 Hungary	 Iceland
 Ireland	 Italy	 Japan
 Latvia	 Liechtenstein	 Lithuania
 Luxembourg	 Malta	 Monaco
 Netherlands	 New Zealand	 Norway
 Poland	 Portugal	 Romania
 Russian Federation	 Slovakia	 Slovenia
 Spain	 Sweden	 Switzerland
 Türkiye	 Ukraine	 United Kingdom of Great Britain and Northern Ireland
 United States of America		

+ Mexico, Republic of Korea and Georgia

Environmental Integrity Group (EIG):

- Advocates for ambitious GHG emission reductions targets (despite the minimum contribution to global emissions of most members)



Franz Perrez, Switzerland, on behalf of the Environmental Integrity Group (EIG) - UNFCCC SB58 - 13Jun23 - photo | IISD Earth Negotiations Bulletin

Negotiation groups: Non-Annex I Parties to the UNFCCC

Group of 77 and China:

- Most diverse negotiation group due to the large differences among its members
- Not always possible to have a common position
- When a common position is achieved it becomes a powerful asset in the negotiation process



Abbas Kadhom Obaid Al-Fatlawi, Iraq, on behalf of the G-77/China

Photo by IISD/ENB - Kiara Worth

 Afghanistan

 Albania

 Algeria

 Andorra

 Guatemala

 Guinea

 Argentina

 Guyana

 Bahrain

 Honduras

 Barbados

 Republic of Korea

 Bhutan

 Saint Kitts and Nevis

 Botswana

 Arab World

 Burkina Faso

 Comoros

 Cambodia

 Cook Islands

 Chad

 Sudan

 Colombia

 Cook Islands

 Cuba

 Tanzania

 Djibouti

 Ecuador

 Gabon

 Equatorial Guinea

 Gambia

 Ethiopia

 Uruguay

 Gambia

 Oman

 Venezuela (Bolivarian Republic of)

 Panama

 Zambia

 United Arab Emirates

 United Republic of Tanzania

 Uzbekistan

 Vanuatu

 Viet Nam

 Yemen

 Zimbabwe

enadines

Climate negotiations: key negotiations groups within G77/China

African Group (AGN):

- Historically, has presented strong demands related to means of implementation – MOI (i.e., finance, technology and capacity building), adaptation, loss and damage, among others



Richard Muyungi, Tanzania, on behalf of the African Group

Photo by IISD/ENB - Kiara Worth

Climate negotiations: key negotiations groups within G77/China

Alliance of Small Island States (AOSIS):

- Member are particularly vulnerable to the impacts of climate change
- Very vocal in favor of ambitious mitigation targets, adaptation and loss and damage



Anne Rasmussen, Palau, on behalf of the Alliance of Small Island States (AOSIS)

Photo by IISD/ENB - Kiara Worth

Climate negotiations: key negotiations groups within G77/China

Least Developed Countries (LDCs):

- Among the most vulnerable to climate change impacts
- Lowest GHG emissions
- Strong demands related to adaptation, loss and damage and MOI



Isatou Camara, The Gambia, on behalf of the Least Developed Countries (LDCs)

Photo by IISD/ENB - Kiara Worth

Climate negotiations: key negotiations groups within G77/China

Arab States:

- Economies still depend heavily on the production and export of fossil fuels
- Always seek to obtain robust decisions on “response measures”



Mohammad Ayoub, Saudi Arabia, on behalf of the Arab Group

Photo by IISD/ENB - Kiara Worth

Climate negotiations: key negotiations groups within G77/China

Like-Minded Developing Countries (LMDCs) group:

- Very diverse group
- Strong positions in critical agenda items, including mitigation and climate finance



Diego Pacheco, Bolivia, representing Like-Minded Developing Countries (LMDCs)

Photo by IISD/ENB - Kiara Worth

Climate negotiations: key negotiations groups within G77/China

Independent Association of Latin America and the Caribbean (AILAC):

- Very vocal regarding climate finance



Mabel Zúñiga, Panama, on behalf of the Independent Alliance of Latin America and the Caribbean (AILAC)

Photo by IISD/ENB - Kiara Worth

Quiz

How many negotiations groups Brazil participates?

BASIC Group:

- Up to date the group have delivered opening and closing statements
- **Emphasis in the “need to protect the development space of emerging economies”**



Túlio Andrade, Brazil, on behalf of Brazil, South Africa, India and China (BASIC)

Photo by IISD/ENB - Kiara Worth

Quiz

How many negotiations groups Brazil participates?

Grupo SUR (formerly known as ABU Group):

- Recent changes in the group composition
- Common positions regarding the NCQG of climate finance



First SUR Group coordination meeting on climate change
April, 2024

Brazil's historical role in international climate change negotiations

- Hosted Rio 92 (cradle of UNFCCC)
- Leading voice in G77/China
- Instrumental role in key negotiation agenda items, *inter alia*:
 - AWG-KP LULUCF: rules for LULUCF activities under the 2nd commitment period of the Kyoto Protocol
 - [REDD+ Warsaw Framework](#): rules for REDD+ activities and result-based payments
 - [Ad Hoc Working Group on the Durban Platform for Enhanced Action \(ADP\)](#): “process to develop a protocol, another legal instrument or an agreed outcome with legal force under the Convention applicable to all Parties” - that lead to the Paris Agreement
 - [Modalities, procedures and guidelines](#) (MPGs) for the Enhanced Transparency Framework (ETF) of the Paris Agreement



Brazil opportunities arising from key COP decisions

- As a [major GHG emitter](#), is expected that Brazil undertake ambitious mitigation actions based on COP decisions
 - Was a key player in the Kyoto Protocol, through 385 registered [Clean Development Mechanism \(CDM\)](#) projects, resulting in [emissions reductions of more than 205 millions tonnes of CO₂eq](#) (from 2007 through 2020)
 - Was instrumental in the establishment of the [REDD+ Warsaw Framework](#), with [emissions reductions of more than 9.3 billion tonnes of CO₂eq](#) (from 2010 through 2018)
 - Has presented an ambitious [nationally determined contribution \(NDC\) under the Paris Agreement](#) (NDC 3.0)

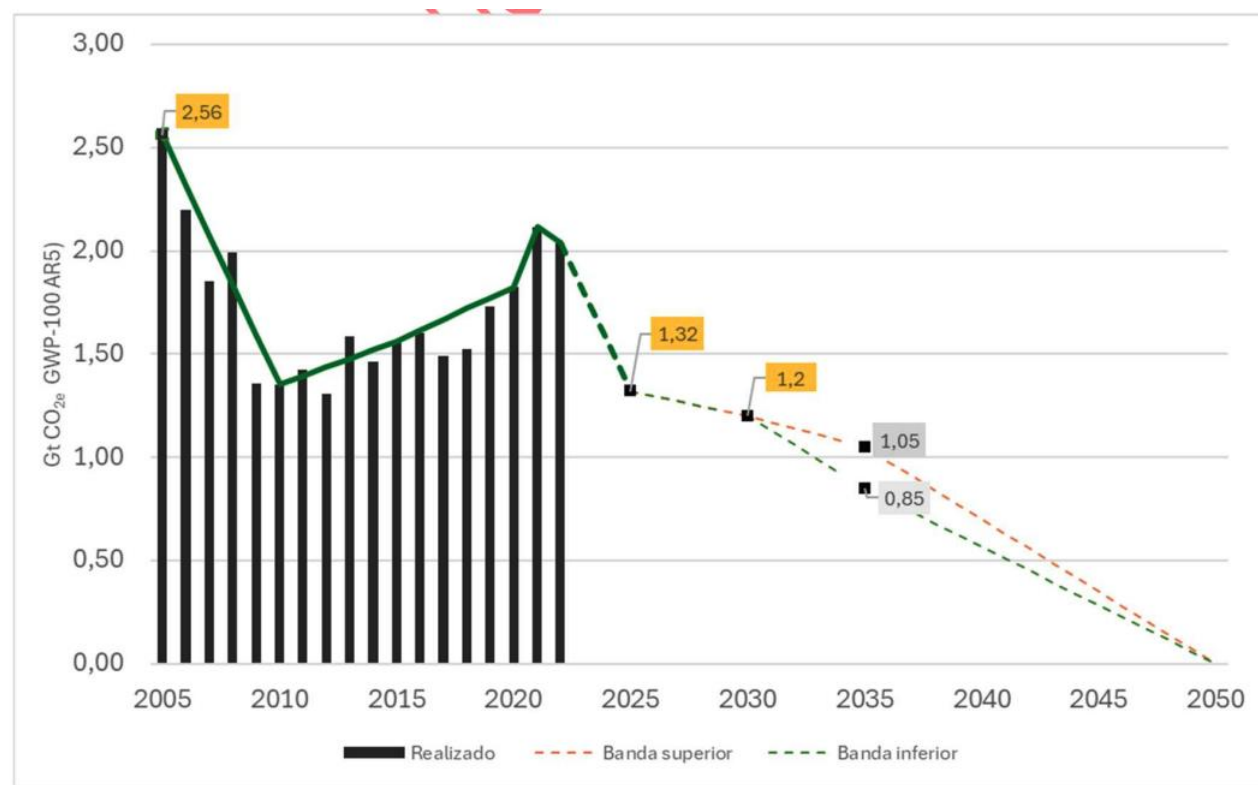
Brazil opportunities and challenges arising from key COP decisions

- How to achieve NDC targets and climate neutrality?
- How to properly monitor, report and verify (MRV) [mitigation target actions](#)?
- How to properly MRV [adaptation goals and actions](#)?



Suggested reading: [Brazil Climate Plan](#)

Brazil NDC and climate neutrality targets



Source: [Brazil National Mitigation Strategy](#)

Q&A



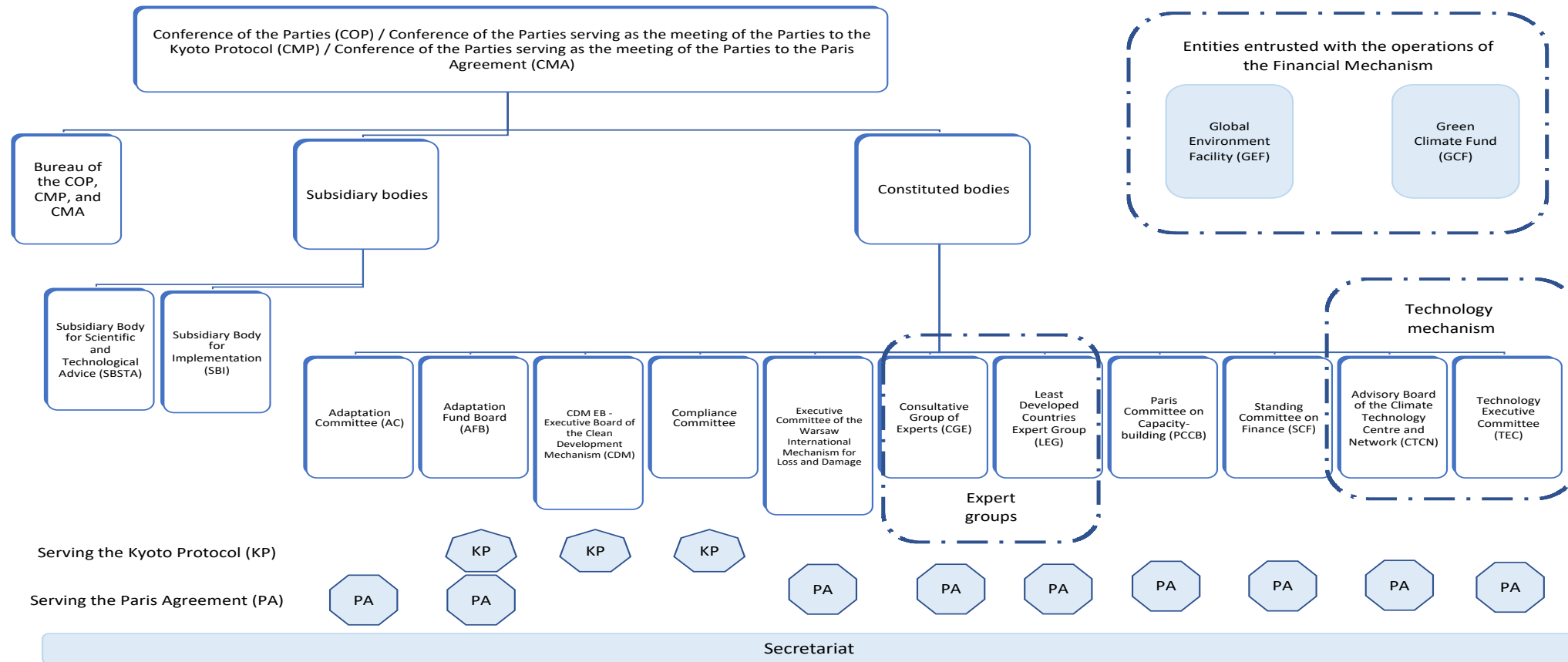
Module 2

**COP Decision-Making
Structure and Negotiation
Dynamics**

Learning objectives

- At the end of this module participants will be able to understand:
 - The negotiation process under the UNFCCC
 - The main subsidiary and constituted bodies
 - Key agenda items for COP 30
 - Potential roles of space science and technology for tracking the Paris Agreement implementation

Main subsidiary and constituted bodies under the UNFCCC

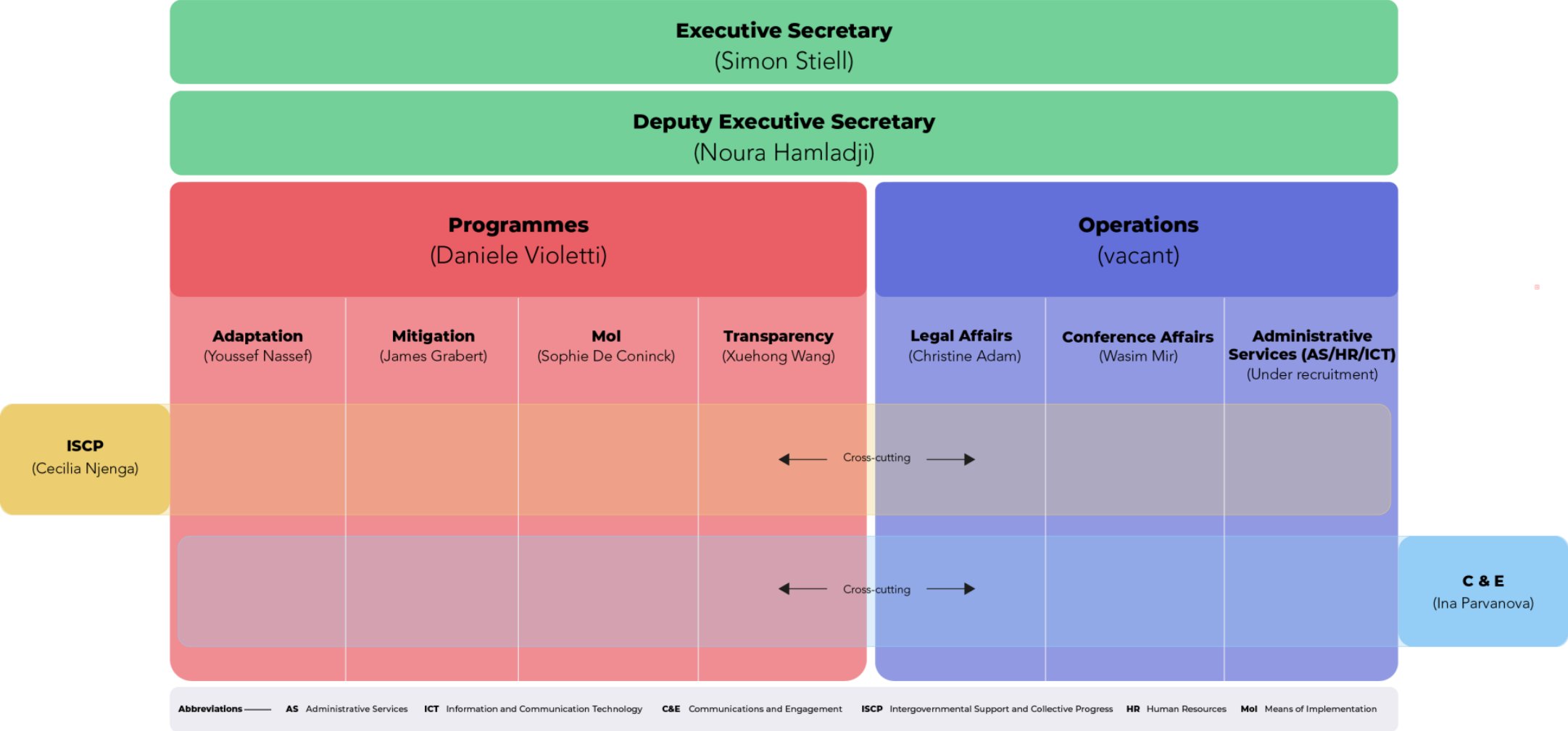


Source: Developed based on UNFCCC, 2020

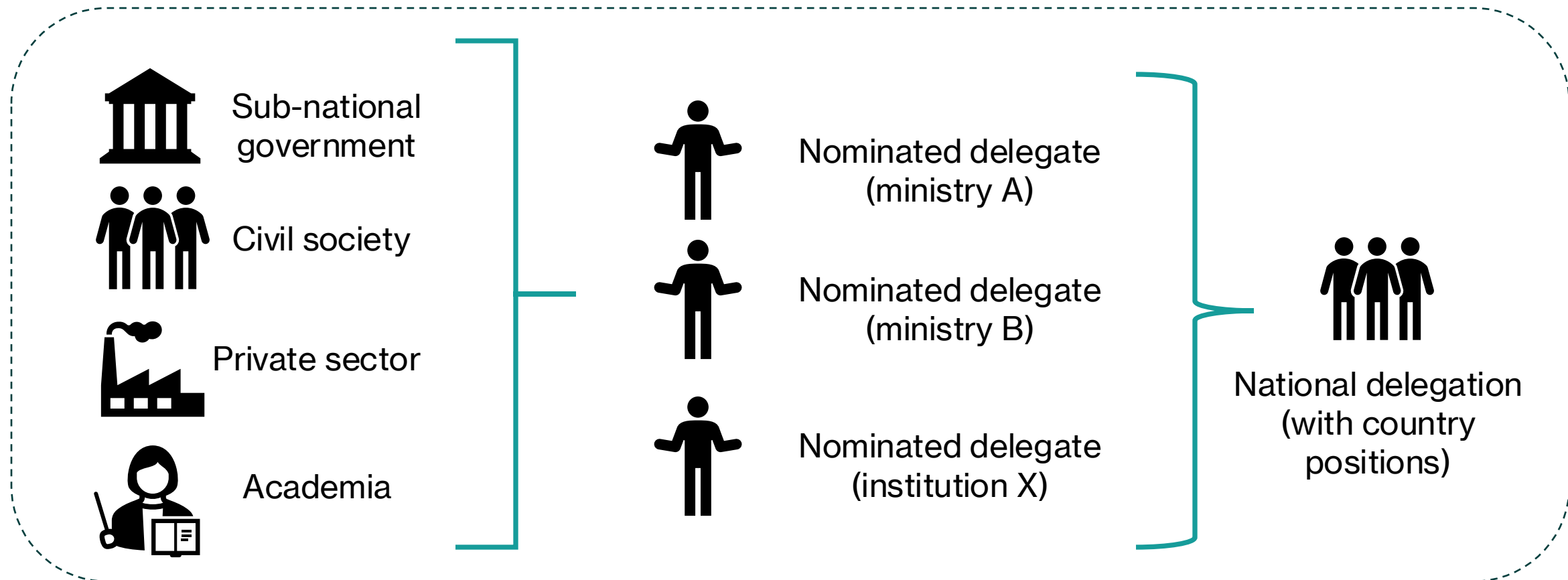
For a description of each body consult <https://unfccc.int/process-and-meetings/bodies/governing-and-subsidiary-bodies>

UNFCCC secretariat

UNFCCC Organigramme

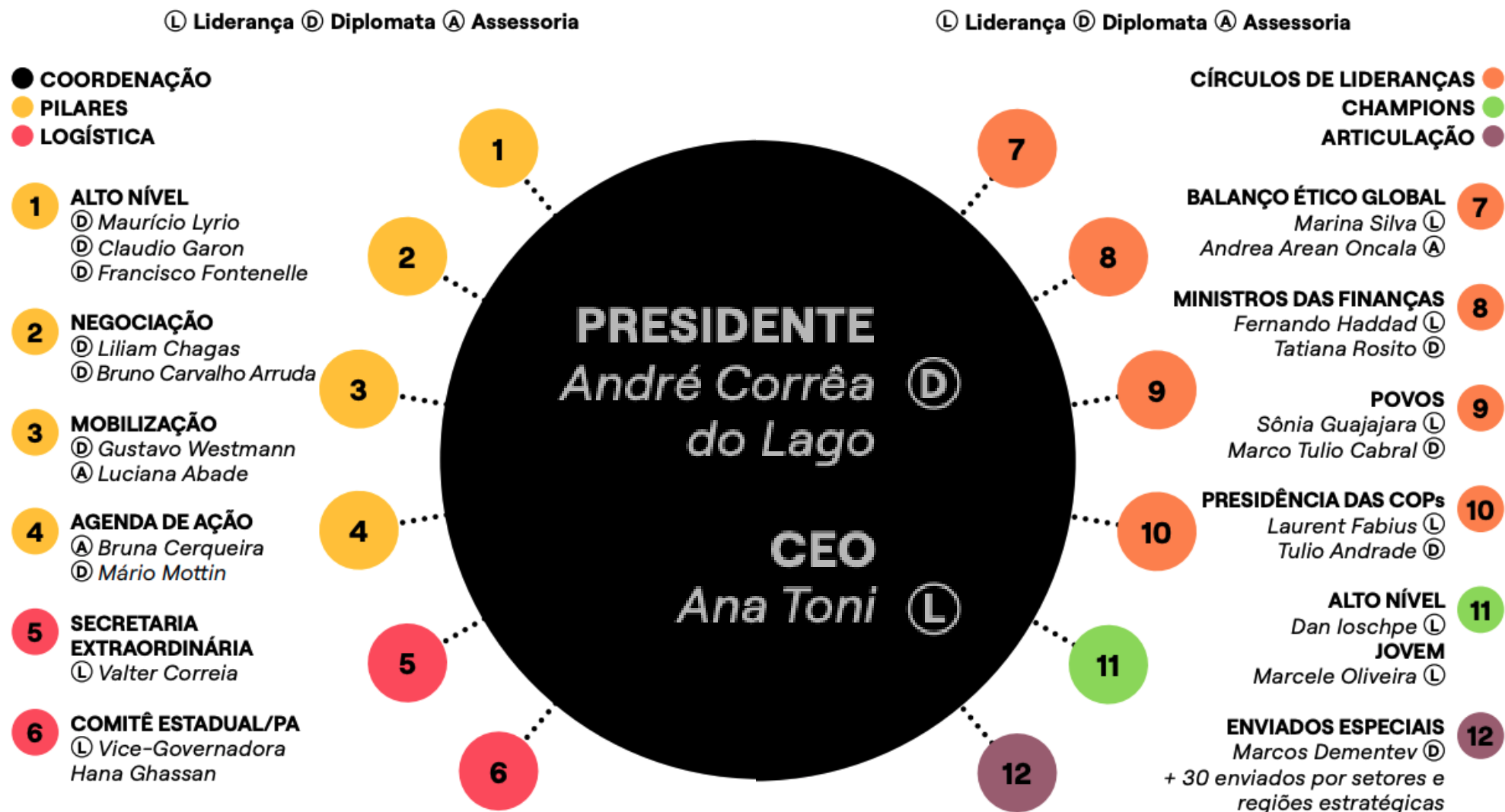


How UNFCCC negotiations work in practice: pre-COP



National level, in preparation for a COP

COP 30: Governance



COP 30: Presidency team

TIME DA PRESIDÊNCIA

ANDRÉ CORRÊA DO LAGO
Presidente



Nicola Speranza
Chefe de Gabinete



10

Tulio Andrade
Chefe de Estratégia e Alinhamento

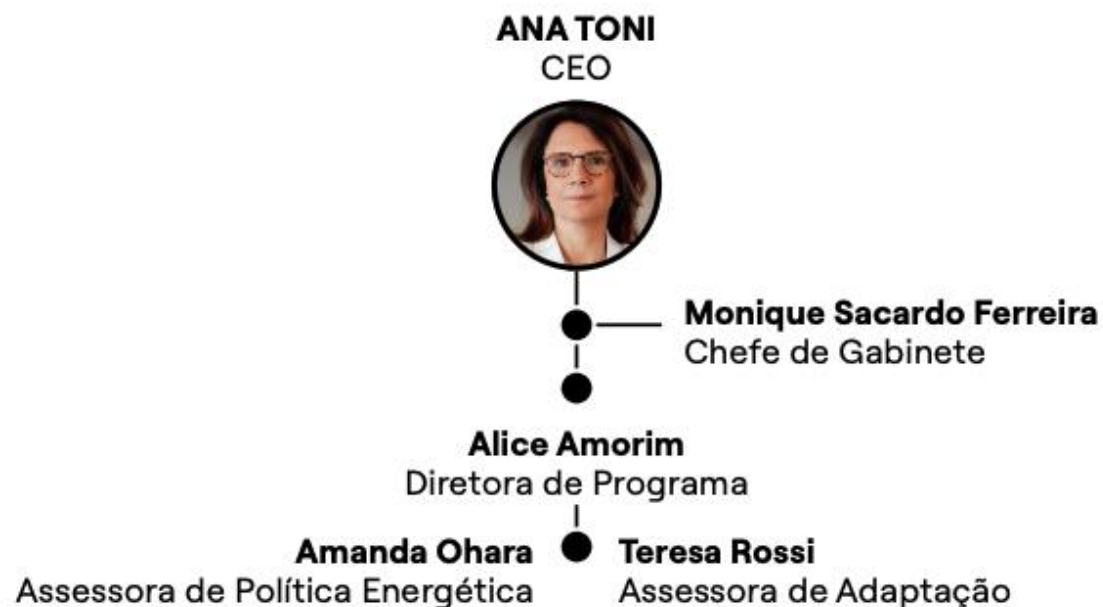
André Novo Viccini, assessor de estratégia e alinhamento
Vinicius Kuczera Zampier, assessor de estratégia e alinhamento
Guilherme do Prado Lima, assessor de relações institucionais
Rafael da Soller, assessor de temas transversais
George Almeida Margalho, assessor de planejamento
Conselho de Economia: José Alexandre Scheinkman
Conselho de Ciência do Clima: Thelma Krug
Conselho de Tecnologia e IA: A ser confirmado

Conselho de Adaptação:

Andreia Coutinho
Avinash Persaud
Ellen Johnson Sirleaf
Helen Clark
José Marengo
Jussara de Lima Carvalho
Natalie Unterstell
Sarah Ahmed
Vanessa Grazziotin
Virgílio Viana

COP 30: Presidency team

TIME DA PRESIDÊNCIA



- 4 — **Bruna Cerqueira**, coordenadora da agenda de ação
- 4 — **Barbara de Godoy**, assessora da agenda de ação
- 4 — **Luma Dias**, assessora para o plano de ação
 - Facilitador do eixo 1: **Jonas Kulakauskas**, energia e indústria
 - Facilitador do eixo 2: **Thaíssa Avena**, oceano e florestas
 - Facilitador do eixo 3: **Sami Sternberg**, agricultura e alimentos
 - Facilitador do eixo 4: **Maria Clara Nascimento**, resiliência urbana
 - Facilitador do eixo 5: **Rafaela Viana**, social
 - Facilitador do eixo 6: **Giovana Figueiredo**, transversais
- 3 — **Luciana Abade**, coordenadora de mobilização
- 3 — **Micaela Valentim**, assessora para mobilização (GST e Jovens)
- 3 — **Camilla Valadares**, assessora para mobilização Internacional
- 3 — **Eric Terena**, assessor para mobilização (Mutirão Global)
- 12 — **Marcos Dementev**, coordenador para enviados especiais
- 12 — **Carolina Hoffenberg**, assessora de eventos e assuntos culturais
- José Mauro O' de Almeida**, coordenador de parcerias e contratos
- Camilla Penna de Miranda Figueiredo**, assessora de parcerias
- Débora de Castro Leal**, assessora de parcerias
- Beatriz Sakuma Narita**, assessora de parcerias
- Isabel Cristina Schmidt**, coordenadora de protocolos e eventos
- Gabriel Joaquim**, assessor de assuntos culturais
- Riane Carvalho**, coordenadora de programa para a COP 30
- (vago)**, coordenação de comunicação
- André Aroeira Pacheco**, assessor para florestas

COP 30 special envoys

STRATEGIC REGIONS

- 1  **Adnan Amin**
• Oriente Médio 
- 2  **Arunabha Ghosh**
• Sul da Ásia 
- 3  **Carlos Lopes**
• África 
- 4  **Denis Minev**
• Setor privado amazônico 
- 5  **Jacinda Ardern**
• Oceania 
- 6  **Joaquim Belo**
• Sociedade civil amazônica 
- 7  **Jonathan Pershing**
• América do Norte 
- 8  **Laurence Tubiana**
• Europa 
- 9  **Patricia Espinosa**
• América Latina e Caribe 
- 10  **Xie Xenhua**
• Leste Asiático 

SECTORAL

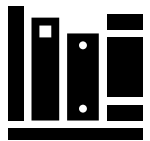
- 11  **André Guimarães** • Sociedade civil
- 12  **Beto Veríssimo** • Florestas
- 13  **Clemente Ganz** • Sindicatos
- 14  **Denise Dora** • Direitos humanos e transição justa
- 15  **Elbia Gannoum** • Energia
- 16  **Ethel Maciel** • Saúde
- 17  **Frederico Assis** • Integridade de informação
- 18  **Janja Lula da Silva** • Mulheres
- 19  **Jurema Werneck** • Igualdade racial e periferias
- 20  **Maguy Etlin** • Cultura e indústria criativa
- 21  **Marcelo Behar** • Bioeconomia
- 22  **Marcello Brito** • Governos subnacionais amazônicos
- 23  **Marina Grossi** • Setor empresarial
- 24  **Marinez Scherer** • Oceanos
- 25  **Maya Gabeira** • Esportes
- 26  **Paulo Petersen** • Agricultura familiar
- 27  **Philip Yang** • Soluções urbanas
- 28  **Roberto Rodrigues** • Agricultura
- 29  **Sérgio Xavier** • Fórum Brasileiro de Mudança do Clima
- 30  **Sineia do Vale** • Povos indígenas

Source: [Quem é Quem no time da COP30 \(Talanoa, 2025\)](#) / For the biography visit: <https://cop30.br/en/brazilian-presidency/special-envoys>

Quiz

Who can be part
of the Brazilian
delegation at
COPs?

How to be
nominated to be
a delegate
during COP?



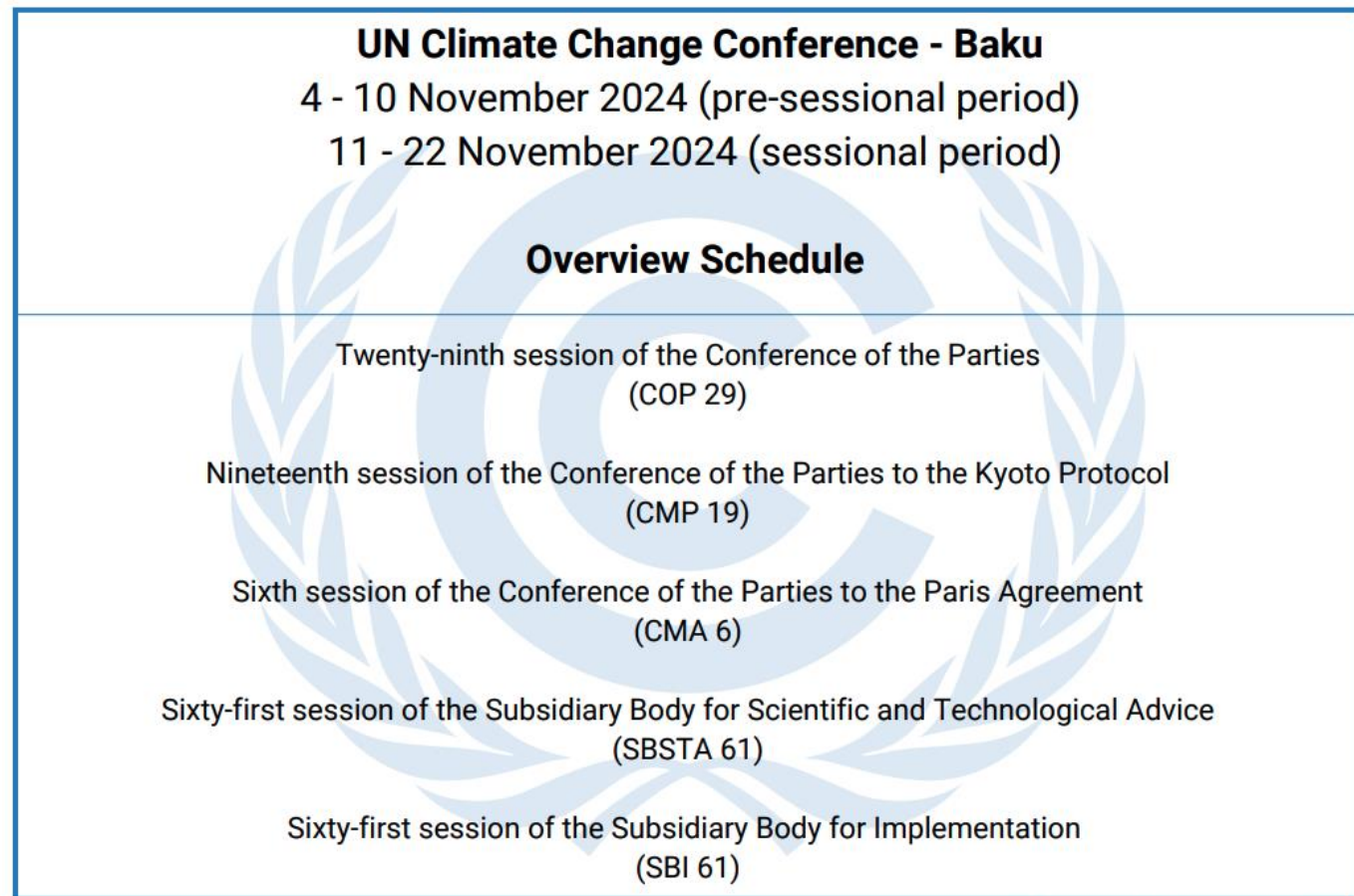
Suggested reading: [UNFCCC code of conduct](#)

Types of badges at COPs



- **Party overflow:** enables delegate to access the Blue Zone. While holders of a party overflow badge maintain access to most negotiations as an observer, they are not authorized to speak on behalf of the Party
- **UN Organizations:** Article 7, paragraph 6 of UNFCCC provides that the United Nations, its specialized agencies and the International Atomic Energy Agency, may be represented at sessions as observers
- **IGOs and NGOs:** have been admitted by the COPs as observers to the UNFCCC

How UNFCCC negotiations work in practice: general overview

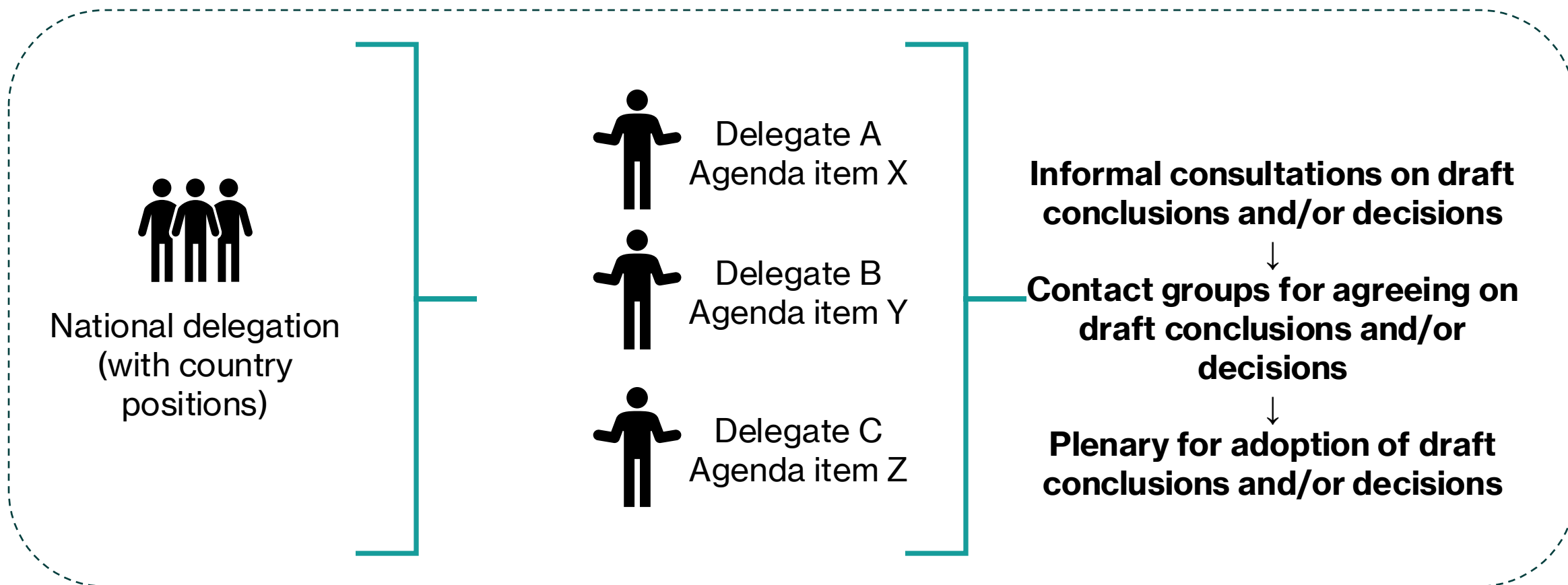


Version of 7 November 2024

How UNFCCC negotiations work in practice: general overview (2)

1. Opening plenary: COP, CMP, CMA, SBSTA and SBI
 - Adoption of the agenda: [provisional agenda](#) versus [adopted agenda](#)
2. Constitution of contact groups/informal consultations (lead by co-facilitators)
3. Schedule of contact group meetings / informal consultations
 - Draft conclusions
 - Draft decisions
4. Closing plenary: SBSTA and SBI (first week) COP, CMP and CMA (second week)
 - Adoption of conclusions and decisions

How UNFCCC negotiations work in practice: during COP



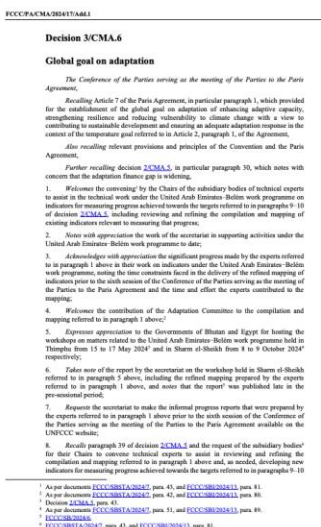
Understaining SBs conclusions and COP/CMA decisions

SBSTA CONCLUSION



Suggested reading: [SBSTA 61 conclusion on research and systematic observation](#)

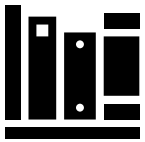
CMA DECISION



Suggested reading: [Decision 3/CMA.6 on Global goal on adaptation](#)

COP 30 Presidency letters

- [First letter \(March 10\)](#)
- [Second letter \(May 8\)](#)
- [Third letter \(May 23\)](#)
- [Fourth letter \(June 20\)](#)
- [Fifth letter \(August 12\)](#)
- [Sixth letter \(August 19\)](#)
- [Seventh letter \(August 29\)](#)



Suggested reading: [COP 30 Presidency letters](#)



Embassador **André Corrêa do Lago**
President of COP30

Overview of key agenda items for COP 30



United Nations
Framework Convention on
Climate Change

ADVANCE VERSION

FCCC/SBSTA/2025/5

Distr.: General
5 September 2025

Original: English

Subsidiary Body for Scientific and Technological Advice

Sixty-third session
Belém, 10–15 November 2025
Item 2(a) of the provisional agenda

Organizational matters
Adoption of the agenda

Provisional agenda and annotations

Note by the Executive Secretary*,¹

I. Provisional agenda²

1. Opening of the session.
2. Organizational matters:
 - (a) Adoption of the agenda;
 - (b) Election of officers other than the Chair;
 - (c) Organization of the work of the session;
 - (d) Mandated events.
3. Matters relating to the global stocktake: procedural and logistical elements of the overall global stocktake process.*
4. Research and systematic observation.
5. Matters relating to adaptation:
 - (a) Global goal on adaptation;*
 - (b) Report of the Adaptation Committee;*
 - (c) Review of the progress, effectiveness and performance of the Adaptation Committee.*
6. Warsaw International Mechanism for Loss and Damage associated with Climate Change Impacts:
 - (a) Joint annual report of the Executive Committee of the Warsaw International Mechanism for Loss and Damage associated with Climate Change Impacts and the Santiago network for averting, minimizing and addressing loss and damage associated with the adverse effects of climate change;*

* This document was submitted to the conference services for processing after the deadline owing to the need for internal consultations.

¹ The Abbreviations and acronyms list can be found at the end of the document.

² Joint SBSTA 63-SBI 63 agenda items are marked with an asterisk.



United Nations
Framework Convention on
Climate Change

ADVANCE VERSION

FCCC/PA/CMA/2025/1

Distr.: General
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Conference of the Parties serving as the meeting of the Parties to the Paris Agreement

Seventh session
Belém, 10–21 November 2025
Item 2(a) of the provisional agenda

Organizational matters
Adoption of the agenda

Provisional agenda and annotations

Note by the Executive Secretary*,¹

I. Provisional agenda

1. Opening of the session.
2. Organizational matters:
 - (a) Adoption of the agenda;
 - (b) Election of additional officers;
 - (c) Organization of work, including for the sessions of the subsidiary bodies;
 - (d) Approval of the report on credentials.
3. Reports of the subsidiary bodies:
 - (a) Report of the Subsidiary Body for Scientific and Technological Advice;
 - (b) Report of the Subsidiary Body for Implementation.
4. Matters relating to the global stocktake:
 - (a) Procedural and logistical elements of the overall global stocktake process;
 - (b) Reports for 2024 and 2025 on the annual global stocktake dialogue referred to in paragraph 187 of decision 1/CMA.5.
5. United Arab Emirates just transition work programme.
6. Sharm el-Sheikh mitigation ambition and implementation work programme.
7. Reporting and review pursuant to Article 13 of the Paris Agreement: provision of financial and technical support to developing country Parties for reporting and capacity-building.
8. Matters relating to adaptation:

* This document was submitted to the conference services for processing after the deadline owing to the need for internal consultations.

¹ The Abbreviations and acronyms list is at the end of the document.



Suggested reading: [SBSTA 63 Agenda](#)



Suggested reading: [CMA 7 Agenda](#)

Earth Information Day

- **Earth Information Day** provides a platform for dialogue, enabling the exchange of information on the state of the global climate system and advancements in systematic observation



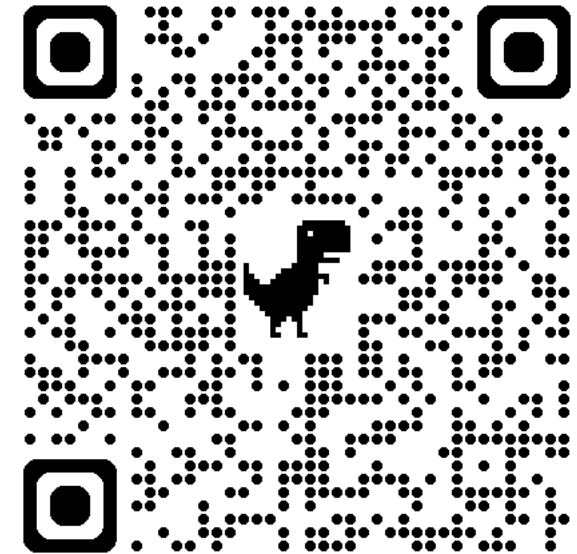
Key messages, Earth Information Day 2024

1. The year 2024 was on track to being the warmest year on record, with global mean surface temperature of $1.54 \pm 0.13^\circ\text{C}$, and the last ten years, 2015-2024 have been the warmest decade on record. However, sustained observations over time indicate that warming has not reached the Paris Agreement long-term temperature goal.
2. Global GHG concentrations, based on the three key GHGs of CO_2 , CH_4 , and N_2O , reached record observed levels in 2023 at approximately 420 ppm, 1934 ppb and 336.9 ppb respectively.
3. Sea level continues to rise, at 4.77 mm per year, ocean heat content is increasing and glacier mass loss is accelerating, including as reflected by the low Antarctic and Arctic Sea ice extent in 2024. Ocean heat content was the highest on record in 2023.
4. EWS coverage remains low in the global south, particularly in SIDS and LDCs, however progress has been made, including under the EW4ALL initiative to bridge the gaps, with over half of the countries having MHEWS.
5. Advancements are being made in innovation and technologies for advancing Earth observations through, for instance, AI, Machine Learning and other novel methods and there is need to enhance the deployment of fit-for-purpose and scalable solutions.
6. Sustained long-term observations and monitoring as well as historical data sharing is key to effectively informing climate policy and action. Countries are encouraged to support efforts to increase monitoring capacity and close observational gaps in under observed regions.
7. Financing, including through innovative financing models, for Earth observations is critical to filling observation gaps as well as ensuring a country's compliance with GBON. The SOFF is providing long-term open-ended support to countries to enhance Earth observation.

Quiz

What are your
expectations for
COP 30?

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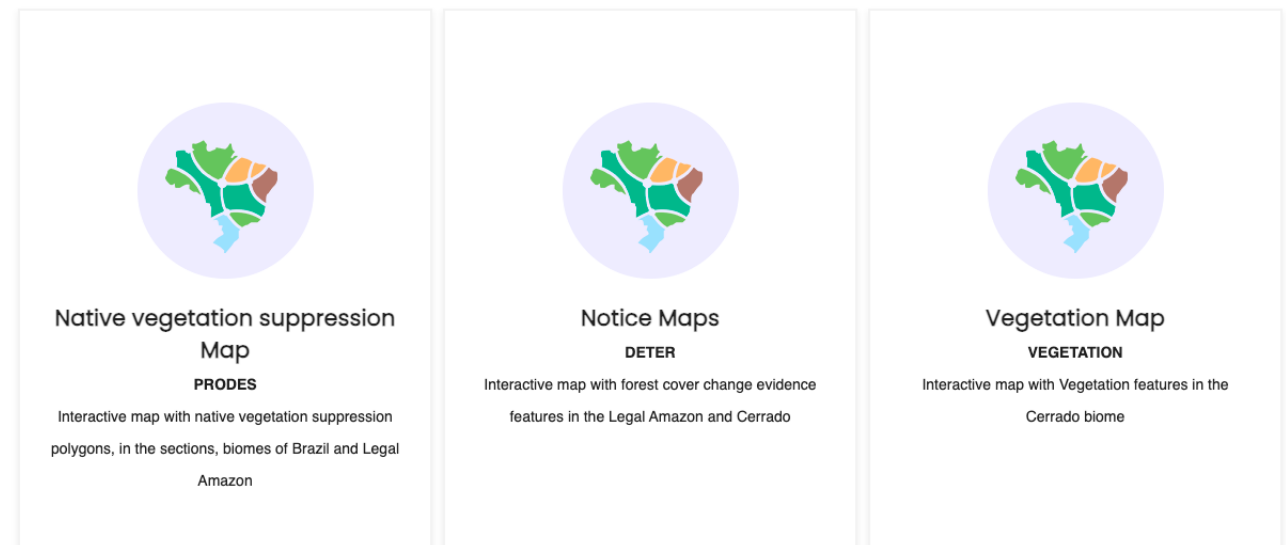


The role of space science and technology in tracking Paris Agreement implementation

- According to paragraph 20 of [Decision 18/CMA.1](#) (ETF MPGs):
 - Each Party shall use the [2006 IPCC Guidelines](#) (GL) and shall use any subsequent version or refinement of the IPCC guidelines agreed upon by the CMA
 - Each Party is encouraged to use the [2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands](#)
- [Chapter 3 of Volumen 4 of the 2006 IPCC GL](#) Parties require to use the following **land-use categories** for estimating and reporting GHG emissions and removals from land use and land-use conversions:
 - Forest land
 - Cropland
 - Grassland
 - Wetlands
 - Settlements
 - Other land

The role of space science and technology in tracking Paris Agreement implementation – Brazil case study

- Land-use and land-cover conversion matrices are obtained from cross-referencing the maps of all Brazilian biomes for the years of 1994, 2002, 2005 (for the Amazon only), 2010 and 2016
- Maps are based on images from the Landsat and Resourcesat-1 satellites at a scale of 1:250,000 and a minimum area of 6 ha
- Deforestation rates reported by the National Institute for Space Research (INPE) for the Amazon and Cerrado biomes are used for the annualization of gross CO₂ emissions between the mapped years

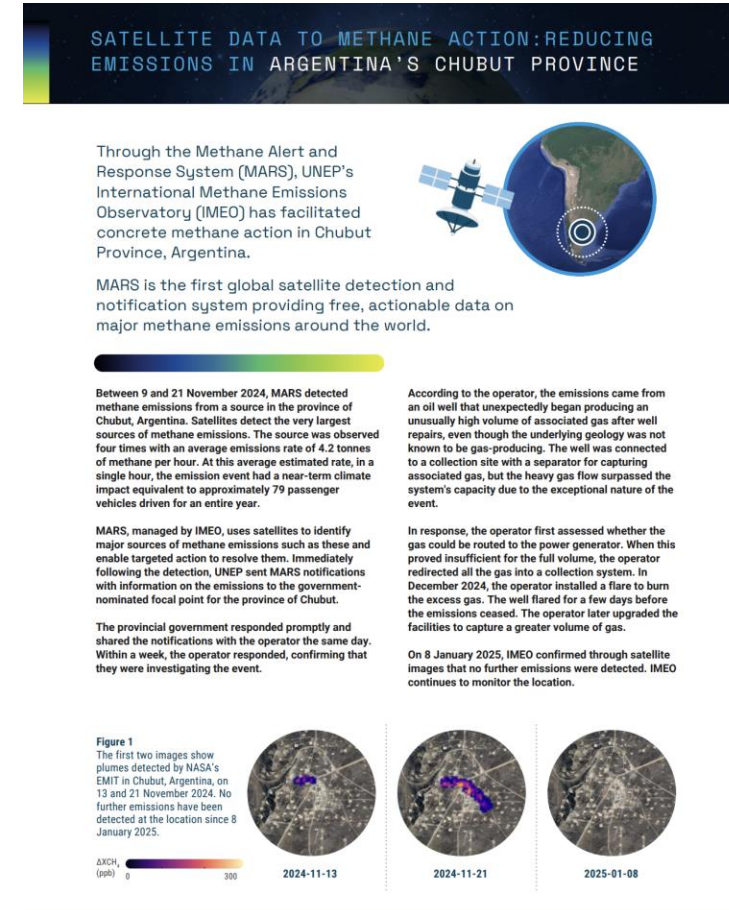


The role of space science and technology in tracking Paris Agreement implementation (2)

- According to paragraph 65 [Decision 18/CMA.1](#) (ETF MPGs):
 - Each Party shall identify the **indicator(s)** that it has selected to track progress towards the implementation and achievement of its NDC under Article 4
 - Indicators shall be relevant to a Party's NDC under Article 4 and may be either qualitative or quantitative
- Space science and technology may be used to collect the necessary annual information/data of the indicator(s) identified
 - Areas of forest (hectares)
 - Soil carbon
 - Other examples?

IMEO's Methane Alert and Response System (MARS)

- UN Environment Programme launched MARS at COP27 in 2022
- First public global satellite detection and notification system providing actionable data on very large methane emissions around the world
- [Cases studies](#)



G20 Space Economy

- South Africa hosted the G20 in 2025
- South African National Space Agency will host a series of meetings for the Space20 engagement group
 - Focus on “leveraging space technology as a driver of inclusive and sustainable development within the G20 countries”
- G20 Heads of Space Agencies will prioritize the following:
 - Policy Alignment for Development Goals
 - Public-Private Collaboration and Knowledge Transfer
 - Capacity Building and Inclusivity
 - Sustainable Space Operations



To know more visit: <https://selm6.org.za/>

Q&A



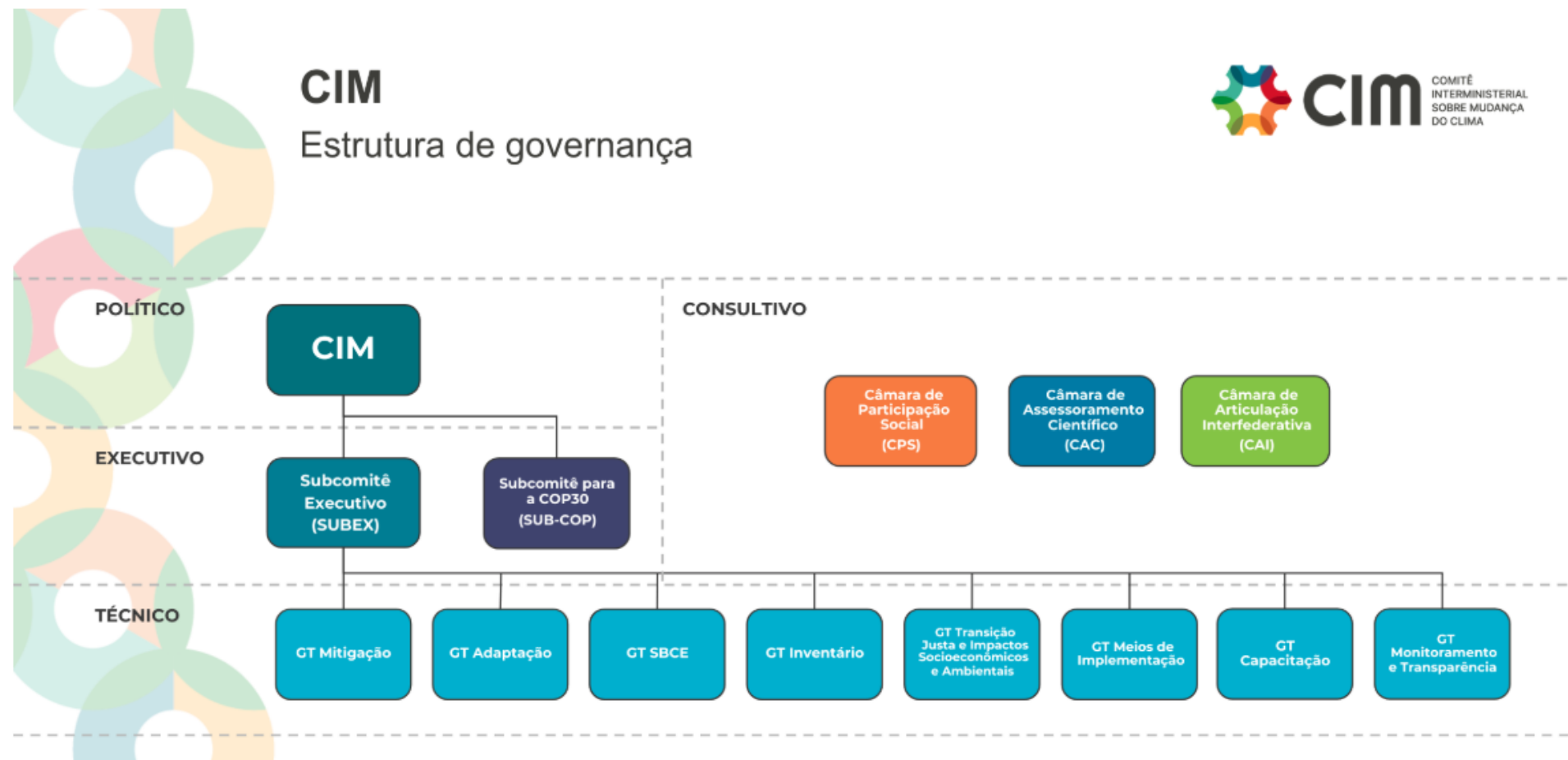
Module 3

Brazil's Climate Commitments & Challenges

Learning objectives

- At the end of this module participants will be able to understand Brazil's:
 - Climate change governance
 - Mitigation targets under the Paris Agreement
 - Major climate change vulnerabilities
 - Strengths, weaknesses and opportunities for leadership in climate change negotiations

Institutional players in Brazil's climate change governance

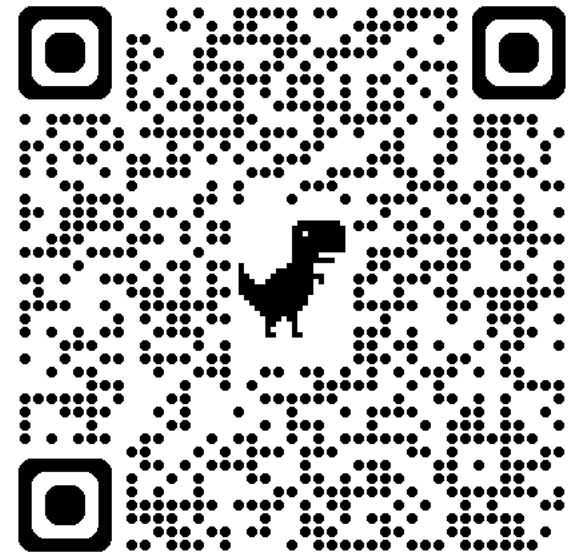


Source: [Brazil CIM](#)

Quiz

Has AEB been involved direct/indirect involved in the Brazilian climate change governance?

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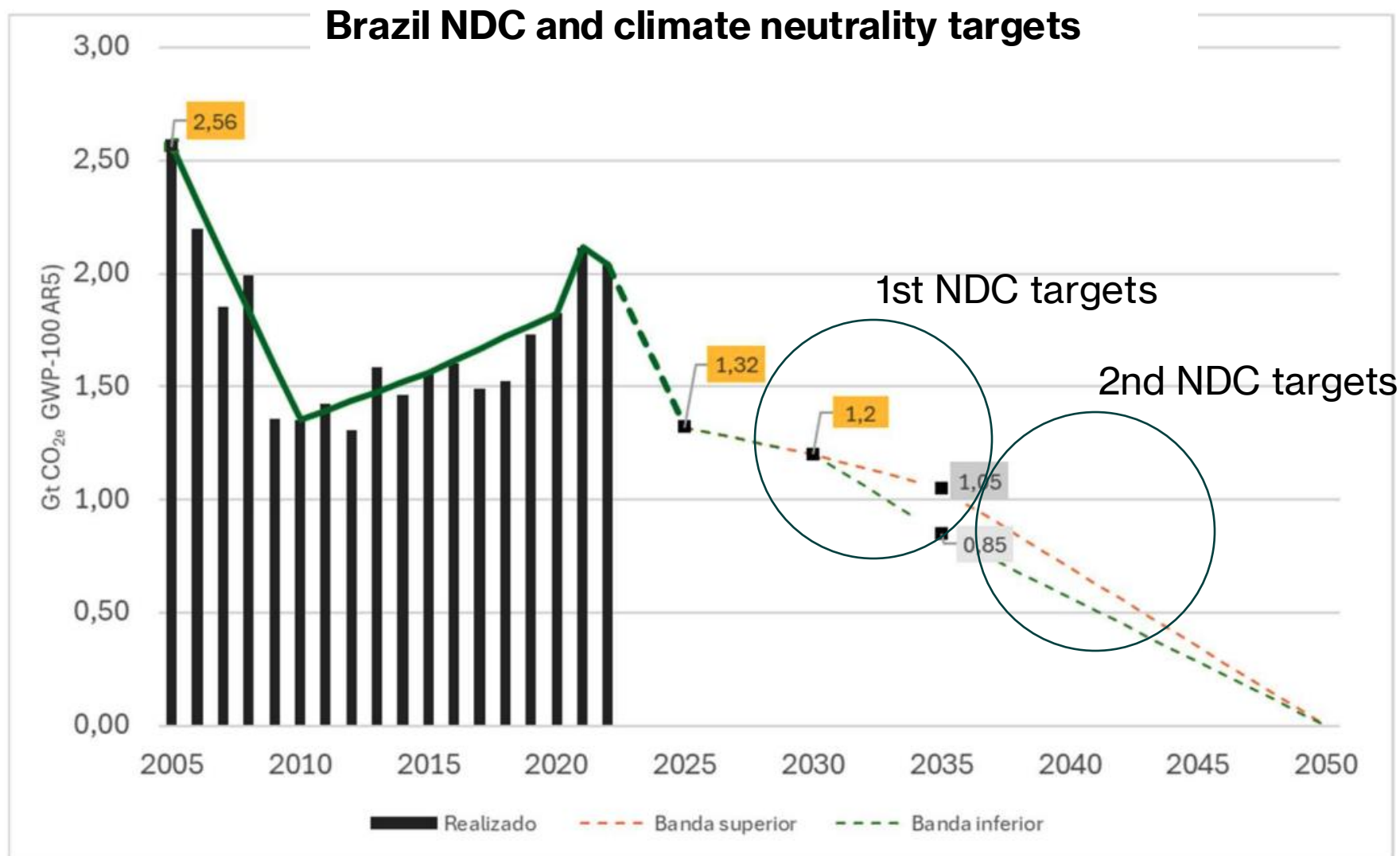


Scientific Advisory Chamber (CAC)

- Main role is to ensure climate policies formulation and implementation are guided by the best available scientific evidence and knowledge
- Responsibilities:
 - Propose recommendations for the development, improvement, and implementation of climate change policies and instruments
 - Provide technical assistance with data, studies, and scientific information to support planning and decision-making
 - Promote public awareness and scientific dissemination on the causes, effects, and solutions to the climate crisis
- Formed by experts from the scientific community with a two-year mandate, renewable for another two years

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JAVIER TOMASELLA	INPE	Titular
VERA LUCIA ANTUNES DE LIMA	UFCG	Suplente

Brazil's NDCs and net-zero targets



Source: [Brazil National Mitigation Strategy](#)

Brazil's NDCs and net-zero target

Mitigação: planos setoriais

Escopo mínimo:

- I. Contexto setorial de mitigação
- II. Objetivos e prioridades setoriais de mitigação
- III. Metas setoriais de mitigação para 2030 e metas indicativas para 2035
- IV. Ações, programas e medidas específicas para o alcance das metas, incluindo as respectivas metas, indicadores, custos, fontes de financiamento e outros meios de implementação
- V. Propostas de revisão do arcabouço normativo setorial visando alinhamento aos objetivos, prioridades e metas setoriais de mitigação
- VI. Governança para a gestão, monitoramento e avaliação do plano setorial, incluindo mecanismos de participação e transparência

Planos Setoriais:

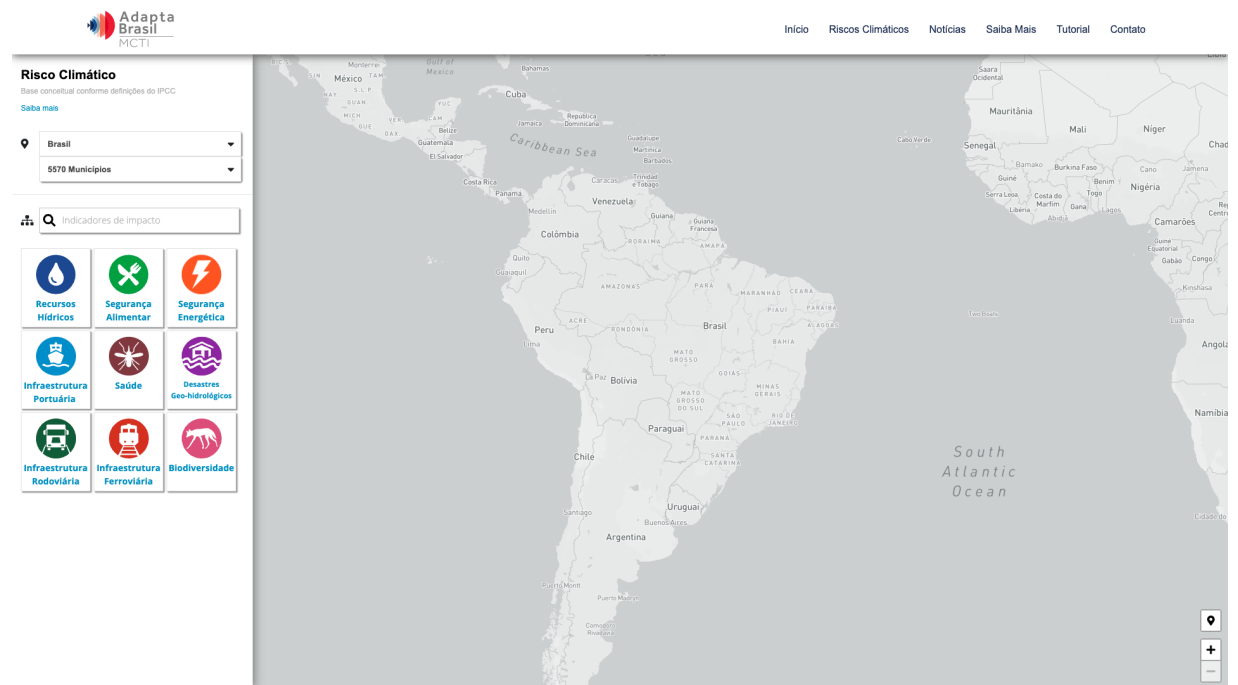
1. Agricultura e Pecuária
2. Conservação da Natureza
3. Cidades, incluindo Mobilidade Urbana
4. Energia, incluindo Mineração
5. Indústria
6. Resíduos Sólidos e Efluentes Domésticos
7. Transportes

Os Planos de Ação de Mitigação trarão:

- I. Ações Impactantes
- II. Ações Estruturantes
- III. Metas 2024-2027 / 2028-2031 / 2032-2035

Brazil's climate change vulnerabilities

- [AdaptaBrasil MCTI](#) (Climate Change Impact Information and Analysis System) was established by the Ministry of Science, Technology and Innovation, through Ordinance No. 3,896, of October 16, 2020
- Aims to consolidate, integrate and disseminate information that enables the analyses of climate change impacts (observed and projected) in the national territory, providing subsidies to the competent authorities for adaptation actions
- AdaptaBrasil MCTI is developed through cooperation between the National Institute for Space Research (INPE) and the National Research and Education Network (RNP)



Brazil's climate change vulnerabilities

- At **AdaptaBrasil**, climate risk combines three factors:
 1. **Climate threat:** the possibility of extreme events, such as heavy rains, floods, or droughts, capable of causing economic losses, environmental impacts, or even putting lives at risk;
 2. **Exposure:** the existence of elements to which the climate threat can cause damage, whether people, species, ecosystems, or infrastructure; and
 3. **Vulnerability:** indicates an area's predisposition to be affected by climate change impacts. It is composed of:
 - Sensitivity: the extent to which the area can be immediately affected by the climate threat; and
 - Adaptive Capacity: the ability to prepare for, react to, and adapt to the climate threat, either by preventing risks or reducing impacts after they occur.
- The **Climate Risk Index** is calculated for each sector and municipality in Brazil

Brazil's climate change vulnerabilities

Adapta Brasil
MCTI

Início Riscos Climáticos Notícias Saiba Mais Tutorial Contato

Risco Climático
Base conceitual conforme definições do IPCC

[Saiba mais](#)

📍 **Brasil** ▼
5570 Municípios ▼

🔍 Indicadores de impacto

 Recursos Hídricos	 Segurança Alimentar	 Segurança Energética
 Infraestrutura Portuária	 Saúde	 Desastres Geo-hidrológicos
 Infraestrutura Rodoviária	 Infraestrutura Ferroviária	 Biodiversidade



<https://sistema.adaptabrasil.mcti.gov.br/>

Brazil's overall strengths and weaknesses in climate change negotiations

STRENGTHS

- Long tradition on climate change diplomacy, starting at Rio 92
 - Most of the time looking for “landing zones”
- Well prepared delegations
- Wide representation of civil society, private sector and academia in the delegations

WEAKNESSES

- Recent bi-polarism (not radical as in other countries)
- Potential criticism on “walking the talking” (e.g., oil exploration at the Equatorian margin)
 - Associated with level of urgency of other socio-economic demands

Brazil's overall opportunities for leadership in climate change negotiation

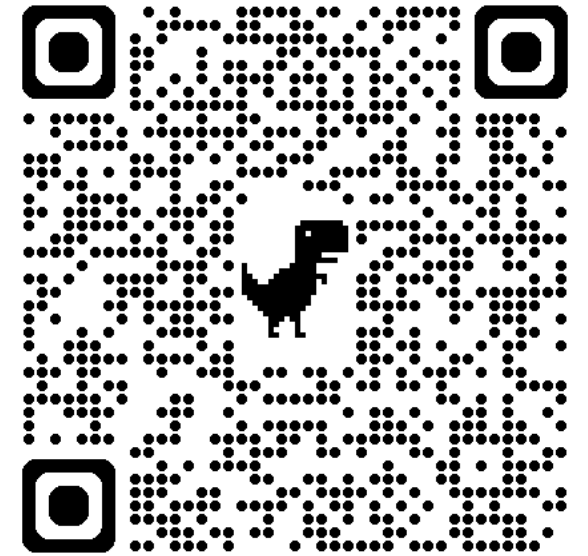
- In the past Brazil played a key role on reaching agreements:
 - [Kyoto Protocol](#) and the [Clean Development Mechanism \(CDM\)](#)
 - [Establishment of an Ad Hoc Working Group on the Durban Platform for Enhanced Action](#) (that lead to the Paris Agreement)
 - [Modalities, procedures and guidelines](#) (MPGs) for the Enhanced Transparency Framework (ETF) of the Paris Agreement
- As the first time as COP Presidency, Brazil will need “strong political leverage” to overcome the challenges impose by the current geo-political and economic momentum

Quiz

Do you foresee COP 30 as “the moment we turn the game around” (“Brazil believes we can win by “virada”)?



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Q&A

Additional Resources

Free Online UN Climate and Sustainability Courses

- [The Paris Agreement on Climate Change as a Development Agenda](#)
- [Integration of the SDGs into National Planning](#)
- [Green Marketing Challenge](#)
- [Impact Measurement & Management for the SDGs](#)*
- [Applying Integrated Policy Approaches to Accelerate the 2030 Agenda](#)
- [Digital4Sustainability Learning Path](#)
- [What is the Net-Zero Standard](#)
- [Setting Science-Based Targets to Achieve Net-Zero](#)*
- [Mastering International Climate Negotiations: All You Need to Know](#)
- Please visit our webpage for more info: [Masterclass](#)

*Available in Portuguese



Additional Resources

Technical Courses

- [ESA Climate Training and Education](#)
- [NASA Applied Remote Sensing Training Program](#)
- [ECMWF Learning](#)



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