

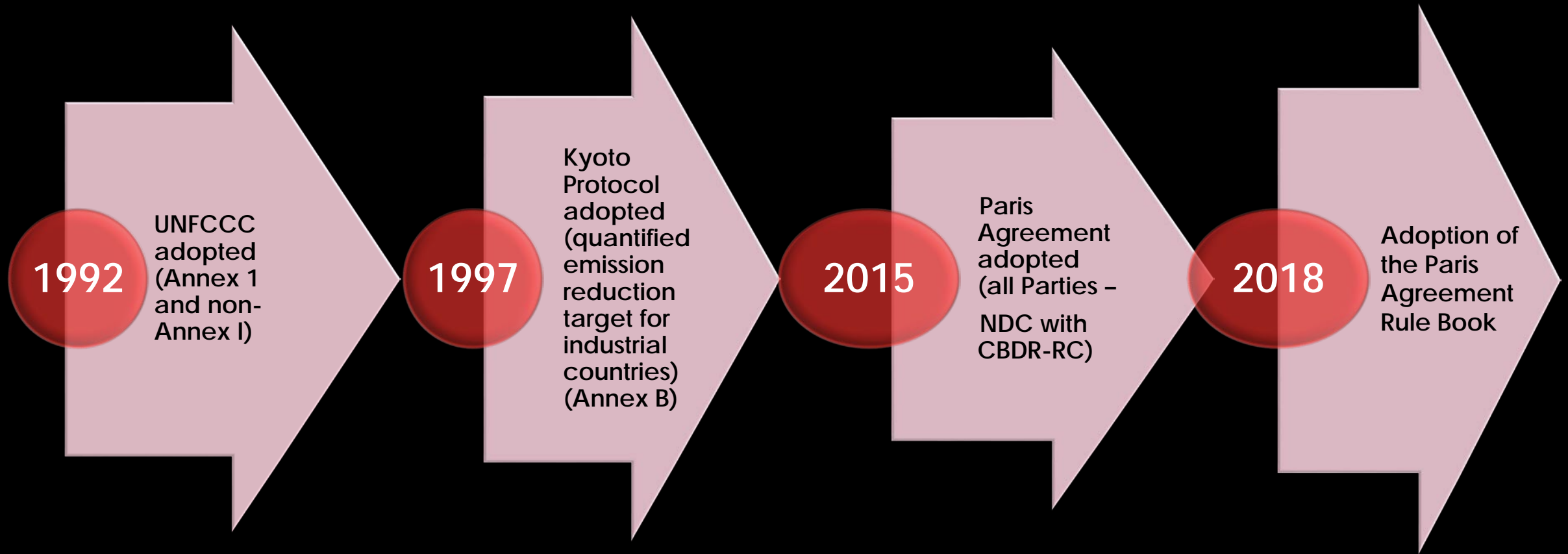
ROLES OF RESEARCH COMMUNITIES FOR LOW CARBON DEVELOPMENT AND CLIMATE CHANGE RESPONSES

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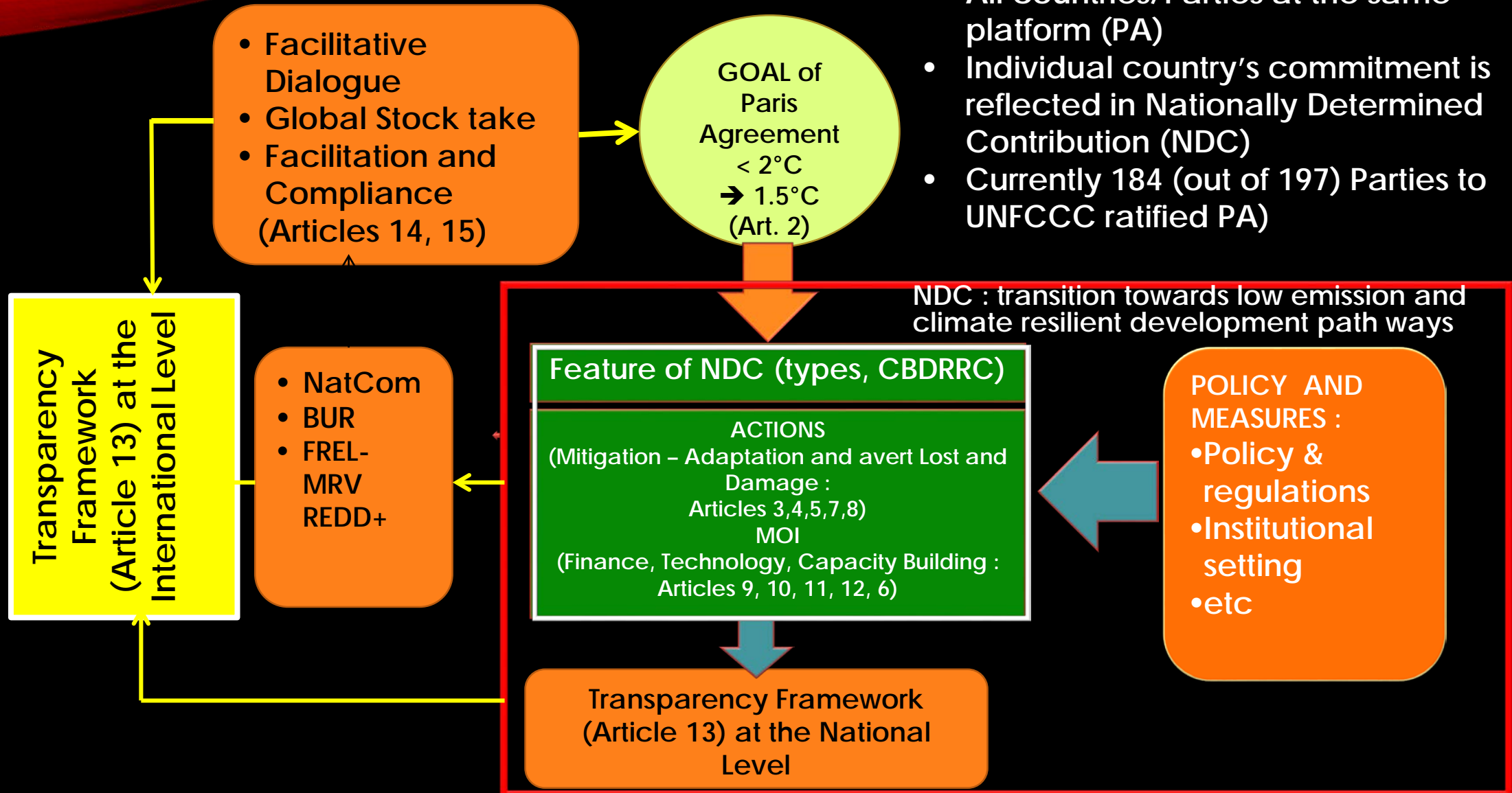
UNFCCC PROCESS



KEY ELEMENTS OF THE PARIS AGREEMENT

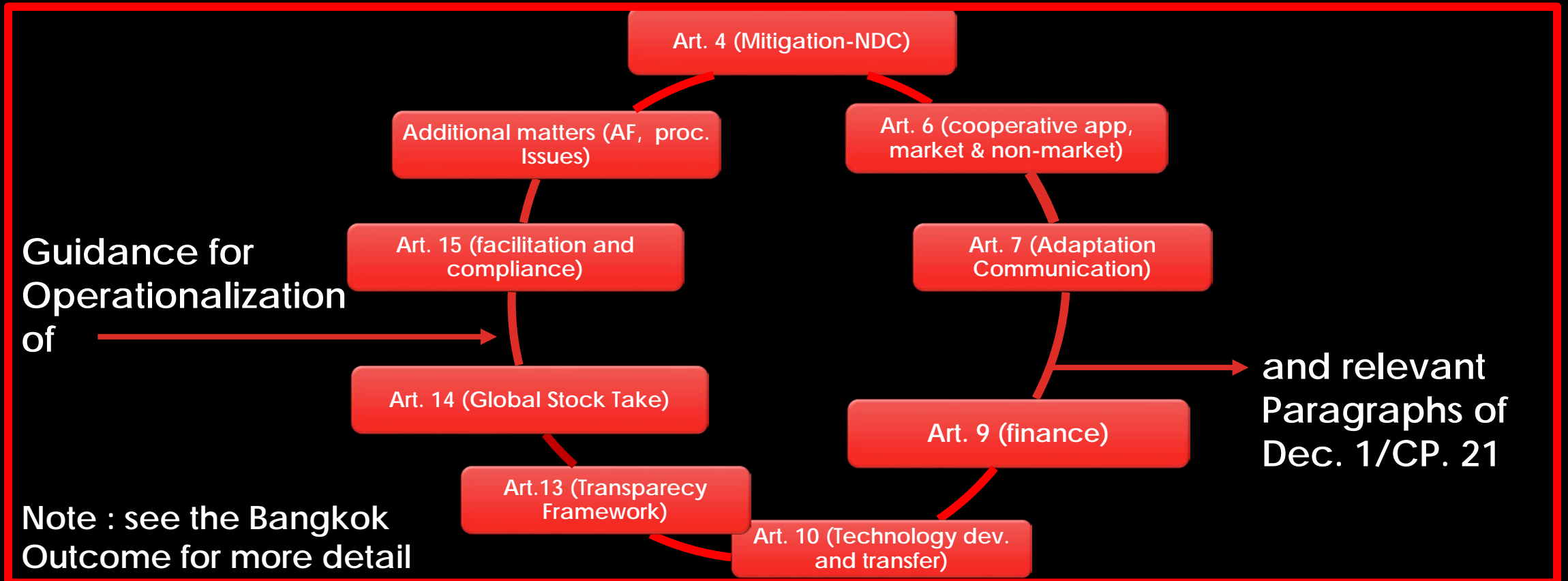
- ◆ **Long-term temperature goal** (Art. 2) – limiting global temperature increase to well below 2°C, while pursuing efforts to limit the increase to 1.5°C.
- ◆ **Climate resilience and low GHGs emission development**, and making **finance flow** consistent with LECRD pathway (Art.2).
- ◆ Contribution to the global response to climate change (**NDC** – represent **progression of efforts over time**), recognizing support's needs of developing countries (Art. 3).
- ◆ **Global peaking** (Art. 4) –global peaking of GHGs emissions as soon as possible (longer time for developing country Parties), to achieve a **balance** between anthropogenic **emissions** by sources and **removals** by sinks of GHGs in the **second half of the century**.

PARIS AGREEMENT AND THEIR IMPLEMENTATION AT THE GLOBAL AND NATIONAL LEVELS



- All countries/Parties at the same platform (PA)
- Individual country's commitment is reflected in Nationally Determined Contribution (NDC)
- Currently 184 (out of 197) Parties to UNFCCC ratified PA

PARIS AGREEMENT RULE BOOK



SUBSTANTIVE ELEMENTS OF THE PA RULE BOOK : Article 4 (Mitigation-NDC) and relevant paragraphs in Dec. 1/CP. 21

- Further guidance relating to NDC (feature, ICTU, accounting)
- Modalities and procedures for the operation and use of a public registry for mitigation.
- Common time frames for NDC.
- Response measures (modalities, work programme and functions of the forum on the impact of the implementation of RM under PA).

SUBSTANTIVE ELEMENTS OF THE PA RULE BOOK : Article 6 and relevant paragraphs in Dec. 1/CP. 21

- ❑ **Guidance** on cooperative approaches in NDC implementation (Article 6.2 : to allow higher ambition in mitigation and adaptation, SD, environmental integrity)
- ❑ **Rules, modalities and procedures** for the mechanism established by Article 6.4 (note : to contribute to mitigation of GHGs and support SD).
- ❑ **Work programme** under the framework for non-market approaches (Article 6.8 : to assist NDC implementation in the context of SD and poverty eradication).

SUBSTANTIVE ELEMENTS OF THE PA RULE BOOK : Article 7 (Adaptation) and relevant paragraphs in Dec. 1/CP. 21

- ❑ **Further guidance** on adaptation communication (incl. as a component of NDC),
- ❑ **Modalities and procedures** for the operation and use of a public registry,
- ❑ Matters relating to mandate to AC and LDCE, AC, AC and LDCE – SCF to develop relevant **methodologies** (Dec. 1/CP.21 Para 41, 42, 45).

SUBSTANTIVE ELEMENTS OF THE PA RULE BOOK : Article 9 (Finance) and relevant paragraphs in Dec. 1/CP. 21

- ❑ Information to be provided by Parties in accordance with Article 9.5 (public finance resources provided by developed countries).
- ❑ Modalities for the accounting of financial resources provided and mobilized through public interventions in accordance with Article 9.7 (link to TF).
- ❑ CMA 1/ matters relating to the Adaptation Fund.

SUBSTANTIVE ELEMENTS OF THE PA RULE BOOK : Article 10 (Technology dev. and transfer) and relevant paragraphs in Dec. 1/CP. 21

- Scope of and modalities for the periodic assessment of the Technology Mechanism.**
- Technology framework to provide guidance to the work of Technology Mechanism.**

SUBSTANTIVE ELEMENTS OF THE PA RULE BOOK : Article 13 (Transparency Framework) and relevant paragraphs in Dec. 1/CP. 21

- ❑ Modalities, procedures, and guidelines (MPG) for the transparency framework for action (incl. GHGs inventory report, mitigation, CC impacts and adaptation, Technical Expert Review) and support (needed and provided : finance, technology, capacity building).**
- ❑ The MPGs contains many technical/scientific elements, which has to be applicable to all parties with diverse capacities.**

SUBSTANTIVE ELEMENTS OF THE PA RULE BOOK : Article 14 (Global Stocktake) and relevant paragraphs in Dec. 1/CP. 21

- ❑ Source of inputs for global stocktake.
- ❑ Modalities for global stocktake.

SUBSTANTIVE ELEMENTS OF THE PA RULE BOOK : Article 15 (facilitation and compliance) and relevant paragraphs in Dec. 1/CP. 21

- ❑ Modalities and procedures for the effective operation of the committee to facilitate implementation and promote compliance.

OPPORTUNITIES FOR RESEARCH COMMUNITIES : strategic areas

- ❑ Implementation of the PA rule book : PA rule book will be adopted by CMA 1 (1.3)/COP-24 Katowice → many substantive elements of the rule book will need further research, technology development and capacity enhancement.
- ❑ Inputs to Global Stock Take 2023 and beyond.
- ❑ Capacity Building Initiative for transparency, as part of the enhanced transparency framework (TF) : modalities, procedures and guidelines of TF (Article 13) is build upon and eventually supersede MRV system established by decision 1/CP.16 and decision 2/CP.17.

OPPORTUNITIES FOR RESEARCH COMMUNITIES : support for long-term climate actions

- Paris Agreement's goal requires transformation towards low carbon and climate resilient development pathway, taking into account CBDR-RC principles and the needs of support (finance, capacity building, technology transfer) for developing countries.
- Preparation of long-term development strategy which consistent with LCCRD pathway, requires engagement of all relevant stakeholders and considerable investment, and involves multi-disciplinary analysis/research → wide spectrum of opportunities for research communities to play significant roles in supporting both international process/global efforts and national actions.

CHALLENGES REMAIN

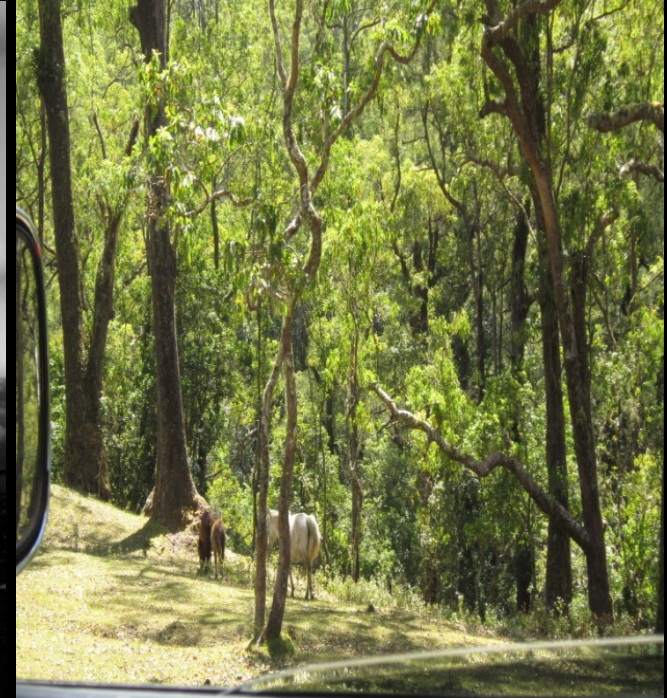
Opportunities for research communities to contribute to the achievement of PA's goal are increasing, however, have the following challenges been successfully addressed ? :

- ❑ Lack of linkages between research programme/activities and the needs for decision making and planning processes.
- ❑ Gaps in capacity and resource between scientists in developed and developing countries, which affect significantly participation of developing countries' scientists at the global level (e.g. in IPCC processes)

CLOSING REMARKS

- ❑ Implementation of Paris Agreement needs strong scientific basis and enhanced capacity especially in developing countries, hence, increasing opportunity for research communities to contribute.
- ❑ Improving coherence between research program/activities and the needs for decision making and planning process is a key,
- ❑ Enhance collaboration at all levels (national, regional, and global) and effectiveness of science-policy dialogue is a necessity to address challenges and to strengthen collective efforts.

THANKYOU



passion & integrity

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