

The importance of GCOS for the UNFCCC and its Paris Agreement

GCOS Joint Panels Meeting

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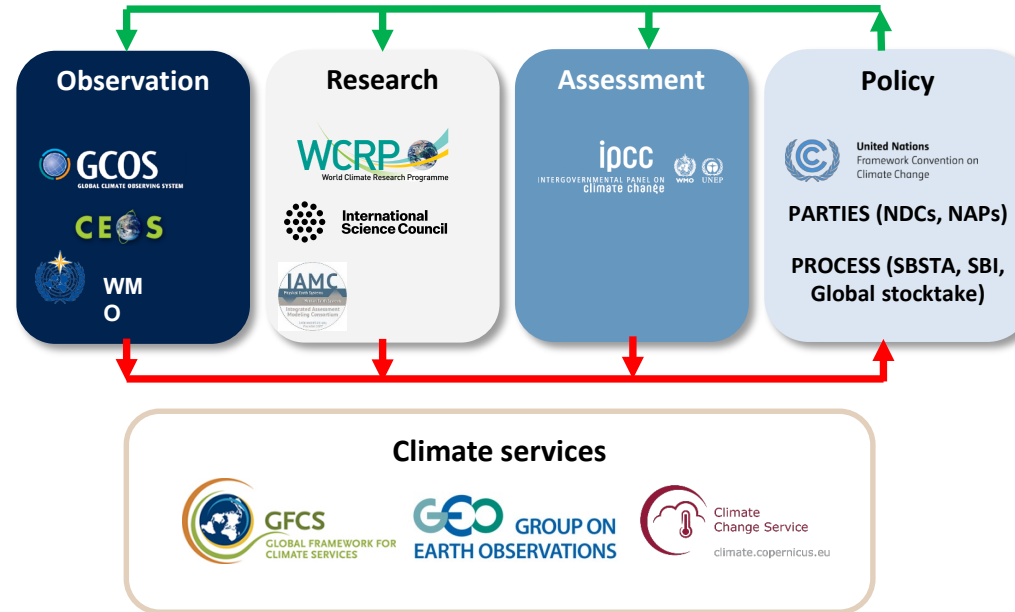
Systematic observation is foundation of decision making

Science under the Convention and Paris Agreement

Article 4.1(g) Commitments
Article 5 Research and systematic observation
Paris Agreement

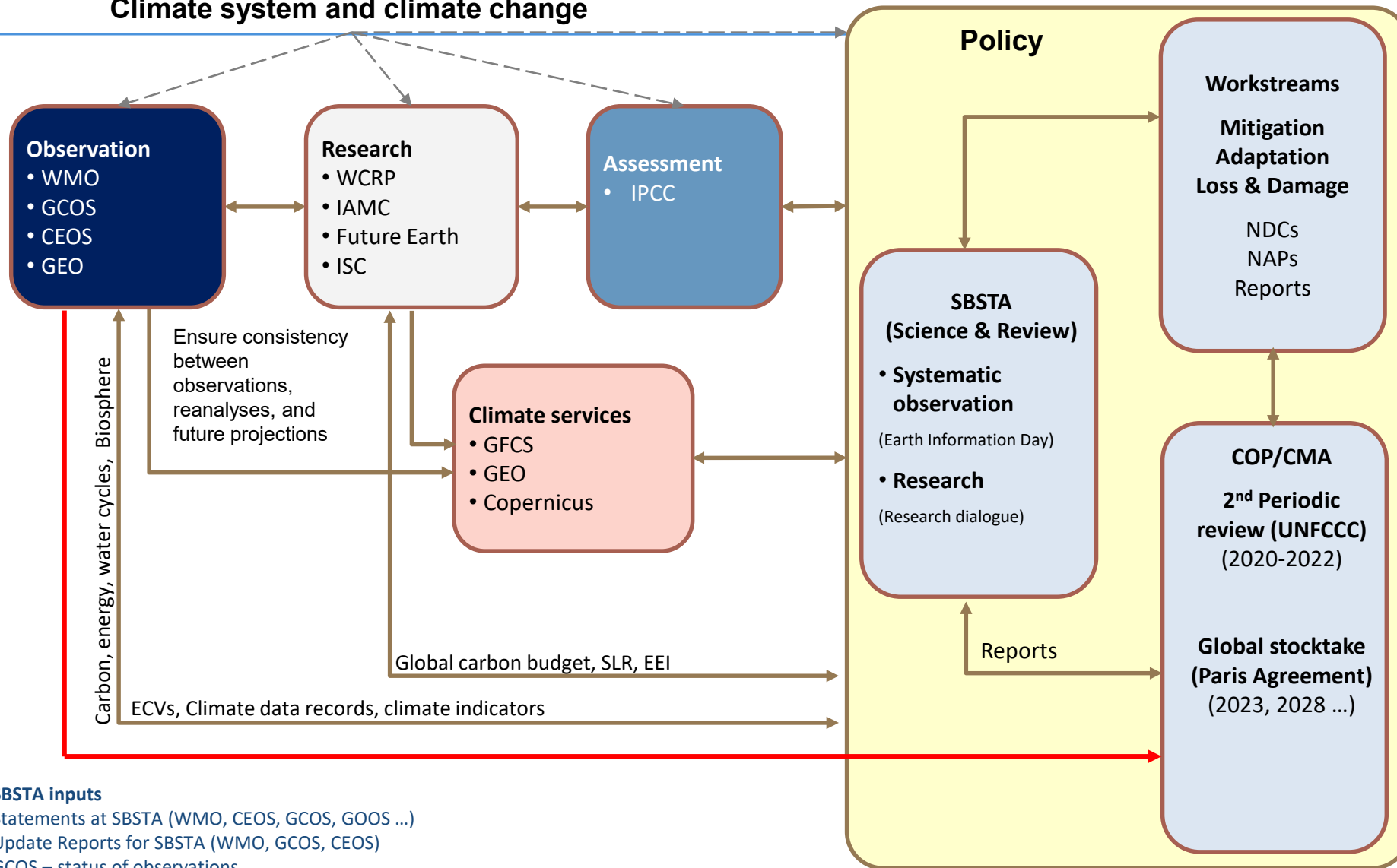
SBSTA Research and systematic observation

- Research dialogue
- Earth Information Day



Systematic observation of the Earth's climate system plays an essential role in **understanding** changes in the climate system, as well as in **projecting** future changes, which are fundamental for informing climate policymaking

Climate system and climate change



SBSTA inputs

Statements at SBSTA (WMO, CEOS, GCOS, GOOS ...)

Update Reports for SBSTA (WMO, GCOS, CEOS)

GCOS – status of observations

GCOS IP

WMO Statement on the state of the global climate & GHG bulletin

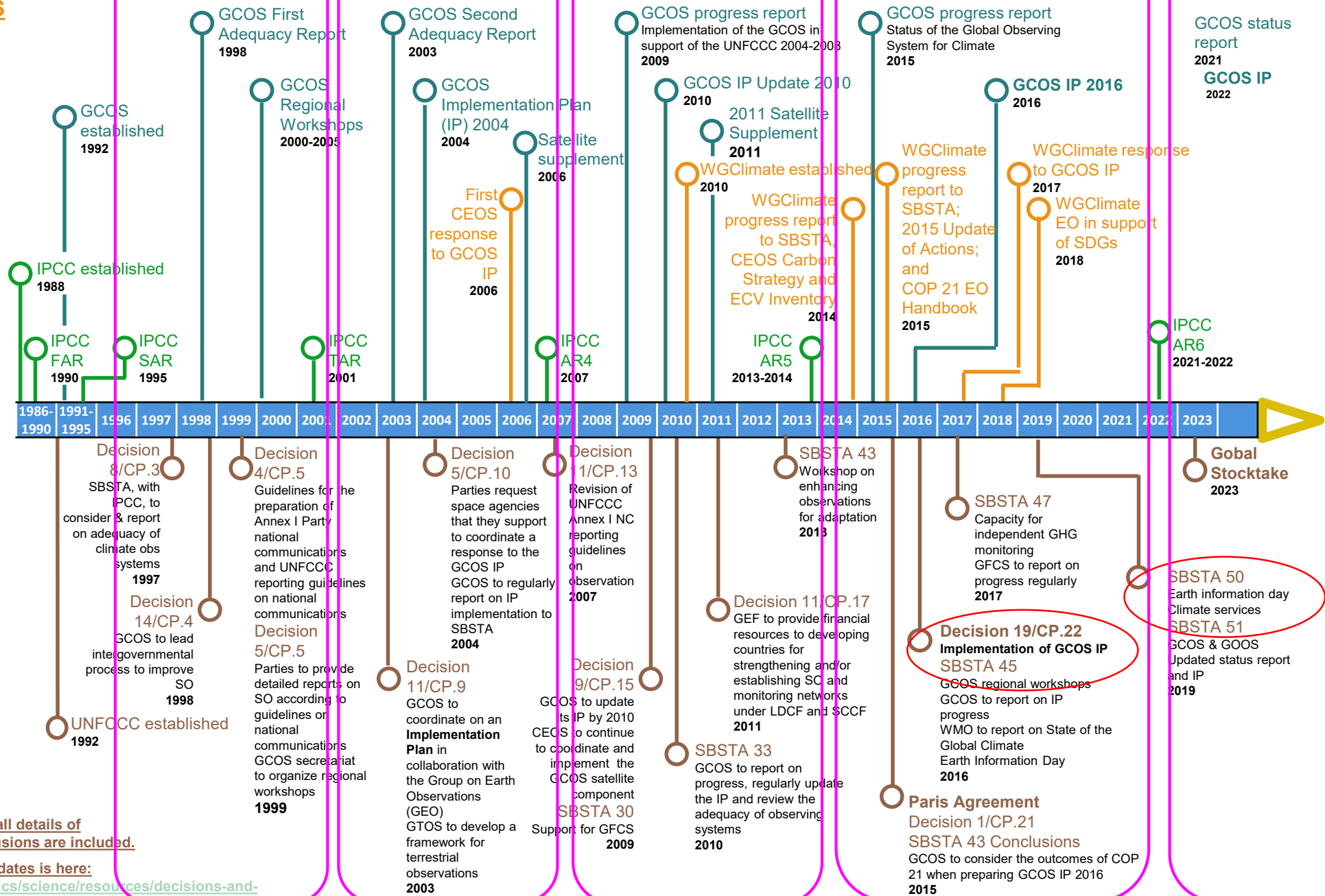
GST synthesis report??



The systematic observation community will contribute to the GST – indirectly, through Parties, constituted bodies, IPCC, UN Agencies. Direct contribution in planning

Systematic Observation under the Convention: The ongoing cycles of assessments, reports and guidance

GCOS, CEOS and IPCC activities

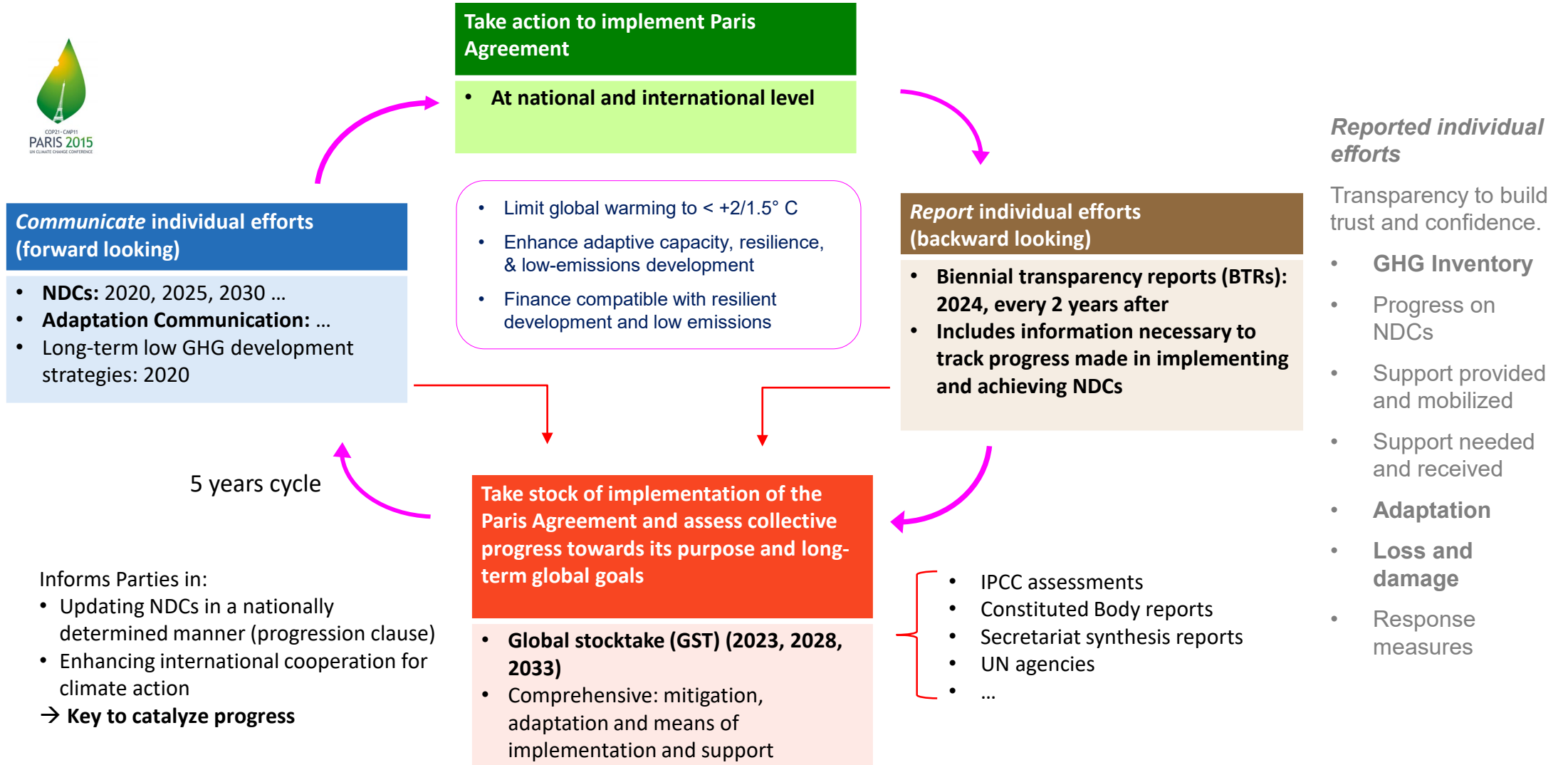


UNFCCC guidance

Please note that not all details of decisions and conclusions are included.

The FULL list of mandates is here: <https://unfccc.int/topics/science/resources/decisions-and-conclusions-on-systematic-observation>

The “ambition” cycle of the Paris Agreement



Observation / ECVs / Climate services vital to support the Paris Agreement bottom-up, pledge and review architecture

The global stocktake – an anchor for the ambition cycle to bring it all together



COP24 · KATOWICE 2018
UNITED NATIONS CLIMATE CHANGE CONFERENCE

Mitigation

- Overall effects of NDCs
- State of GHG emissions and removals and mitigation efforts undertaken by Parties

Adaptation

- State of adaptation efforts, support, experiences and priorities

Finance flows and means of Implementation and support (MoI):

- Finance flows and financial support
- Technology
- Capacity-Building

Efforts on:

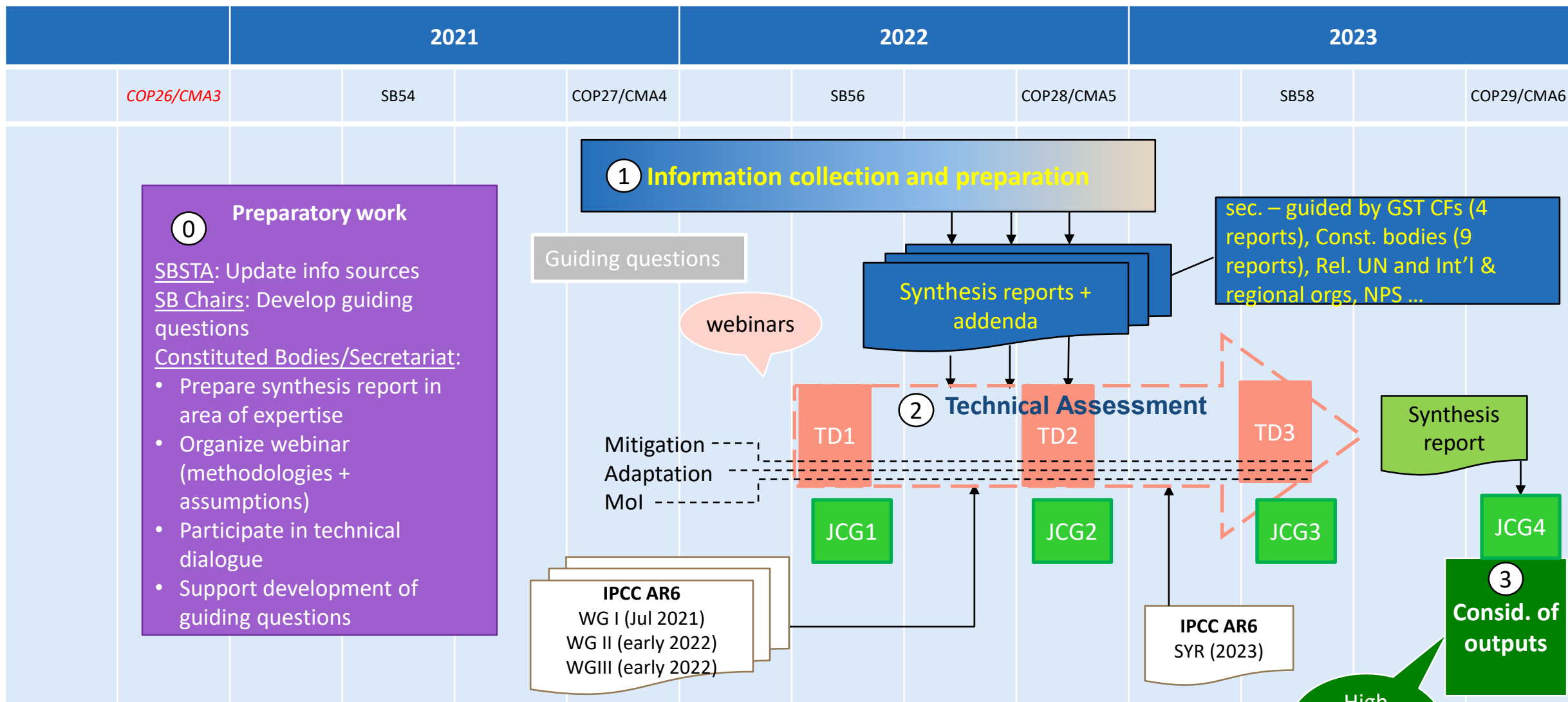
- Social and economic consequences of response measures (under mitigation)
- Adverting, minimizing and addressing loss and damage (under adaptation?)

Inputs on equity

- Fairness consideration including equity as communicated by Parties in their NDCs



What are the modalities of the GST and the timeline?



The global stocktake – flexible modalities that build on the successful 2013-15 periodic review!

High level event(s)

Party support

- Parties recognize the importance of GCOS and GCOS implementation plan (Decision 19/CP.22)
- Current mandate (SBSTA 51 2019) recognizes status report 2021 & IP update 2022
- Opportunities to highlight expanding role of SO for the Paris Agreement
- How do we make ECVs relevant for decision makers? How do we build a value chain from observations to effective decision making on adaptation, mitigation – e.g. through products, case studies, etc
- Identify indicators and other climate services that could support adaptation assessment and monitoring and be incorporated into adaptation reporting cycle

GST

- The systematic observation community could benefit from taking stock of the outcomes of the support provided to mitigation and adaptation action in five year cycles, with a pledge and review approach
- This requires understanding of the GST, planning, aggregation of this information, preparation of a coordinated input and participation in the GST
- Both indirect and direct inputs should be considered



Thank you!

