



# WORLD CLIMATE RESEARCH PROGRAMME

- UNFCCC Global Stocktake

- JSC proposal for a Data Intercomparison Project

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# UNFCCC Global Stocktake

## COP21 PARIS AGREEMENT (Article 14)

- 1. The Conference of the Parties serving as the meeting of the Parties to this Agreement shall periodically take stock of the implementation of this Agreement to assess the collective progress towards achieving the purpose of this Agreement and its long-term goals (referred to as the "global stocktake"). It shall do so in a comprehensive and facilitative manner, considering mitigation, adaptation and the means of implementation and support, and in the light of equity and the best available science.*
- 2. The Conference of the Parties serving as the meeting of the Parties to this Agreement shall undertake its first global stocktake in 2023 and every five years thereafter unless otherwise decided by the Conference of the Parties serving as the meeting of the Parties to this Agreement.*
- 3. The outcome of the global stocktake shall inform Parties in updating and enhancing, in a nationally determined manner, their actions and support in accordance with the relevant provisions of this Agreement, as well as in enhancing international cooperation for climate action.*

# UNFCCC Global Stocktake

## Official mandates and overview:

- The UNFCCC's "Subsidiary Body for Scientific and Technological Advice" (SBSTA) was tasked to inform the "Ad Hoc Working Group on the Paris Agreement" (APA) on how IPCC ARs can inform the global stocktake (GST). Joint SBSTA/IPCC event in May 2016: [http://unfccc.int/science/workstreams/cooperation\\_with\\_the\\_ipcc/items/9535.php](http://unfccc.int/science/workstreams/cooperation_with_the_ipcc/items/9535.php) , with particular mention of Ocean Heat Content.
- APA was tasked to inform the UNFCCC Conference of the Parties (COP) on: possible input to GST and modalities, in order to facilitate a recommendation by the COP to the "Parties to the Paris Agreement". In general, APA considers a range of possible sources besides the IPCC. See APA 1-2, Agenda item 6 :  
[http://unfccc.int/meetings/marrakech\\_nov\\_2016/items/9974.php](http://unfccc.int/meetings/marrakech_nov_2016/items/9974.php)  
, [http://unfccc.int/meetings/marrakech\\_nov\\_2016/session/9680/php/view/reports.php](http://unfccc.int/meetings/marrakech_nov_2016/session/9680/php/view/reports.php)
- Parties to the Paris Agreement are invited by APA to submit by 30 April 2017 views on issues discussed during APA session 1-2 in Marrakech in Nov. 2016 (see links above)

# UNFCCC Global Stocktake

## Timeline, including synergies between the GST and IPCC AR cycles:

- From 2017: Option to take GST needs into consideration during AR6 scoping
- 2018: “Facilitative Dialogue” (FD) on GST ; SR1.5 to be delivered in time for FD
- 2019: Approval of draft refined 2006 IPCC Guidelines for NGHG Inventories (TFI\*)
- 2021: WGI report to be adopted (i.e., well available for 2023 GST consideration)
- 2022: AR6-Synthesis to be approved ASAP in 2022, in view of 2023 GST
- 2023: first GST
- From 2024: AR and GST cycles fully aligned with 5-year periods



# UNFCCC Global Stocktake

## Currently officially identified sources

From Decision 1/CP.21 by the COP (“Adoption of the Paris Agreement”):

*99. Requests the Ad Hoc Working Group on the Paris Agreement to identify the sources of input for the global stocktake referred to in Article 14 of the Agreement and to report to the Conference of the Parties, with a view to the Conference of the Parties making a recommendation to the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement for consideration and adoption at its first session, including, but not limited to:*

*(a) Information on:*

*(i) The overall effect of the nationally determined contributions communicated by Parties;*

*(ii) The state of adaptation efforts, support, experiences and priorities from the communications referred to in Article 7, paragraphs 10 and 11, of the Agreement, and reports referred to in Article 13, paragraph 8, of the Agreement;*

*(iii) The mobilization and provision of support;*

*(b) The latest reports of the Intergovernmental Panel on Climate Change;*

*(c) Reports of the subsidiary bodies;*

# UNFCCC Global Stocktake

## Other points:

- Propositions have so far been made that GST might not only diagnose current state, but also the hypothetical state as having been attainable if all policies were aligned and conditions satisfied
- GST likely to be comprehensive in nature (mitigation, adaptation, implementation)
- GST by many Parties considered to require a 1-year time frame in itself
- Role and involvement of non-Party actors still an open question

# UNFCCC Global Stocktake

## Illustration of mandates and provisions related to the Global Stocktake referred to in Art 14 of the Paris Agreement

### GLOBAL STOCKTAKE (GST)

General – Art 14.1: • Assess collective progress towards the Agreement’s purpose (Art 2) and its long-term goals

- In a comprehensive, facilitative manner
- In light of equity and best available science
- Consider mitigation, adaptation and means of implementation and support

Specific – Adaptation – Art 7.14: • Recognize developing country adaptation efforts

- Enhance implementation of adaptation action taking into account Parties’ adaptation communications
- Review adequacy & effectiveness of adaptation action & support
- Review overall progress in achieving the global adaptation goal

### SOURCES OF INPUT (APA to identify, including:) (§ 99)

- Latest IPCC reports (§ 99 b)
- Reports of the SBs (§ 99 c)
- Transparency framework (Art 13, in particular 13.5-13.12)
- Information on the overall effect of NDCs (§ 99 a.i)
- Information on state of adaptation efforts, support, experience, priorities from adaptation communication ref. to in Art 7.10 , Art 7.11 and reports per Art 13.8 (§ 99 a.ii)
- Information on mobilization & provision of support (§ 99 a.iii)
- Finance: Relevant info from developed countries and/or Agreement bodies (Art 9.6)
- Technology: Available info (Art 10.6)

### MODALITIES (APA to develop, § 101)

Art 14.2: • CMA to undertake GST • In 2023 and every five years thereafter unless otherwise decided by CMA (See also Art 14.1 and 7.14 above)

Relevant mandates	General: How IPCC assessments can inform GST (SBSTA advice, §100)			Other relevant mandates and provisions (e.g. §§ 42, 43, 52, 55, 56, 57, 68, 80, 90, 91, 94)
	Specific: Modalities to recognize developing countries’ adap. efforts as per Art 7.3 (AC+LEG to develop, § 41)	Methodologies for reviewing adequacy & effectiveness of adap. action & support (AC+LEG in collab. with SCF, §45b)	Modalities for periodic assessment of support to Technology Mechanism (SBI, § 69-70)	

### OUTCOME

GENERAL - Art 14.3: Shall inform Parties in: • Updating and enhancing their actions and support and • Enhancing international cooperation

SPECIFIC: • NDCs – Art 4.9: Each Party shall communicate a NDC every 5 years and be informed by the outcomes of the GST

- Other outcomes, including any relevant adaptation-specific outcomes (in line with Art 7.14 (see above) and relevant modalities and methodologies being developed (see MODALITIES above, e.g. § 41 and § 45b))

Every 5 years

# JSC proposal for a Climate Data Intercomparison Project

- Need to distinguish observations from data
  - processing involving editing, data gap filling, interpolation process, physical corrections, estimates of bias and drifts, etc)
  - as evidenced by WDAC briefings: lots of data set assessments and intercomparison already going on
- Where in the value chain: infrastructure, science, products, publications ?
- Do we need some central process, certification?
  - Cf WCRP Data set assessment “Best practice document”
- Understanding sources of errors, discrepancies
- How close to model data (cf GCOS ECVs)?
- Within WCRP? With external partners?



# JSC proposal for a Climate Data Intercomparison Project

... To be continued with discussion on GCOS Climate indicators