

ETF Reporting Tools (Test Version)

*Tracking Progress of the Mitigation
Commitments of Nationally Determined
Contributions (NDCs)*

Training Workshop
Panama City - 25 Oct 2023



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United Nations
Climate Change Secretariat



- **Background on the new ETF reporting tools**
- **Implementation approach**
- **Timeline of the new ETF reporting tools development**
- **Scope of the test version of the new ETF reporting tools**
- **Way forward**

Overview of reporting requirements



All Parties *shall*

- » **National inventory report of GHG emissions** (Article 13, para. 7(a)), which consists of a national inventory document (NID) and common reporting tables (CRT)
- » **Progress made in implementing and achieving the NDC** (Article 13, para. 7(b)), which shall be reported in a narrative and common tabular format (CTF)

All Parties *should, as appropriate*

- » **Climate change impacts and adaptation** (Article 13, para. 8)

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Developed country Parties *shall* and other Parties that provide support *should*

- » **Financial, technology transfer and capacity-building support provided to developing country Parties** under Articles 9–11 (Article 13, para. 9), to be reported in textual and/or common tabular format (CTF)

Developing country Parties *should*

- » **Financial, technology transfer and capacity-building support needed and received** under Articles 9–11 (Article 13, para. 10), to be reported in textual and/or common tabular format (CTF)

Mandates to develop the ETF reporting tools



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Requested SBSTA to develop, pursuant to the MPGs:

- **common reporting tables (CRT)** for the electronic reporting of info on **GHG emissions**
- **common tabular formats (CTFs)** for the electronic reporting of info on **tracking progress in achieving NDCs** and of info on **financial, technology development/transfer and capacity-building (FTC) support**

Decision 18/CMA.1

Adopted:

- **CRT** for the electronic reporting of the info in the national inventory reports of **GHG emissions**
- **CTF** for the electronic reporting of the info on **tracking progress in achieving NDCs**
- **CTF** for the electronic reporting of the info on **FTC support**

Decision 5/CMA.3

Requested the secretariat to:

- Develop the **reporting tools**, taking into account the **flexibility** provisions
- Make available a **test version by June 2023** and a **final version of the tools by June 2024** (*timely availability of sufficient financial resources*)
- **Inform Parties** on the progress at SBSTA sessions
- Organize **regular technical training workshops**
- **Prepare a report** on how the inputs of Parties on the test version have been considered
- Facilitate **interoperability** with the **IPCC inventory software** and invite IPCC to engage in the work incl. by completing a **mapping exercise** between 2006 IPCC GLs and CRT
- Establish an **interactive web portal by Dec. 2025** to facilitate the availability of FTC support info

Decision 5/CMA.3

Implementation Approach



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- Parties **submit the mandatory information and data in the formats agreed** - comprehensive analysis, comparison, and assessment of progress - **feed info into the GST and NDC cycles**
- Complex IT project covering the development of **3 new reporting tools built** using a common framework:
 - **ETF GHG Inventory Reporting Tool** = CRT (Common Reporting Tables for GHG emissions)
 - **ETF Progress Reporting Tool** = CTF NDC (Common Tabular Format for tracking progress in achieving NDC)
 - **ETF Support Reporting Tool** = CTF FTC (Common Tabular Format on finance, tech. and CB support)
- UNFCCC institutional **knowledge and experience** (CRF Reporter, BR CTF, etc.) & **Parties/experts views**
- **Additional skills, expertise and coordination** needed, apart from solving countless technical aspects
- **Complexity:**
 - All Parties, incl. ~150 developing countries; 3,000+ users
 - Online/offline; flexibility provisions
 - Interoperability with IPCC software
 - **Timing & Funding**

ETF reporting tools - meeting all requirements from Parties - advanced functionalities & a compliance platform working in both developed and developing countries **by building on:**

- **Totally new technical framework** designed for reliability, security, and durability
- **Open standards and open-source technologies** viable on long-term like HTML, JavaScript and .NET.
- **Native Azure cloud platform** - enterprise grade information security, scalability, and resiliency
- Intuitive, accessible, discoverable **User Interface design**, incl. UN Disability Inclusion Strategy
- Progressive web apps (PWAs) **working in offline mode** (operate in absence of an internet connection) and automatically synchronise data when connection is restored
- Real-time collaborative editing - **multiple users within a Party can work concurrently** on the same submission and see live changes to the data

Elevated level of complexity - dependencies among the modular building blocks

IT architecture - **interconnected and inter-dependent technical engines:**

- **Rendering engine**: render and input data, providing an accessible, user friendly, streamlined interface
- **Validation engine**: validation services (defined by metadata) in browser and server-side
- **Calculation engine**: data calculation services (defined by metadata) in browser and server-side
- **Metadata engine**: dynamically structure and validate data following a metadata schema (CMA decisions)
- **Import/export engine**: import/export data drafts across client and server, including a compatibility layer with the IPCC Inventory software
- **Reporting engine**: generate the agreed reporting tables in Excel based on the data entered
- **Storage engine**: offline structured storage for applications using browser Web Storage facilities

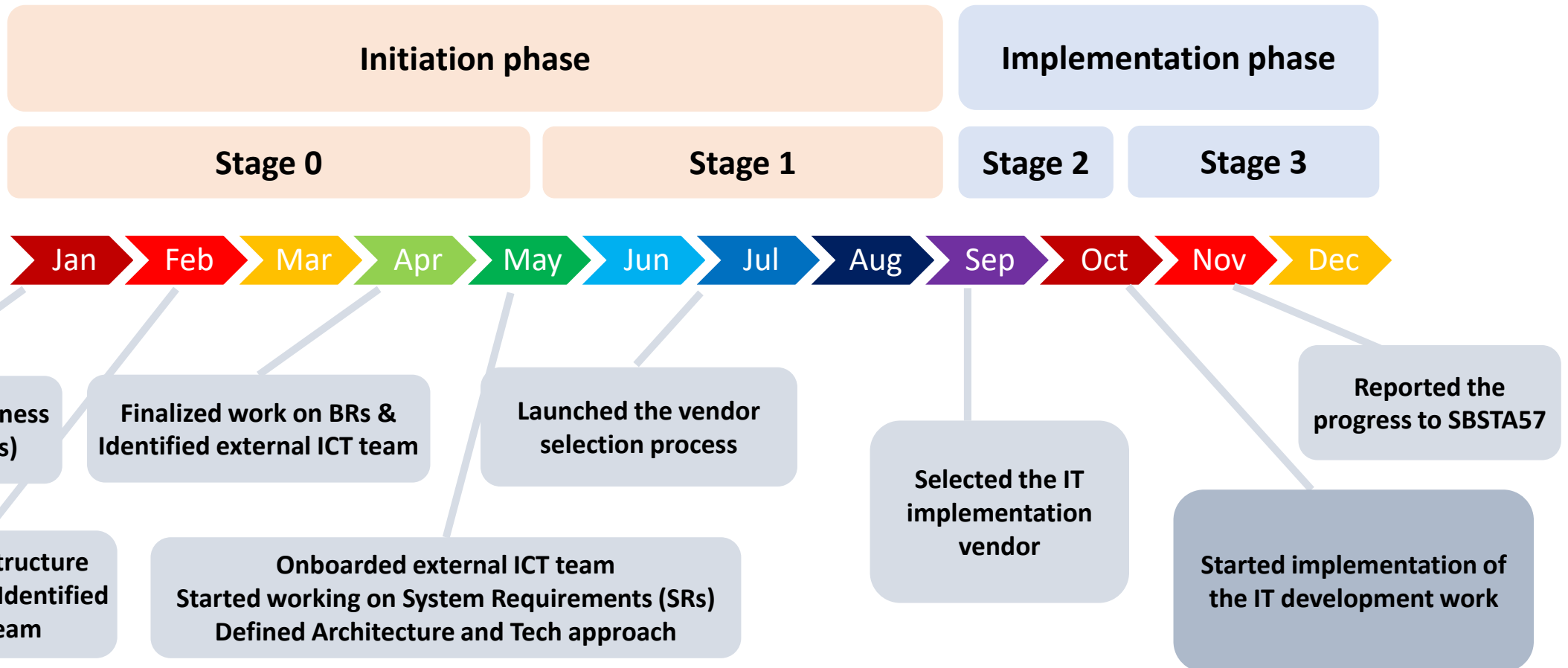
Timeline



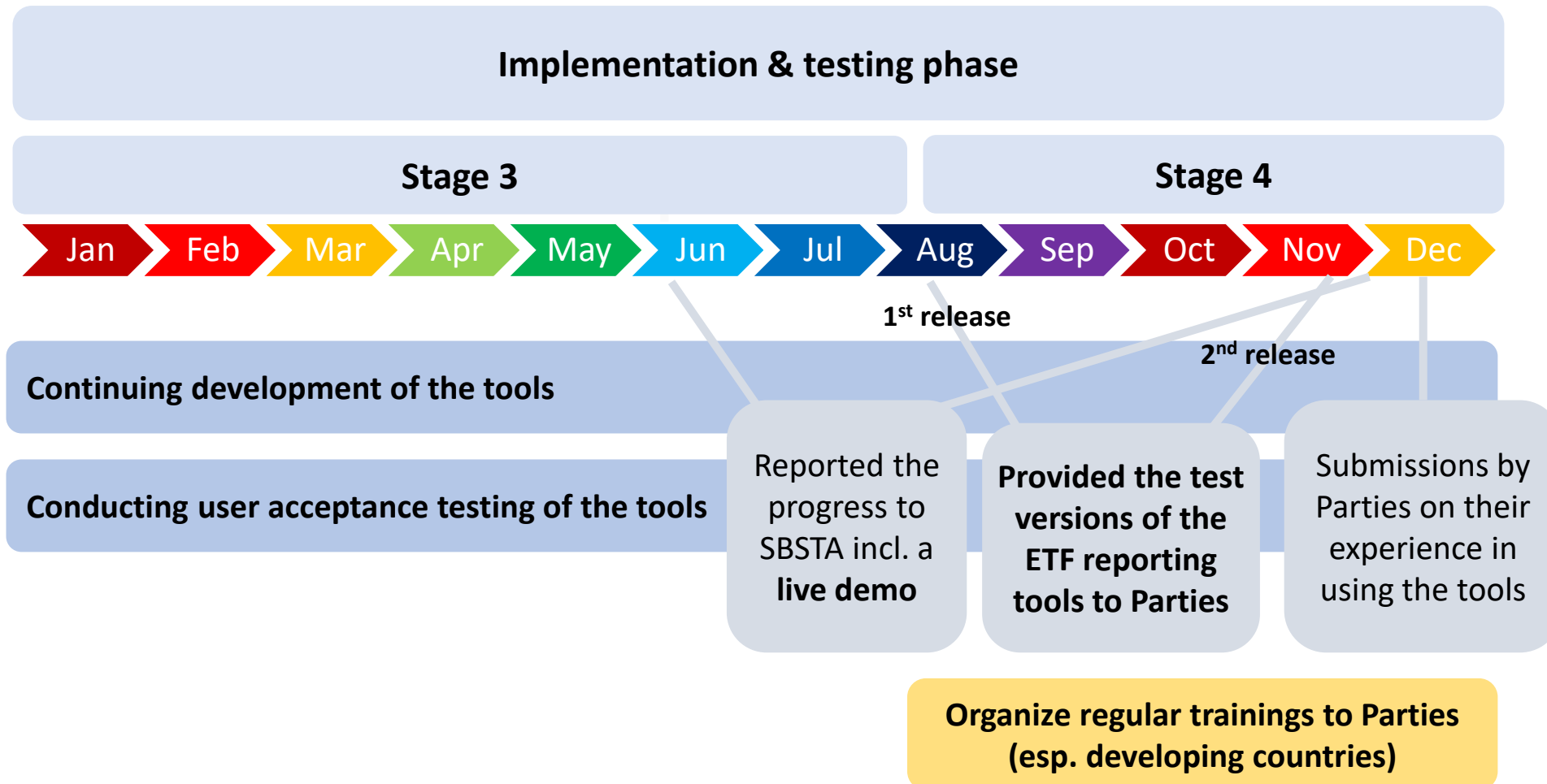
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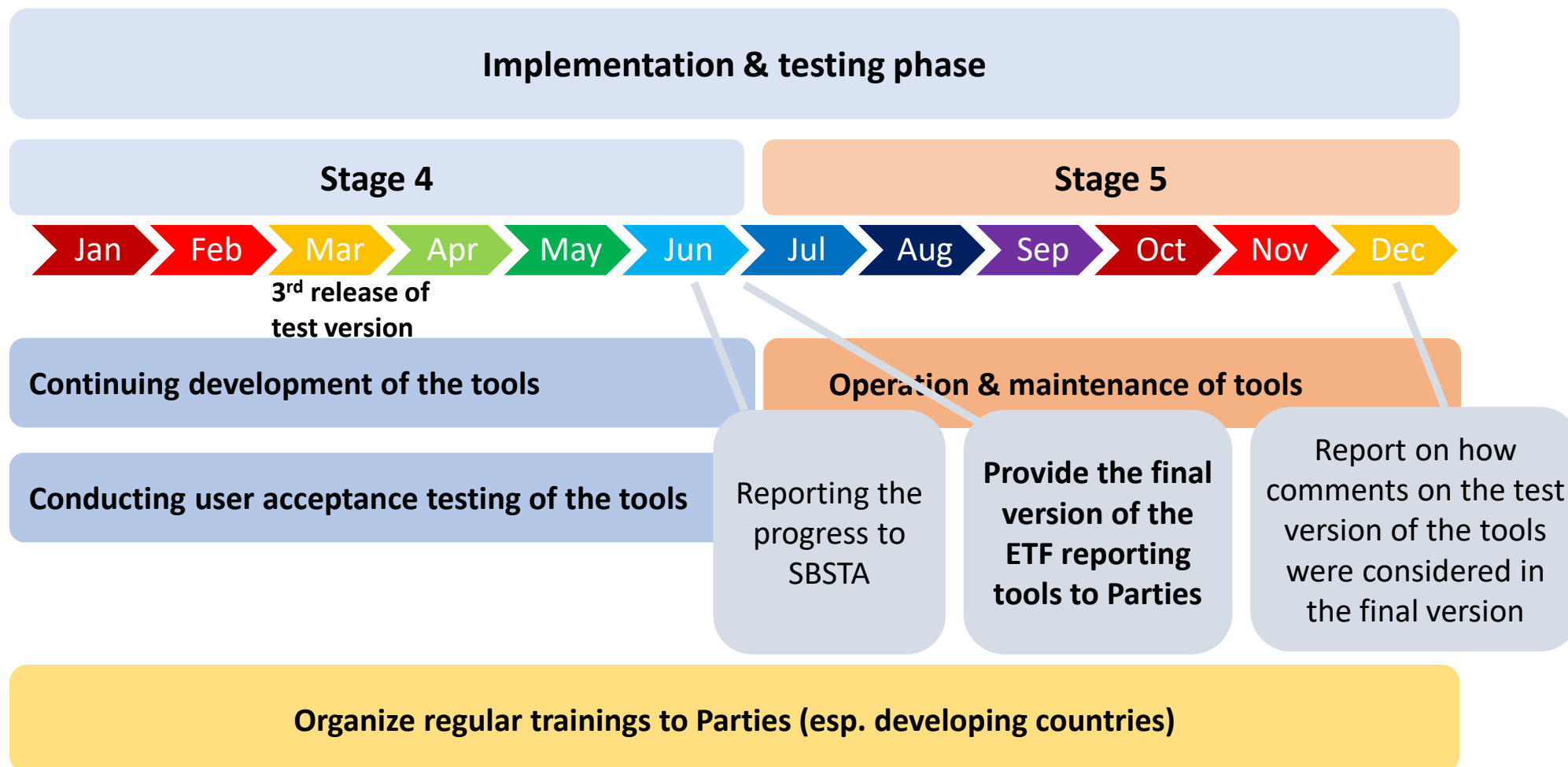
2022



2023



2024



Scope of the Test version



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GHG Inventory:

- Energy sector – all tables (12)
- Waste sector – all tables (5)
- Interoperability with IPCC Inventory Software

ETF Progress:

- Mitigation policies and measures, actions and plans – Table 5
- Information on projections of greenhouse gas emissions and removals:
 - Table 7 (with measures)
 - Table 8 (with additional measures)
 - Table 9 (without measures)
- Key underlying assumptions and parameters used for projections – Table 11

ETF Support:

- Financial support mobilized through public interventions – Table III.3
- Support needed: Financial – Table III.6
- Support received: Financial – Table III.7



- Mandate (decision 5/CMA.3) – UNFCCC cooperates with IPCC **to facilitate interoperability between the ETF reporting tools and the IPCC inventory software**
 - Some Parties **use IPCC Inventory Software** to estimate GHG emissions based on 2006 IPCC Guidelines
 - Produce a **file that could be read and imported** by the ETF GHG Inventory Reporting Tool
- **Current work:**
 - Continuing the development of the **IPCC Inventory Software** and **ETF GHG Inventory Tool**
 - **Cell-by-cell mapping** between IPCC Inventory Software and ETF GHG Inventory Tool
 - **Generate JSON file in the IPCC Inventory Software** for importing it to ETF GHG Inventory Tool
- **Multiple releases of IPCC Inventory Software are expected before COP28, and to June 2024**



- **Continuing the IT development** of the back-end solution and UI/UX design
- **Continuing the work with IPCC** for finalizing the mapping between the 2006 IPCC GLs and CRT and for the interoperability with IPCC Software
- **Completing the second release of the test version of the new reporting tools – release 20 November**
- **Conducting in-person technical training workshops**, and virtual Q&A sessions
- **Initiating preparatory work on the new ETF review tools and Data Warehouse project**

Thank you!



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Find out more at:

<https://unfccc.int/Transparency>

Join our LinkedIn group at:

<https://www.linkedin.com/groups/13910606/>



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