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

Agenda

- **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 formet (CTF)*

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 comon tabular formet (CTF)*

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All Parties *should, as appropriate*
» **Climate change impacts and adaptation** *(Article 13, para. 8)*

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

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**

Technology

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

Complexity

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

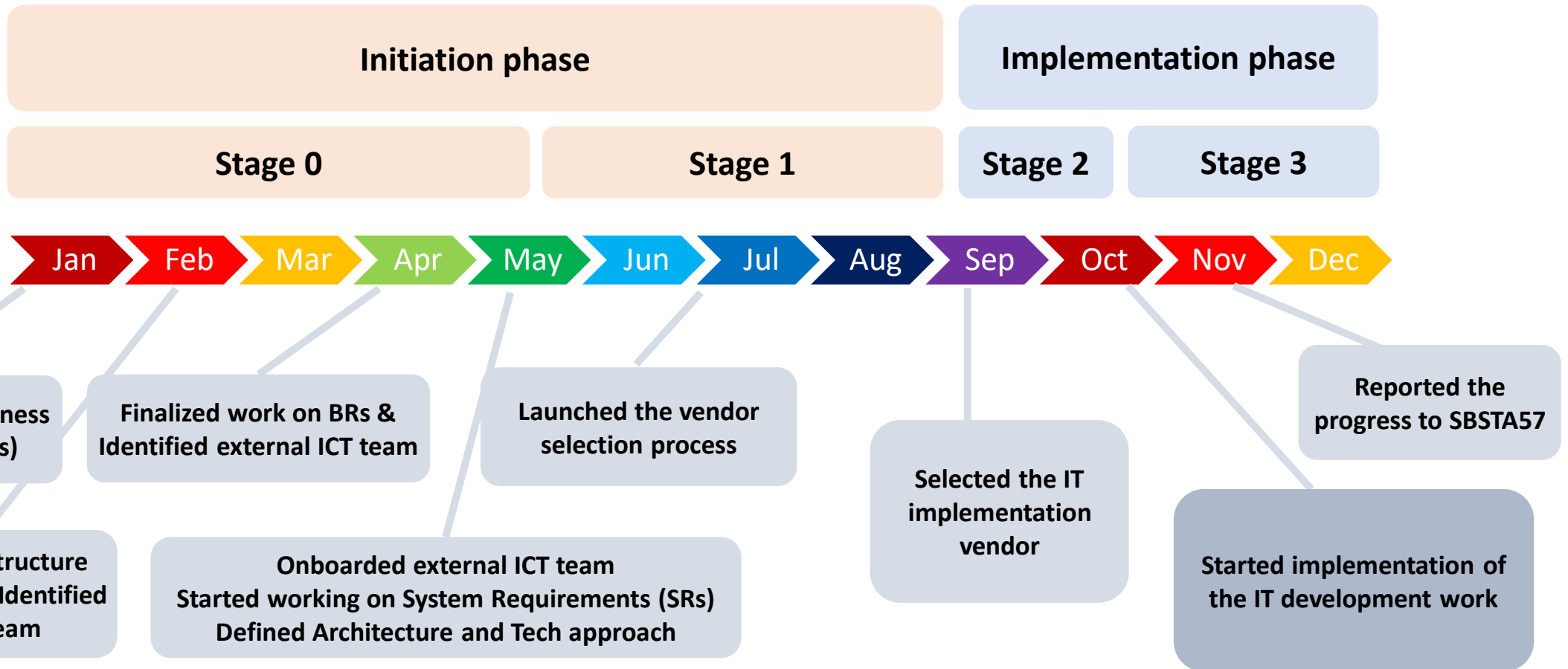- **Storage engine:** offline structured storage for applications using browser Web Storage facilities

Timeline

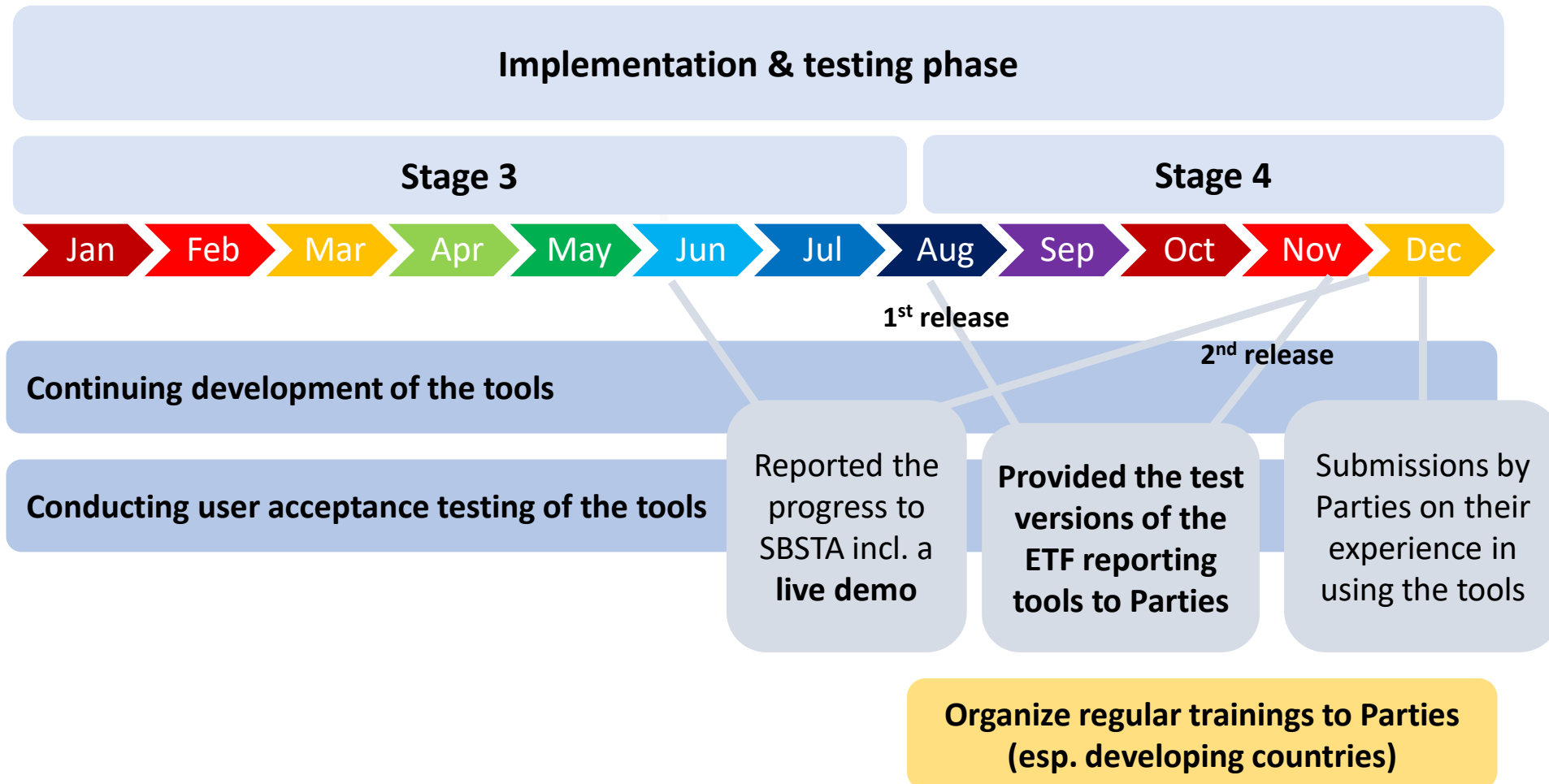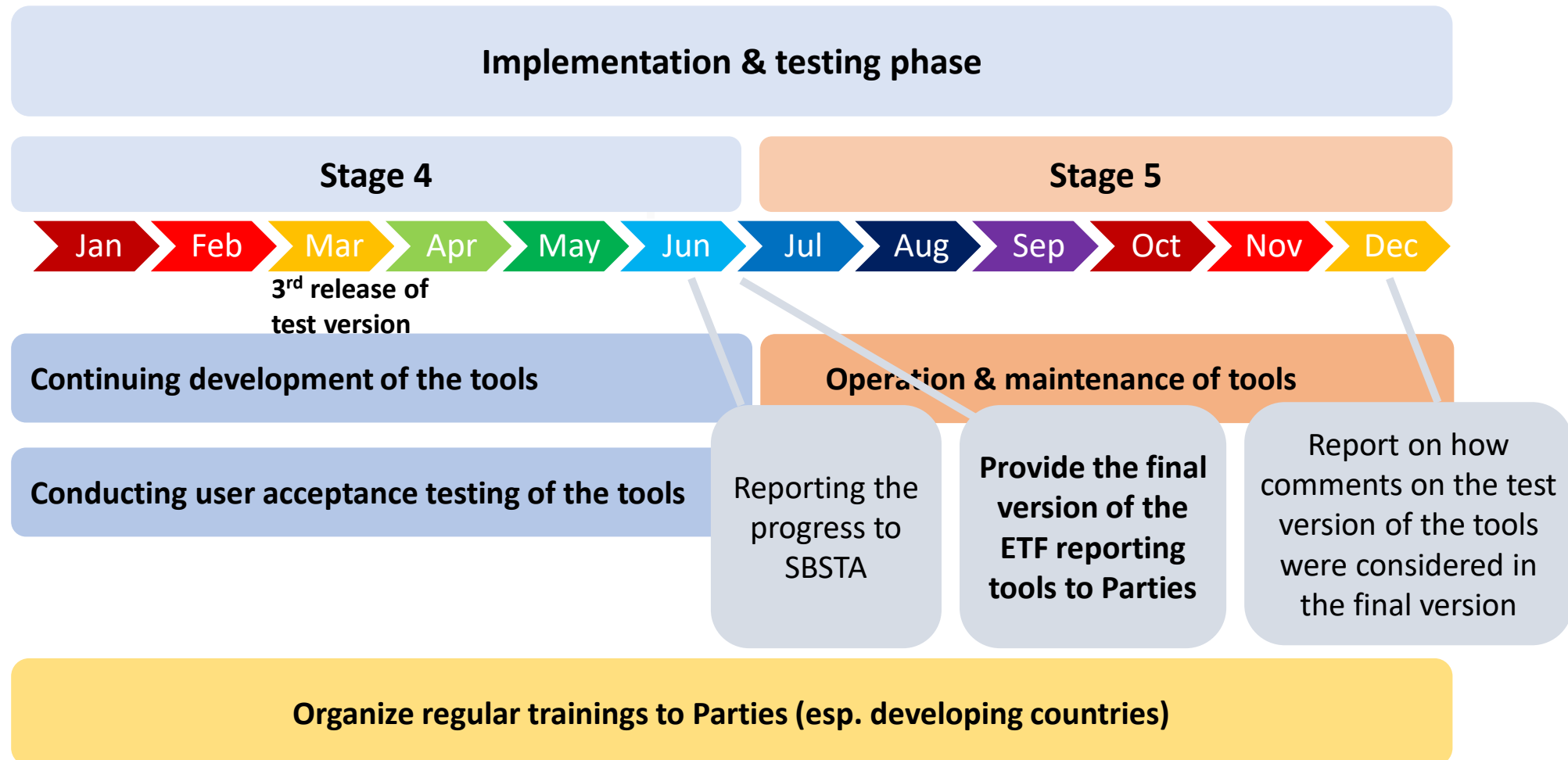# Timeline

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2022

Initiation phase			Implementation phase	
Stage 0		Stage 1	Stage 2	Stage 3

Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec

Started work on Business Requirements (BRs)

Finalized work on BRs & Identified external ICT team

Launched the vendor selection process

Defined Project Structure and Governance & Identified internal ICT team

**Onboarded external ICT team
Started working on System Requirements (SRs)
Defined Architecture and Tech approach**

Selected the IT implementation vendor

Reported the progress to SBSTA57

Started implementation of the IT development work

Scope of the Test version

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Interoperability with the IPCC Inventory Software

- 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**

Way forward

- **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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