

# Non-Annex I GHG Inventory Software – Web Application (NAIIS)

**REGIONAL AFRICAN WORKSHOPS ON REDD+ NATIONAL  
FOREST MONITORING SYSTEMS AND GREENHOUSE GAS (GHG)  
NATIONAL INVENTORY SYSTEMS**

**25-27 February 2014, Livingstone, Zambia**



# A Little Bit of History

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- The **Excel-based software** was first released in **2005**.
- It was **based on the IPCC inventory software version 1.1**, which used the **Tier 1** methods for estimating GHG emissions and removals for all source categories described in the **Revised 1996 IPCC Guidelines**.
- It was addressing the **Revised 1996 IPCC Guidelines** as well as the **GPG-2000** and **GPG-2003**.
- Few improvements were made until 01/2007 (**version 1.3.2**), which was the version available until June 2013.



# A Little Bit of History (cont.)

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- Some limitations of the Excel-based software reported by non-Annex I Parties:
  - Problems with post Windows XP and Excel 2003 versions combined with the language of the OS
  - Excel macros are functioning well with Excel 2003, are not functioning with Excel 2007, but are functioning with Excel 2010
  - Difficulty to work collaboratively (coordination, access, management and security of data)
  - Difficulty to run calculations for multiple years
  - Uneasy customization of tables
  - Available only in English
- **SBI 35 (UNFCCC/SBI/2011/17, paragraph 43) requested the secretariat to upgrade the software** for estimating and reporting national GHG inventories by non-Annex I Parties, and to make it available by **June 2013**.
- The **NAIS web-based application** was **released** on 6 June 2013.



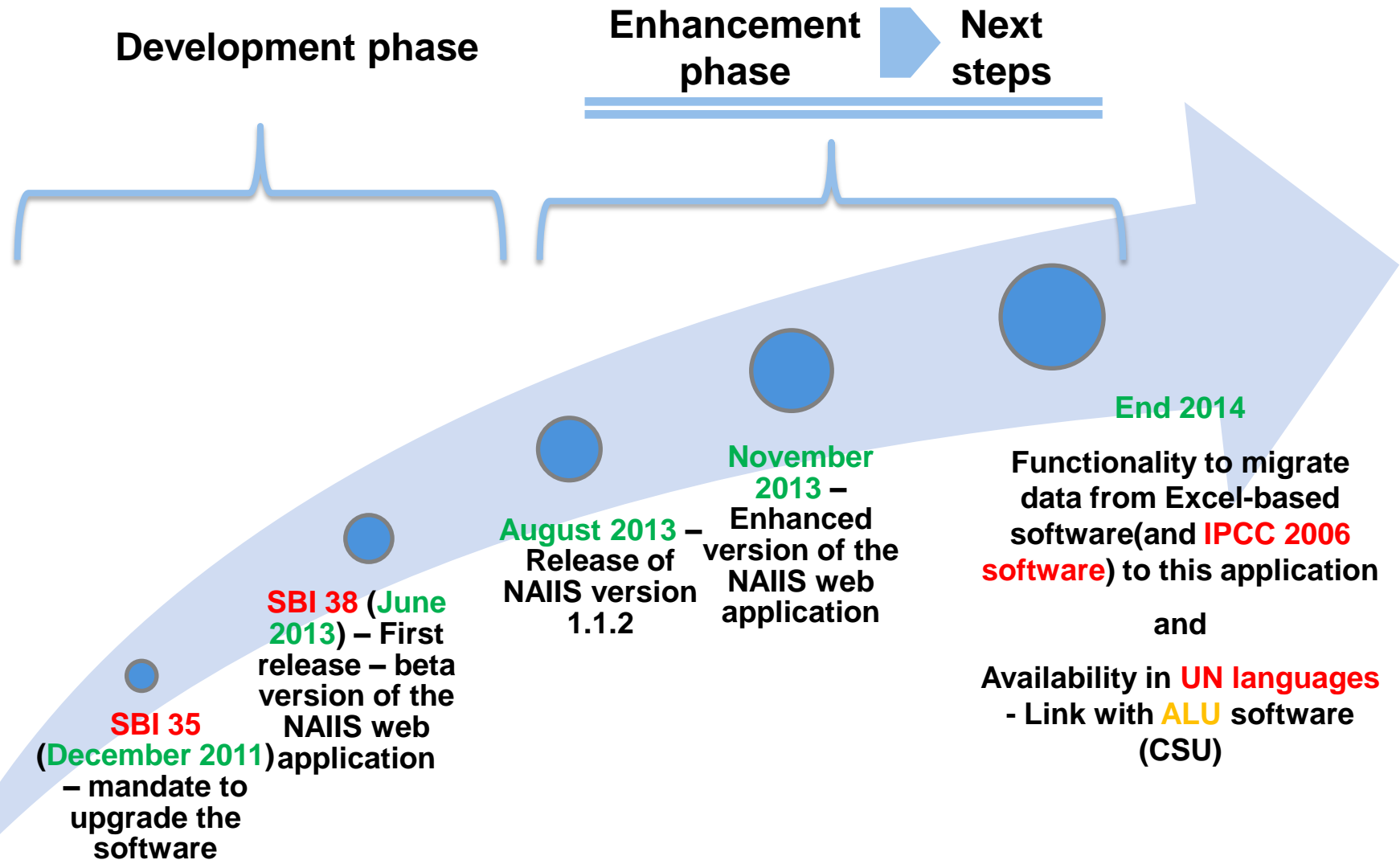
# Main Objectives of the Upgrade

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- To **resolve the issues raised** by Parties in using version 1.3.2 of the Excel-based software
- To improve the **user-friendliness** of the tool
- To enable the **simultaneous entry of data** in different sectors and locations
- To facilitate the use of **multi-year** GHG inventories
- To remove dependency and **compatibility** issues on different operating systems and languages
- To ensure greater **flexibility and security for maintaining data**
- To simplify the **submission process** of the inventory data
- To keep the data more easily **adaptable to changes** in technology
- To simplify the **update** of the tool
- **To facilitate NAI Parties in maintaining GHG inventory systems on a continuous basis, by offering a tool for inventory team management (maintaining information), KCA, limited QA/QC, and robust archiving**



# Road to a fully functional NAIS web application



# System Overview

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- **Functions available:**
  - User management
  - Data entry
  - Key category analysis
  - Reporting tables
  - Data Export/Import
  - Completeness check
  - Consistency check
  - Submission management
- **Input of data through three different channels:**
  - Manual input into the entry grid
  - Partial or full import of data from Excel
  - Bulk import of data from XML
- **Pending functionalities:**
  - User management email notification
  - Web services integration for help desk implemented within the application
  - NAIS application available in other UN languages



# http://unfccc.int/7627

- Access to NAIS
- Details on gaining access rights to NAIS
- User manual
- Frequently asked questions
- [naisapp@unfccc.int](mailto:naisapp@unfccc.int)

The screenshot shows a web browser window displaying the UNFCCC website. The address bar shows the URL [http://unfccc.int/national\\_reports/non-annex\\_i\\_national\\_communications/non-annex\\_i\\_inventory\\_software/items/7627.php](http://unfccc.int/national_reports/non-annex_i_national_communications/non-annex_i_inventory_software/items/7627.php). The page title is "Non-Annex I Greenhouse Gas Inventories". The main content area features the UNFCCC logo and the text "United Nations Framework Convention on Climate Change". Below this, there is a navigation menu with options like "Home", "CDM", "JI", "CC:Net", and "TT:Clear". The main heading is "Non-Annex I Greenhouse Gas Inventory Software (NAIS) Web Application". The text explains that as per Article 4, paragraph 1 (a), and Article 12, paragraph 1(a) of the Convention, non-Annex I Parties are required to communicate to the Conference of the Parties a national inventory of anthropogenic emissions by sources and removals by sinks of all greenhouse gases (GHGs) not controlled by the Montreal Protocol, to the extent its capacities permit, following the guidelines contained in annex to decision 17/CP.8. It further states that in order to facilitate non-Annex I Parties in developing and reporting their GHG inventories as a part of their national communications, the secretariat developed an Excel-based software which incorporated all the elements of a national GHG inventory prescribed by decision 17/CP.8. The software was based on the IPCC inventory software version 1.1 which used the Tier 1 methodologies for estimating GHG emissions and removals for all source categories described in the Revised 1996 IPCC Guidelines, and further complimented by GPGs.<sup>1</sup> Since its release in 2005, most non-Annex I Parties have been using that software for development of their national GHG inventories. In June 2011, Parties requested the secretariat to upgrade the software and make it available to non-Annex I Parties by June 2013. Pursuant to that request, the secretariat upgraded the current Excel-based version of the software (v.1.3.2)<sup>2</sup> into a web-based application that provides greater degree of flexibility in using it as well as enable a prompt upgrade of the application to respond to any possible methodological changes that may occur in the UNFCCC process, such as the possible switch to the use of the 2006 IPCC Guidelines in the reporting of national GHG inventories by non-Annex I Parties. Upon request to the secretariat, each non-Annex I Party will be provided with an access to a password enabled working space in the web-based application. The individual working space will contain the following functionalities:

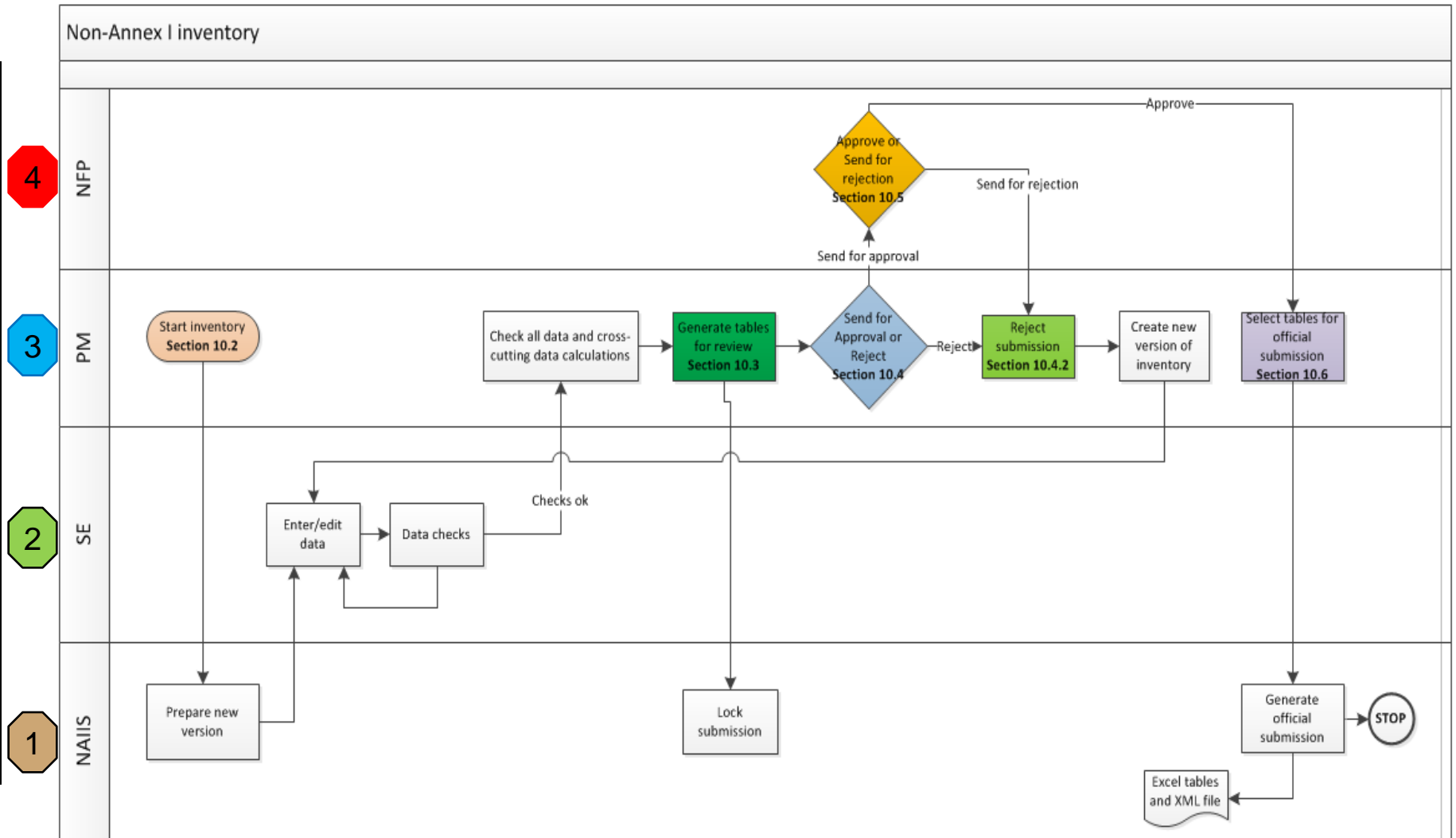
1. Software to estimate and report GHG emissions, conduct key source analysis, consistency and completeness checks, and report the results of uncertainty analysis;<sup>3</sup>
2. Export to and import from in the Excel and Xml format;
3. Inventory management, including management of users and different versions of the inventory;
4. Archiving of the finalized inventories;
5. Automated submission of inventories to the secretariat.

It is important to note that some functionalities such as inventory management and automated submission are still under development. These functionalities will be available to Parties as they are developed.

The right sidebar contains a "News section" with a date of "6 August" and a "More..." link. Below that is a "NAIS Web Application" section with a small image of the application interface and text: "Click on the NAIS image to access it. Accessible only with access rights. Details on gaining access rights to the NAIS application can be accessed here." At the bottom of the sidebar is a "Support for NAIS User" section with a "Please click here" link.



# The Workflow for Using the Application





## NAIIS Regional Training Workshops

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- Asia and Pacific: 14 – 18 October 2013, Manila, Philippines
- **Africa and Eastern Europe: 10 – 14 March 2014, Libreville, Gabon**
- Latin America and the Caribbean: 24 – 28 March 2014, Bogota, Colombia



Thank you

