





### SAGE, a Data Platform for GHG Emissions A Tool for Activity Data Collection and Management

A New Activity Data Platform for GHG MRV systems

UNFCCC Secretariat and GHG Management Institute

13 November 2024 (15:00 – 16:30)

**#Together4Transparency** 

#### **Tools Supported by the Secretariat**



Interoperability with the UNFCCC reporting tools



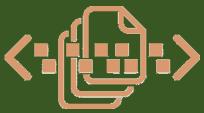


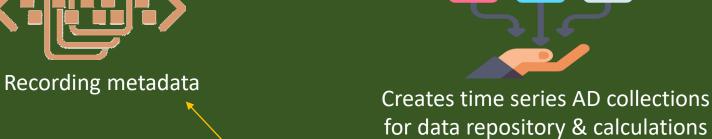


#### Agenda

15:00 – 15:05	Opening remarks by the UNFCCC secretariat – Mr. Dominique Revet, Team Lead, GHG Support Unit Opening remarks by GHG MI – Ms. Molly White, Senior Director, Education Program
	SAGE overview – Ms. Olia Glade, GHG MI, Director MRV Systems
15:05 – 15:20	
15:20 – 15:40	Country panel on using SAGE – Zimbabwe, Fiji and Vanuatu
15:40 – 15:55	Facilitated Q&A from audience - Ms. Olia Glade
15:55 – 16:25	Demonstration of the tool features, including:
13.33 – 10.23	- how to use basic elements of the tool; and
	problem-solving with elements of role-playing - Ms. Olia Glade
16:25 – 16:30	How to request SAGE - GHG MI Closing remarks - UNFCCC secretariat and, GHG MI

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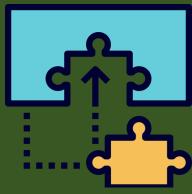
Implemented 2006 IPCC methodology







Time series calculations







Compatible with UNFCC/ETF & IPCC categorization



**United Nations** 

Climate Change

**Excel Import/Export** Option

Facility of import and export data via Excel files

www.ghginstitute.org

# Examples of what SAGE does and how it does it

#### SAGE: The home page







#### Welcome to SAGE

#### Sectors

- o 1. Energy
- 2. IPPU
- 3. Agriculture
- 4. Waste

Open

Administration

Configuration - Basic

Configuration - Energy sector

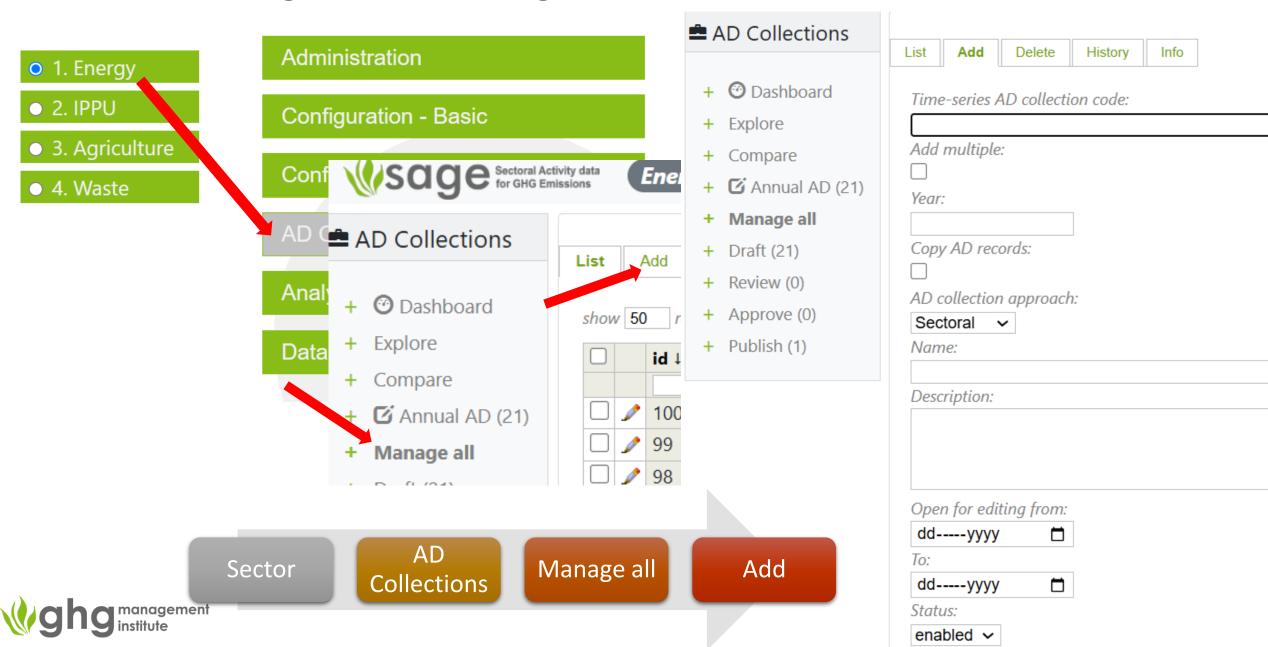
**AD Collections** 

Analytic

**Data Gaps** 

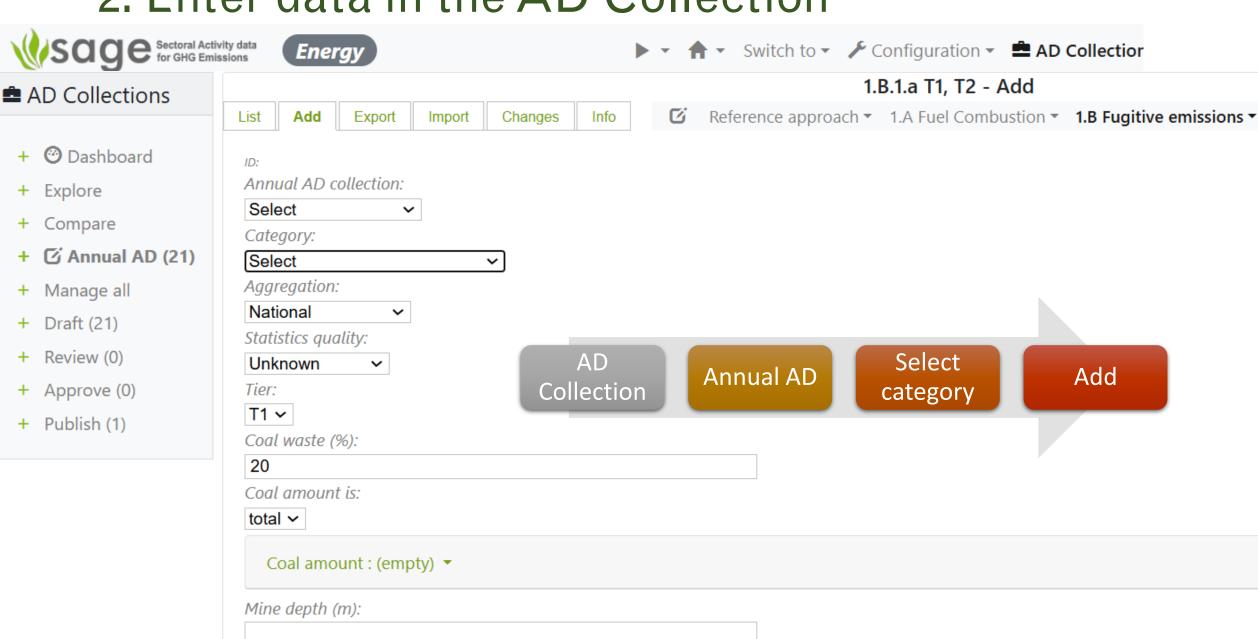


#### 1. Creating and entering the data in AD Collections

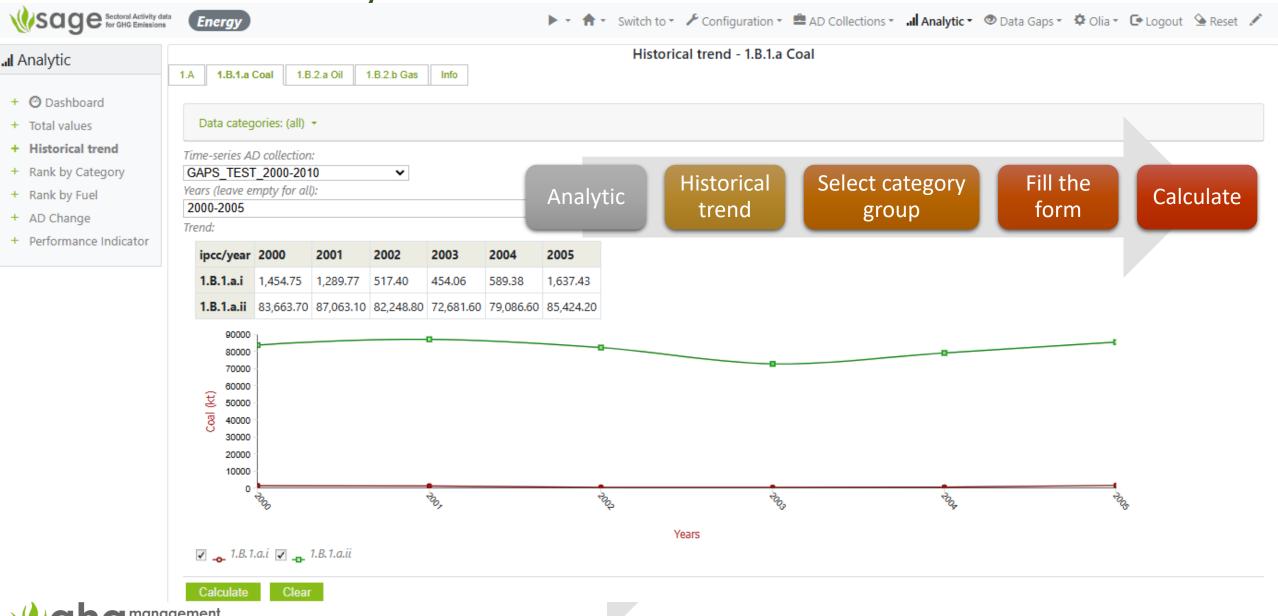


#### 2. Enter data in the AD Collection

Uncertainty details Set from default:



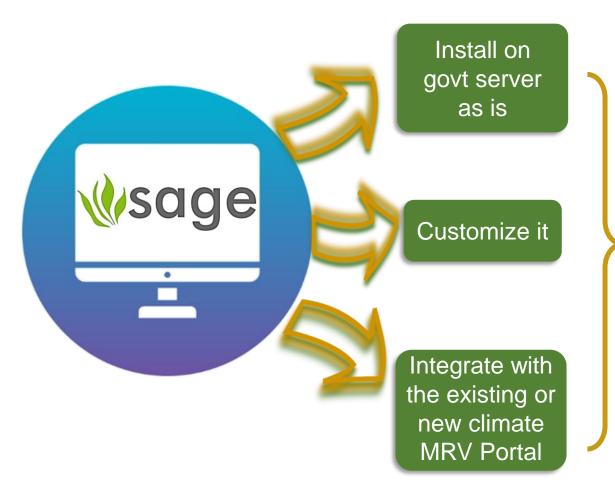
#### 3. Data analysis - Historical trend



#### 4. Data gaps – Extrapolation



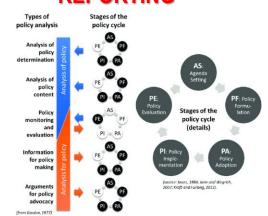
## How exactly can governments/companies use this technology toward their Enhanced Transparency Framework goals?



How can they use it?



### POLICY ANALYSIS & REPORTING





#### **MITIGATION**



What can they use it for?



#### How to learn more about it and acquire it?

https://ghginstitute.org/sage/

https://unfccc.int/process-and-meetings/transparency-and-reporting/support-for-developing-countries/ghg-support#eq-4



## Thank you!





### Exercise 1

Individual exercise (if the internet allows)

Please follow the instructor's lead

#### 1. Create Activity data collection

Login to SAGE

### https://cop29.sage-test-25.xyz/

sageX

- (X = 1 70), e.g., sage 10
- sagecop29

Energy AD Manage all Add

- Time-series AD collection = sageX\_2022-2024 (X is the number assigned to you)
- Add multiple = select
- Years range = 2022-2024
- Name = sageX\_2022-2024 (you can copy and paste)
- Description =my first AD collection, COP29
- Dates: from today to tomorrow
- Press ADD

#### 2. Add a new record using a form

AD Collection

**Annual AD** 

Select category

Add

- Time-series AD collection = sageX\_2022-2024\_2022
- Select 1.A Fuel Combustion → 1.A.3.a T1 (= tier 1)
- Click ADD (form appears)
- Name = sageX (your collection)
- Category = Domestic aviation
- Leave aggregation and statistics quality as is
- Fuel = aviation gasoline
- Click OK to invitation to set fuel parameters from IPCC defaults



- Enter some fuel consumption data:
  - Value = 1000
  - Unit = TJ
  - Type = survey
  - Source = "National fuel statistics
  - Date = today
  - Reference = COP29
- Uncertainty: Set from default
- Press Save

#### 3. Calculate the AD change between selected two years

Analytic AD change Select category group Fill the form Calculate

- Category: pick 1.A.2.a/Iron and Steel
- Time-series = *GAPS\_TEST\_2000-2010*
- Sum sub-categories leave empty
- Years = 2000-2005
- Click Calculate
- Now select years 2000 and 2005
- Click Calculate
- What did you get?

#### 4. Data gaps

Data Gaps Find Select category Fill the form Search "Eye" Inter/Extrapolate

- Click Data gaps → Find (links on the top of each page)
- In Find: Click on the tab *Data Gaps 1.B.2.a*Oil
- Time-series = *GAPS\_TEST\_2000-2010*
- Years = 2000-2010
- Click on the "eye" icon
- Select Inter/extrapolate

- Click Search
- What did SAGE tell you? (also look at the R-square value under the graph)
- Unselect the year 2005 (the outlier) and click Calculate
- Can you see the warning from SAGE now? (look again at the Rsquare value under the graph)

### Exercise 2

Group exercise (if the internet allows)

In your groups, attempt the questions provided:

Group 1: Q1 – 2

Group 2: Q3 – 4

Group 3: Q5 - 6

#### For ALL groups, for all tasks

- Please use the EXERCISE 2.docx file
- The questions and the additional data are provided in the file for you
- Each question contains a hint with the pathway and the additional data (where needed)

#### **Country A scenario**

Country A produces ammonia with the main purpose of synthetic N fertilizer production (Urea). It takes approximately 0,57 tonnes of ammonia to produce 1 t of urea. Approximately 80% of all produced ammonia is used for making urea annually. The base year = 2000, the final reporting year = 2020.

- Click on Switch to Quick links (links on the top of each screen)
- Select 2. IPPU
- Use AD collection IPPU\_TEST\_2000-2020, category 2.B.1 (Ammonia production)

#### Thank you!

### Let's work #Together4Transparency!



bit.ly/T4TGroup

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bit.ly/T4TAttendanceStats

Help us shape future events with this 30-sec survey