



Ministry of the Environment



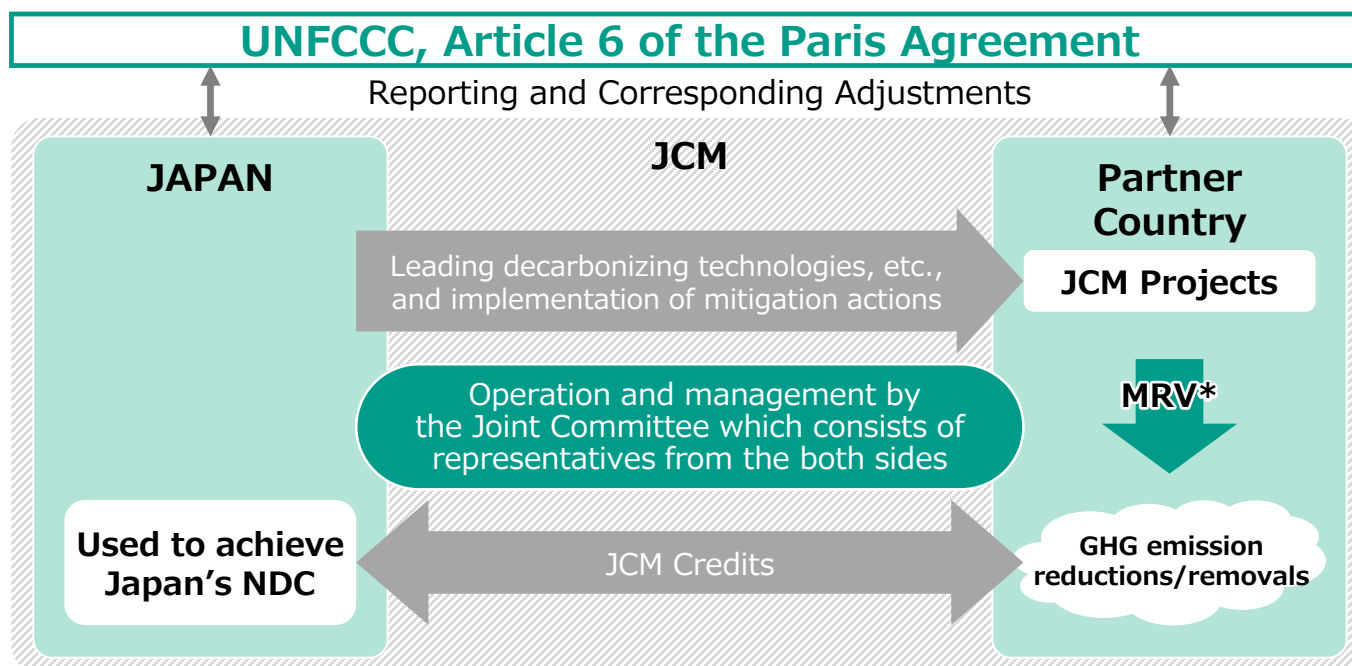
# **Recent Development of the Joint Crediting Mechanism(JCM) and Article 6 capacity building**

Ministry of the Environment, Japan

# Basic Concept of the JCM



- Facilitate diffusion of leading decarbonizing technologies and infrastructure, etc., through investment by Japanese entities, thereby contributing to GHG emission reductions or removals and sustainable development in partner countries.
- **Contribute to the achievement of both countries' NDCs** while ensuring the avoidance of double counting through corresponding adjustments.
- Implement the JCM consistent with the guidance on cooperative approaches, referred to in Article 6, paragraph 2 of the Paris Agreement.



\*measurement, reporting and verification

# JCM Partner Countries (25 countries)



**Mongolia**  
Jan. 8, 2013 (Ulaanbaatar)



**Bangladesh**  
Mar. 19, 2013 (Dhaka)



**Ethiopia**  
May. 27, 2013 (Addis Ababa)



**Kenya**  
Jun. 12, 2013 (Nairobi)



**Maldives**  
Jun. 29, 2013 (Okinawa)



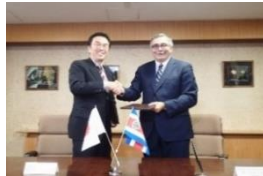
**Viet Nam**  
Jul. 2, 2013 (Hanoi)



**Lao PDR**  
Aug. 7, 2013 (Vientiane)



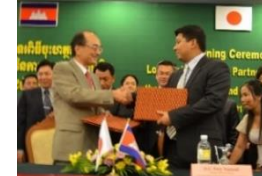
**Indonesia**  
Aug. 26, 2013 (Jakarta)



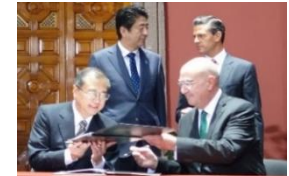
**Costa Rica**  
Dec. 9, 2013 (Tokyo)



**Palau**  
Jan. 13, 2014 (Ngerulmud)



**Cambodia**  
Apr. 11, 2014 (Phnom Penh)



**Mexico**  
Jul. 25, 2014 (Mexico City)



**Saudi Arabia**  
May. 13, 2015



**Chile**  
May. 26, 2015 (Santiago)



**Myanmar**  
Sep. 16, 2015 (Nay Pyi Taw)



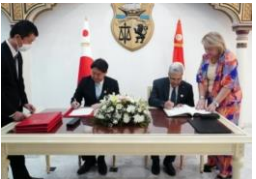
**Thailand**  
Nov. 19, 2015 (Tokyo)



**Philippines**  
Jan. 12, 2017 (Manila)



**Senegal**  
Aug. 25, 2022 (Dakar)



**Tunisia**  
Aug. 26, 2022 (Tunis)



**Azerbaijan**  
Sept. 5, 2022 (Baku)



**Moldova**  
Sept. 6, 2022 (Chisinau)



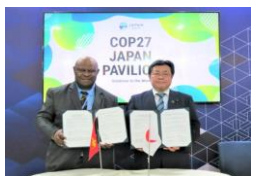
**Georgia**  
Sept. 13, 2022 (Tbilisi)



**Sri Lanka**  
Oct. 10, 2022 (Colombo)



**Uzbekistan**  
Oct. 25, 2022 (Tashkent)



**Papua New Guinea**  
Nov. 18, 2022 (Sharm-el-Sheikh)

# Activities related to the JCM by Government of Japan



## Capacity building

- Article 6/ETF
- Secretariat work for the JCM
- Partnership for Market Implementation Facility [World Bank]
- City-to-city cooperation
- Training for TPEs



## Project development

- Seminars/workshops
- JCM Global Match (biz matching website)
- Consultation with project developers/consultants
- City-to-city cooperation
- JCM Feasibility Study



## Project implementation

- JCM Model Projects
- Japan Fund for the JCM [ADB]
- F-gas Recovery and Destruction Model Project
- Financial support for projects [UNIDO]
- JCM Demonstration Projects

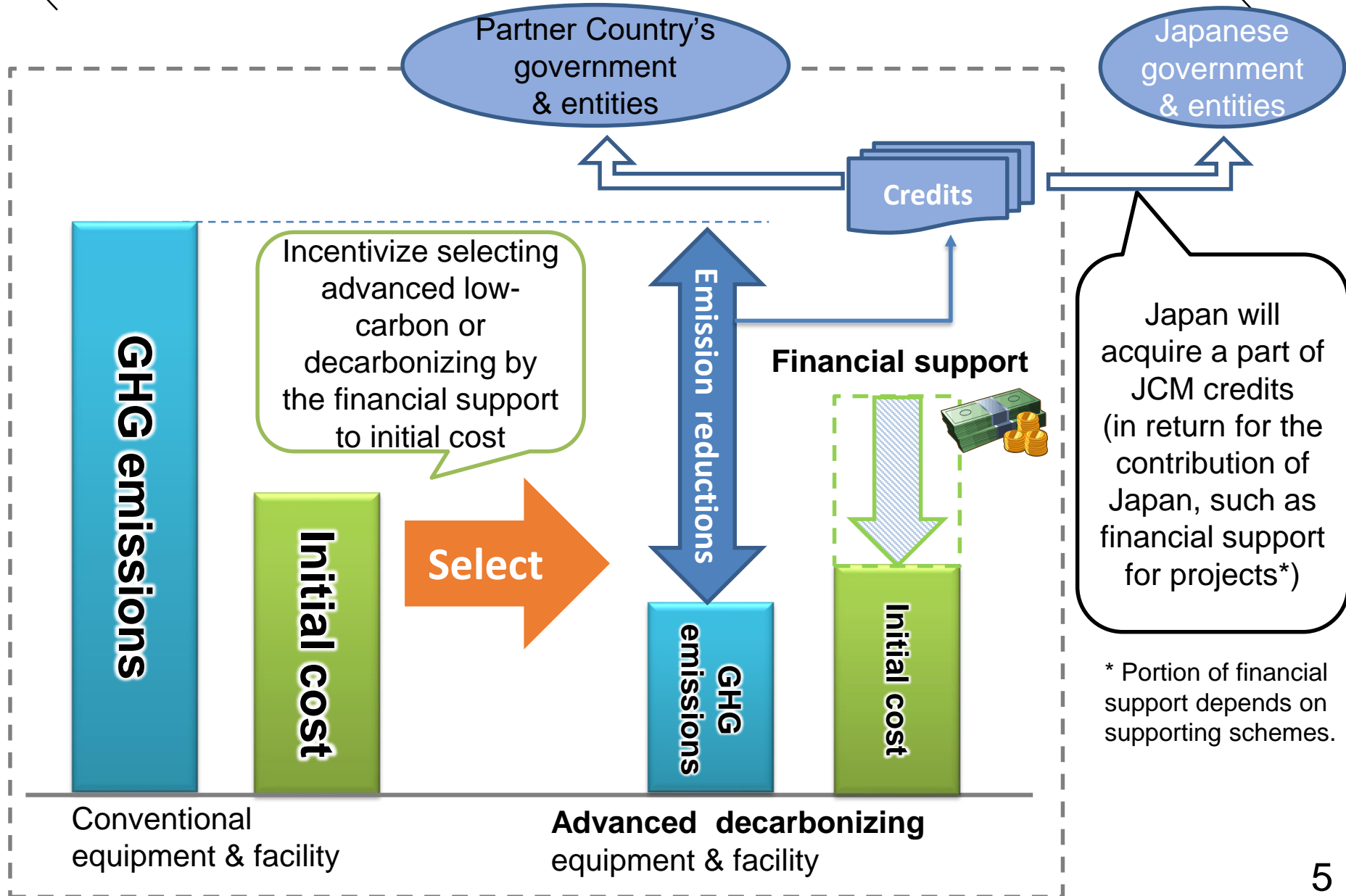


## Monitoring/evaluation

- Support for MRV (development of methodology and project design document, validation and verification by TPEs)
- Secretariat of the Joint Committee
- Support for establishment of a registry

Outreach activities through [Carbon Markets Express](#) (website)

# Contribution from Japan (example)



# Overview of Japan's support for the JCM partner countries



Ministry	Programme	Type of support
Ministry of the Environment	JCM Model Project*	Subsidy
	F-gas Recovery and Destruction Model Project*	Subsidy
	Japan Fund for the JCM (JF JCM) - managed by ADB	Grant (Sovereign) / Interest Buy-down (Non-sovereign)
	JCM support programme by UNIDO*	Grant for projects, technical cooperation
	Project development/capacity building/MRV support	Technical cooperation
Ministry of Economy, Trade and Industry	JCM Feasibility Study	Technical cooperation
	JCM Demonstration Projects	Government-commissioned project
Forestry Agency	Field studies for JCM REDD+	Technical cooperation

\* These programmes can support projects implemented by government-owned companies but not those implemented by the government itself.

## Projects supported by the JCM financing programmes in Mogolia



Project Title	Selected Year	Type	Expected GHG Emission Reductions (tCO <sub>2</sub> /year)
Improving Access to Health Services for Disadvantaged Groups Investment Program	2019	ADB JFJCM	2,993
Fuel Conversion by Introduction of LPG Boilers to Beverage Factory	2019	JCM Model Project	4,783
Upscaling Renewable Energy Sector Project	2018	ADB JFJCM	6,423
Introduction of 15MW Solar Power System near New Airport	2017	JCM Model Project	18,438
Installation of 8.3MW Solar Power Plant in Ulaanbaatar suburb Farm	2016	JCM Model Project	9,585
Installation of 2.1MW Solar Power Plant for Power Supply in Ulaanbaatar Suburb	2015	JCM Model Project	2,424
10MW Solar Power Project in Darkhan City	2015	JCM Model Project	11,221
Upgrading and Installation of Centralized Control System of High-efficiency Heat Only Boiler (HOB)	2013	JCM Model Project	298

# JCM model projects in Mogolia

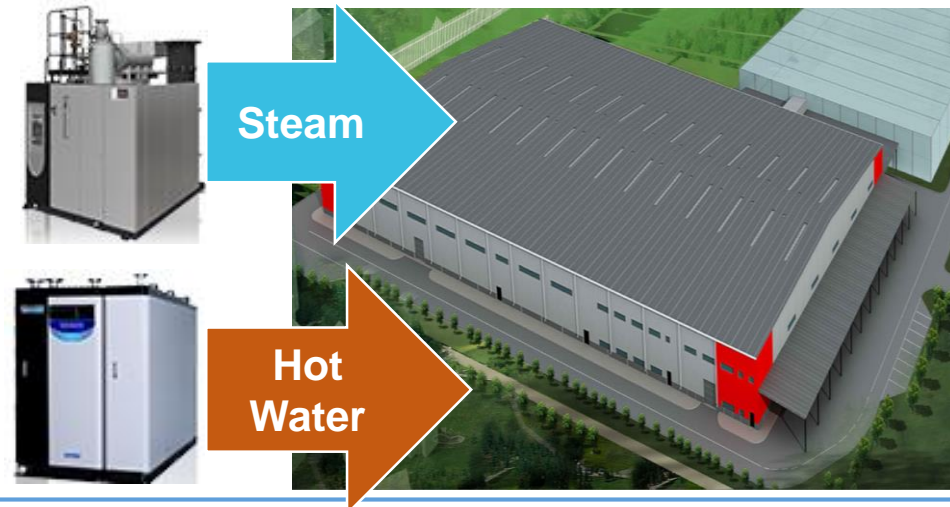


## Fuel Conversion by Introduction of LPG Boilers to Beverage (2019)

(PP (Japan): Saisan Co., Ltd., PP (Mongolia): MCS International LLC, MCS Coca Cola LLC)

### Outline of the Project

- LPG boilers are introduced for the purpose of mitigation of greenhouse gas (GHG) emissions as well as air pollution in Ulaanbaatar City.
- By introducing the most efficient and newest model of LPG once-through boilers and vacuum type water heaters, the efficiency of the system is improved with less fuel consumption.
- GHG Emission Reductions are expected to 4,783 tCO<sub>2</sub>/year.

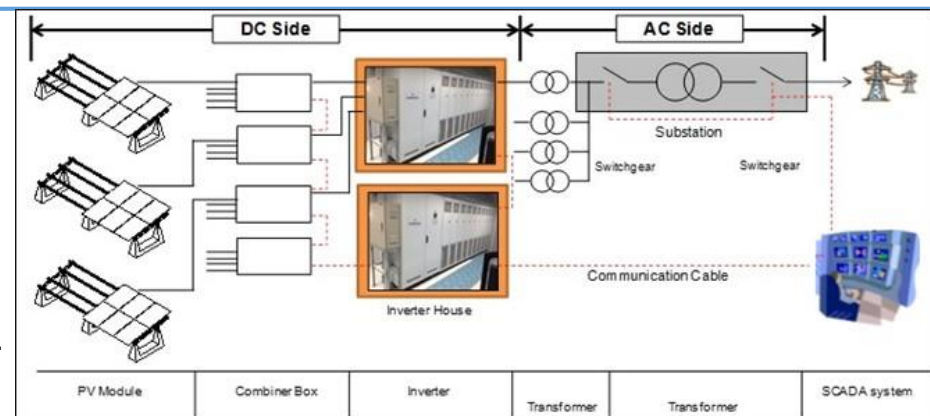


## Introduction of 15MW Solar Power System near New Airport (2017)

(PP (Japan): Sharp Corporation, PP (Mongolia): Tenuun Gerel Construction LLC)

### Outline of the Project

- Sharp and Tenuun Gerel Construction LLC construct PV plant in Khushig khundii near New airport in Mongolia.
- This project contributes to Mongolian energy policy to increase renewables up to 30% by 2030.
- GHG Emission Reductions are expected to 18,483 tCO<sub>2</sub>/year.





# ADB JFJCM projects in Mongolia



## Improving Access to Health Services for Disadvantaged Groups Investment Program (2019)

(Implementing Agency : Ministry of Health Mongolia)

### Outline of the Project

- With the support from JFJCM with \$3.48 million grant, the project aims to introduce advanced energy efficient and renewable energy technologies to health facilities, namely Khan Uul district hospital and three family health centers (FHCs) both in Ulaanbaatar.
- GHG Emission Reductions are expected to 2,993 tCO<sub>2</sub>/year.



## Upscaling Renewable Energy Sector Project (2018)

(Implementing Agency : Ministry of Energy Mongolia)

### Outline of the Project

- JFJCM provided \$5 million grant for the implementation of 5MW solar PV, 3.6 MWh advanced battery energy storage system (BESS) and energy management system (EMS) in Uliastai, Zavkhan province. The project is part of the ADB-financed “Upscaling Renewable Energy Sector Project” in Mongolia, which plans to install 41 MW of new renewable energy in the Western and Altai-Uliastai regions.
- GHG Emission Reductions are expected to 6,423 tCO<sub>2</sub>/year.



# Paris Agreement Article 6 Implementation Partnership Towards High Integrity Carbon Markets



## Background

- Capacity building support for countries and relevant parties as well as global collaboration among international organizations are essential for swift and robust implementation of “high integrity carbon markets” aligned with Article 6 of the Paris Agreement.
- “High integrity carbon markets” will vitalize global decarbonization markets and private investment.
- Japan will continue working to achieve global emission reductions and decarbonization through the efforts of the “Article 6 Implementation Partnership”.

## Overview

Promoting international collaboration for capacity building related to the Paris Agreement Article 6, including by sharing good practices and supporting the implementation of Article 6.

## Participants

46 countries • 25 international organizations (As of December 21)

### Countries

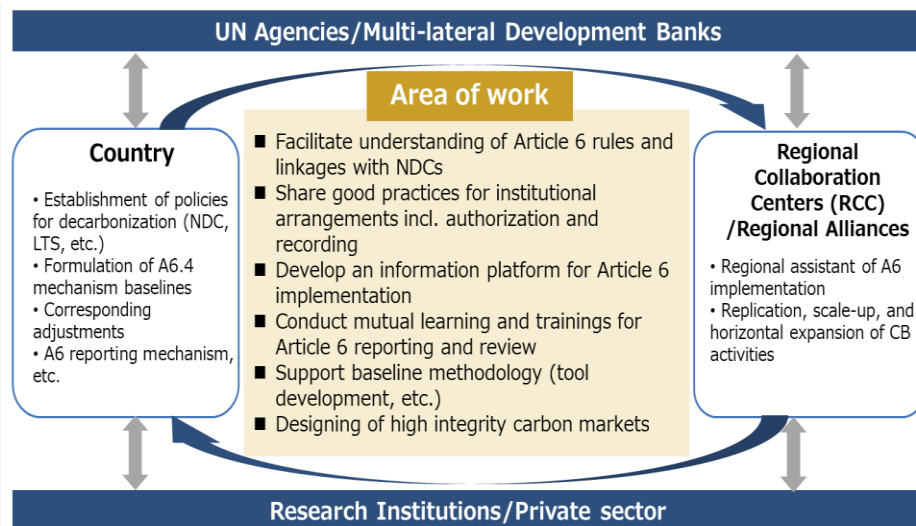
US, UK, Germany, France, Italy, Australia, Canada, **Mongolia**, NZ, Switzerland, Brazil, India, Kenya, Ethiopia, Uganda, UAE, Thailand, Maldives, Palau, etc.

### Organizations

UNFCCC secretariat, UNEP, UNDP, UNIDO, World Bank, ADB, AFD (African Development Bank), EBRD (European Bank for Reconstruction and Development), etc.

## Launch event

- Date** November 16, 2022
- Venue** COP27 Japan Pavilion
- Main participants** Japan, US, Germany, Italy, NZ, Singapore, Sweden, Estonia, UNFCCC secretariat, World Bank, IETA



## Signature for collaboration

Letter of Intent signed on November 16, 2022, between Mr. Nishimura, Minister of Environment, and Mr. Stiell, Executive Secretary of the UNFCCC, on collaboration under this partnership.



# Plans of the Paris Agreement Article 6 Implementation Partnership up to 2023



## Outline

- Based on the decisions on the detailed rules for implementing Article 6 at COP27, **establish thematic working groups (WG) of (1) authorization, (2) reporting, and (3) tracking**, necessary for the implementation of Article 6, and **provide supports for capacity building (CB) and institutional arrangement**, mainly targeting government officials.

## Milestone

- # of countries, including LDCs and SIDs, to be able to prepare and submit their initial report

## Activities

### Thematic WGs

#### Authorization

Support countries' authorization (capacity building for government officials, setting policies and guidelines, etc.)

#### Reporting

Support developing initial, annual(AEF), and regular reporting

#### Tracking

Support introducing national registry, utilizing international registry

\*WGs are open for all partners, where they are encouraged to share their information and experiences and to identify issues to address, such that where and what kind of capacity building supports are provided or lacking.

## Information Platform

- Regularly share information on CB and other related events **via the mailing list**.
- Disseminate case studies and good practices through the **web-based information platform** (Improvement of the Partnership website)

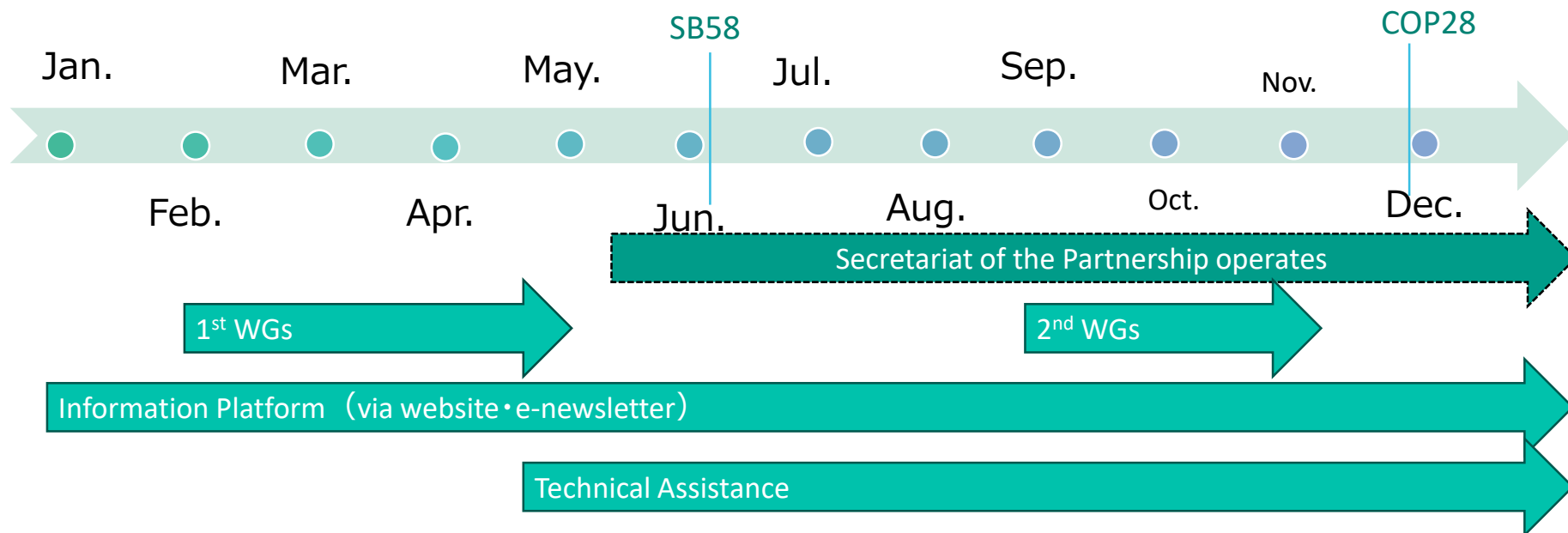
Partnership Website:  
<https://A6partnership.org>



## Technical Assistance

- Practical training and mutual learning on WG themes (Training on how to use Article 6 based on experience of JCM)
- Technical assistance on development of methodology

# 2023 Schedule for the Paris Agreement Article 6 Implementation Partnership



## Agenda of 1<sup>st</sup> WGs (tbc)

Theme	Agenda
Plenary WG	A6IP work plan for 2023, introduction of WGs, UNFCCC and WB's capacity building plans
Authorization WG	Sharing of countries' authorization processes and institutional arrangements
Reporting WG	Implementing A6 reporting using formats Learning reporting formats (initial report and annual information)
Tracking WG	Case studies on development and operation of registries



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