



Digital Public Goods for Climate Transparency:

National NDC Transparency System

Challenges in climate data collection & reporting



Lack of data availability

Data spread
"everywhere" across
organizations,
owners

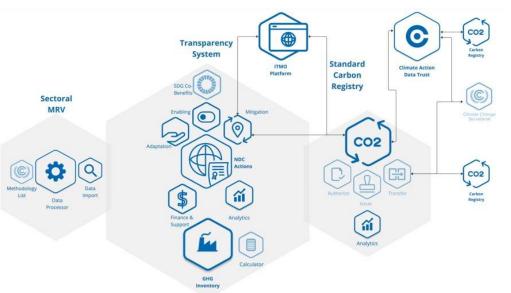
Lack of trust in data quality and accuracy

Limited human capacity: Time consuming

Manual Reporting to UNFCCC High cost and timeline to build digital tool from scratch

SOLUTION: Supporting National Transparency Systems with a Digital Public Good codebase





- Open-source, Digital Public Good codebase for any country to install and adapt
- National Sovereign system to track and manage NDC actions, GHG inventory, carbon credits etc.
- Collectively built and managed with inputs from 40+ countries and experts, following international guidelines
- Facilitate Interoperability with major platforms to enable end-to-end reporting and carbon credit trade









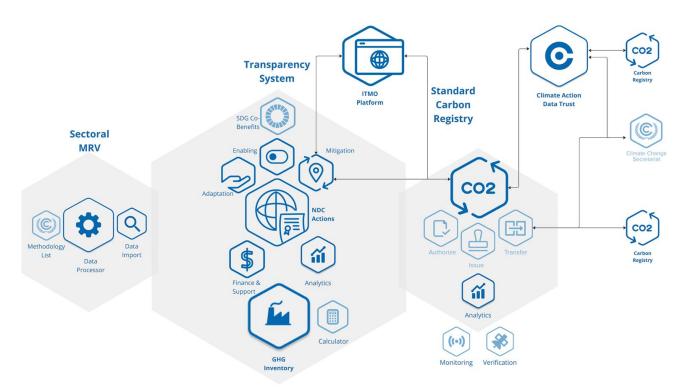






Part of an Ecosystem of digital tool for climate transparency

UNDP have formed the **Digital for Climate** working group with World Bank, EBRD, UNFCC, and others to agree on standards, share best practices, and build an ecosystem of interconnected and interoperable tools for climate.













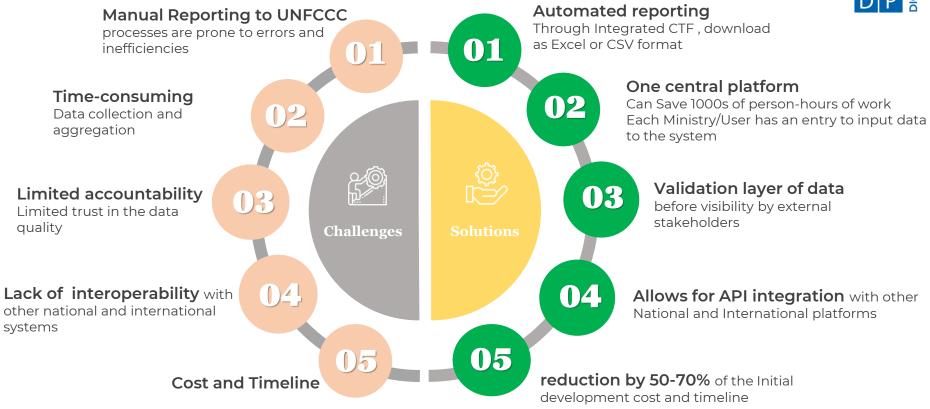






DPG National MRV System as the solution





System MVP: Key features



The digital public good system enables countries to securely compile and report climate actions, progress, and support under the Paris Agreement's Enhanced Transparency Framework (ETF).

Customizable to government needs, it ensures compliance with ETF guidance for Biennial Transparency Reports.

Future improvements will integrate the system with other registries, databases, and adaptation reporting.



Information Structure

The different modules follow the information structure often used when countries plan and implement climate actions.



Validation

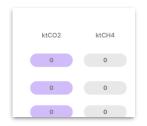
Governments can assign users to validate the information provided for each climate action, programme, project, activity and support before reporting.



Standard Reporting

Data is automatically consolidated using the Common Tabular Formats of the ETF.

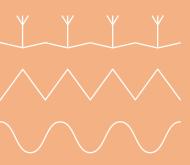
Needs integrating with UNFCC registry to automatically export data.



GHG inventory

Helps governments project emissions based on standard exponential modelling by input modelling data from other software and models.

Needs integrating with IPCC software to automatically import data.





Demo:

National NDC Transparency System

Country needs to set up and configure



Phase 0	Phase 1	Phase 2	Phase 3	Phase 4	BAU
Code base	Planning	Scoping	Develop / Configure	Install, test, handover	Run, maintain
Maintained by UNDP's Digital 4 Planet team, the Github contains code for a generic software that needs to be configured and installed locally	Government to: - Gather high level requirements - Set up governance, budget - Decide on hosting option (cloud vs server) - Recruit local IT vendor & local carbon market expert	 Define country specific scope, assess carbon market framew ork and needs Identify existing projects, processes Design and test local MVP Define local features, users 	 Prepare server and tech requirements Install opensource code on test server Configure system and develop API End to end testing with pilot users 	 Finalize/accept system based on testing Create and rollout training Use feedback to improve source code 	 Government maintains service, manages users and collects data Ongoing maintainence, new features Participates in Community of Practice
	Plan1-6 months	ղ Կ Ի	 Plan5-7 months, \$ 85,00	00	X-yēārs (~10,000/year)

Detailed WP & Budget for program integration

Planning DPG Registry & Transparency system - Copy.xlsx



			DPG Digital Trans	sparency Syste	em Sample Workplan	
Steps (Checklist	Activities	Category	Duration	Responsible	Provision
1a. Plannin	ng Phase					
1.1		High-level Requirement Gathering Workshop(s) to assess the country's existing MRV systems to track and report on progress on climate action under the Paris Agreement. Assess institutional setup for data sharing, procedures, and responsibilities. Review existing digital tools, new digital requirements, policy and funding commitments, timeline, budget, ownership, existing resources and gaps needed for procurement. Discuss and agree on which government agency will host and own the product.	Requirements		UNDP CO	xx
1.2		Start IT dicussions: Connect the DPG team with IT colleagues from Government. Discuss tech constraints, requirements, and hosting options: local server or AWS cloud. (The current product system set-up is optimized for AWS, UNDP recommends AWS cloud & will support setting up the right service structure in AWS]. Understand what existing IT capacities there are and if additional support needs to be procured.	Tech	1-3 months	UNDP CO, Gov IT	XX
1.3		Identify and form task force made of representatives from relavent policy areas and IT who will make key decisions during Scoping, act as the Administrator, engage users, and maintain/own the service after	Governance		Gov	
1.4		Review budget and funding sources for the project. This includes budget for the IT setup (server, domaine name, security sertificates), any additional capabilities that need to be procured and engaged (see below) and at least 1-3 year maintainence cost (including maintainence team). Prepare TORs for procurement.	Budget		UNDP CO/Gov	
1b. Procure	1b. Procurement Phase					
1.5		Procurement of local IT vendor for the installation/set-up and local configurations of the system ~ 40 days	Capability		UNDP CO	~20,000 USD
1.6		Procurement of local Transparency expert to ensure alignment with national transparency requirements ~ 40 days	Capability]	UNDP CO	~20,000 USD
1.7		(Optional) Engage International IT vendor (on UNDP framework) for capability support, knowledge transfer, and quality assurance ~ 5 days	Capability	1-3 months	UNDP CO	~3,000 USD
1.8		Engage International MRV expert (on framework) for capability support, knowledge transfer, and quality assurance (optional) ~ 6 days	Capability		UNDP CO	~4,800 USD
2. Scoping	Phase		'		1	'
2.1		Review Existing MRV Framework: Detailed review and analysis of the country's existing MRV systems - Map the core information and data needed for the national MRV system to template (taking into account international reporting requirements such as GHC inventories, BURS, BTRS, and National Communications) - Gather existing data sources, best practice requirements, reporting templates, producing a review report	Requirements		Local MRV expert, international MRV expert	xx
2.2		Set up working group governance: Setup weekly core team working group (made of vendor, UNDP and core government representatives to discuss work in progress) and monthly steering group (to review decisions with government task force and IT). Identify project manager to make project plan and own progress.			Gov task force, UNDP CO	
2.3		Design information structure for MRV system: Identify what data exists/does not exist in the country, what	Requirements	2-4 weeks	Local MRV expert, international MRV	