

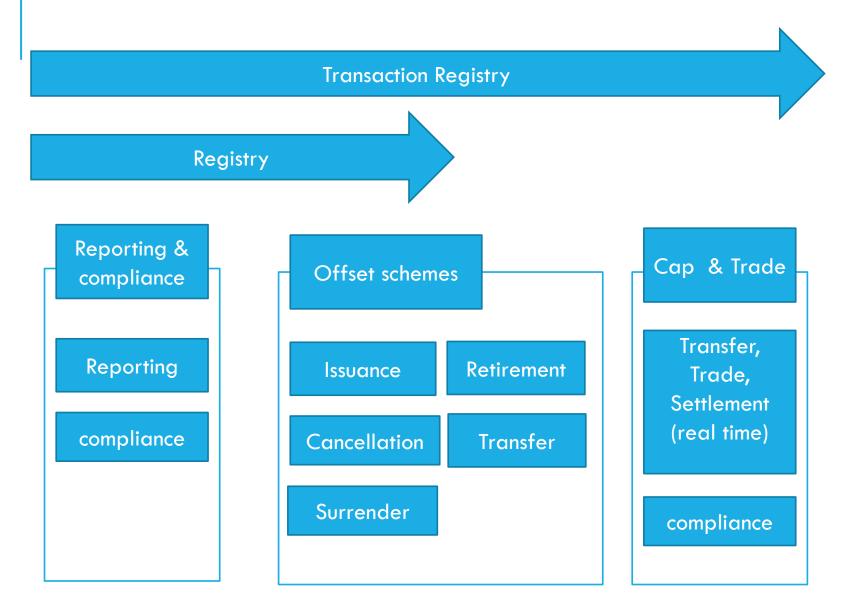
# GHANA'S CARBON REGISTRY

BY SAMSON BOTCHWAY

# REGISTRIES FUNCTIONS

- Record keeping
- Transactions
- Reporting

# SELECTING TYPE OF REGISTRY SYSTEM



## **Making Choice**

- 1. Type of market mechanism the register is going to serve eg. ITMOs, REDD+, cap & trade market
- 2. Size of market mechanism.
  Sector involved eg. 5 NDC areas
- 3. Scale of market volume of ER involved, degree of automation.
- 4. Potential to grow—possibility of linking system to others in the other countries.

# Emissions accounting system

GHG Inventory – record of GHGs and corresponding adjustments

Transaction Registry – record and tracking of ITMOs

Data management system – information on emission units, policy/projects

NDC tracking tool – tracking of NDC progress of implementation and achievement

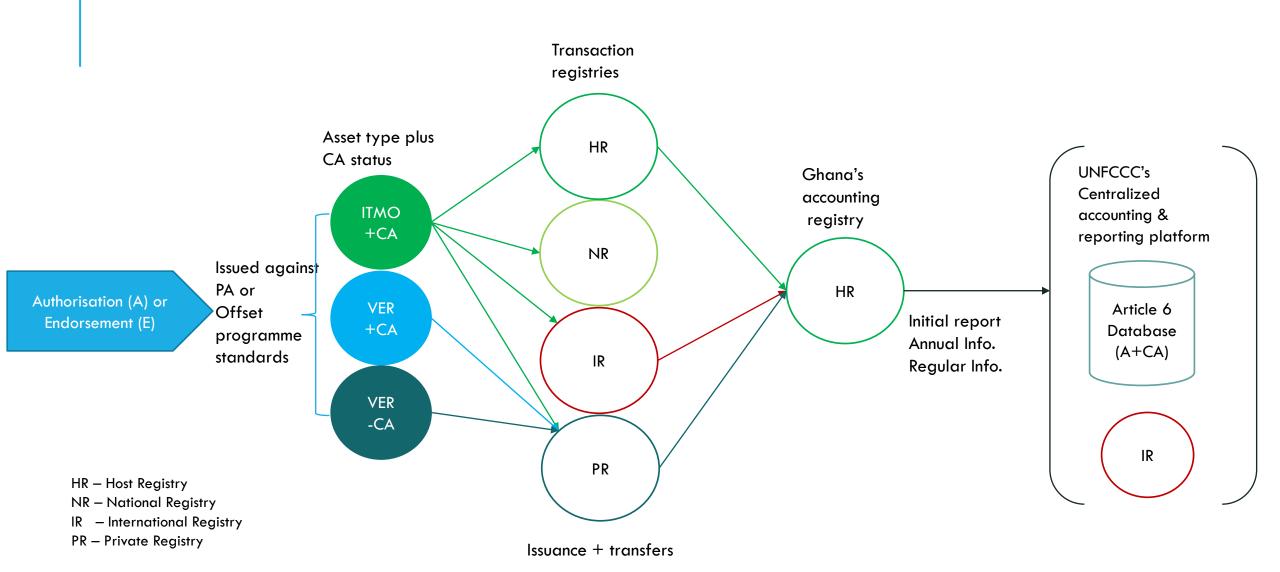
# KEY QUESTIONS FOR HAVING A REGISTRY

Type of registry (simple, complex, accounting registry or transaction registry).

What legal, institutional and technical framework required?

Resource available for the development, operation and management of the registries

#### ASSET TRANSACTIONS + TRACKING & RECORDING OPTIONS



# IT INFRASTRUCTURE

#### Software application (priority)

- Relational database (eg. Access, Sql, oracle)
- Web interface
- Mobile app for operators
- Source codes

#### Security (priority)

- User level Security
- Device Level Security
- SSL
- Regular Penetration Test
- Application access log

#### Hardware (priority)

- Operator (laptop, phone),
- Entity (laptop)
- National
  - server (local or cloud)
  - desktop/laptop

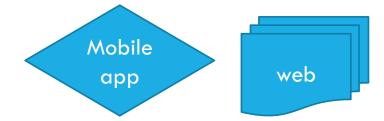
#### Internet connectivity

Integration (server-to-server integration)

Database and application backups

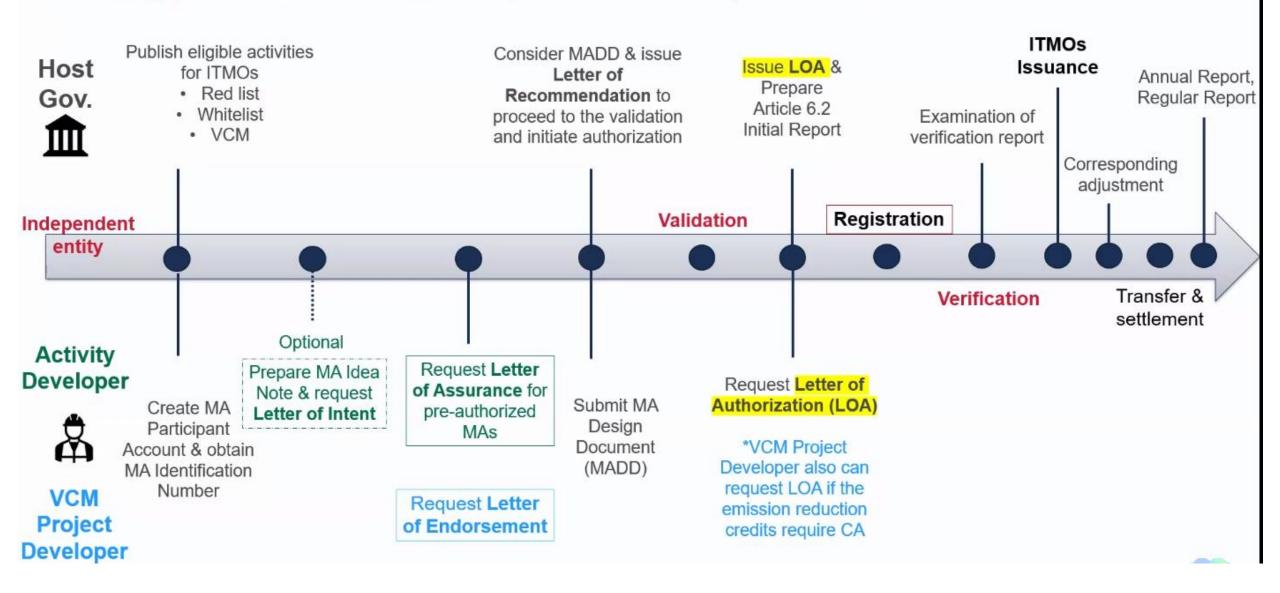
Disaster Recovery Plan







## Country process for ITMO authorization example – Ghana



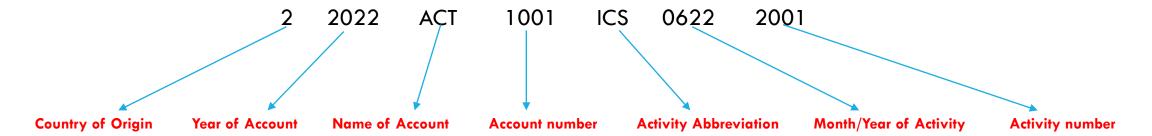
# ACCOUNT ID FORMAT (MID)

Variable	Definition of variable	Specifications
Country of origin	The country where the MAP is located and operate from	Ghana = 1
Year of account	The year in which the MAP accont was created on the GCR	Year = 2022
Name of account	Name of the MAP stated request for MAP account creation letter	Name = eg UNDP, KLIK, ACT
Unique account number	Number assigned on the GCR for the MAP	Begin numbering from = 1000
MAP account ID	Account ID created on the GCR for MAP	MAP Account: eg 22022klik1003 or 12022undp1002
Mitigiation Activity Abbreviation	Abbreviation of MAP seeking to create ID for an activity	Abb = ICS, AWD, NCEP
Year of project	Year/Month mitigation activty ID was created on the GCR	Year = MM/YY
Activity number	Number assigned to mitigation activity	Begin numbering from = 2000
LOD Reference number	Number assigneds to a service provider/VVE/carbon credit broker	Begin numbering from = 3000
Year of LOD	Year/Month LOD was created on the GCR	Year = MM/YY
UIN	LOD Reference and the activity number for a project	LOD+Activity number = 3001+Activity (30012001)

# MID

Transformative Cookstove In Rural Ghana by ACT Commodities

MID - 122022ACT1001ICS06222001

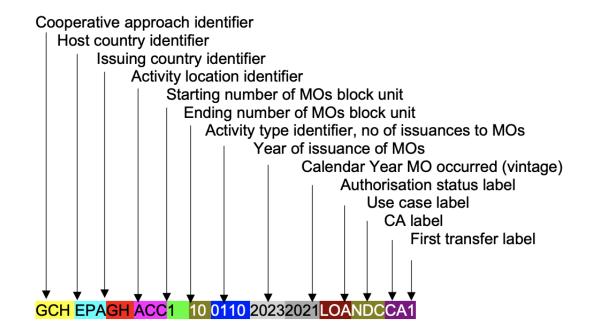


# SERIAL NUMBERING OF EMISSION UNITS

### managed by blocks of consecutive numbers

- (e.g., the block 501–1,500 is a block made up of 1,000
- similar units, of the same type label, vintage, and project).

The GCR will apply a unique identifier format and labels in the example bel where the Carbon Market Office issued ten tCO₂eq of MOs on the GRC into holding accounts of the mitigation activity developer.



# EXAMPLE OF INFORMATION NEED TO OPEN ACCOUNT



#### Mitigation Activity Participant or Entity Application Form

Submitted by:

Submission Date:

Full Name: Designation:

Signature:

Any mitigation activity developer that wants to create a MAP Account and Mitigation Activity Identification Number (MID) on the GCR, and/or wishes to obtain a letter of intent; and all entities who intend to engage in the Article 6.2 cooperative approach transaction or voluntary carbon market as a service provider or carbon credit broker or validation/verification entity aiming to receive to a letter of identification and unique identification number from the Article 6 Office must complete this form and submit using the web link - http://appgcr.epa.gov.gh/upload\_docx.php.

1. Activity	developer1	or entity2	background	information
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1.1 MAP or entity name:

1.2 Type of entity: Local Business

1.3 Entity application type: Choose an item

1.4 Country of operations:

1.5 Business area:

1.6 Sector: Choose an item

1.7 Business address:

#### 2. Activity developer or entity business information

2.1 Business registration number:

2.2 Business documentation: Attach the	e following applicable document
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☐ Certification of registration/incorporation (for activity developer and entity)

☐ Tax clearance certificate (for activity developer and entity)

☐ Mitigation Activity Concept Note (only for activity developers seeking LOI)

☐ EIA Permit (activities that require an EPA permit or LI 1652, 1999)

#### 3. Activity developer or entity contact person information

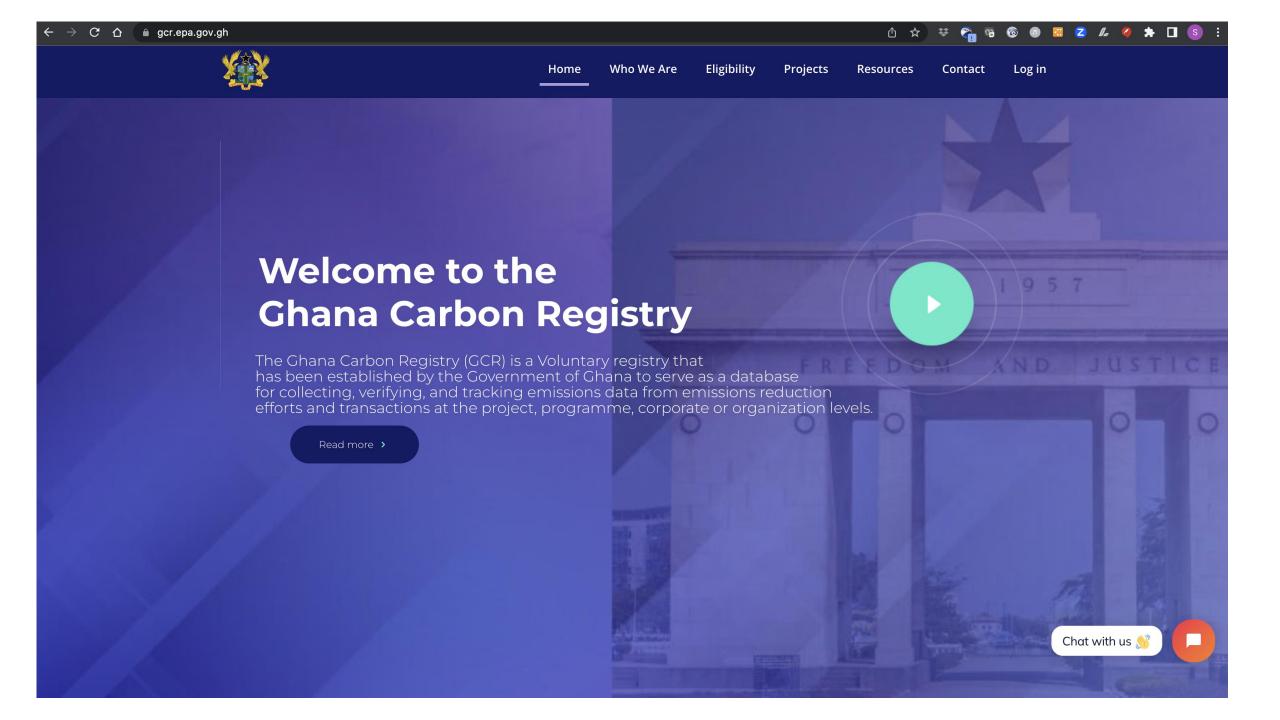
- 3.1 Name of key contact person:
- 3.2 Position of contact person:
- 3.3 Phone number of contact person:
- 3.4 Email of contact person:

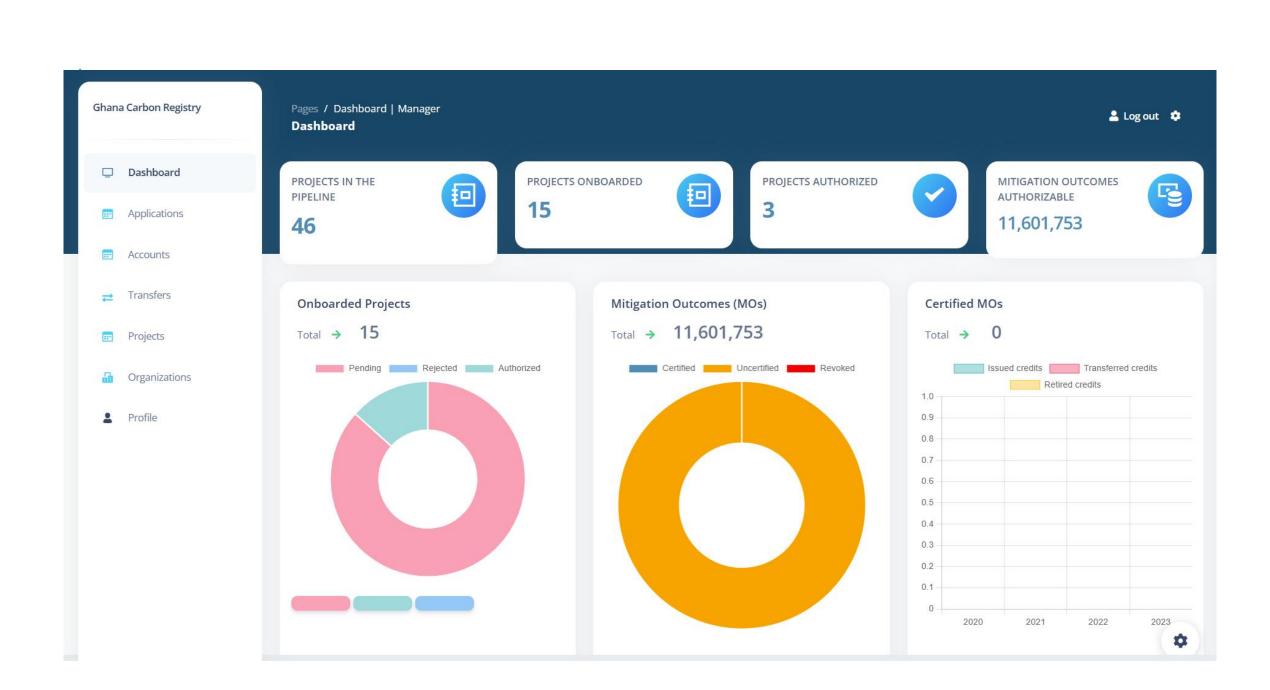
Note 1: Each activity developer must submit the completed form with all the attachments to receive MAP Account and MID with log-in credentials for unlimited users per Applicant upon payment of the amount stated in the fees schedule.

Note 2: Each SP, CCB and VVEs must submit the completed form with all attachments to receive a formal Letter of Identification with a unique identification number for listing on the GCR upon payment of the amount stated in the fees schedule.

<sup>&</sup>lt;sup>1</sup> MAPs – local or international companies or businesses involved in the developing and implementing eligible mitigation activities aiming to create authorised ITMOs for transfer to a participating Party or voluntary carbon projects seeking recognition and listing on Ghana's Carbon Registry.

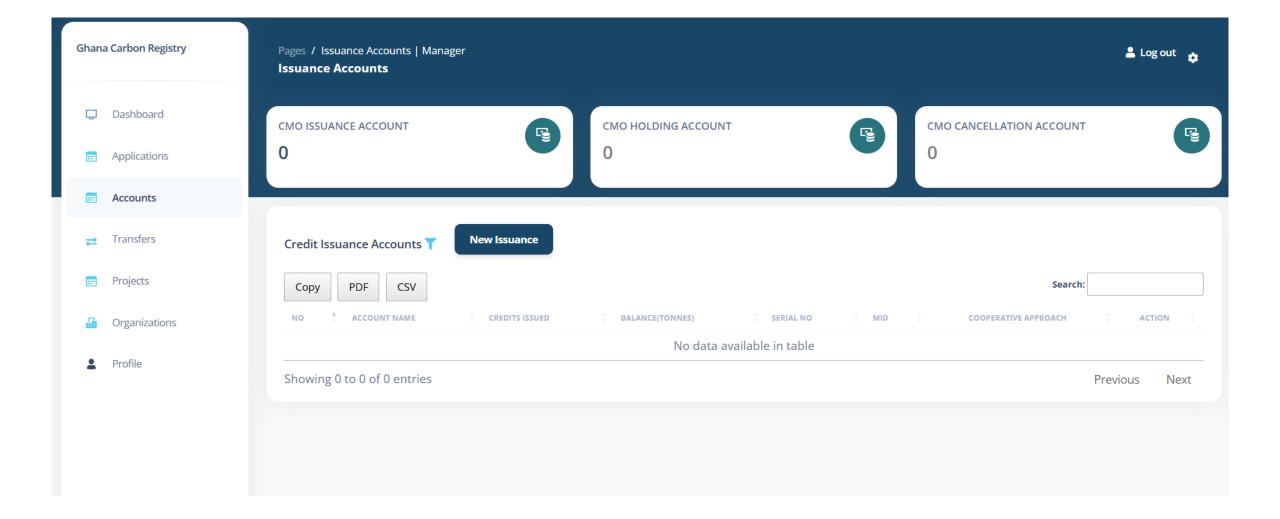
<sup>&</sup>lt;sup>2</sup> Entity - local or international companies or businesses providing services to mitigation activity participants on activity sourcing, conducting feasibility and development of activities, validation and verification, offering financial, monitoring and registry services, and carbon credit brokers (buying and selling).

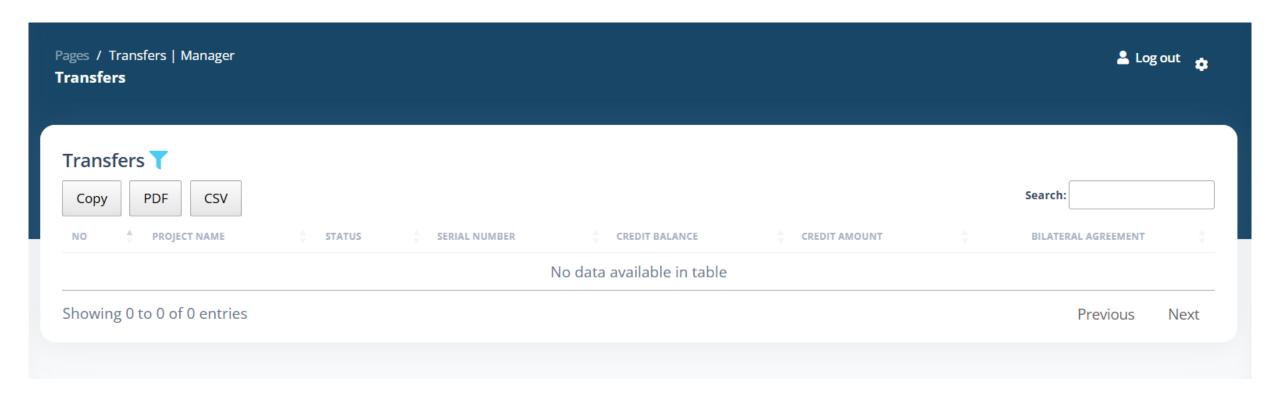




## Checklist

Checklist	Status	Check
Mitigation activity ID:	COMPLETED	22022ACT1001ICS06222001
MADD:	COMPLETED	
Letter of Recommendation:	COMPLETED	3.LOR_ICS.pdf
VVE ID:	COMPLETED	2022730012001A1000
VVE LOD:	COMPLETED	Carbon Check_ICS_Mitigation Activity Participant and Entity Application F
Validation Report:	COMPLETED	Final Validation Report ICS Ghana.pdf
Authorization Request:	COMPLETED	ACT Request for authorization.pdf
Article 6.0 Initial Report (AIR):	COMPLETED	Article 6 Updated Report_3.docx
Authorization Letter:	COMPLETED	ACT_A6 Letter of Authorization.PDF





# Thank you