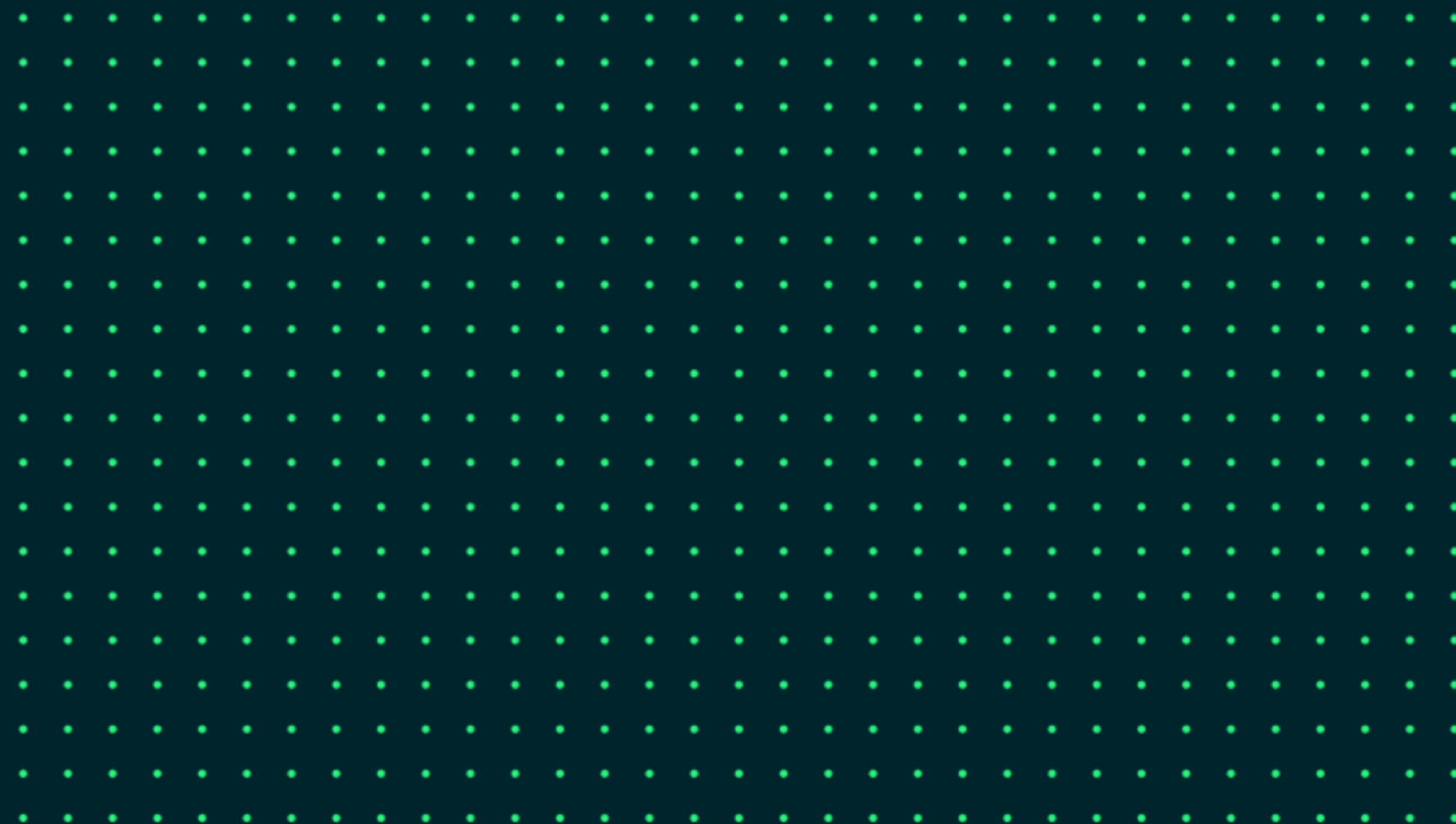


Connecting carbon markets
through open data



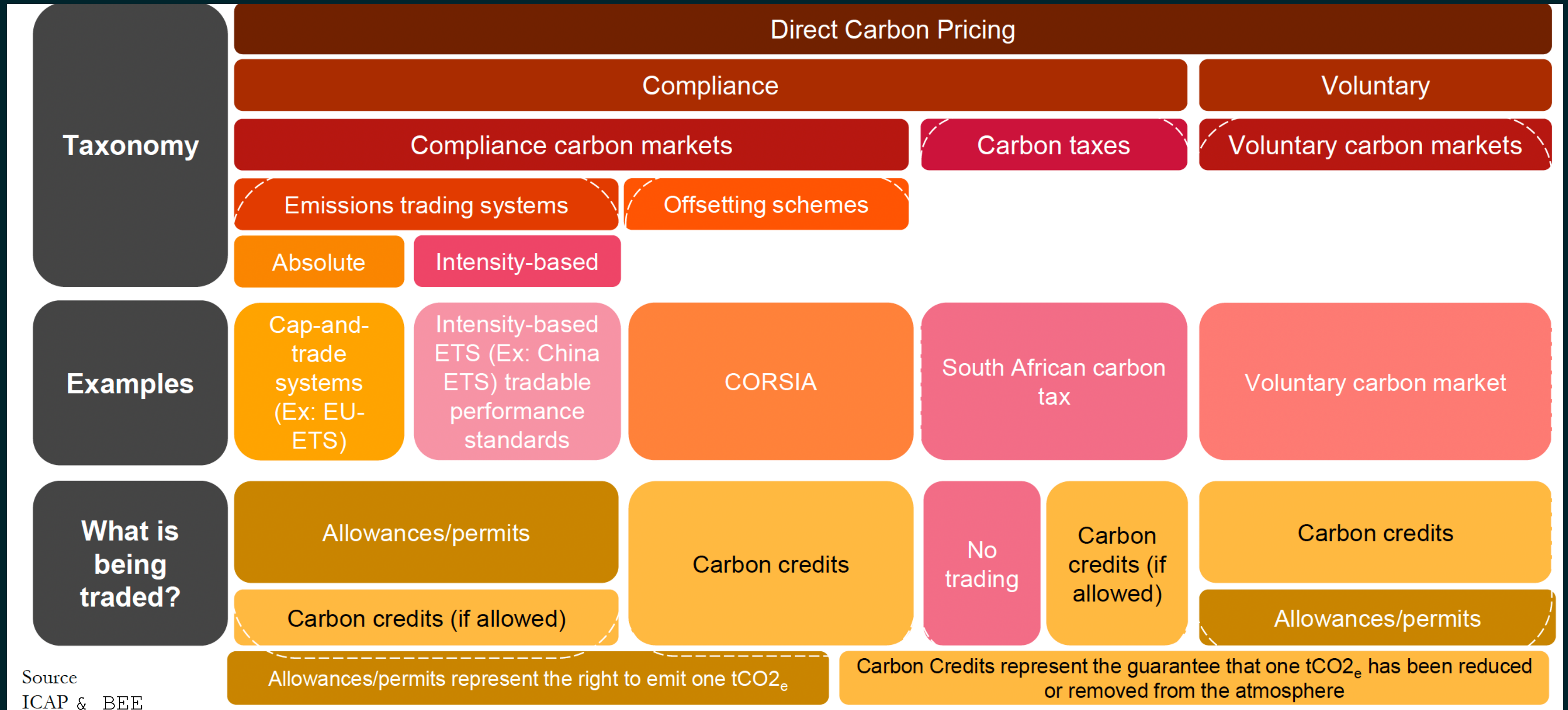


1. International Carbon Market
2. Indian Carbon Market
3. Global Carbon Market Transparency Initiatives



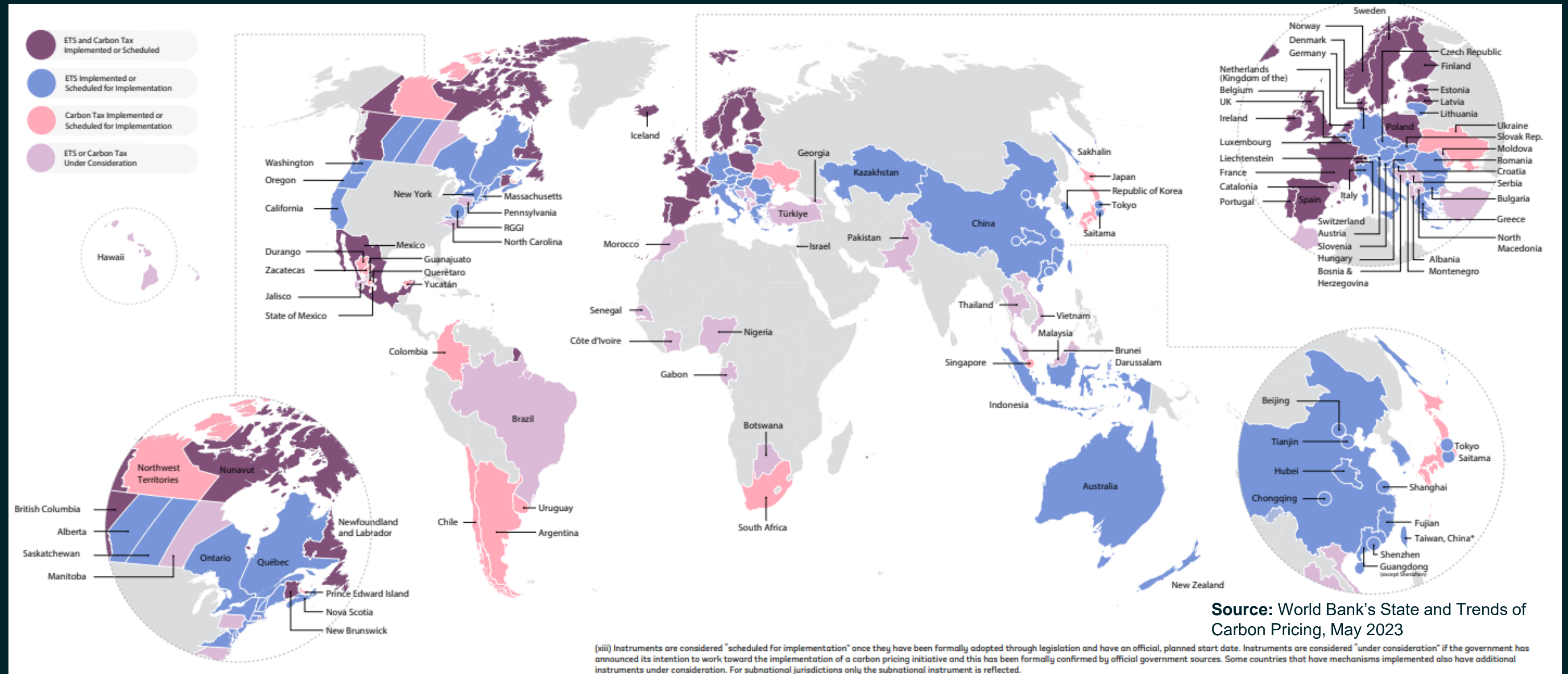
1. International Carbon Market

Carbon Market Taxonomy

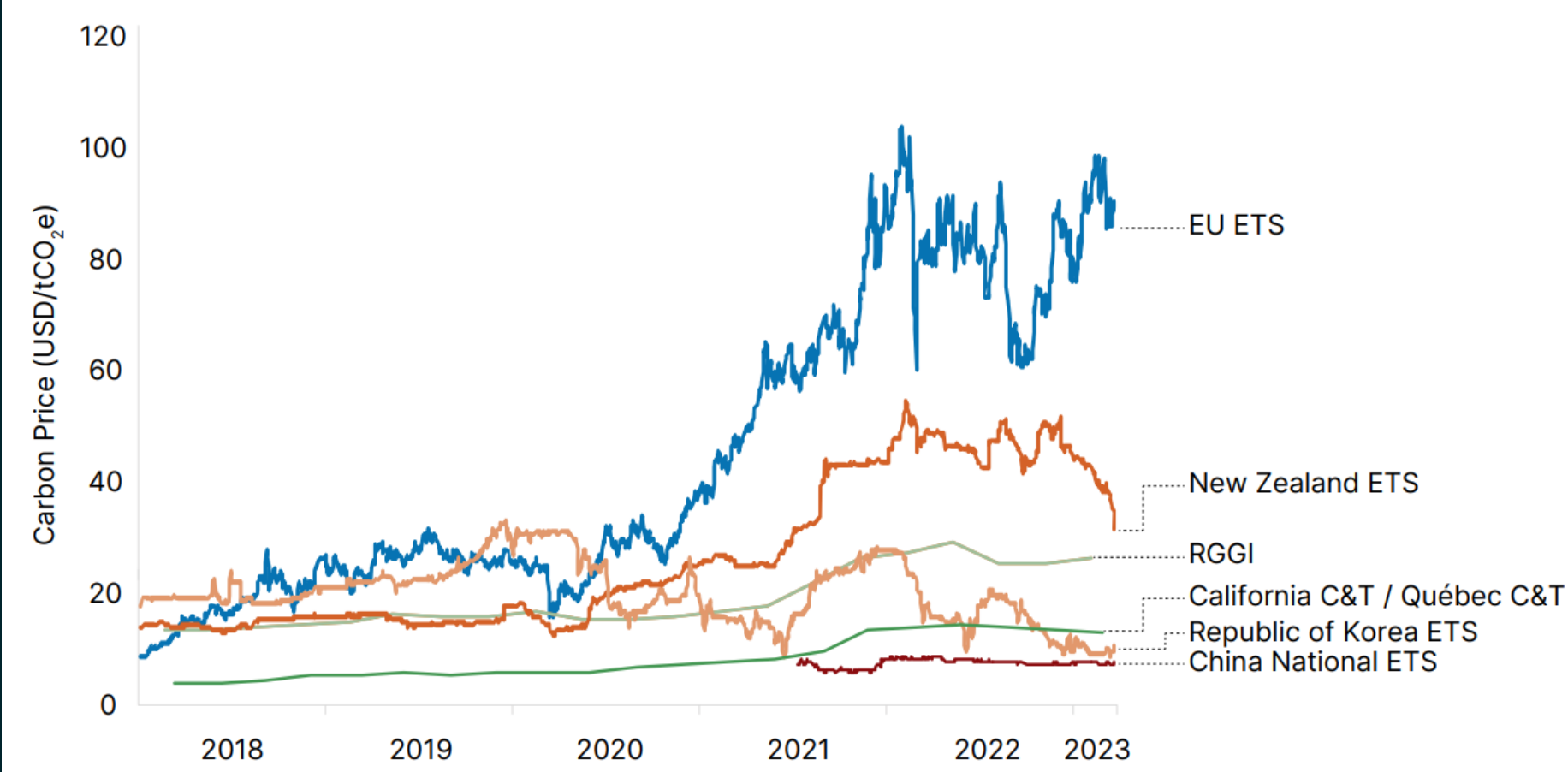


Carbon Pricing Instruments : On the Rise

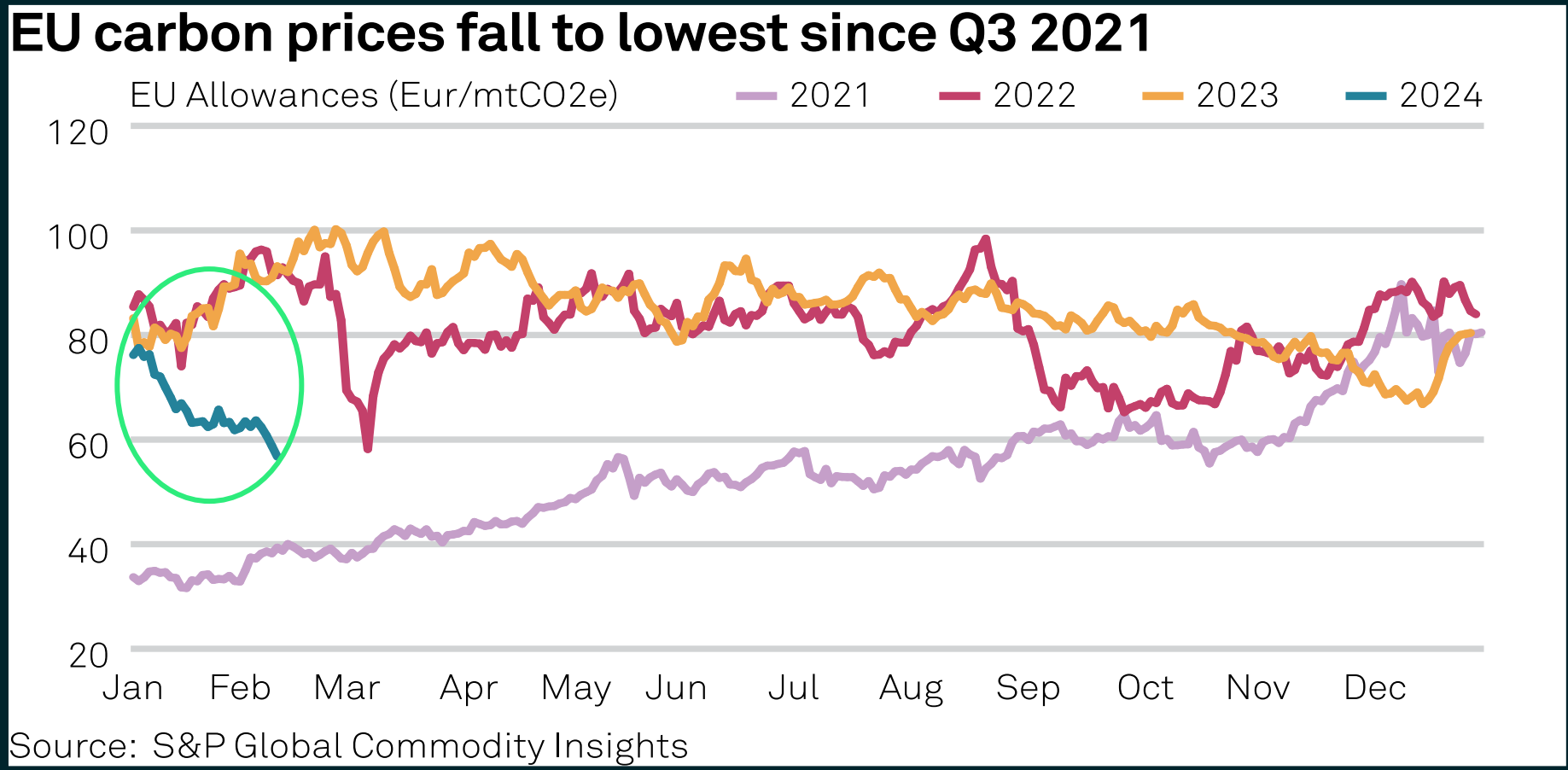
73 carbon pricing instruments in operation as of 1 April 2023; approximately 23% of global GHG emissions covered



ETS prices have increased significantly...and fallen too

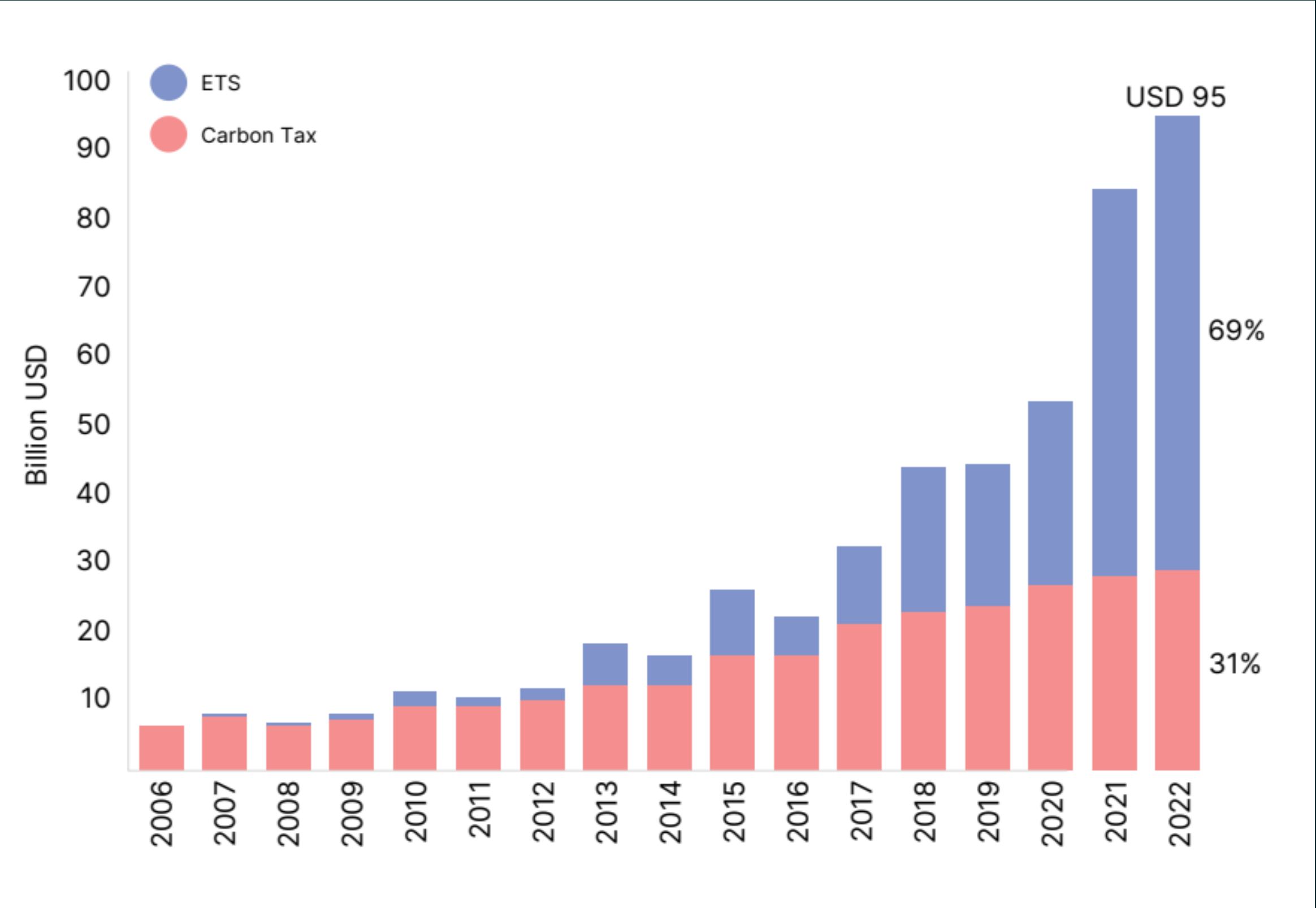


2023



2024

Governments revenues hit record high from Carbon ...



~USD 95 billion
in 2022

Voluntary Carbon Market (VCM) Demand

Carbon credit retirements (2023)

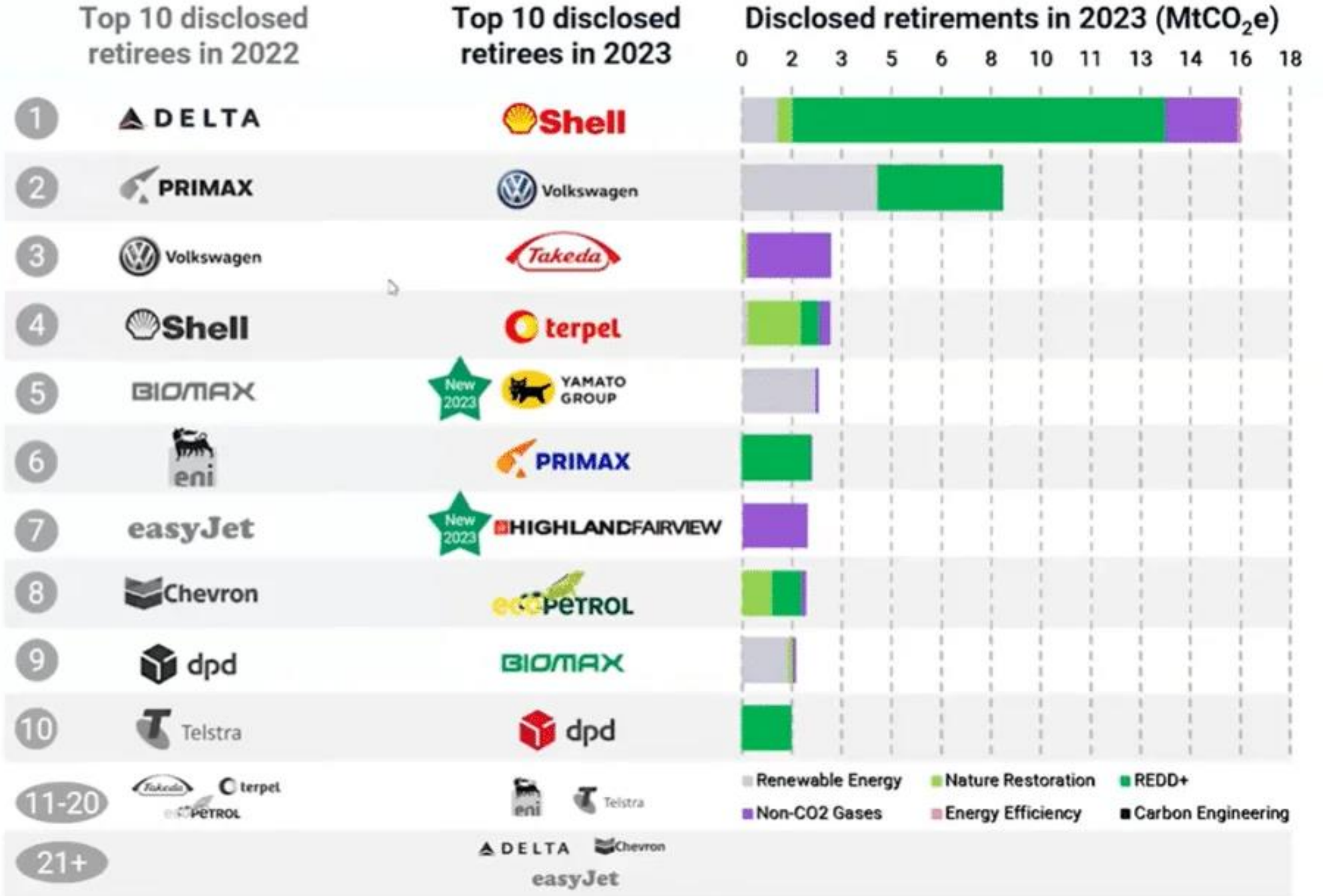
More joiners than leavers
last year (by volume)



Retirements less
concentrated last year



Some firms stepped-back; but others stepped-up

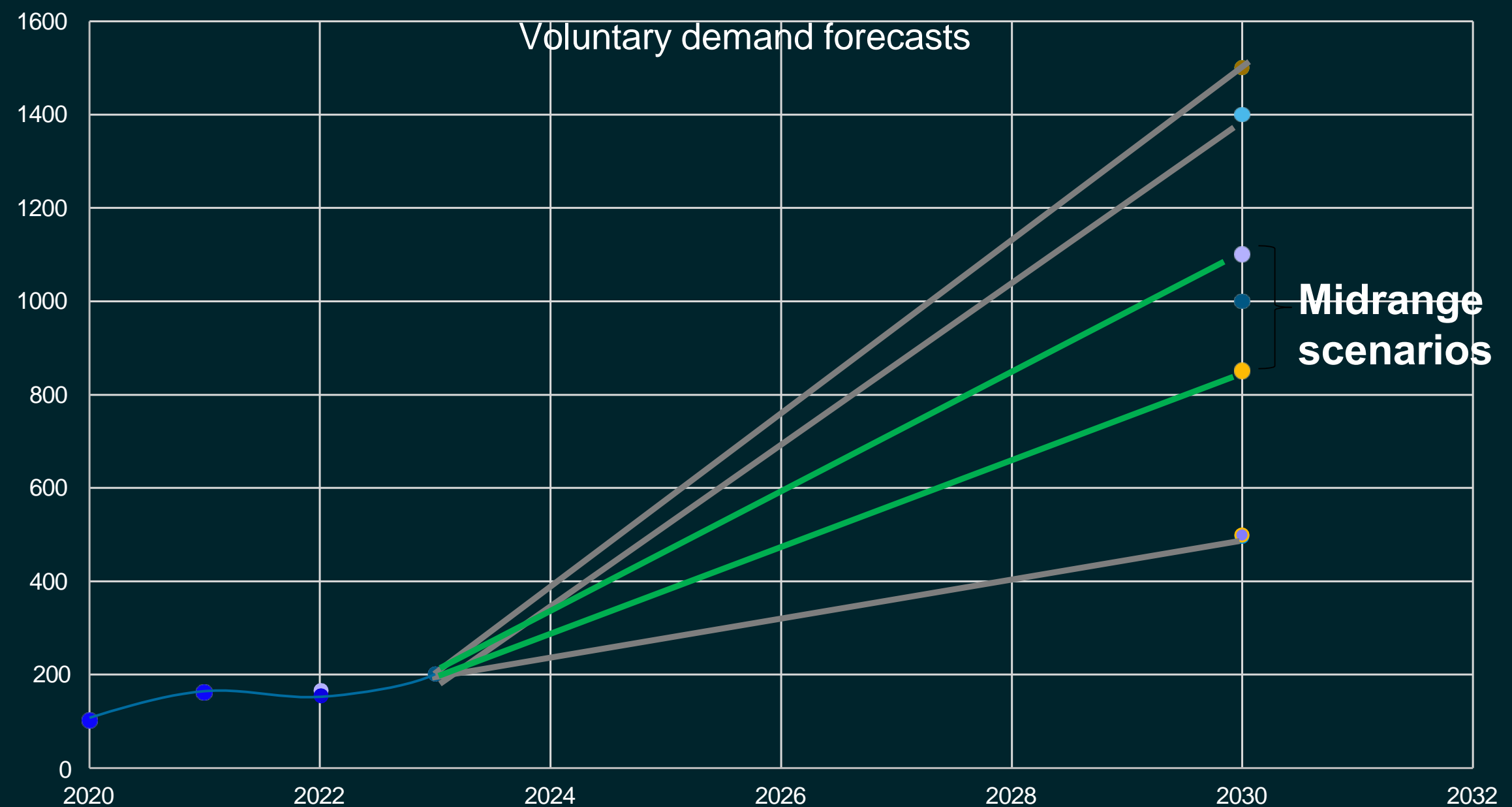


Source: MSCI Carbon Markets analysis of disclosed retirements on tracked registries. Retirements have been matched to a company where disclosure allows.

VCM demand

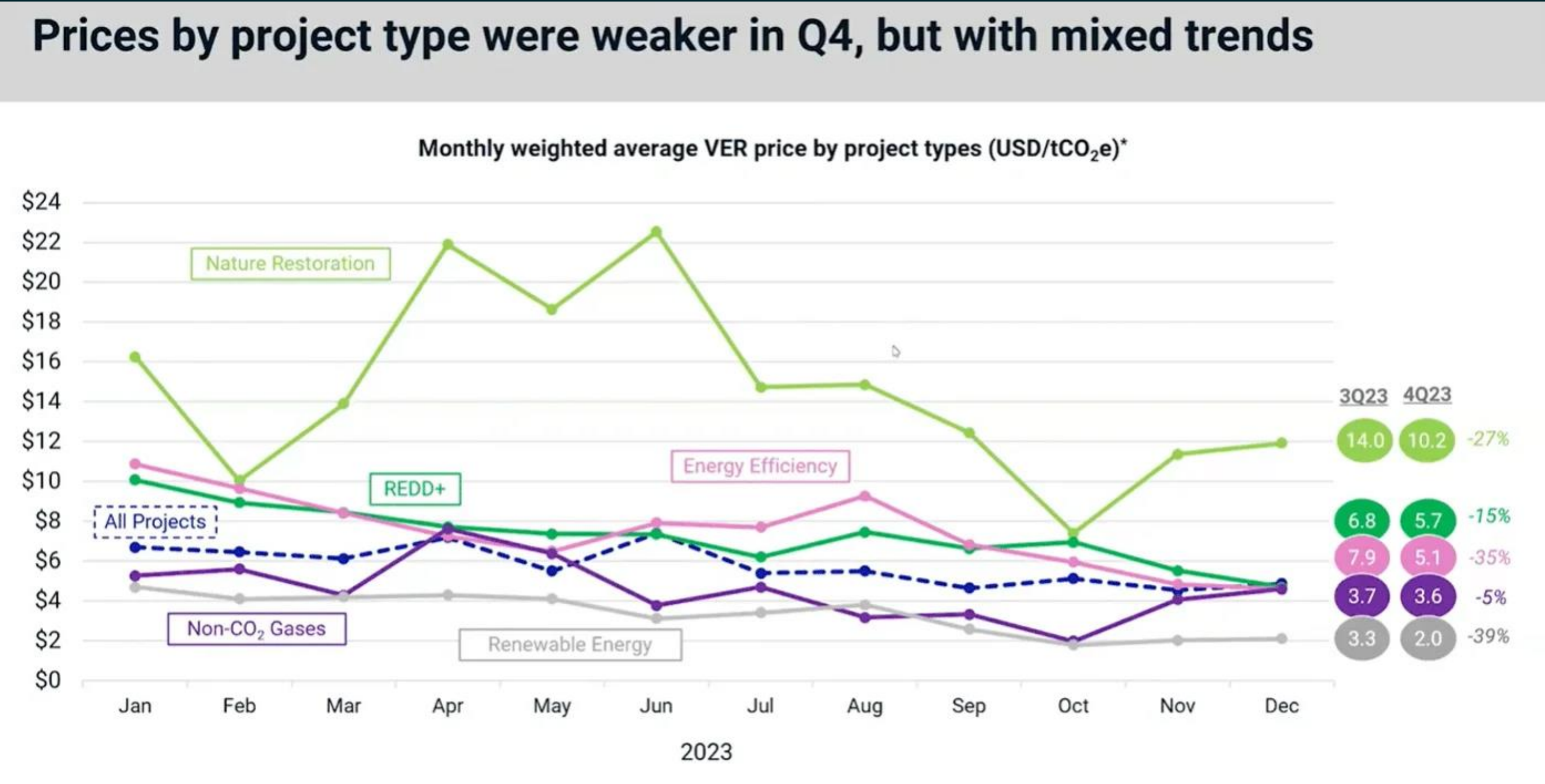
- Various groups of analysts have attempted to assess the future scale of the voluntary carbon market

- KEY DRIVERS:
- A. The large increase in corporates adopting and implementing climate targets with compensation claims
- B. Large growth expected
- C. Midrange scenarios of
- $\approx 1 \text{ GtCO}_2\text{e /yr}$ in 2030 (and up to 2 - 5 $\text{GtCO}_2\text{e/yr}$ by 2050)
- ...but still large accumulated buffer of units



VCM Price Summary

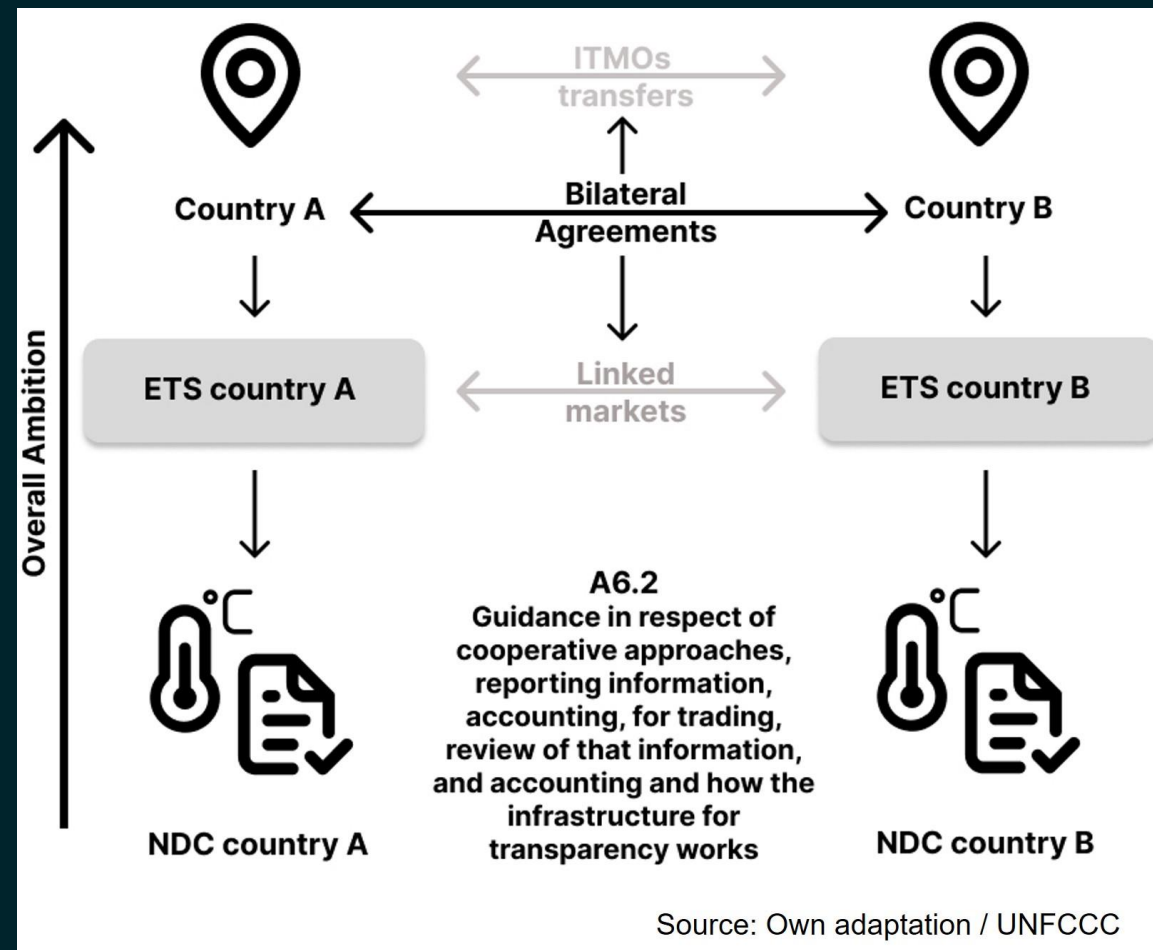
Price by Project Types 2023



Source: MSCI Jan 2024

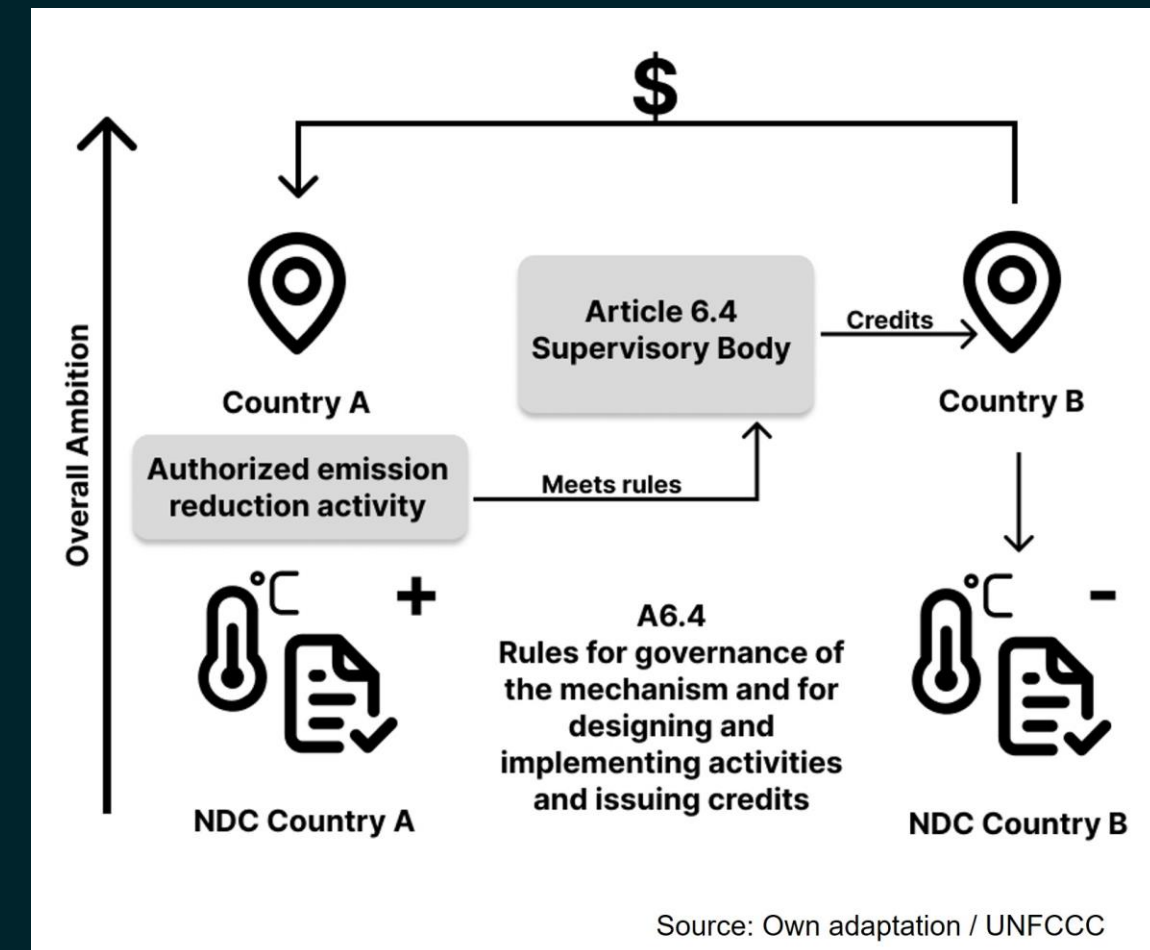
Paris Agreement : Article 6 : State of Play

ARTICLE 6.2 – cooperative approaches



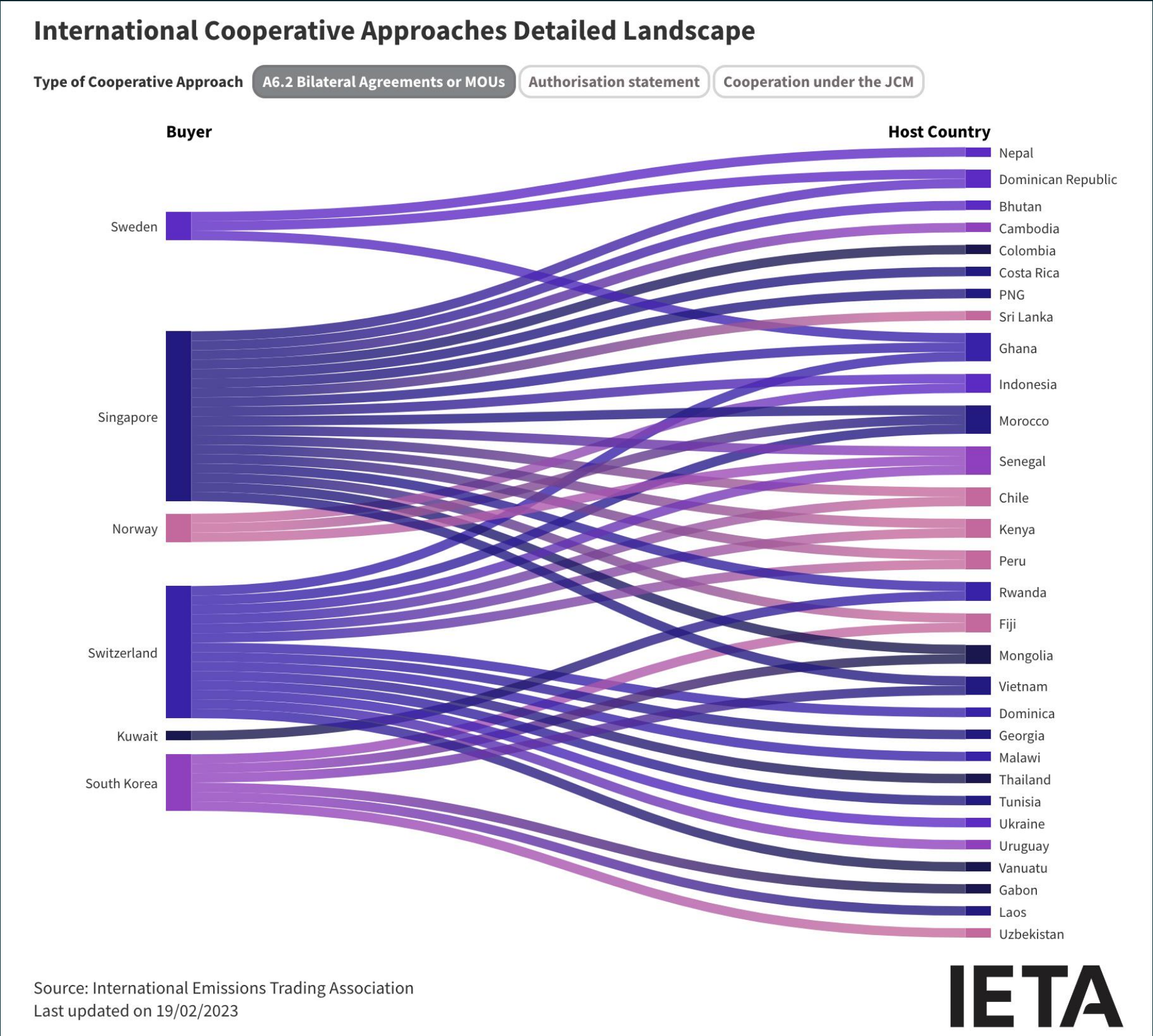
- Accounting framework finalised at COP 26
- Rules on tracking infrastructure, reporting requirements, expert review agreed at COP 27
- Negotiations inconclusive at COP28, but countries have begun to implement cooperative approaches and authorise ITMOs

ARTICLE 6.4 – UN crediting mechanism

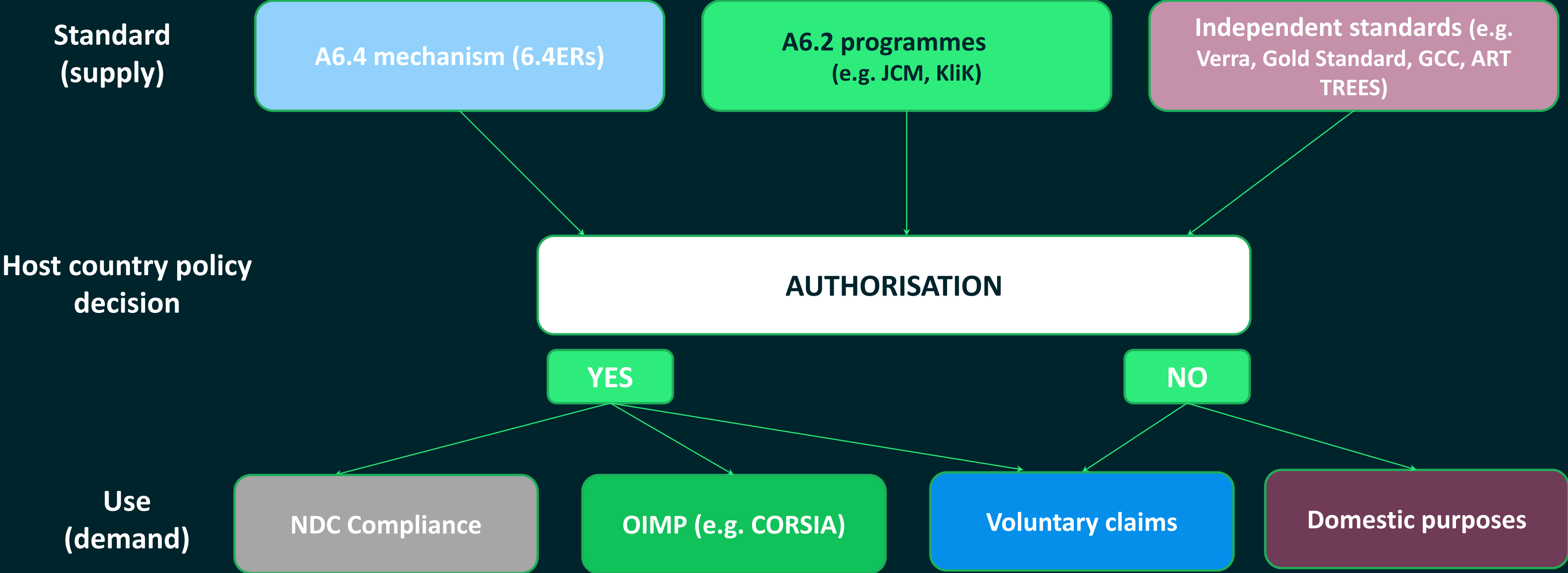


- Rules, modalities and procedures (RMPs) agreed at COP 26
- Art. 6.4 Supervisory Body established in 2022 and tasked with development of operational rules. Negotiations inconclusive at COP28
- First credit issuance not earlier than mid-2025

Ongoing Article 6.2 Implementation



Article 6 – VCM Interplay

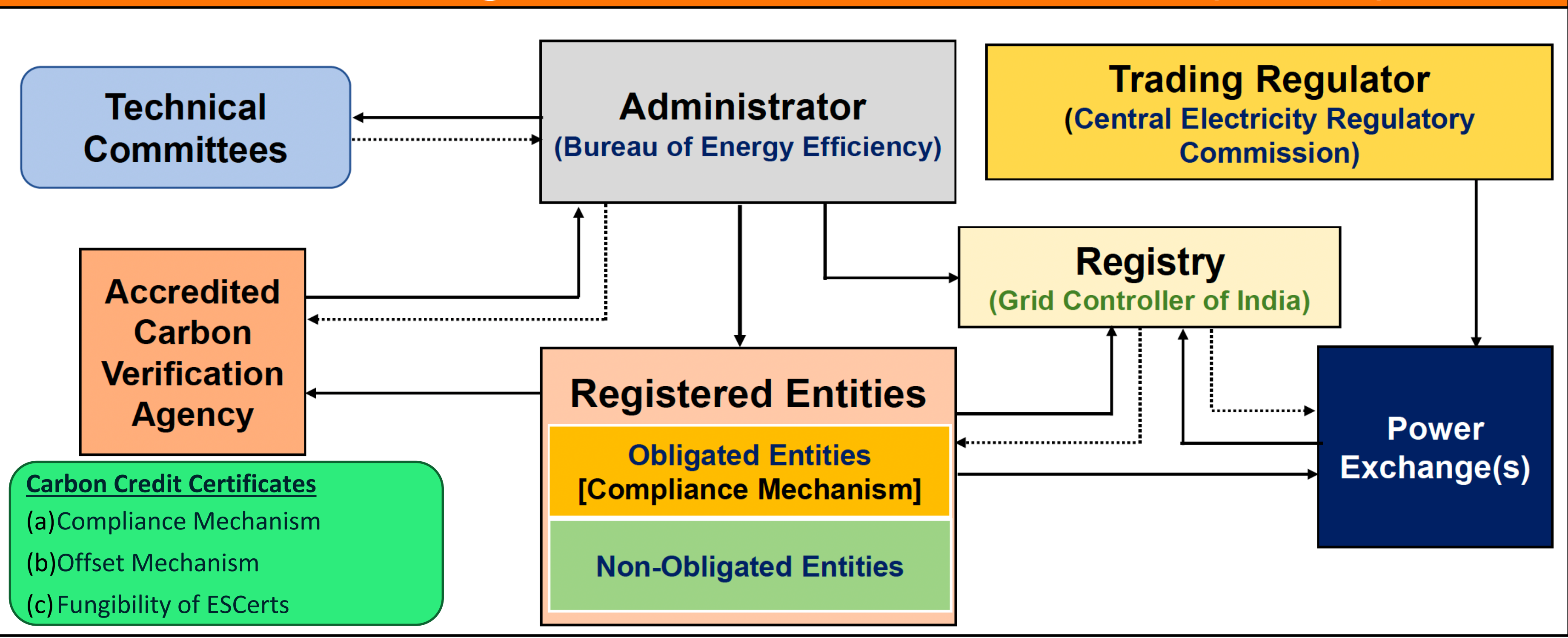




2. Indian Carbon Market

Indian Carbon Market : Institutional Framework

National Steering Committee for Indian Carbon Market (NSCICM)



Indian Carbon Market : Regulatory Framework

CCTS 2023



India's Carbon Credit Trading Scheme, 2023 was notified by the Government of India on 28 June 2023 under the Energy Conservation Act, 2001.



The notification underlines the necessary framework and the roles of diverse stakeholders for the development and functioning of the Indian Carbon Market (ICM).



As per Section 3 of the CCTS, NSCICM will be constituted by the Government to govern and oversee the functioning of Indian Carbon Market

Key elements of the CCTS

Definitions and detailed procedures

National Steering Committee and Technical Committee (Formation and Functions)

Administrator (BEE) and Registry (GCI) and its functions

Regulations for Trading

Accredited Carbon Verification Agency

Trading of Certificates

Compliance Mechanism

Offset Mechanism



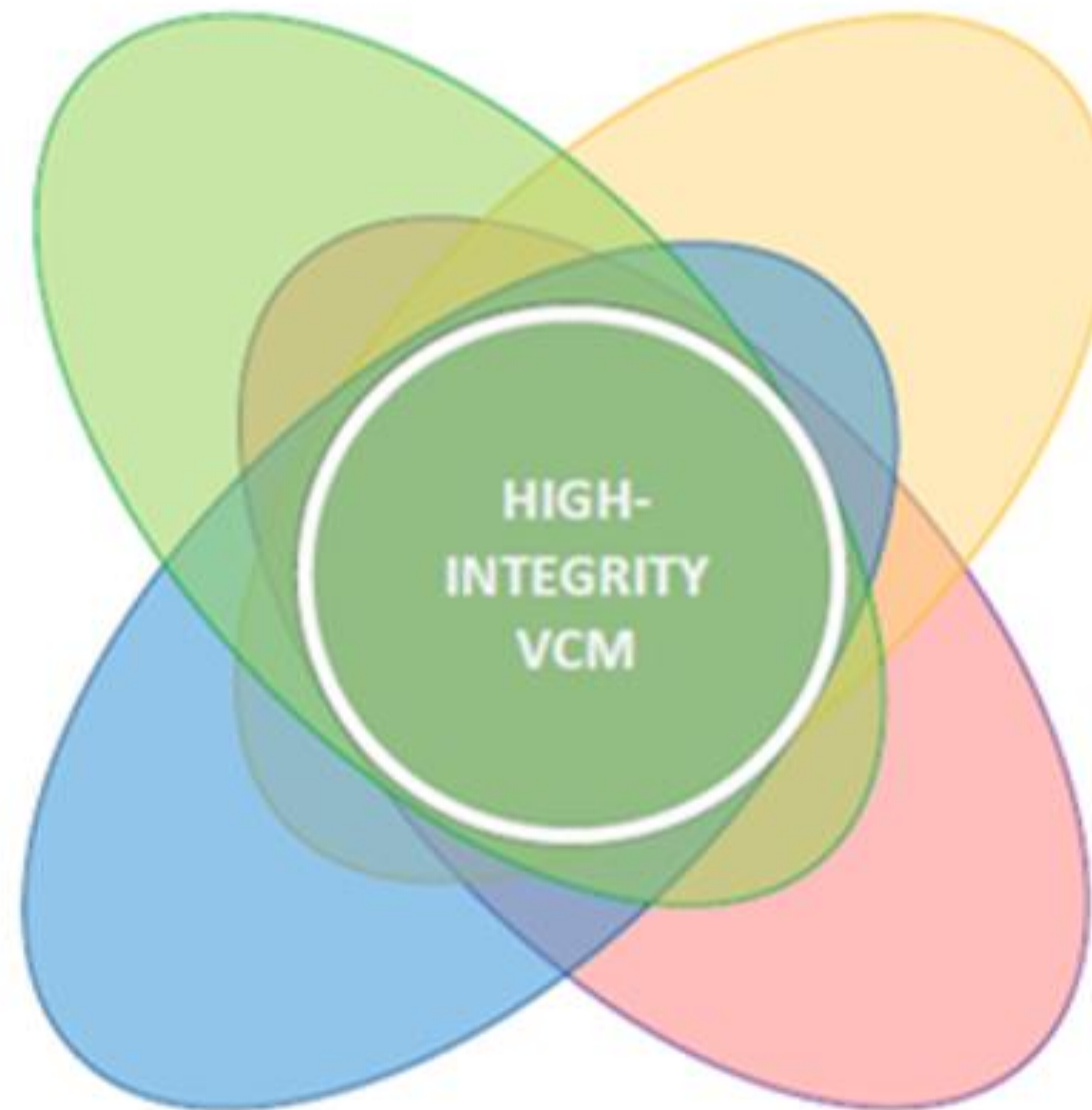
3. Global Carbon Market Transparency Initiatives

Global VCM Integrity Initiatives



Unimpeachable quality

Promote social and environmental integrity in the generation of carbon credits by developing a **Core Carbon Principle (CCP) threshold standard** for what constitutes a high-integrity credit, along with governance to ensure proper oversight.



Honest claims

Ensure integrity in the use of carbon credits by defining **high-integrity corporate claims** and creating norms around their use in the context of a robust net-zero pathway



Climate Action Data Trust

Outlook



- Carbon markets help finance GHG emissions reductions and removals and could reduce NDC implementation costs in half
- 70% of Paris Agreement signatories intend to use international support, including markets, to meet their goals
- Carbon markets need reliable data systems to scale while ensuring environmental integrity, transparency and robust accounting

Who We Are

We aim to create the first **publicly visible** and **trackable record** of carbon credit information **freely available** in a **single location**.



- Public good infrastructure to enhance carbon market transparency
- Not-for-profit company domiciled in Singapore

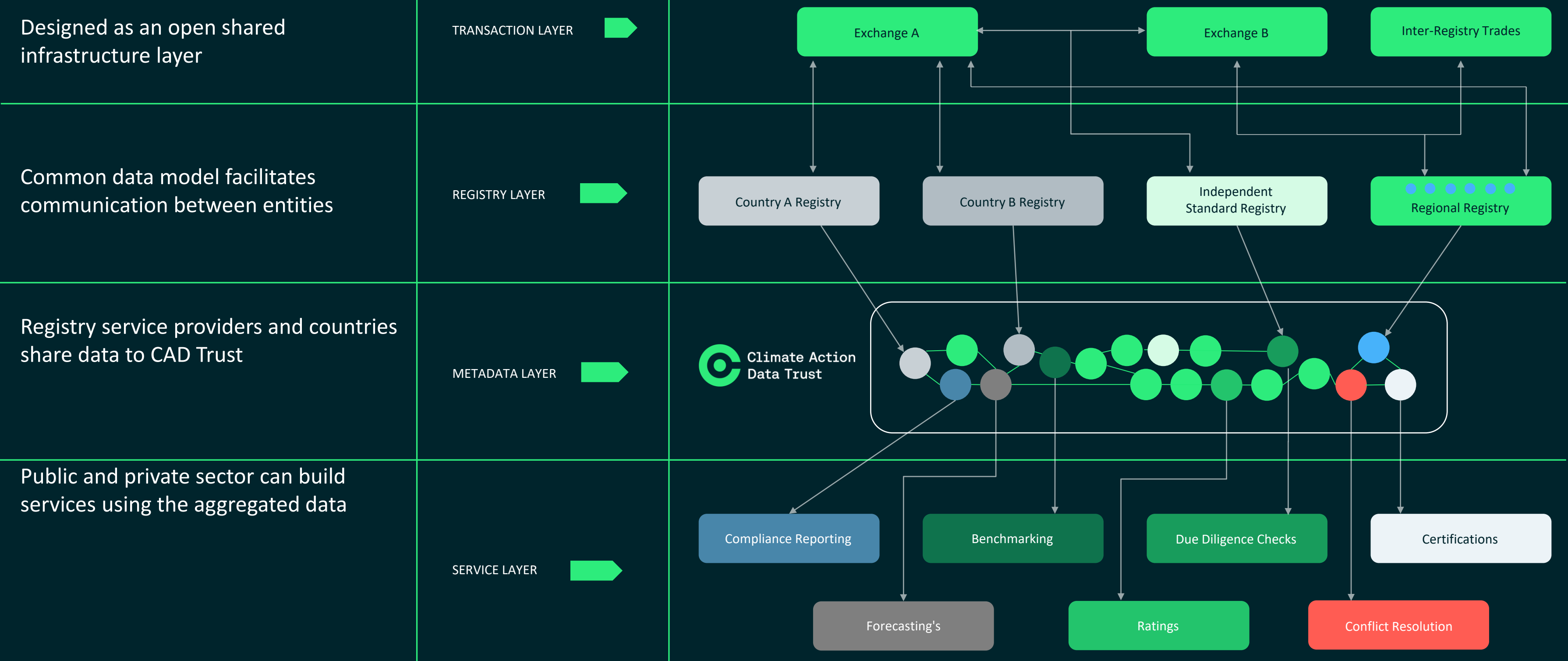
Blockchain : The Chia logo is a green, stylized lowercase 'chia' with a leaf-like shape integrated into the 'h'.

Sustainable blockchain technology driving real climate action

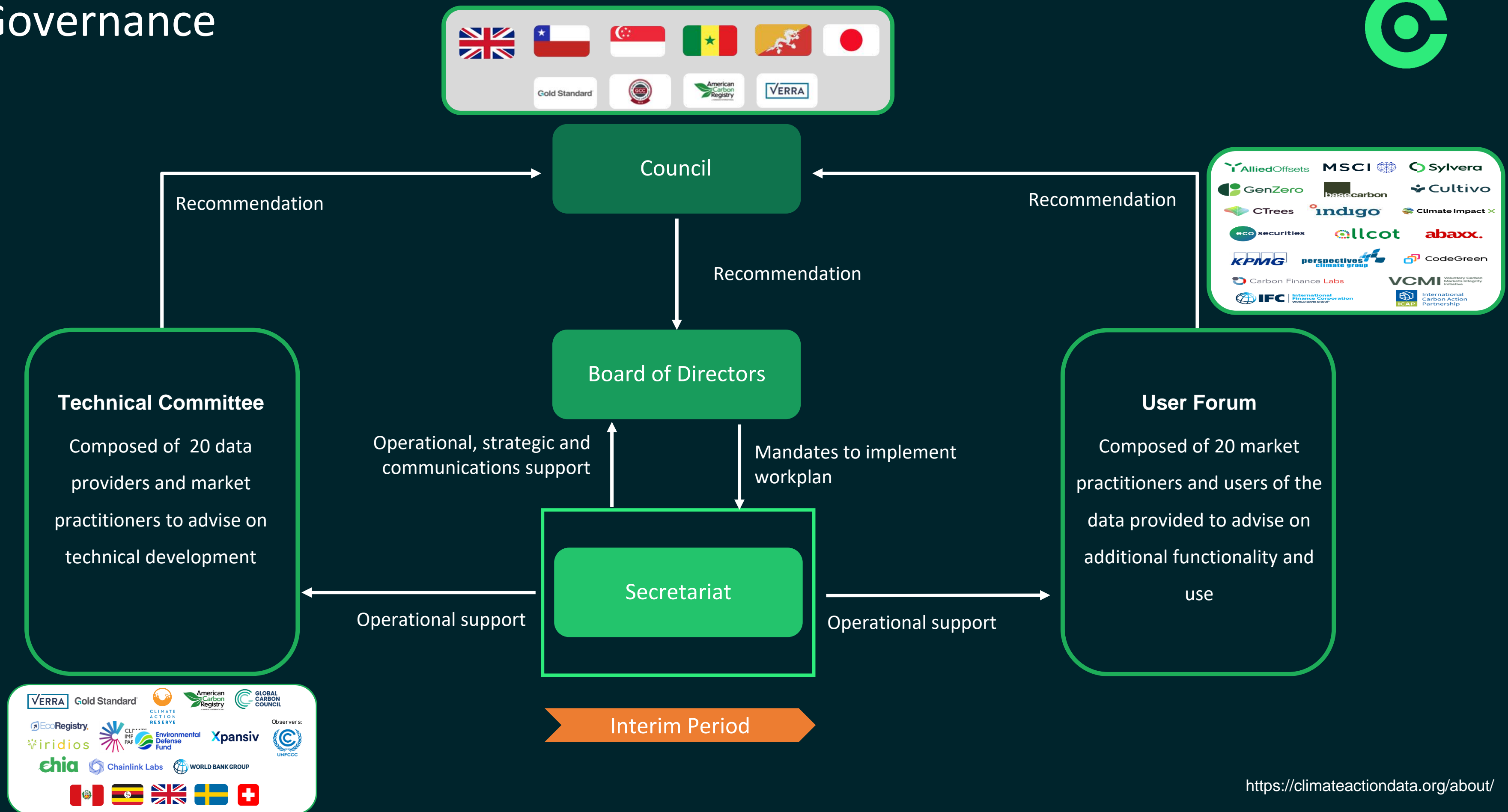


Purpose and Aim

A global platform to link, aggregate & harmonise carbon credit data



Governance

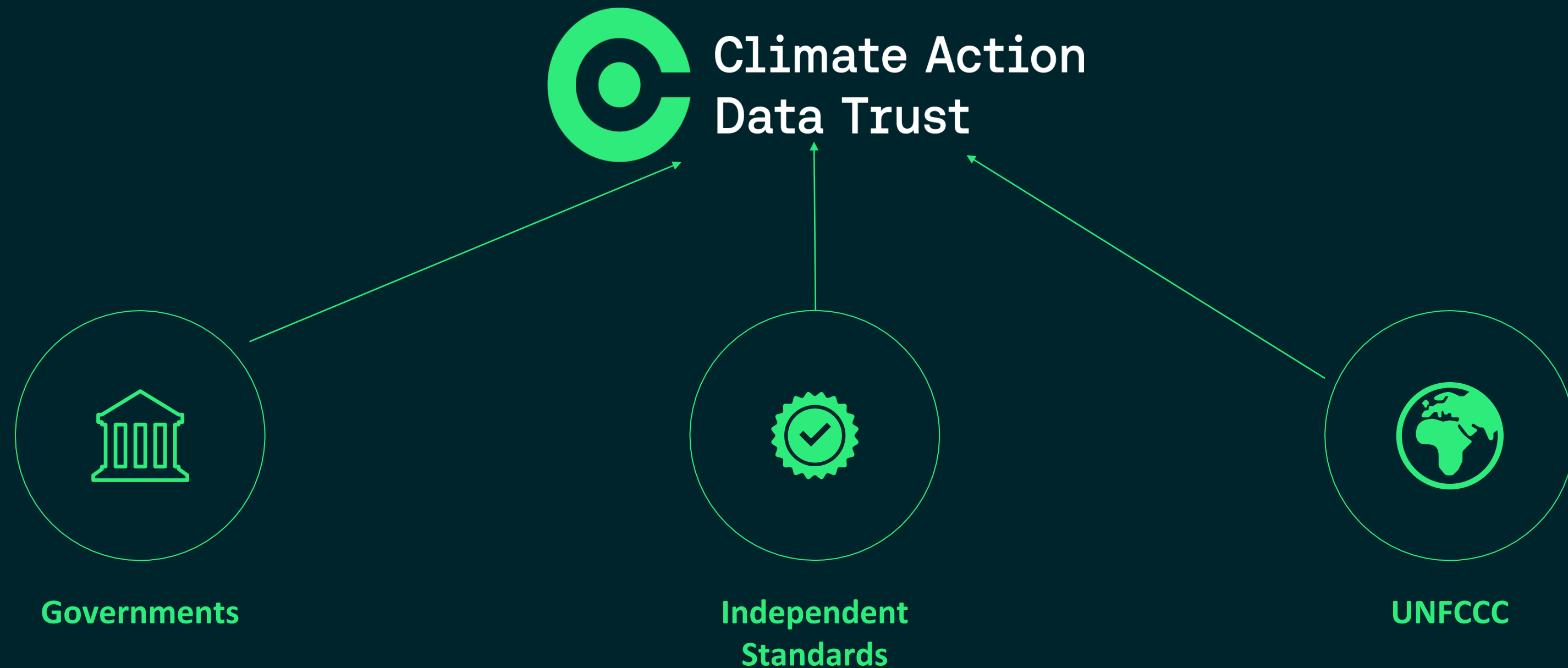


Key Stakeholders

Data Providers



We actively engage with **public and private registries** to connect all major voluntary and compliance carbon registry data with the goal of enhancing carbon market integrity.



Key Stakeholders

Benefits for **Data Users**



Governments



**Independent
Standards**



UNFCCC



Project Developers



**Buyers, Traders, Investors,
Consultants, Analysts**



Exchanges



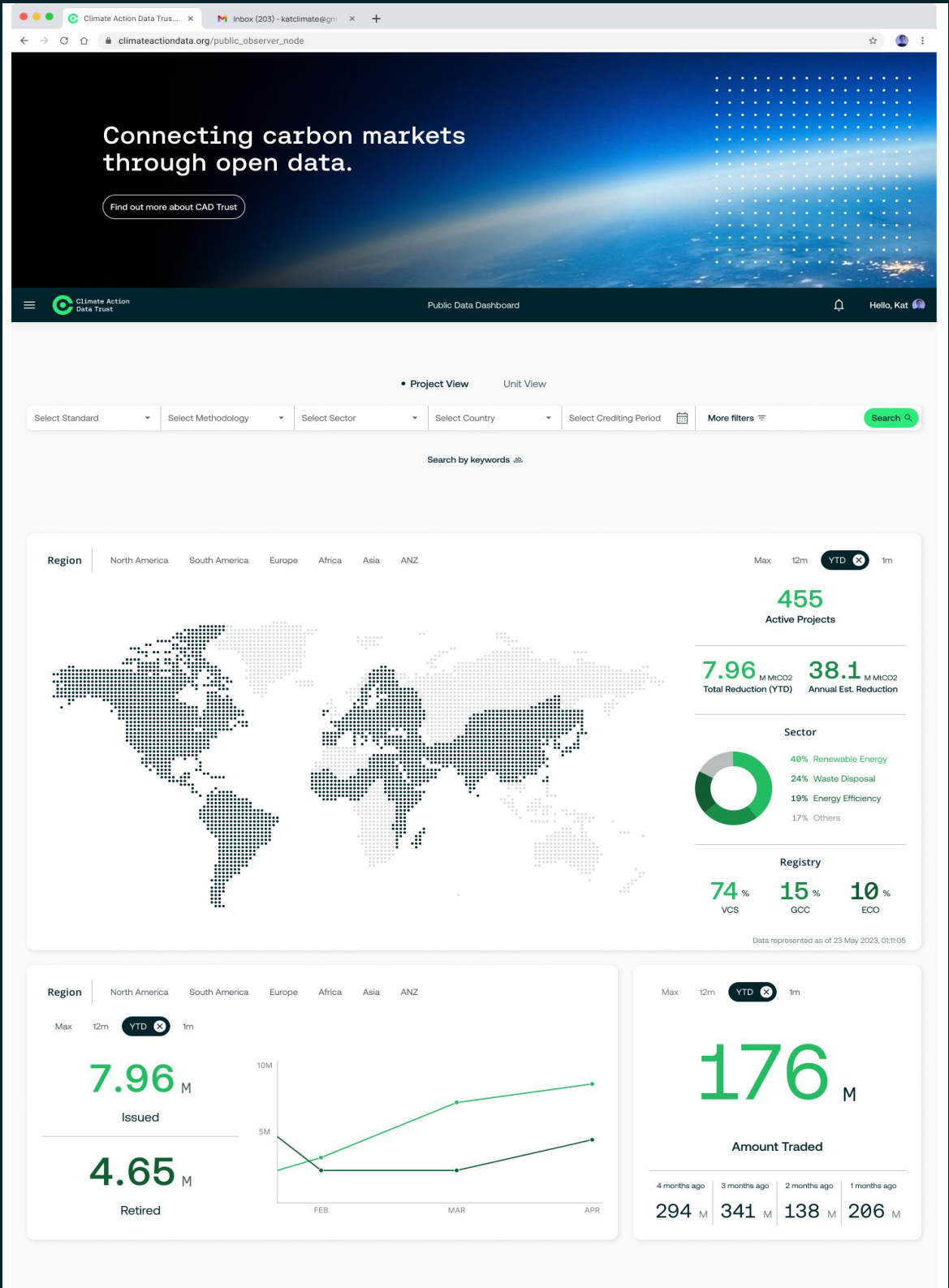
**Ratings & Verification
Providers**



Technology Providers

Platform

Data Dashboard Overview



Data Dashboard Launch:
12 Dec 2023

6
Registries

- Verra
- Global Carbon Council
- EcoRegistry
- BioCarbon
- Kingdom of Bhutan
- CDM

17,195
Projects

600K+
Visits since launch

1.53 B
Issued units*

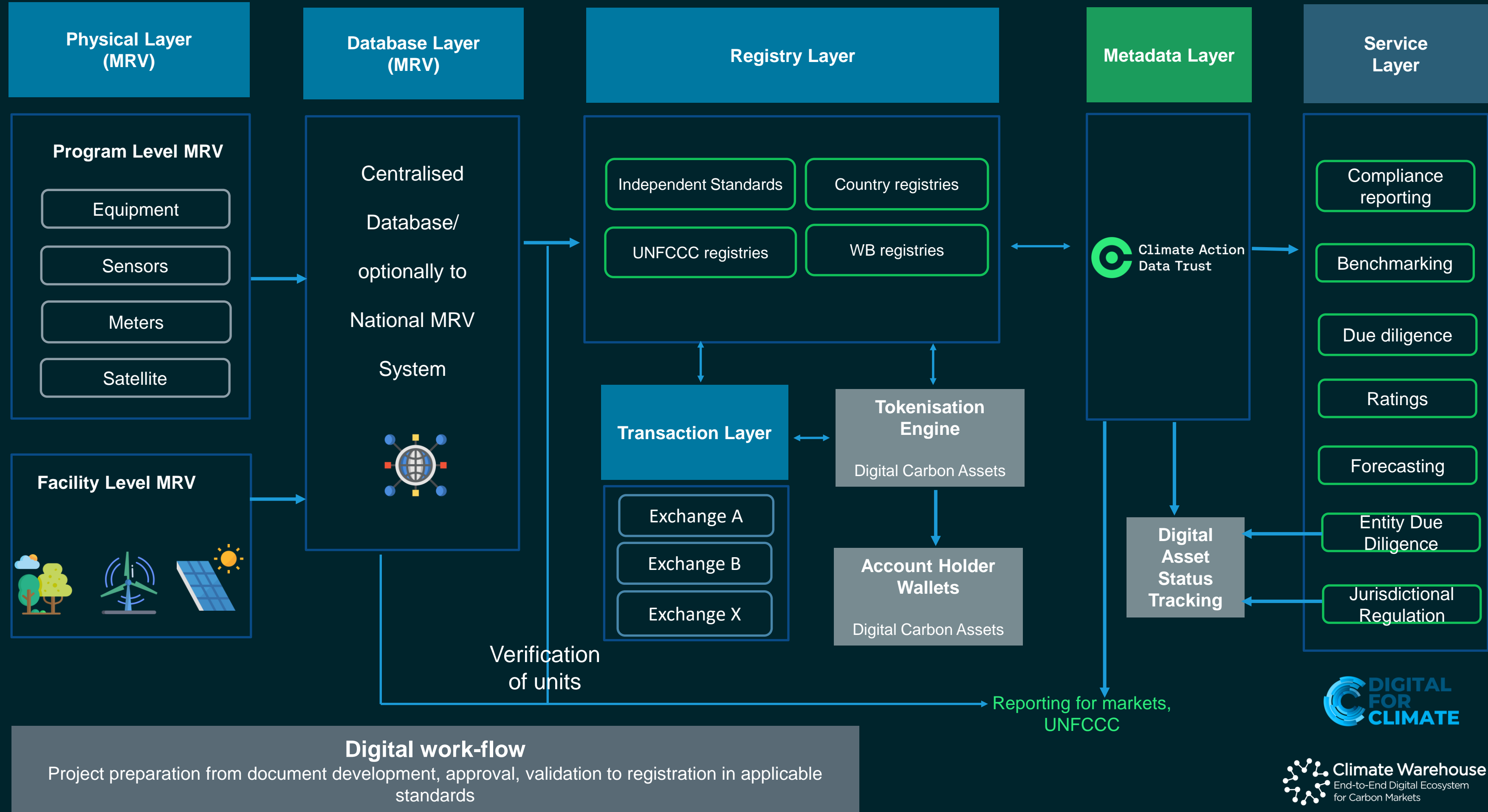
Top 5 countries

- USA
- UK
- Singapore
- India
- Germany

*issued units as based on registry + CDM data post 2016

Climate Warehouse End-to-End Digital Ecosystem for Carbon Markets

Digital Methodology
Digitalisation of Methodologies: smart contract toward the digitisation of the mitigation activity cycle



W

www.climateactiondata.org

E

contact@climateactiondata.org

