



REPUBLIC OF KENYA

MINISTRY OF  
ENVIRONMENT,  
CLIMATE CHANGE  
& FORESTRY



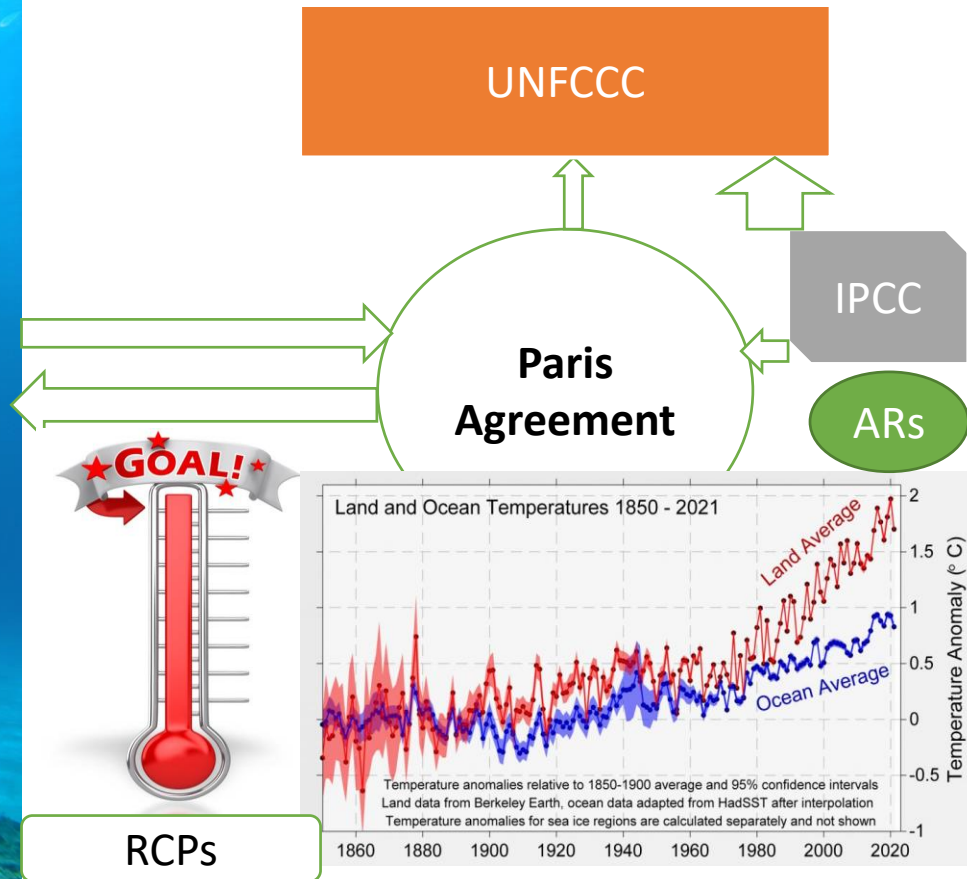
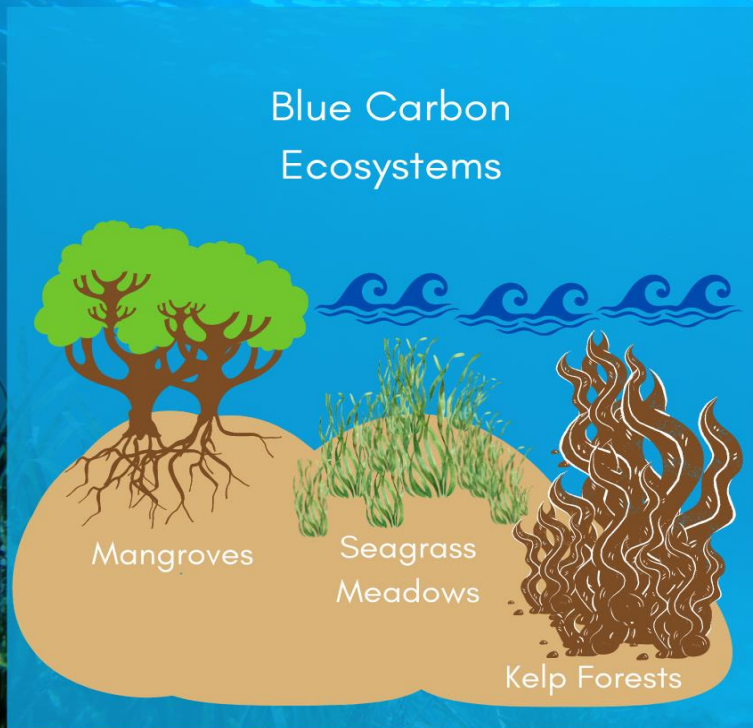
# Strengthening Measures for the Protection, Restoration, and Sustainable Management of Blue Carbon Ecosystems in the Western Indian Ocean in Line with Global and Regional Policy Commitments

BCEs AND THE PARIS 2015 AGREEMENT

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# Background



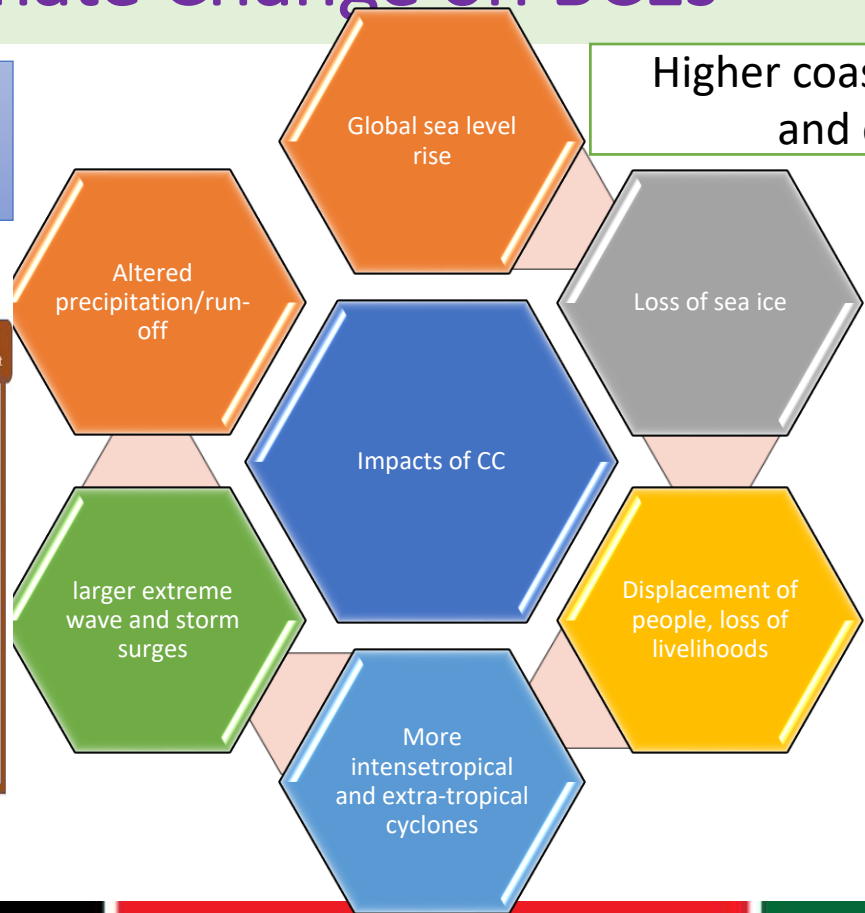
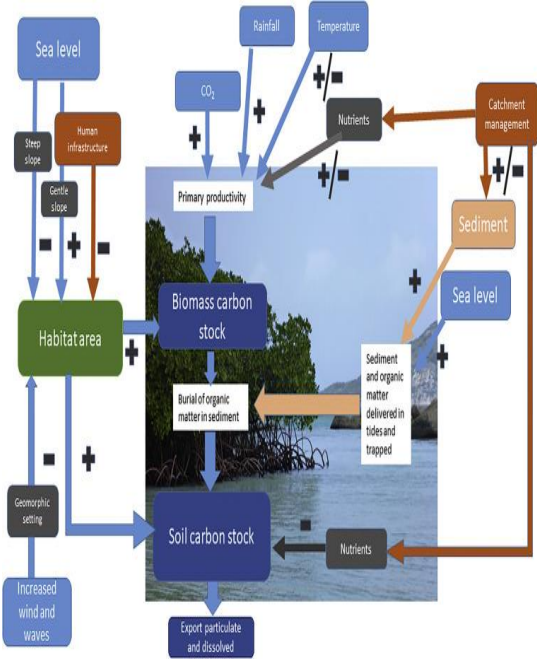
# Impacts of Climate Change on BCEs

Ocean acidification (due to CO2 uptake)

Higher coastal inundation, erosion, and ecosystem losses.

Rising of temp.= thawing of permafrost and associated coastal retreat, and more frequent coral bleaching and mortality.

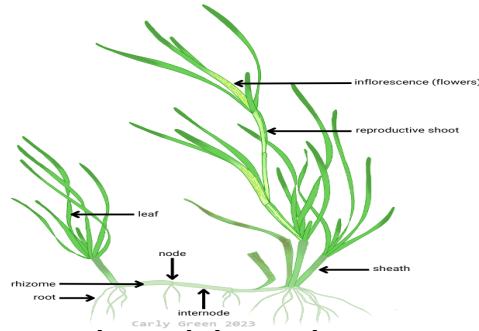
submergence of low-lying areas



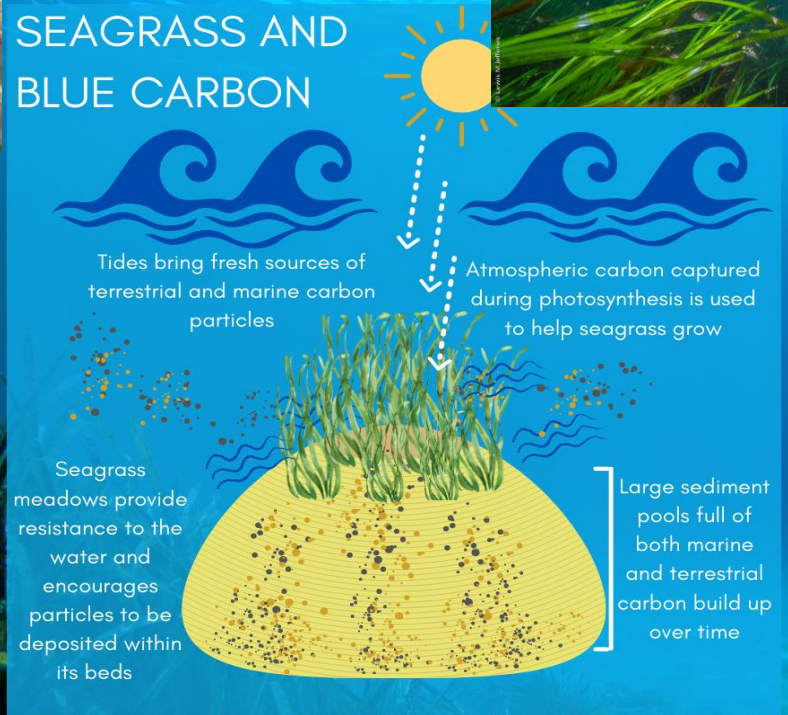
# Nexus of PA and BCEs

- **PA: 27 Articles**

- Temperature Goal
- NDCs
- Policy Incentives- conserve & enhance reserves
- Mitigation
- Adaptation
- Loss and Damage
- Financing
- Technology Development and Transfer
- Capacity Building
- Climate Change Education, Public Awareness
- Transparency and Reporting



## SEAGRASS AND BLUE CARBON



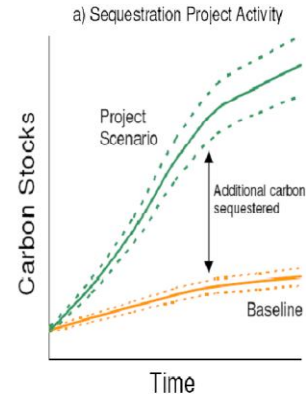
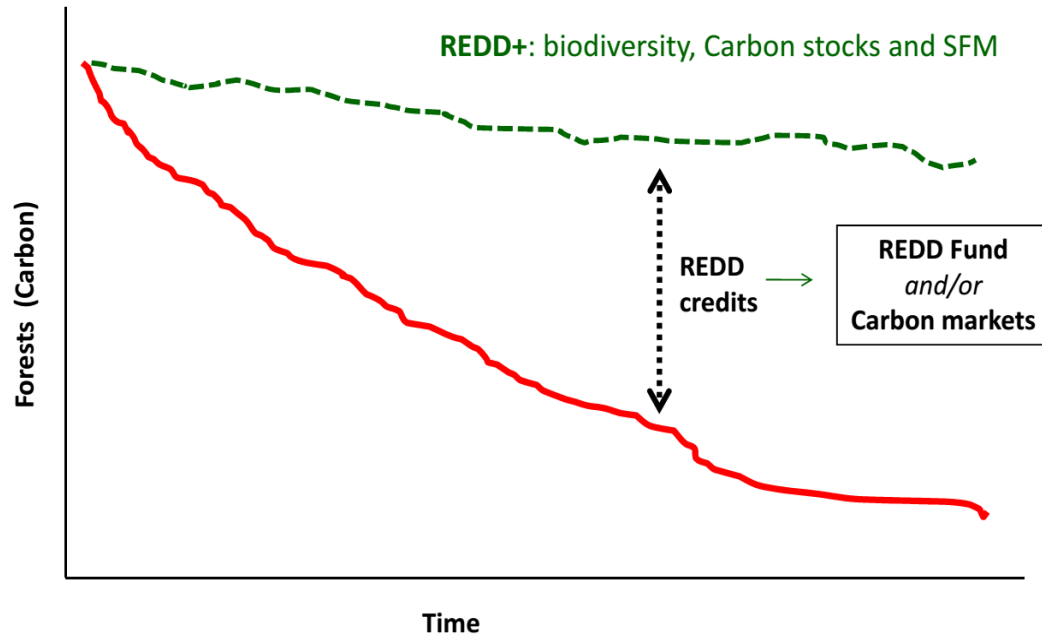
(Kennedy *et al.*, 2010)

# Nexus between PA and BCEs

- The importance of the carbon sequestration benefits from mangrove forests and other terrestrial and marine systems are engrained in the Paris Agreement, specifically in Article 5.1 stating,
- *“Parties should take action to conserve and enhance, as appropriate, sinks and reservoirs of greenhouse gases as referred to in Article 4, paragraph 1(d), of the Convention, including forests.”*
- Art 4, 1(d) of the Convention states that all Parties shall *“promote sustainable management, and promote and cooperate in the conservation and enhancement, as appropriate, of sinks and reservoirs of all greenhouse gases not controlled by the Montreal Protocol, including biomass, forests and oceans as well as other terrestrial, coastal and marine ecosystems.”*
- One option for enhancing ambition on climate action is through the inclusion of mangroves, peatlands, and other terrestrial and coastal ecosystems in a country’s NDC.

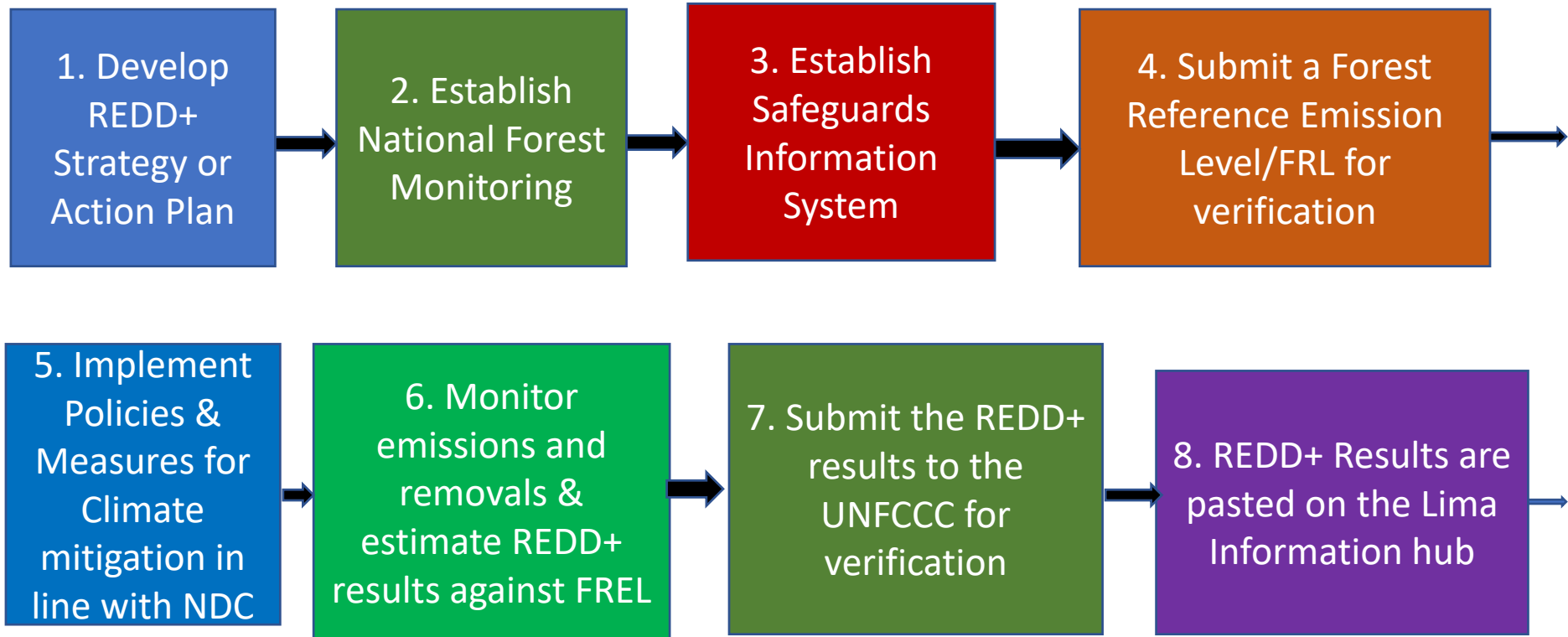
# Investment Opportunities under PA for BCEs

- Climate Change Mitigation and Adaptation: Mangroves



- Avoided conversion and degradation of coastal ecosystems
- Restoration of mangroves, marshes and sea grasses
- Enhancing the growth of Kelp or Shellfish
- Avoided conversion and degradation of peatlands
- Rewetting of drained peatlands
- Restoration of peatland restoration

# Stepwise approaches under PA for BCEs (Mangroves)



# Stepwise approaches under PA for BCEs (Mangroves)

9. Comply with Art 6 requirements for Cooperative Approaches & ITMOs

9a. Requirements for Cooperative approaches & ITMOs-Dec. 2/CMA3 Annex, Sect 1. ITMO,1 P1 (a-f)

9b. Arrangements for authorizing & tracking ITMOs

9c. Most recent national GHG inventory report

10. Submit required documentation

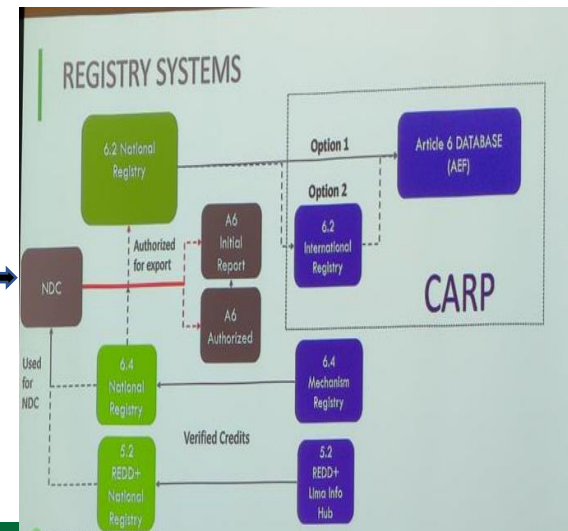
10a. Initial Report including verified REDD+ results

10b. Letter of Authorization

10c. Annual & regular information (BURs, BTRs)

11. Adjustment Required for all first transfer of ITMOs

12. Undergo the Art 6 technical Expert Review





International approaches

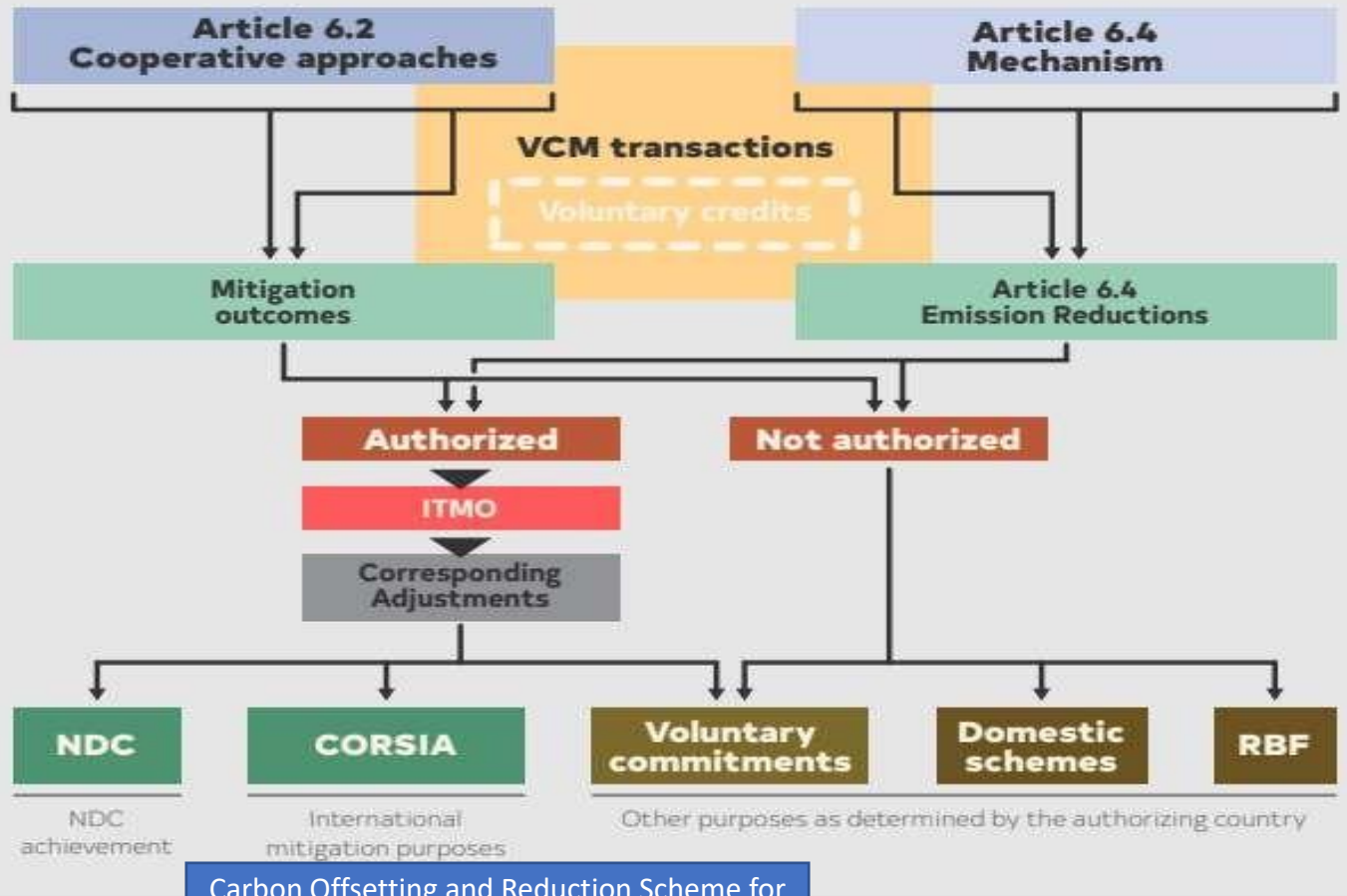
VCM meets the criteria of Article 6.4 or Article 6.2

... and generates certified outcomes

... and receives (or not) host country authorization

... where authorized, the mitigation outcomes come with the requirement a corresponding adjustment

... and defines the final use of the credits.



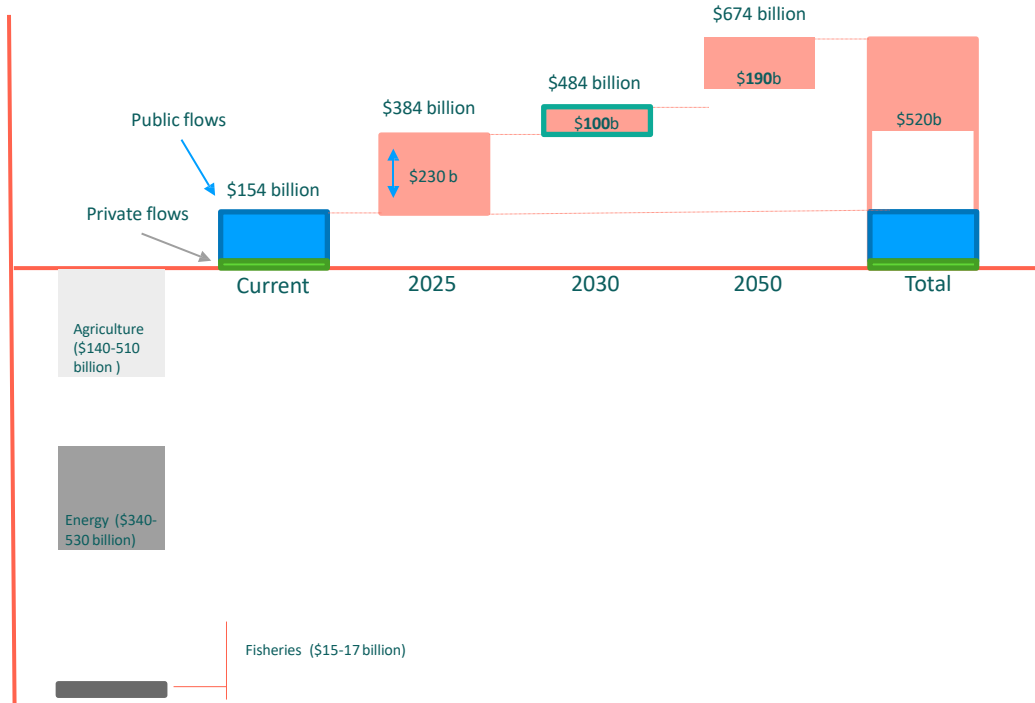
Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)

# Climate Finance for BCEs

- Climate finance refers to the flow of funds towards activities that **reduce *greenhouse gas* emissions or help society adapt to climate change impacts.**
- However, the term is most frequently used in the context of international *climate change* negotiations, where climate finance — or international climate finance — **is used to describe financial flows from developed to developing countries for climate change *mitigation/adaptation* activities.**
- *Carbon financing* can be defined as ***financial resources* provided to projects generating (or expected to generate) *green house gas emission reductions* in the form of the *purchase of such emission reductions.***

# Financing Nature based Solutions

Annual current finance flows to NbS, negative flows and investment needs (USD billion per year)



Annual finance flows to nature need to triple by 2030 (to \$420 billions) and to quadruple to \$600 billions by 2050 if we are to effectively tackle biodiversity loss and climate change.

# Global Goal on Adaptation - BCEs

- **Glasgow-Sharm el-Sheikh work programme on the global goal on adaptation** at COP 26 in Glasgow in 2021.
- At [CMA 4](#), Parties initiated the development of a framework for the global goal on adaptation, **to guide the achievement of the global goal on adaptation** and the review of overall progress in achieving it with a view to **reducing the increasing adverse impacts, risks** and **vulnerabilities** associated with climate change, as well as enhance adaptation action and support.
- At [CMA 5](#), Parties **adopted the UAE Framework for Global Climate Resilience**, as part of the UAE Consensus.
- CMA 5 also **established a two-year UAE – Belém work programme**, on the **development of indicators for measuring progress** achieved towards the targets outlined in the framework

# Capacity Building for BCEs

Methodologies for BCEs  
Accounting and Reporting

Skill Development for BCEs

Development of Bankable  
BCEs projects

Skill Development for BCEs

Technology & innovations  
development and transfer  
for BCEs

BCEs Registries for carbon  
tracking and investment

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# Loss and Damage associated with BCEs

- Santiago network for averting, minimizing and addressing loss and damage associated with the adverse effects of climate change.
- Technical assistance:

1. Risk mapping, assessments and analysis

2. Early warning systems

3. Anticipatory action

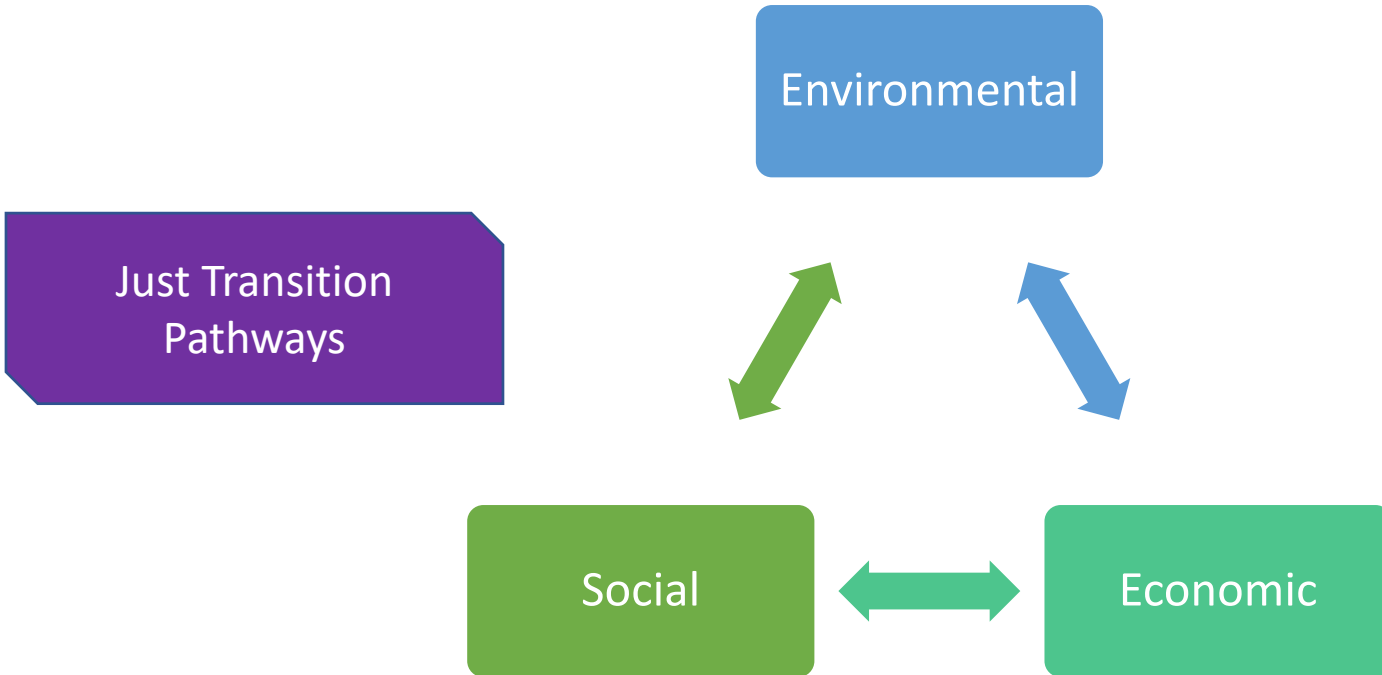
4. Risk finance, insurance schemes and contingency measures

5. Policy frameworks and plans

6. Infrastructure resilience and rehabilitation

Loss and Damage Fund

# Analysis of Impacts of Response Measures based on BCEs





THANK YOU

