



## PRESENTATION OUTLINE

- 01 Introduction
  - ☐ What is climate change?
  - ☐ Kyoto Protocol
  - □ Paris Agreement
- 02 Carbon Credit
  - ☐ How the carbon credit system works
  - ☐ How to offset carbon emissions?
- 03 Carbon Market
  - □ Voluntary
  - ☐ Compliance
  - Market demand



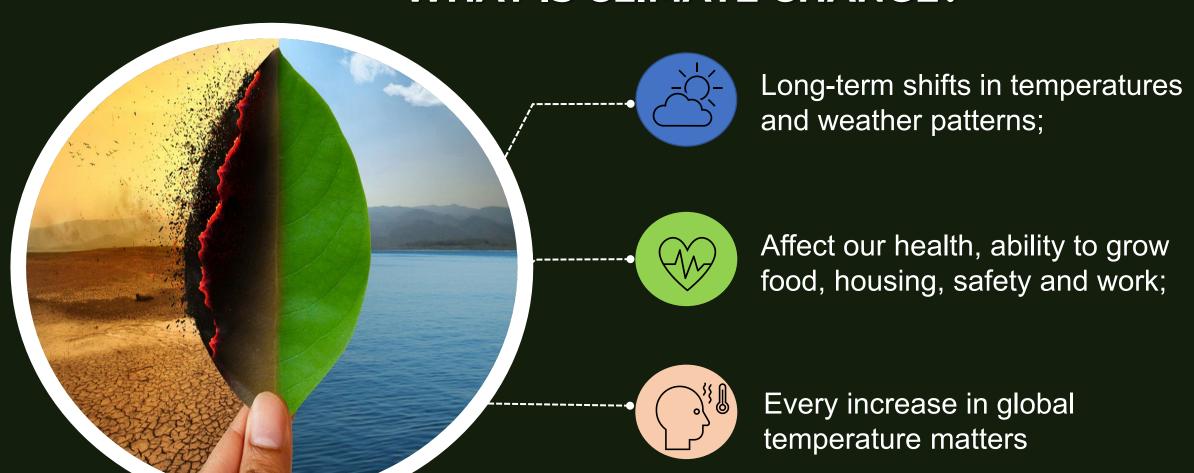
# PRESENTATION OUTLINE

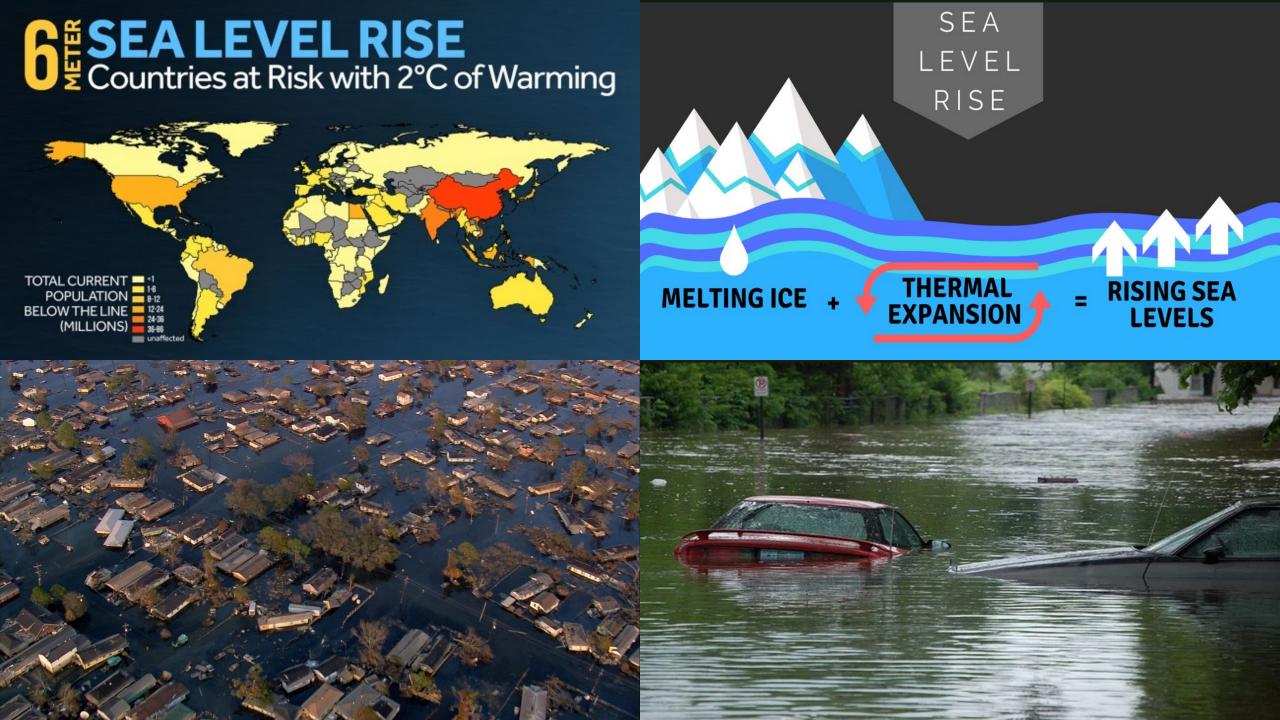
- 04 Sarawak initiative on nature-based solutions project
  - □ PCDS 2030
  - ☐ Legal framework on Forest Carbon
  - □ Approach on Carbon Trading

05 Goals

# 01 INTRODUCTION

#### WHAT IS CLIMATE CHANGE?

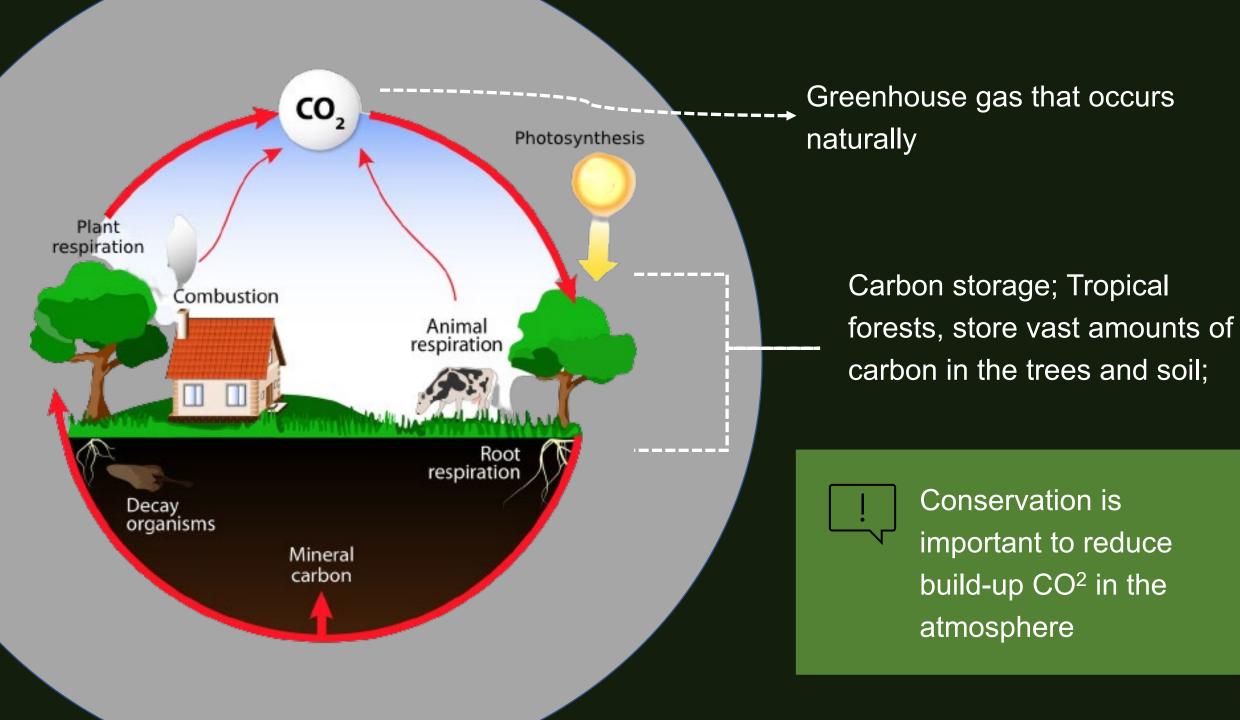














# KYOTO PROTOCOL



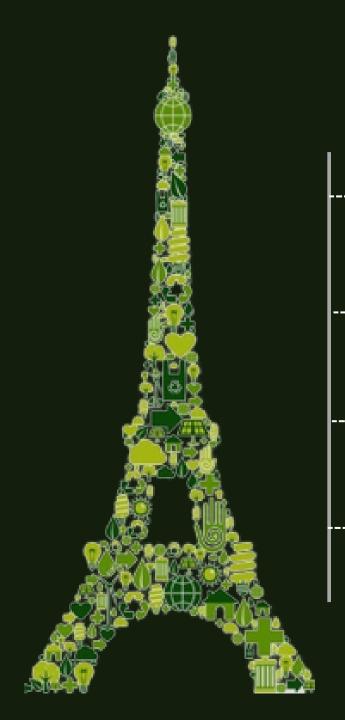
Adopted on 11 December 1997. First large-scale carbon market in 2005 involving 36 countries and the EU, but expired in 2020 after years of debate and ineffectiveness;

Commitment by developed country (Annex 1) to reduce GHG emission by 2020;

Malaysia ratified its commitment in 4 September 2002;

US, Russia, Canada left, EU deployed in 2012





# PARIS AGREEMENT



Article 5: Finance on Forest Activities



Article 6: Enabler for Carbon Trading



COP26: Globalized carbon market



Voluntary markets exist outside of compliance markets allowing companies and countries to buy and trade carbon allowances as they see fit.

#### FINANCE ON FOREST ACTIVITIES

#### Article 5

- 1. 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.
- 2. Parties are encouraged to take action to implement and support, including through results-based payments, the existing framework as set out in related guidance and decisions already agreed under the Convention for: policy approaches and positive incentives for activities relating to reducing emissions from deforestation and forest degradation, and the role of conservation, sustainable management of forests and enhancement of forest carbon stocks in developing countries; and alternative policy approaches, such as joint mitigation and adaptation approaches for the integral and sustainable management of forests, while reaffirming the importance of incentivizing, as appropriate, non-carbon benefits associated with such approaches.

#### **ENABLER FOR CARBON TRADING**

#### Article 6

- 1. Parties recognize that some Parties choose to pursue voluntary cooperation in the implementation of their nationally determined contributions to allow for higher ambition in their mitigation and adaptation actions and to promote sustainable development and environmental integrity.
- 2. Parties shall, where engaging on a voluntary basis in cooperative approaches that involve the use of internationally transferred mitigation outcomes towards nationally determined contributions, promote sustainable development and ensure environmental integrity and transparency, including in governance, and shall apply robust accounting to ensure, inter alia, the avoidance of double counting, consistent with guidance adopted by the Conference of the Parties serving as the meeting of the Parties to this Agreement.



We are stakeholder in ensuring the environment remains in a pristine conditions.

Sarawak may be a small dot on this planet earth but being a responsible world citizen, we need to embrace the importance of environmental sustainability

# Sarawak

- 12.45 mil. ha land area
- 28 ethnic groups with a population of 2.91 mil (2020).
- Forest Cover: 62%
  - 0.15% of World Tropical Rainforest
  - 16% of Borneo Tropical Rainforest
- Temperature relatively uniform throughout the year 23-32°C
- Average rainfall per year 3,300-4,600 millimetres
- Sarawak- one of the 25 biological "hotspots", greatest no. of spp., greatest development of distinctive ecosystems & unique biological elements.







#### National Commitment on Sustainable Development











SUSTAINABLE CITIES

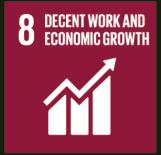


RESPONSIBLE

CONSUMPTION AND PRODUCTION











10 REDUCED INEQUALITIES











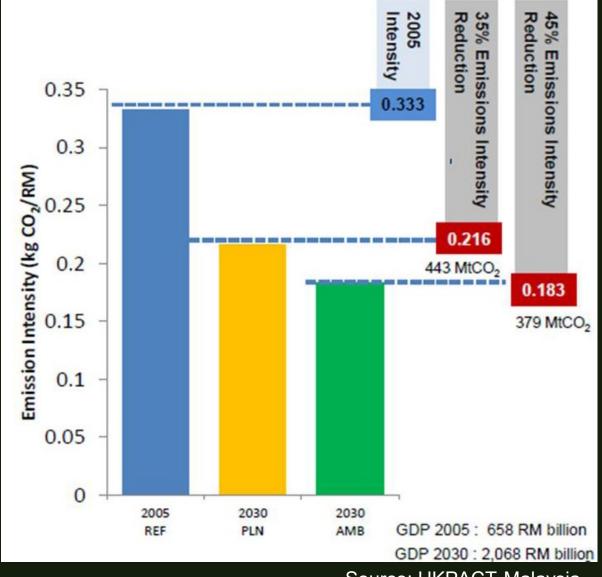


#### National Commitment on Climate Change-Paris Agreement



Representative of Malaysia to the UN, signed the Paris Agreement, 22 April 2016. Source: UN photo

Malaysia 45% emission intensity reduction based on GDP 05, in 2030



Source: UKPACT-Malaysia

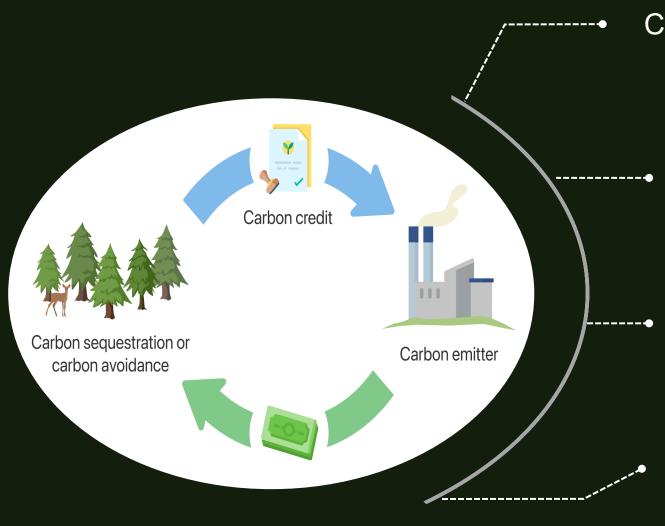
# 02 CARBON CREDIT



A way to give market value for activities that prevent/ reduce the amount of CO<sub>2</sub>/ other greenhouse gases in our atmosphere;

Generally measured as one metric tonne of carbon dioxide gas or its equivalent in other greenhouse gases;

Companies can assess the carbon "footprint" of their activities by measuring how many tonnes of greenhouse gases their operations release into the atmosphere in any given year.



Carbon credits have monetary value;

Requirement by some countries to reduce emission and/ or buy carbon credit (if unable to reduce emission sufficiently);

High demand for credible carbon credit projects that genuinely reduce greenhouse gases;

Forest conservation carbon projects must meet high standards to ensure their credibility in the marketplace

# Increasing Carbon Uptake levels through Forest Development Projects



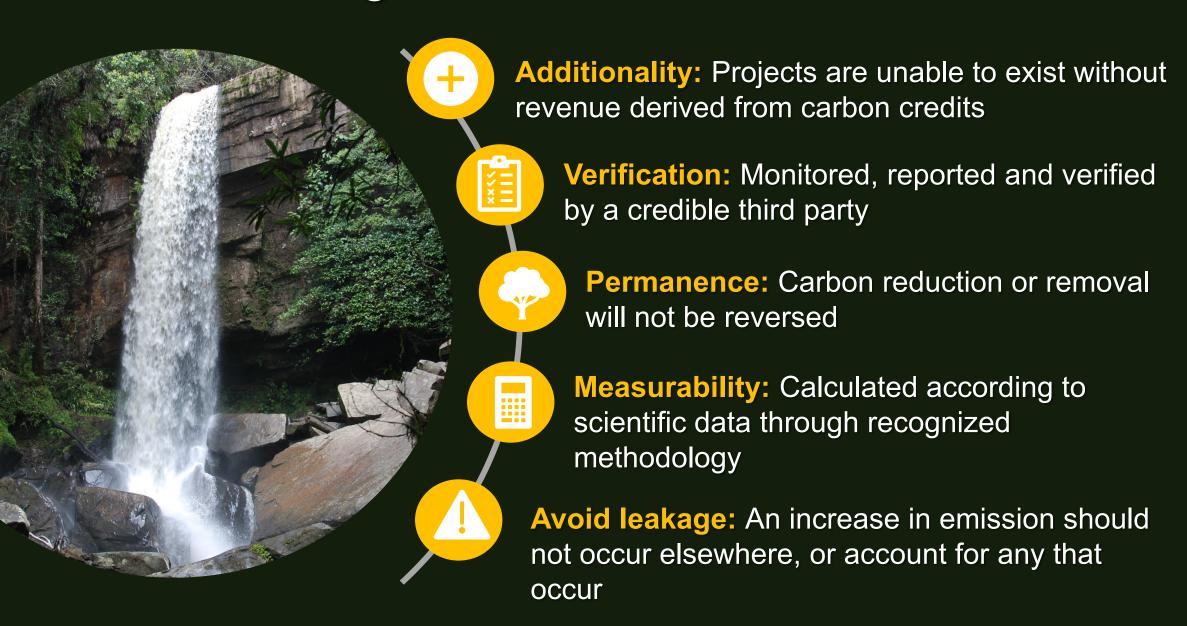
# How the carbon credit system works?

- Carbon credit system now on a path to an internationally recognized incentive system;
- Can decrease overall global greenhouse gas emissions, prevent further climate change and potentially generate revenue for Sarawak through forest carbon projects;
- But how does this all work? Who buys carbon credits? How can Sarawak generate carbon credits? And where are they sold?



## Carbon Offset Credits Carbon dioxide Greenhouse Emissions Sequestration Carbon Credit \*\*\*\*\*\*\*\*\* Permitted sources buy Foresters implement best credit to meet regulatory management practices to requirements generate credit

### HIGH QUALITY CARBON OFFSET?



# 03 CARBON MARKET



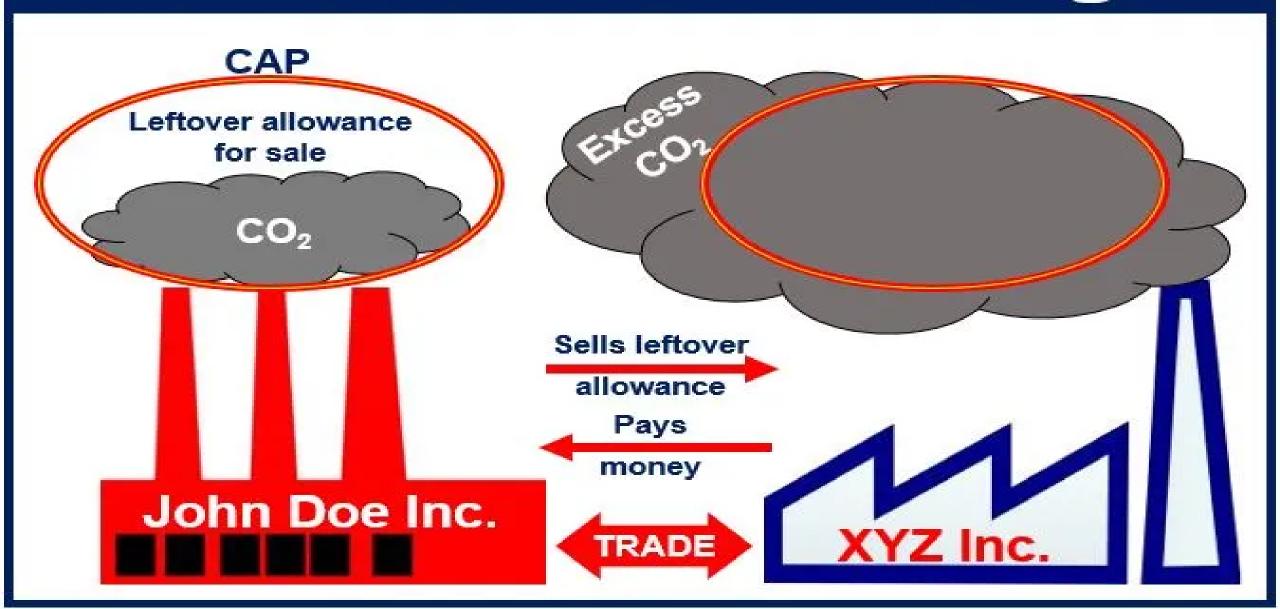
# WHERE TO MARKET CARBON CREDIT?

- Carbon trading, emissions trading, and carbon emissions trading = carbon market
- Voluntary/ Compliance markets
- Network of connections through which carbon credits are bought and sold by companies, governments and organizations.
- Trade carbon emission allowances, aims to encourage companies to limit their emissions of CO2 and to reduce countries emissions





# **Emissions Trading**

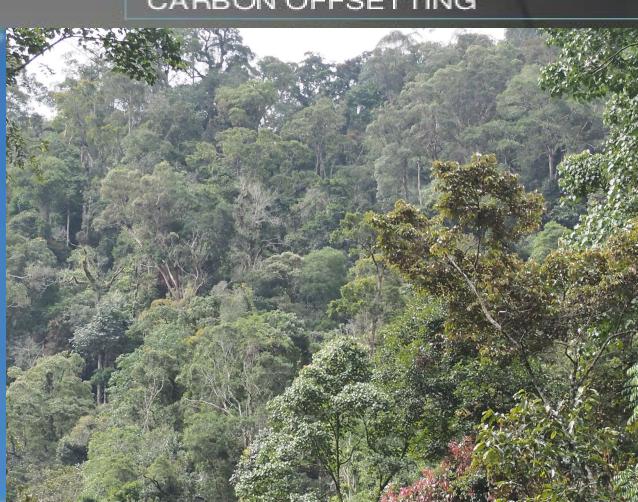


# CARBON

CARBON CAP-TRADE PROGRAM

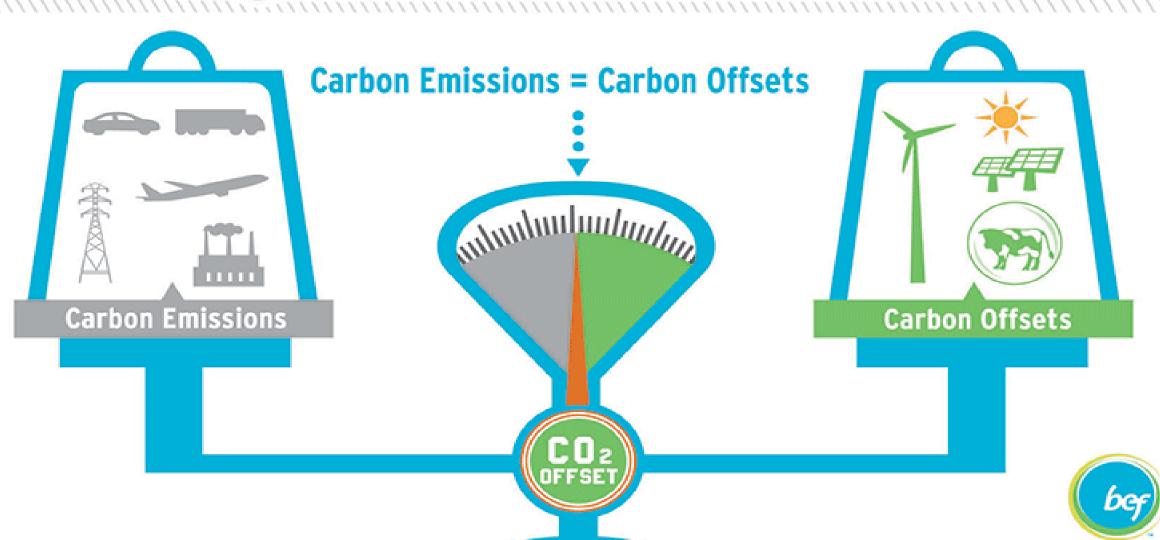
CARBON OFFSETTING





#### How a Carbon Offset works.





b-e-f.org

# CARBON CREDIT

CARBON CREDIT ≈

1 ton of CO<sub>2</sub> or its equivalent greenhouse gas (GHG) which is an entitled certificate by UNFCCC (United Nations Framework Convention on Climate Change)

#### **CARBON MARKETS**



#### **COMPLIANCE MARKET**

Mandatory systems regulated by government organizations to cap emissions for specific industries

\$261B



#### **VOLUNTARY MARKET**

Where carbon credits can be purchased by those that voluntarily want to offset their emissions

\$473M

As demand to cut emission intensifies, voluntary carbon market volume has grown over five-fold in less than five years.

#### **DRIVERS OF MARKET DEMAND**



#### Paris Agreement

Companies seeking alignment with these goals



#### **Technological Gaps**

Companies are limited by technologies that are available at scale and not prohibitive



#### Time Gaps

Companies do not have the means to eliminate all emissions today



#### **Shareholder Pressure**

Companies are facing pressure from shareholders to address their emissions



In 2021, market values in voluntary carbon markets are set to exceed \$1 billion

Source: UNFCCC, UKPact

# 04 SARAWAK INITIATIVE



# POST-COVID DEVELOPMENT STRATEGY 2030

- □ Sustainable Development Goals (SDGs) through PCDS 2030- anchored on 3 pillars: Economic prosperity, Social inclusivity & Environmental Sustainability
- ☐ Ensure a clean and healthy environment for all by having policies on sustainable forest management as well as adoption of new technologies and innovation to support Malaysia's commitment to reduce greenhouse gas (GHG) emissions intensity of GDP of 45% by 2030.

#### STRATEGIC THRUSTS

1

#### **Economic Structure**

Transforming Sarawak into a competitive economy by increasing productivity level, developing more high value downstream activities and creating new industries

2

#### **Ease of Doing Business**

Improving ease of doing business and making Sarawak an investment destination of choice

Economic,
Social and
Environmental
well-being for
all in Sarawak

#### **Targeted Spending**

Spending on areas that yield the most economic, social and environmental impacts

4

#### **Optimize Assets & Human Capital**

Optimizing use of assets and government funding and developing human capital to support socio-economic development

5

#### **Digital & Execution**

Accelerating digital adoption and data utilization to generate outcomes

6

#### **Social Inclusivity**

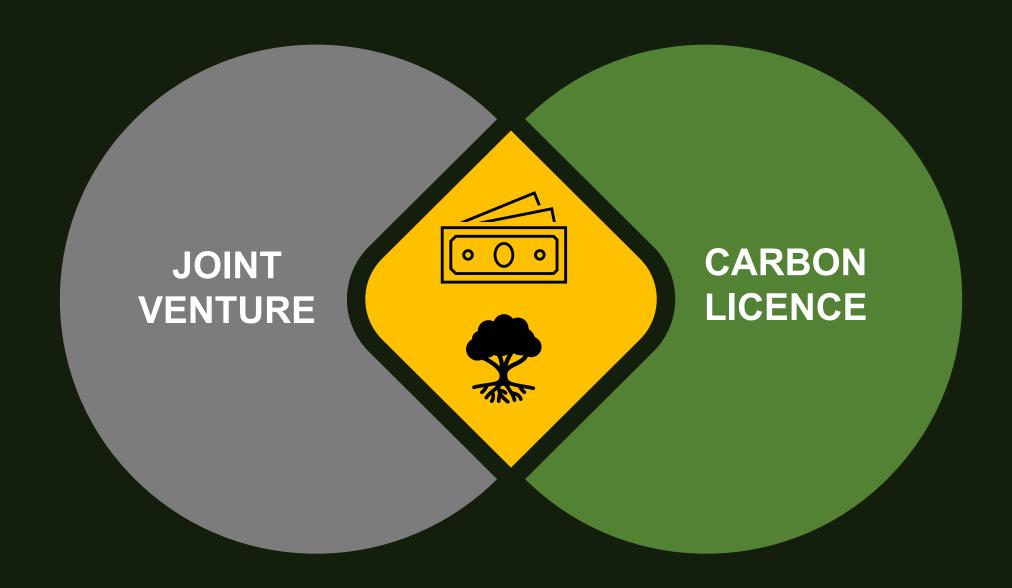
Driving economic and social benefits for all Sarawakians, focusing on impoverishes segment of the population



#### **Environmental Sustainability**

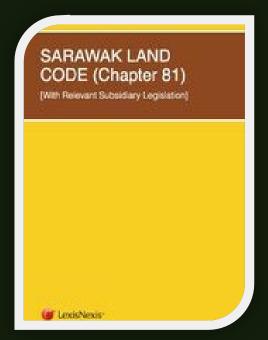
Balancing economic growth and environmental sustainability

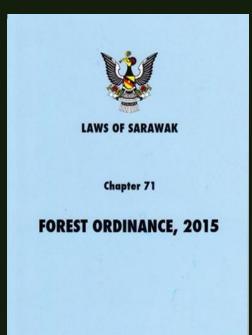
#### SARAWAK APPROACH ON CARBON TRADING



# REVIEW OF POLICIES AND ORDINANCES

- ☐ Land Code to enable carbon capture usage and storage
- ☐ Forest Ordinance regulates forest carbon activity







# Tabling of Forests (Amendment) Bill, 2022 at the State Legislative Assembly (DUN) Sitting on 18<sup>th</sup> May 2022

by

YB Datuk Amar Haji Awang Tengah Ali Hasan Deputy Premier of Sarawak/ Minister for Natural Resources and Urban Development II





### LEGAL FRAMEWORK

### AMENDMENT TO THE LAWS

FORESTS
ORDINANCE
2015

In force since 1<sup>st</sup> June 2015

- Section 2- Definition of Forest Produce extended to Carbon Stock
- 2 Section 70A- Issuance of Carbon Licence by the Director and any matters related therewith

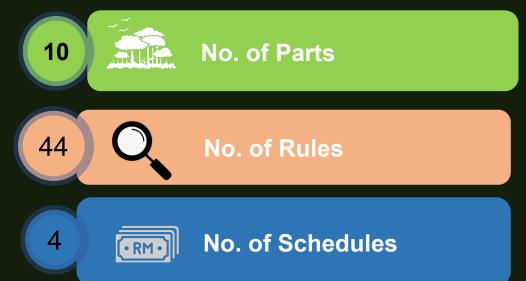
- Section 70B- List of terminologies being used in the forest carbon activities
- Section 113- Power making rules

### LEGAL FRAMEWORK



Rules is drafted to regulate on Forest Carbon activity, carbon credit unit and carbon trading

FORMULATION OF NEW LAWS/ SUBSIDIARIES Forests (Carbon Activities) Rules, 2022





#### Design of activities for a Forest Carbon licence



Accreditation on the activities by Carbon Standard/ State/ National Governing Body

# HOW DOES RULES CAN REGULATE FOREST CARBON ACTIVITIES



Registration of Forest carbon activity



Monitoring includes methodologies, baseline and periods for such monitoring



Payment of Royalties, Premiums, Levies etc.



Mechanism or measures to control no double-counting



### SARAWAK'S GOALS

ISSUANCE OF CARBON STUDY PERMIT

ISSUANCE OF CARBON LICENCE

TRADING OF CARBON CREDIT UNITS

