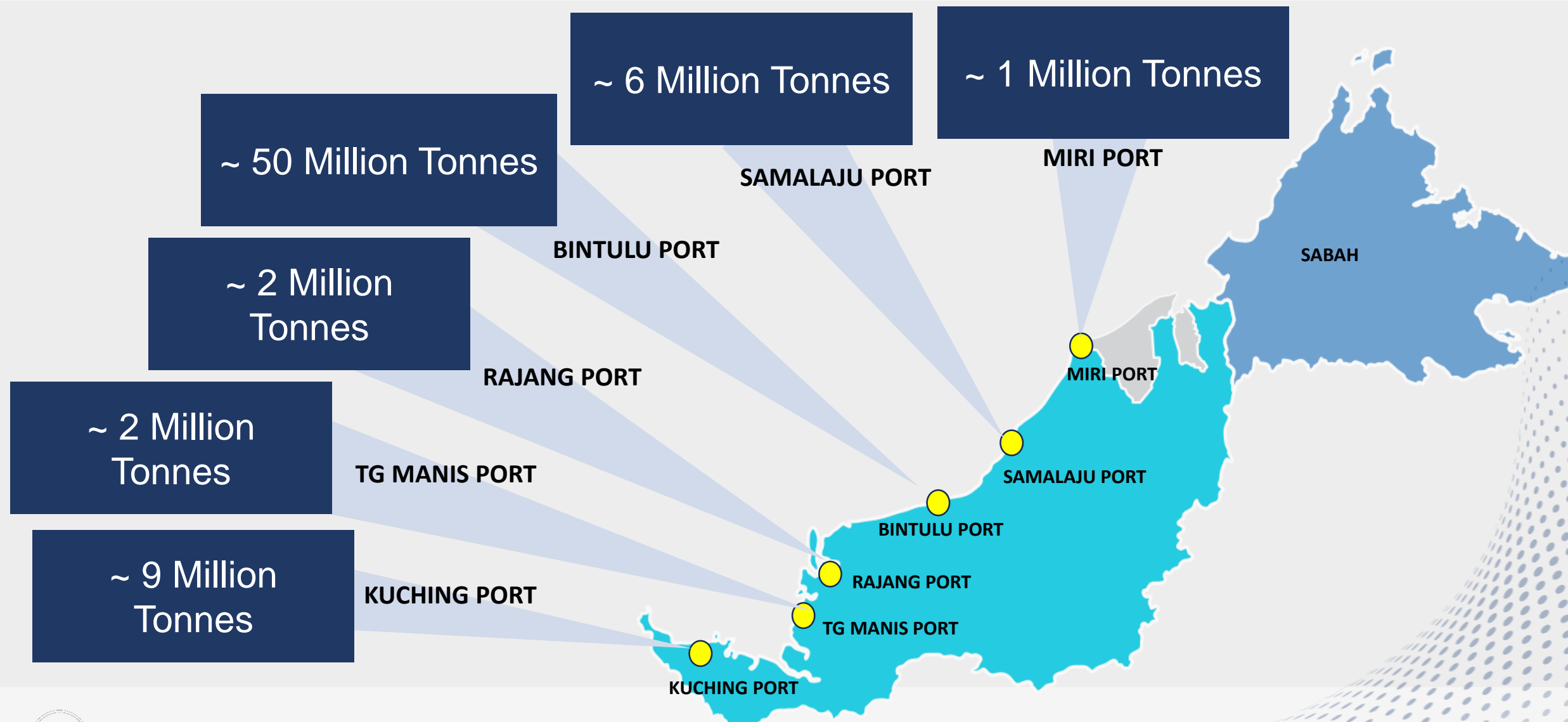




SUSTAINABLE PORT INFRASTRUCTURE DEVELOPMENT

Ruslan Bin Abdul Ghani
Group Chief Executive Officer
Bintulu Port Holdings Berhad
17 July 2024

SIGNIFICANCE OF SARAWAK'S SIX PORTS: HANDLING ~ 70 MILLION TONNES ANNUALLY



WHAT IS SUSTAINABILITY?

- ▶ Sustainability is about doing things that will provide a **better future for generations** to come.

3 PILLARS OF SUSTAINABILITY






80% of Global Needs
Transported via **sea** routes.



Our “Halatuju 2050”
To ensure Bintulu Port stays relevant to future demands and sustainability goals.

► 4 Keys Sustainable Port



EFFICIENT

The use of energy, space and resources.




GREEN

Shipping and ports contributed less than 10% of global greenhouse gas emissions.



ADAPTIBILITY

Adapt and adopt new technologies.

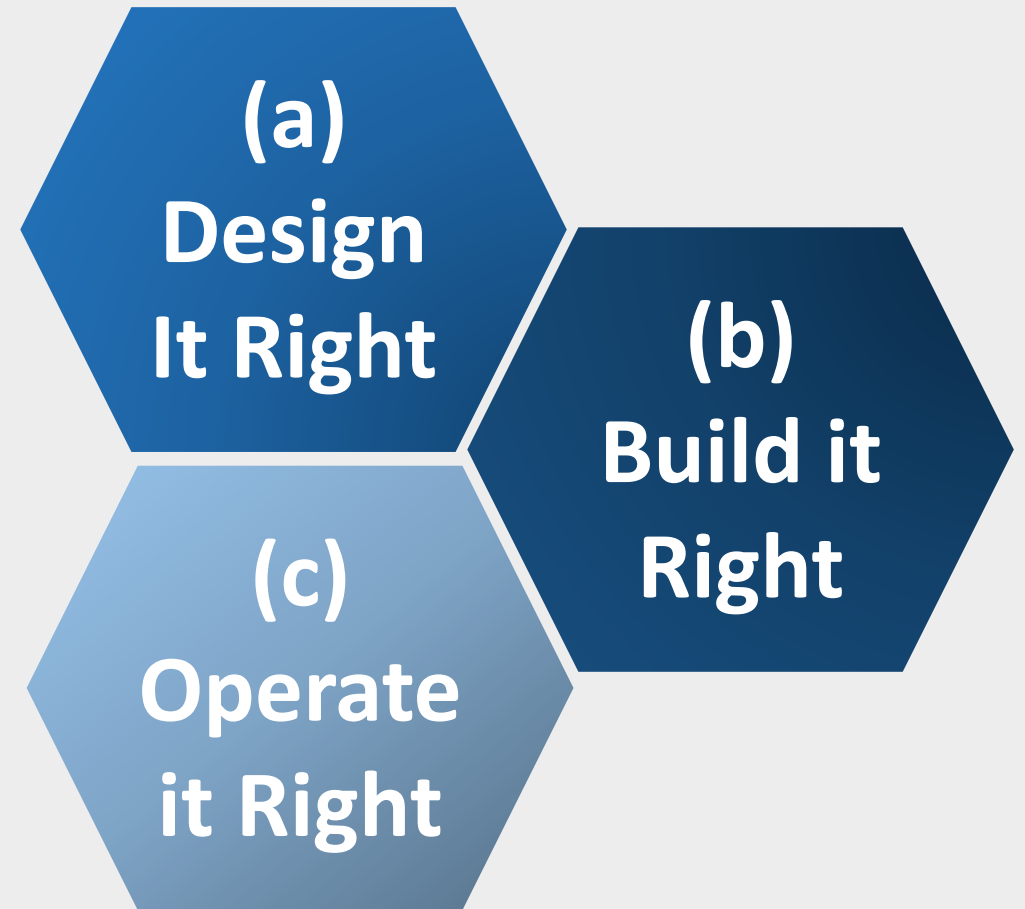


ELIMINATE WASTE

Embrace or recycle waste.

3

COMPONENTS OF SUSTAINABLE PORT INFRASTRUCTURE DEVELOPMENT



a) DESIGN IT RIGHT

1



COST STRUCTURE



- Balance between **Capital expenditure (CAPEX)** and **Operational expenditure (OPEX)**.
- Low upfront CAPEX, ended up high OPEX.
- High upfront CAPEX, reduce OPEX over life cycle.

2



OPERATIONS VS PROJECTS



- **Project** would normally go for the **lowest cost** and **fastest delivery**.
- **Operations** would look at **Operability** and **Maintainability**.
- Operations should be integral to the project team from the start.

3



FLEXIBILITY



- Cater for **future growth** and **expansions**.
- Balance between **forward-thinking** vs **wait-and-see attitude**.
- **Should we build?**
 - Over build the port.
 - Build-as-we-go.
 - Build the industry first.

a) DESIGN IT RIGHT (cont..)

4



GREEN SOLUTIONS & WASTE MANAGEMENT

a) Green Solutions

- Focusing on developing a range of clean maritime technologies including electric, hydrogen, ammonia, methanol, wind power and more.
- Transportation: Low emission technology.

b) Waste Management

- Waste to Land
- Waste to Road
- Waste to Power

5



DIGITAL & TECHNOLOGY

a) Digital solutions and technologies

- Adapt and adopt as and when new technologies are introduced.

b) Space / Satellite technology.

- *Port of Rotterdam*: Employed satellite technology to measure their quay walls.
- *Bintulu Port*: Exploring the use of satellite to study the sedimentation and siltation issues.

c) Digital Transformation.

- YAB Premier drives for digitalization to empower Sarawak economic sectors to increase productivity.

b) BUILD IT RIGHT



1

INNOVATIVE SOLUTIONS

Advancement of **new construction technologies** that not only **lower cost**, but also speed up **implementations**.



2

EFFECTIVE CONTRACTING STRATEGY

Employ **EPCC concept**, or **E + PCC** concept, or other variables.



3

EQUIPMENT

Adhere to the proper **specifications** and **equipment** supplied during the operations phase.

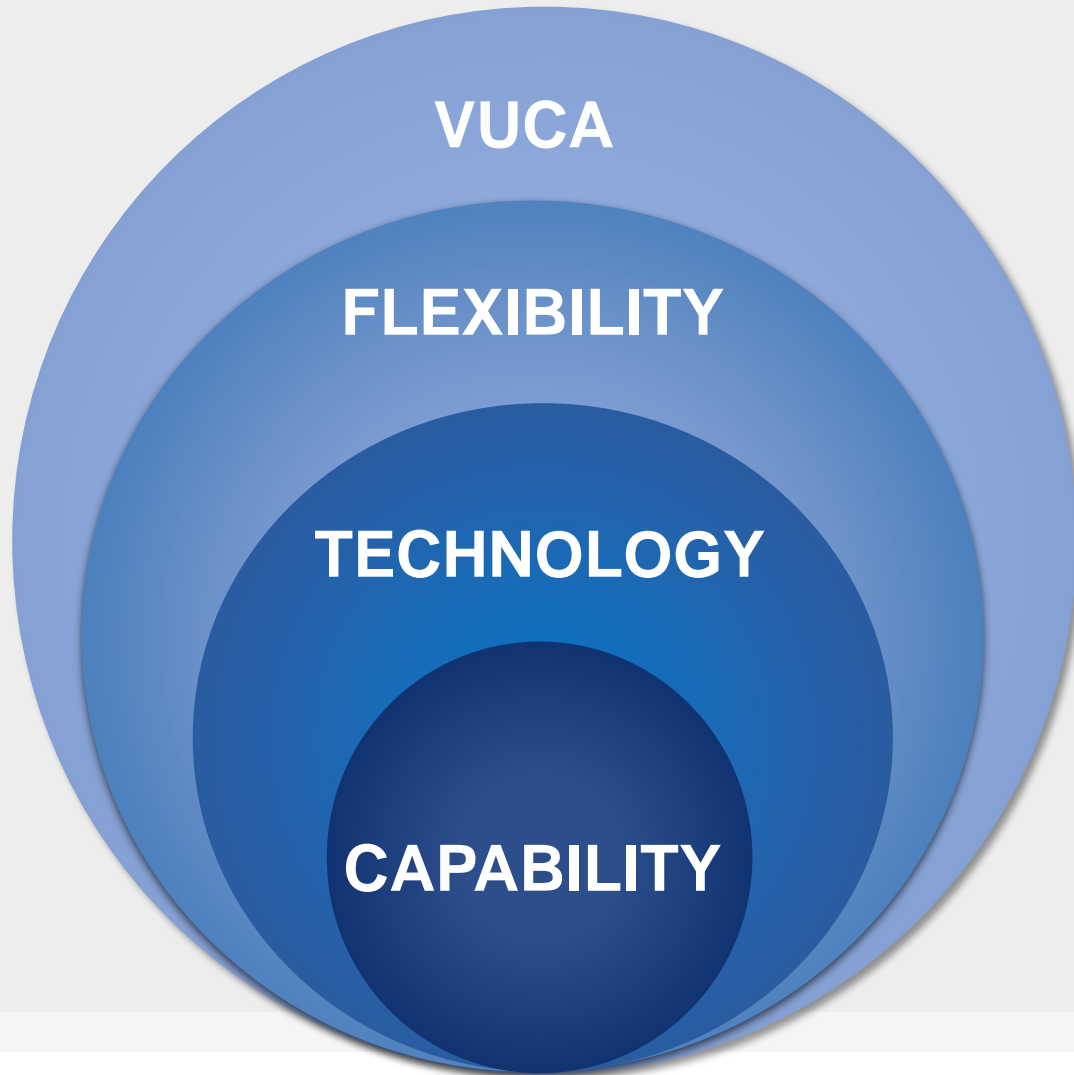


4

COST MANAGEMENT

Unfavorable foreign exchange rate, **price escalations** and **rework** would quickly drain the coffer.

c) OPERATE IT RIGHT



01 CAPABILITY

- Skills, Knowledge and Aptitude.
- Capabilities to do all the work on manual

02 TECHNOLOGICAL SYSTEMS

- Ability to incorporate IoTs, AIs and other smart solutions

03 FLEXIBLE & ADAPTABLE

- Improve and respond to evolving industry demands and technological advancements

04 VUCA WORLD

- Volatility, Uncertainty, Complexity and Ambiguity World.
- Vision, Understanding, Clarity and Agility

ENVISIONING THE FUTURE PORTS IN SARAWAK

1. Transition of Bintulu Port

- Manages 25 million tonnes of Sarawak's LNG exports
- Handles approximately 95% of Sarawak's annual palm oil exports (about 4.5 million tonnes)

2. Expansion of Samalaju Port

Growth potential to reach designed capacity of 18 million tonnes per annum

3. Tanjung Embang as a Deep-Sea Port

Establishing as primary trade gateway for southern Sarawak

4. Lawas Deep Sea Port

Industrial centers to capitalize on its proximity to Sabah and Brunei.

5. Miri Port

Stimulating development of related infrastructure, investments, and industries.

6. Rajang Port and Tg Manis Port.

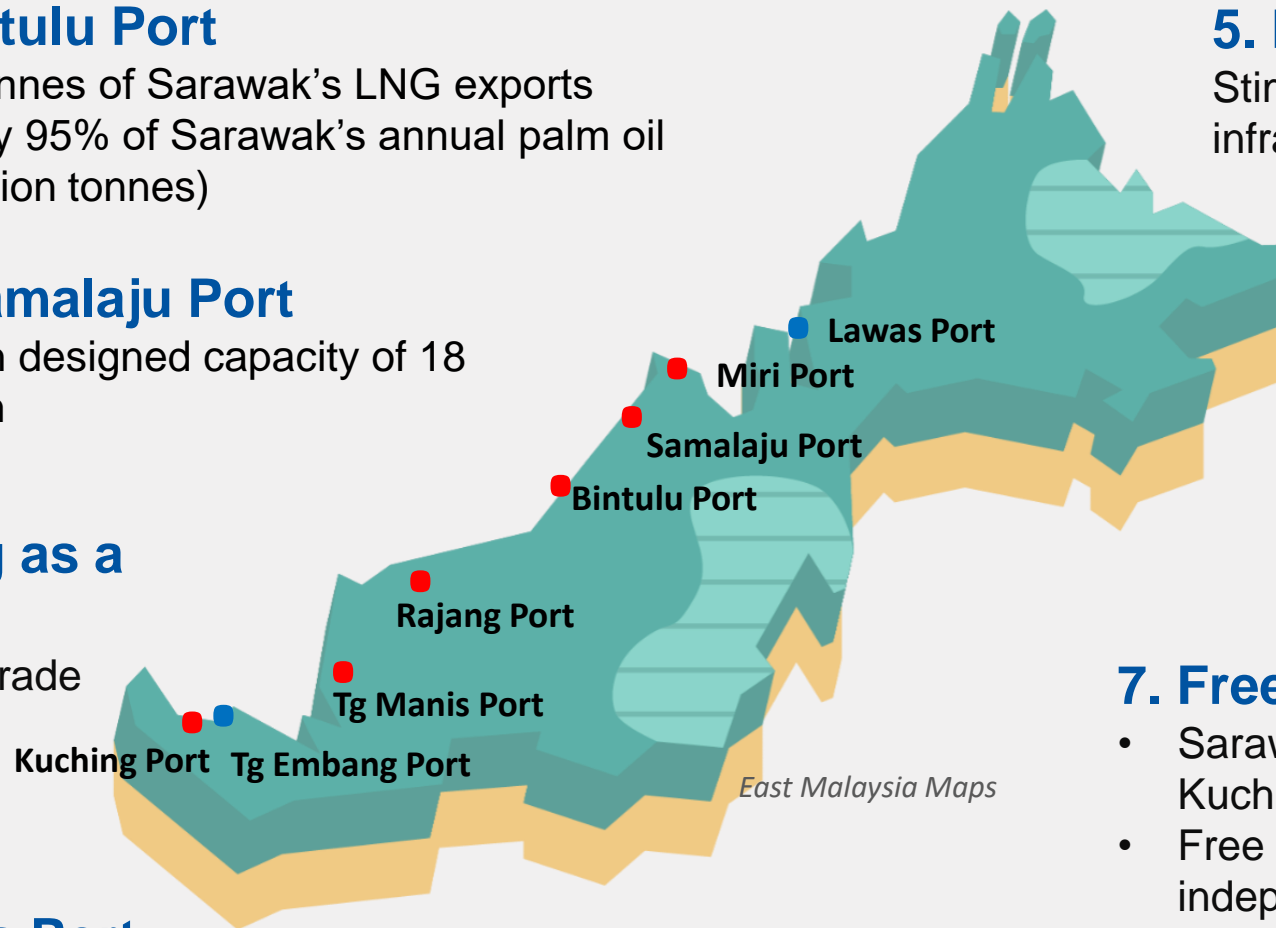
- Tanjung Manis to cater to central region's needs.
- Repurposing Rajang Port to decongest and develop Sibu city into a greener environment.

7. Freezones

- Sarawak currently has one Free Zone in Kuching.
- Free Zones attract foreign investments independently of local demand.

8. Port and the industrial development

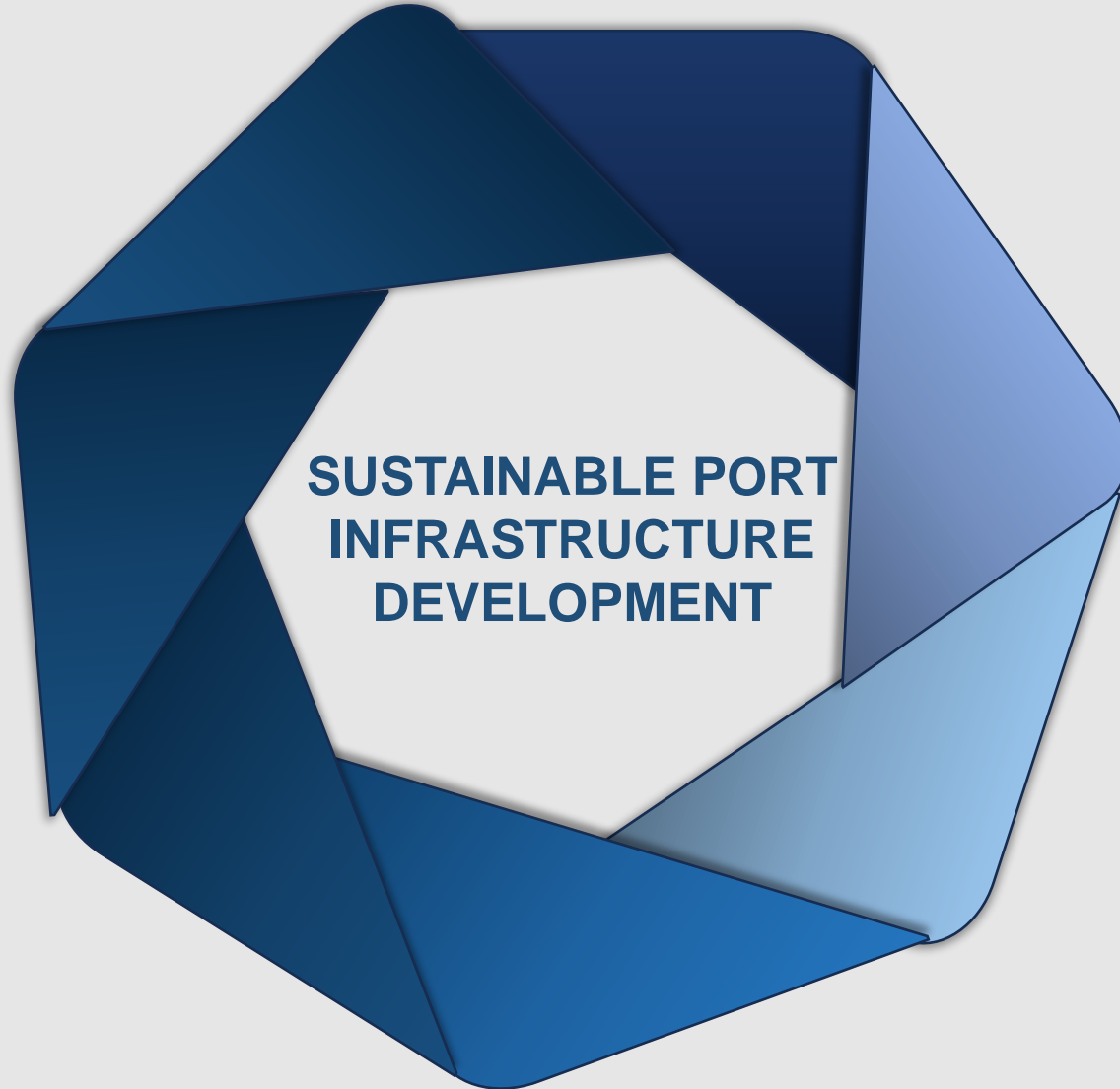
- Consider integration under one ministry for efficiency



01

Sustainable Port Infrastructure.

- Efficient
- Green
- Digital & Technology
- Eliminate Waste
- Environmental Friendly



03

Focus on Capabilities and efficiencies.

04

Improve weaknesses: Focus on strength grab and chase every opportunities.

05

Supportive Ecosystem: Quality of the road and strong support from stakeholders.

02

Sarawak to Support 6 Economics Sectors PCDS 2030.



THANK YOU

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