



SABAHPORTS
YOUR PORTS OF PREFERENCE

BORNEO INTERNATIONAL MARITIME WEEK 2025

Engineering a Sustainable Future: Integrating Green Innovation and Digital Competence at Sabah Ports

Presenter:

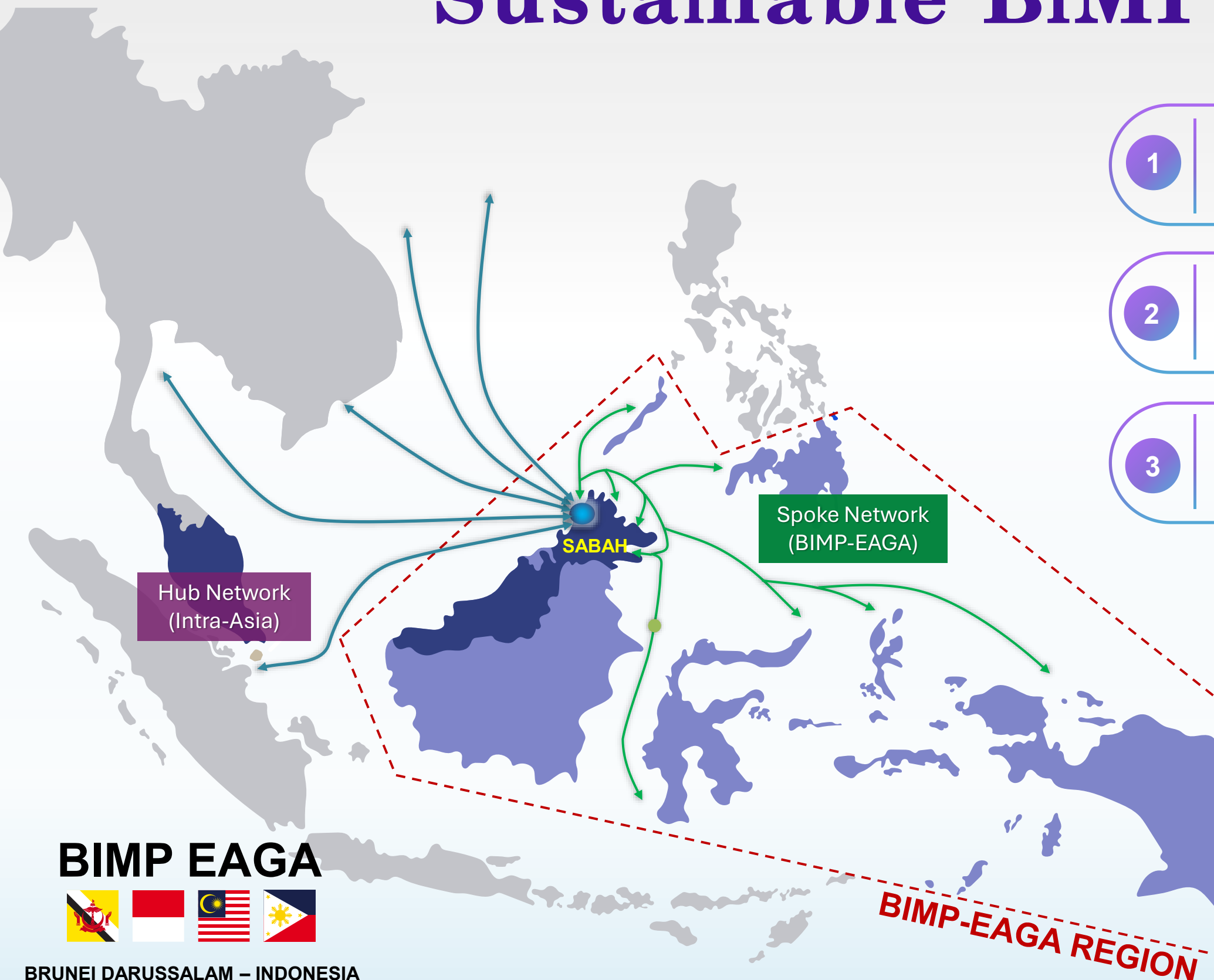


Ts. Jason Jouti

Deputy General Manager (Technical)
Sabah Ports Sdn Bhd

The Role of Ports in a Sustainable BIMP-EAGA Future

- 1 Ports are key enablers of trade, employment, and regional growth.
- 2 The BIMP-EAGA vision emphasizes sustainability, digitalization, and competence.
- 3 Technical innovation is the backbone of this transformation.



BIMP EAGA



BRUNEI DARUSSALAM – INDONESIA
– MALAYSIA – PHILIPPINES



Engineering the Backbone of Sabah's Maritime Network

8 major Ports across Sabah:

container, general cargo, oil,
and cruise terminals.

- Technical division ensures asset reliability, safety, and maintenance planning
- Strong engineering culture supports continuous improvement



From Planning to Competence

Assisted in planning the
Sapangar Bay Container Port (SBCP) expansion.



Expansion boosts capacity from
500,000 → 1.25 million TEUs

Improved maintenance strategies and
risk-based inspection introduced

Engineering planning forms the
foundation of operational competence

Greening Our Ports — Achievements and the Road Ahead

What We've Achieved

Where We're Heading

2015

- LED high-masts installed at SBCP.
- Solar panels at Tawau Port



2016

RTGs at SBCP converted to electric power.



2020 -2022

LEDs upgraded at SBOT, Sandakan, Tawau.



2019 -2024

Rainwater harvesting systems implemented at multiple ports.



2025

Solar panels installed in SBCP for efficiency.



2026

Transition to electric terminal tractors in Tawau.



- Expand solar, LED, and electrification to more ports by 2027/2028
- Implement predictive maintenance through advanced digital tools
- Strengthen CMMS and integrate mobile field systems
- Ongoing professional certification and technical upskilling

System-Driven Operations and Data Integration

Implementation of apps and digital systems for:

- Project Management
- Asset Management
- Construction Monitoring
- Port Operations

Enhances transparency, productivity, and data-driven decision-making.



DIGITAL v2

Dashboard

- Report
- VESSEL OPERATIONS
 - Vessel Registration
 - Form-A
 - Berthing Approval
 - Berthing Request
 - Unberthing Request
 - Vacate-Out/In Request
 - Shifting Request
- POWER & STEVEDORE
 - Stevedore
- Port Info
- TUTORIAL & GUIDE
 - Flowchart
 - Video Tutorial

Vessel at Berth and Discharging/Loading Status

Berth No	Vessel Info	Alongside	Discharged	Loaded	Balance/Grand	Estimated Time of Completion
KK06	QUANG MINH S KK2810078 12/3025 CV 08.01/7	20/10/2025 07:20	2044/6491	0/0	47/6491	30/10/2025 20:14
KK03	MV MAULOA KK2800087 8 CV 10.52/9	22/10/2025 11:35	0/0	0/101	1101/1101	TBD
KK02	MV PACIFIC STAR KK2810042 210WE CV 103.66/8	23/10/2025 08:00	102/204	0/221	324/426	27/10/2025 14:32
KK00	BANDAR HARAPAN KK2810082 09/3025 CV 06.43/4	23/10/2025 07:05	14/929	0/0	915/929	29/12/2025 18:00

Vessel at Anchor/Awaiting at Berth

Berth No	Vessel Info	Anchor(ATA)	ETB	To Discharge*	To Load*	Berthing Prospect
KKLJ	EXPRESS KINABALU KK2810143 VY080 FR 36.44/2	TBD	24/10/2025 16:45	0	0	TBD

*Values are estimated

Vessel Due at Next 72 Hours

Berth No	Vessel Info	Anchor(ETA)	ETB	To Discharge*	To Load*	Berthing Prospect
TBD	EXPRESS KINABALU KK2810143 VY080 FR 36.44/2	24/10/2025 16:45	24/10/2025 16:45	0	0	TBD

*Values are estimated

Developing Skilled and Competent People

- Professional certification drive – 4 Professional Technologists (MBOT).
- GWUT and apprenticeship programs for technical staff.
- Continuous training for operations personnel on equipment care, safety, and digital literacy.



An aerial night view of a busy port. Several large cargo ships are docked at the pier, illuminated by bright lights. In the foreground, there are large stacks of colorful shipping containers and modern port buildings. The background shows a dark sea and distant hills under a twilight sky.

Shaping a Sustainable and Competent Future

Engineering enables sustainability.

Digital systems strengthen reliability.

Skilled people ensure lasting progress.

Together, we build a sustainable and
competent maritime ecosystem.



Call to Action

**“ If not NOW,
then WHEN? ”**

– TS. JASON JOUTI



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*‘Engineering a Sustainable Future:
Integrating Green Innovation and Digital Competence
at Sabah Ports’*

THANK YOU

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