

OCEAN SHIPPING CONSULTANTS

by **Haskoning**











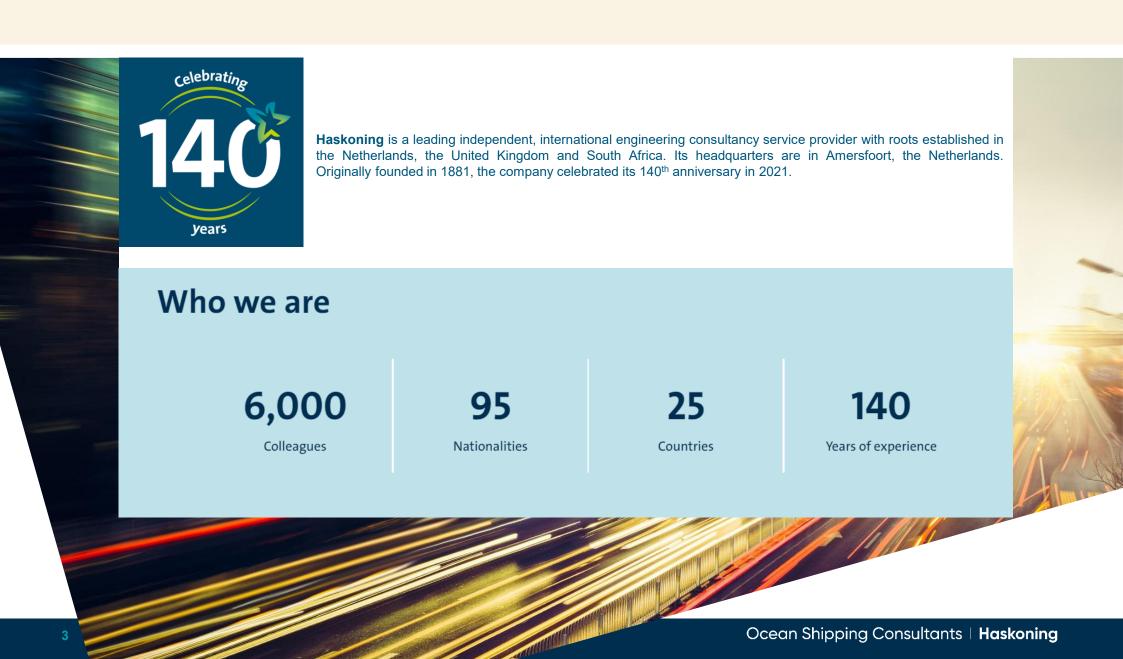




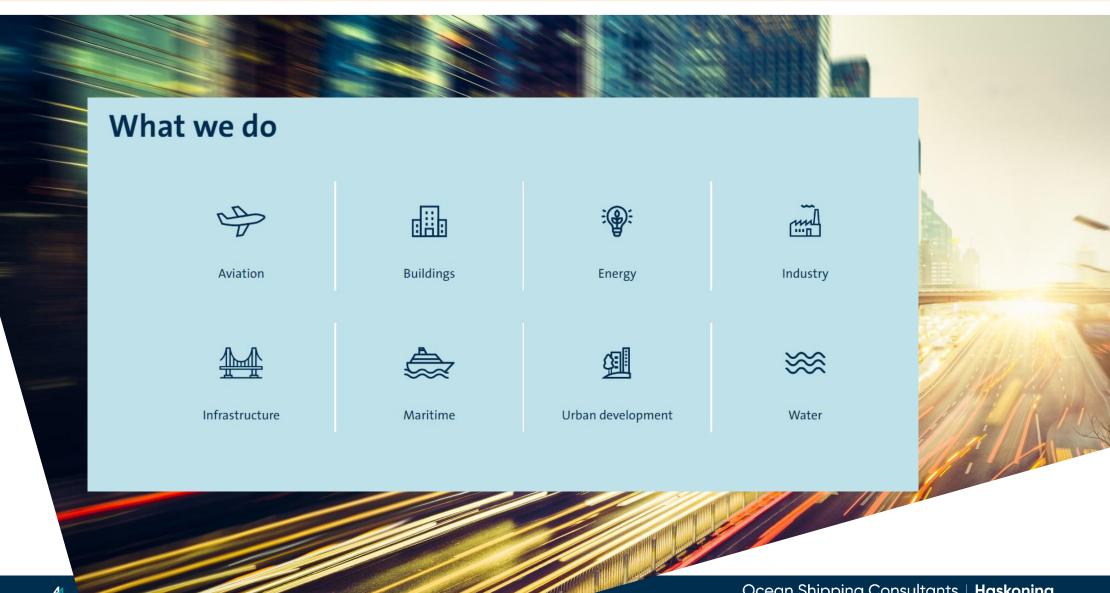
Lim Hoong Keat Senior Business Analyst in Haskoning



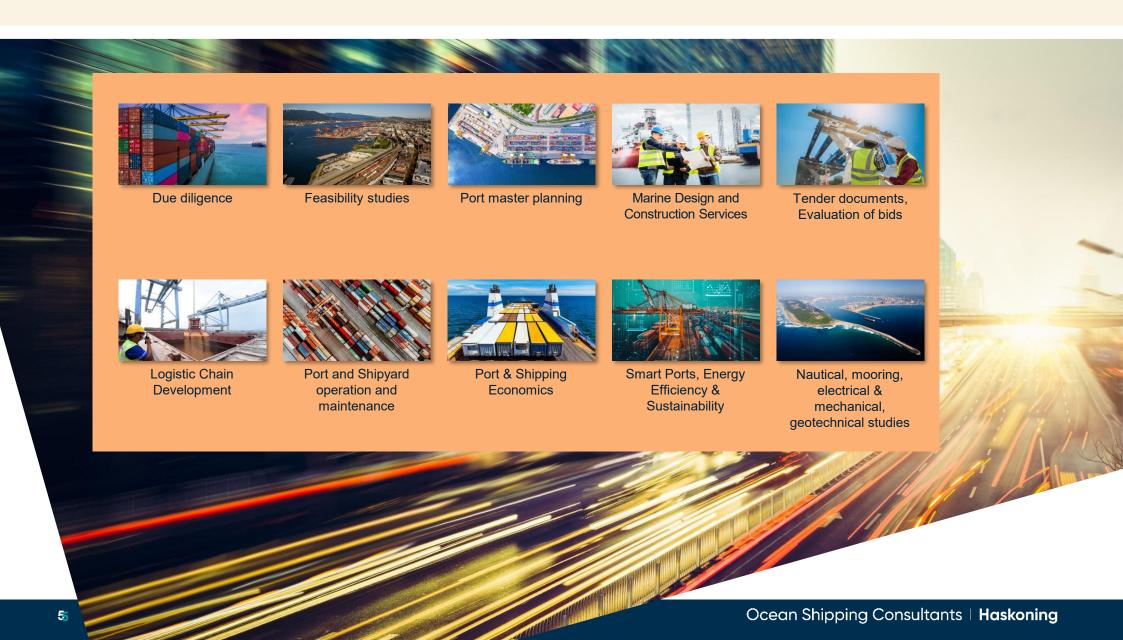
Haskoning is an independent international engineering and project management consultancy.



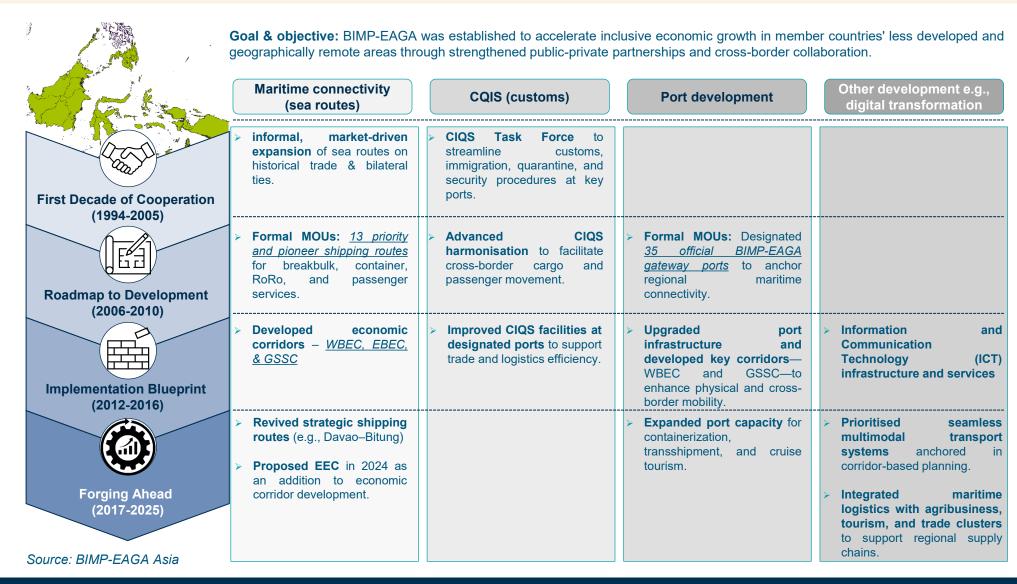
We cover a wide range of infrastructure assets, offering services that ranges from consultancy, engineering design, software and technology. The company is operated globally, which allows deployment between countries.



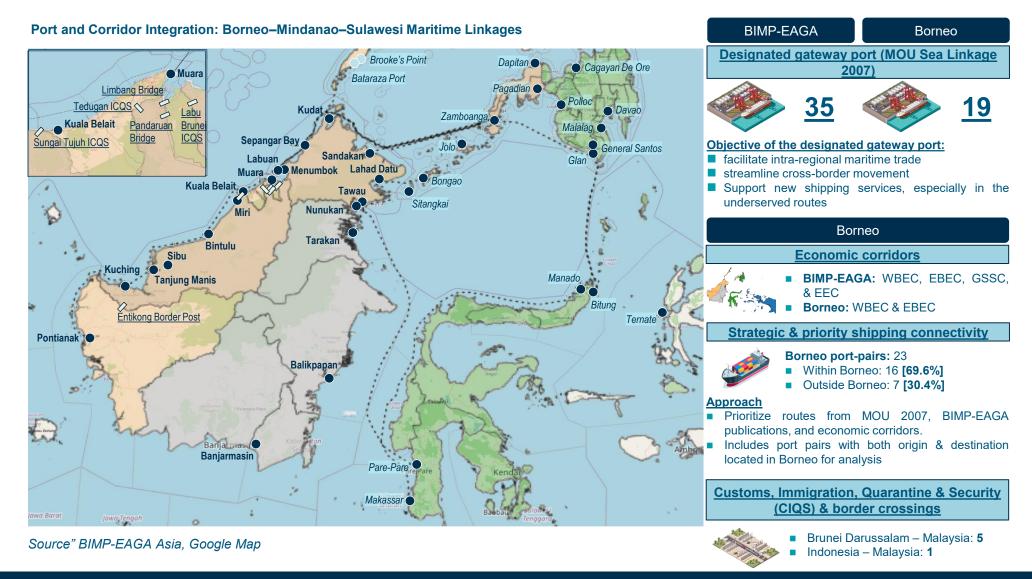
Services: Consulting, Planning, Designing, Project Management, Asset Management, and Digital Service



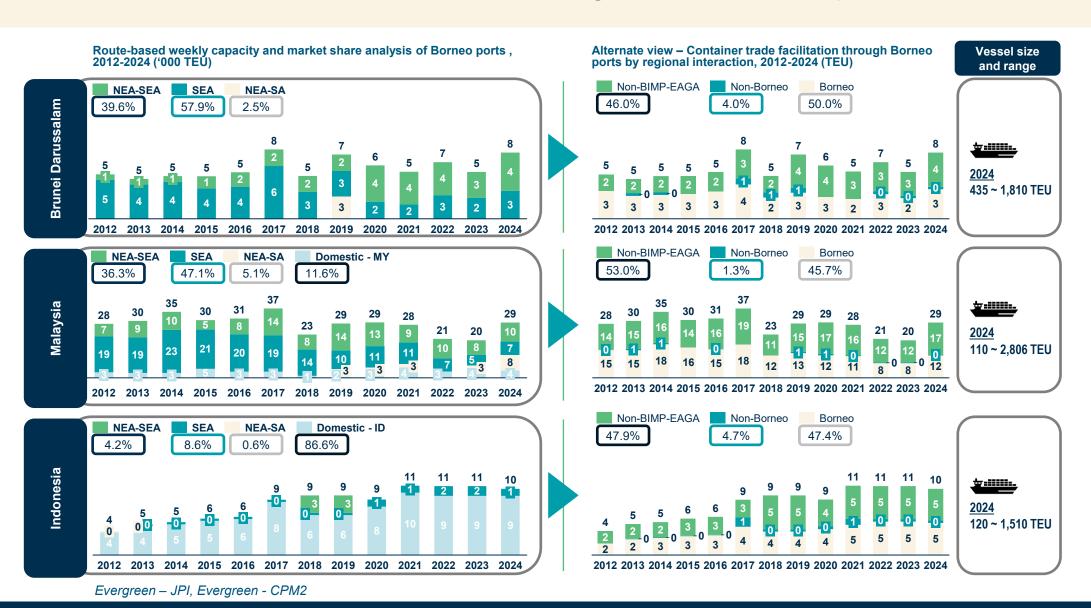
BIMP-EAGA's early initiatives established maritime trade as a catalyst for integrating remote regions. Key infrastructure was prioritized and developed through economic corridors, with ongoing upgrades and technology integration enhancing freight and passenger flow



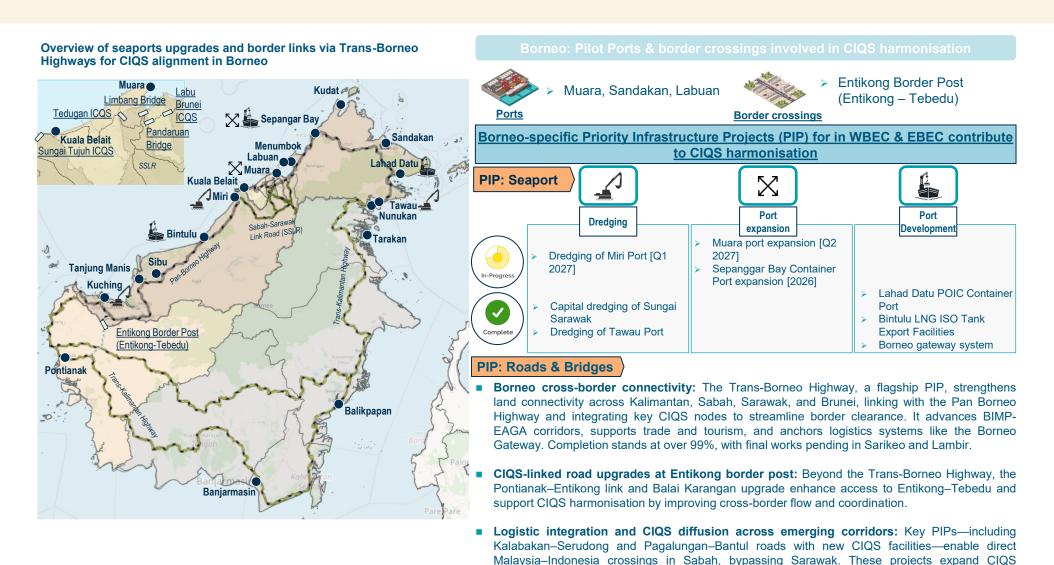
Borneo hosts 19 designated gateway ports across its West & East Economic Corridors. Around 70% of freight and passenger movement occurs within Borneo, aligned with BIMP-EAGA's prioritized port-pair routes. Ongoing CIQS harmonization reflects deeper cross-border logistics integration.



Using containerized trade as reference for Borneo trade development and partnerhips. Prioritized shipping routes under BIMP-EAGA have enabled intra-Borneo container flows to rival Southeast Asia and Far East volumes, with short-sea demand favoring feeder vessels over deep-draft infrastructure.



Recent BIMP-EAGA developments focus on CIQS harmonization to reduce border inefficiencies and enhance trade and mobility. In Borneo, PIPs at ports & logistics corridors aims to improve cargo and passenger flows, with pilot nodes guiding phased upgrades and cross-border coordination.



harmonisation to emerging nodes, boosting logistics integration in underlinked areas. Malaysia-

Brunei coordination is similarly advancing via Limbang Phase 2.

Limitation & challenges

Despite ongoing and completed projects to strengthen Borneo's logistics supply chain, key gaps remain—particularly in customs clearance, port infrastructure, and hinterland connectivity. These nodes continue to limit efficiency and highlight the need for further targeted improvements.

Limitation & challenges

CIQS harmonisation



- Fragmented CIQS protocols: Disjointed implementation across borders—such as at Sungai Tujoh and Tarakan—delays clearance and raises transaction costs, as highlighted in BEV 2025.
- Disconnected customs systems: Limited digital integration and data sharing between member states' customs platforms impede coordinated clearance and real-time processing.
- <u>Divergent standards & procedures:</u> Inconsistent inspection protocols and CIQS practices across Malaysia, Indonesia, and the Philippines hinder seamless cargo movement, especially for perishables.

Maritime development



- <u>Uneven port capabilities:</u> Many ports lack container, cold chain, and transhipment facilities—limiting cargo diversity and regional roles.
- Draft limitation and aging assets: Shallow berths and aging assets restrict vessel size and reduce operational efficiency
- > <u>Incomplete intermodal linkages:</u> Gaps between ports and hinterlands constrain throughput and corridor performance.

Examples

- Sungai Tujoh: Misaligned customs and immigration procedures—compounded by limited operating hours and the absence of a unified digital system.
- Tarakan: Persistent challenges in harmonising quarantine and customs procedures with Malaysia and the Philippines—where inconsistent inspection standards and limited system interoperability lead to disruptions to the flow of goods, especially perishables & seafood products.
- Kudat & Tawau (Sabah): Limited facilities for containerisation and cold storage, constraining their role in seafood export and regional logistics.
- Labuan & Miri (Sarawak): Constrained by hinterland connectivity with limited rail/high capacity road links to major inland production zones.

Logistic connectivity



- <u>Discontinuous road corridors:</u> gaps in networks like the Trans-Borneo Highway slow inter-port and cross-border movement.
- <u>Underserved last-mile zones:</u> Inadequate infrastructure in rural and interior areas limits access and logistic efficiency.
- <u>Unaligned vehicle standards:</u> Lack of harmonised axle road load limits and vehicle specifications across borders disrupts cross-border transport
- Trans-Borneo Highway: Key stretches especially between Sarawak & Kalimantan – remained incomplete/under-maintained
- Interior Sabah & North Kalimantan: Rural areas (e.g., Pensiangan in Sabah) & Malinau (Kalimantan) face poor road access, limiting connectivity at Tawau & Tarakan ports.
- Axle load & vehicle specifications: Differing axle load limits and vehicle classifications across Malaysia & Indonesia delay cross-border freight and require transshipment at border points.

Opportunity & recommendations

While CIQS integration and protocol alignment remain central to improving cross-border flows, stakeholders and investors have opportunities to support maritime trade through corridor-based port development and logistics infrastructure that bridge coastal and hinterland linkages.

Opportunity & recommendation

CIQS Integration & standardisation



- Standardise CIQS protocol across borders: Unified custom clearance & inspection procedures across BIMP-EAGA to ensure consistency – especially critical for time-sensitive cargoes.
- Upgrade and align digital customs platforms: Aim for parity in digital capabilities across all member states. Invest in interoperable digital systems for real-time data sharing and coordinated processing.
- Leverage lessons from pilot nodes: Systematically collect feedback from successful CIQS pilot sites and replicate proven practices at non-pilot crossings and ports.
- Institutionalise best practices regionwide: Develop a regional CIQS playbook based on pilot learnings to guide implementation, training and monitoring.

Strategic objective & transformation aim

- Clearance process acceleration
- Reduced transaction costs
- Enhance cargo integrity and trade facilitation
- Deepen regional integration under BIMP-EAGA

Corridor-based port development



- > <u>Upgrade port-based logistic infrastructure:</u> Develop container yards, cold chain facilities, & transhipment hubs to support diversified cargo & regional trade roles.
- **Established integrated logistic hubs:** Position multimodal logistics centres near strategic ports to consolidate warehousing, value-added processing, and last-mile distribution.
- Increase cargo throughput & modal efficiency
- Strengthen corridor competitiveness and regional integration

Bridging coastal-hinterland trade linkage



- Strengthen hinterland connectivity: Improve the road and rail linkages between ports and inland production zones—such as Kalimantan's agro-industrial clusters and Mindanao's fisheries—to facilitate exports and reduce logistics bottlenecks.
- Promote inclusive economic uplift: Enable inland communities to access broader markets, boosting local production, consumption, and living standards beyond coastal zones.
- Expand export capacity for inland producers
- Inclusive growth across the coastal and hinterland regions

BIMP-EAGA has improved port and inland connectivity, spurring growth in remote areas and linking coastal and hinterland regions. Strengthening trade nodes and integration remains key. Models like BPG offer replicable success, but progress depends on sustained public-private collaboration.

■ Goal & Objective: The BIMP-EAGA was established to accelerate inclusive economic growth in the less developed and geographically remote areas of member countries through strengthened public-private partnerships and cross-border collaboration.

Promise of port development and maritime connectivity

- > Revitalization and promotion of underutilized strategic shipping routes
- > Designated priority infrastructure projects (PIP) Initiatives advancing maritime, inland, and cross-border connectivity
- > Customs Immigration Quarantine & Security (CIQS) harmonization initiation

Hinterland of Boneo regional trade & economic development with reference to containerized trade

- > Half of Borneo's container trade is intra-regional, making CIQS harmonisation within Borneo a priority before scaling it up to BIMP-EAGA.
- > East Malaysia and Brunei primarily trade with Southeast Asia; Kalimantan trades mainly with other Indonesian islands.

Challenges



- Fragmented CIQS protocols
- Disconnected customs systems
- Divergent standards procedures
- Uneven port capabilities
- Draft limitation and ageing assets
- Incomplete intermodal linkages
- Discontinuous road corridors
 Underserved last-mile zones
 Unaligned vehicle standards

Recommendation

- > Standardise CIQS protocol across borders
- Upgrade and align digital customs platforms
- & > Leverage lessons from pilot nodes
 - > Institutionalise best practices regionwide
 - > Upgrade port-based logistic infrastructure
 - > Established integrated logistics hubs
 - > Strengthen hinterland connectivity
 - > Promote inclusive economic uplift

Key recent BIMP-EAGA maritime development

- [Sapangar Bay] In 2024, Sabah Ports partnered with DP World and designated Sapangar Bay Port as a dedicated transhipment hub for the BIMP-EAGA region. Plans are underway to expand its capacity, aiming to double its current cargo handling volume.
- [Borneo Port System] The software system was fully implemented in 2023 and became mandatory for port submissions, streamlining and digitising documentation and processes, with a primary focus on Bintulu Port.

Moving forward...







Feasibility studies

Stakeholders may consider conducting market scans or economic studies to identify key import-export hinterlands and strengthen port connectivity through logistics hub development or ongoing improvements to Borneo's road and rail infrastructure.