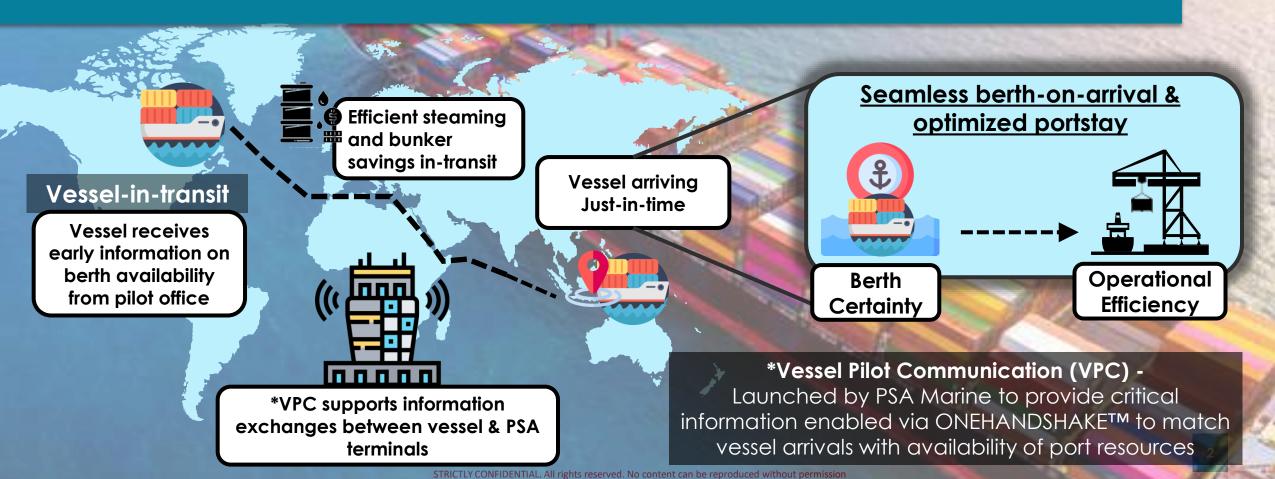


OptE-Voyages

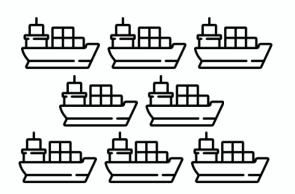
OptE-Voyage facilitates transparent real-time activity synchronization and 24/7 ship-to-port data exchange to enable Just-In-Time vessel arrivals. Through stakeholder collaboration, it supports the dynamic optimisation of terminal resource planning and efficient vessel bunker consumption, thereby improving the carbon abatement, efficiency and resilience of our supply chain.

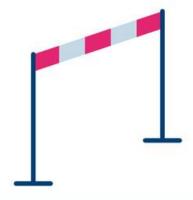


Overcoming Challenges



Vessel congesting Singapore's anchorages





Vessel burning excessive bunker and emitting carbon



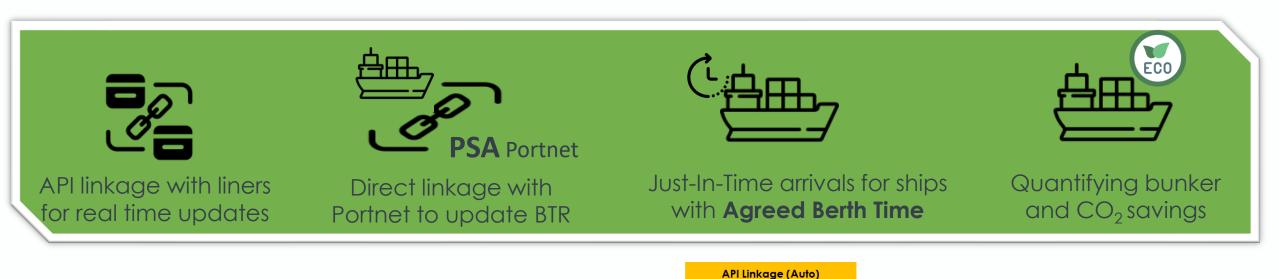


Delayed updating of berth time required (BTR) by local office/ agencies E.g. Time zone differences





Innovative Solution















Early Assessment

Timely adjustment of vessel speed

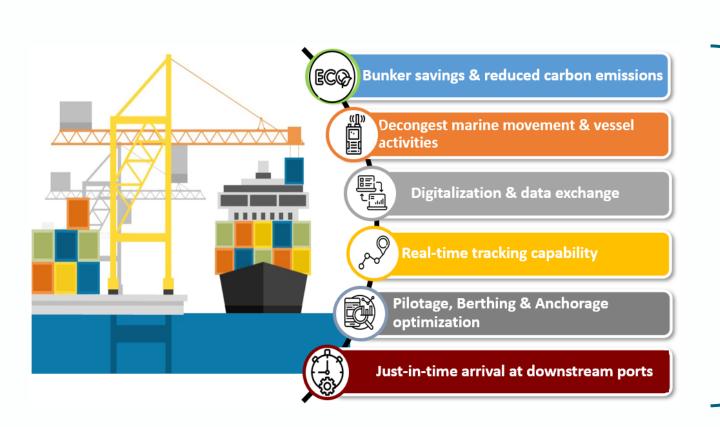
API Linkage (Auto)

Estimated Time of Berthing

Estimated Time of Unberthing

Key Benefits

Providing greater visibility, predictability and productivity





Highlights of OptE-Voyages in 2023



99 services onboarded



Inferred bunker savings of 52,551 mt

(cost savings of ~US\$32M)



Inferred CO₂ Emission savings of 163,832 mt

(Equivalent to annual emissions of ~35,622 cars)

THANK YOU