
REGENT


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What is a seaglider & why build one?

Seagliders combine the best features of airplanes & boats

- High speed
- Comfortable ride quality

- Maritime certification & testing
- Streamlined passenger security

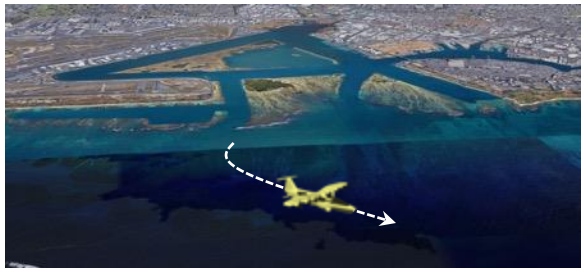
Seaglider

Seagliders fly a few feet over water on a cushion of air trapped between the wing and the surface – otherwise known as “ground effect”.

- Double the range of an electric aircraft
- Always over a safe place to land

3-mode operation enables wave tolerance and crowded harbor navigation

	Float	Foil	Fly
Speed	< 20 mph (17 kts)	20 – 50 mph (17-45 kts)	50 – 180 mph (35-160 kts)
Max wave height	Comfort: 2 ft (0.6 m) Seakeeping: > 8 ft (2.5 m)	5 ft (1.5 m) *Previous ground-effect vehicles have lacked this intermediate mode.*	**Always** 10-30 ft (3-10 m) above wave peaks (only constrained by emergency seakeeping)



Hydrofoils enable wave tolerance compared to planing hulls

Wave tolerance comparison of hydrofoil vs conventional hull boat

Wave tolerance demonstration of hydrofoils on REGENT's ¼ scale seaglider prototype

Hydrofoils enable comfortable and wave tolerant takeoffs

A conventional WIG lumbers, shudders, and shakes into the air even in calm waters

REGENT's ¼ scale seaglider prototype effortlessly glides through waves on its hydrofoil before taking off

REGENT plans to build two seaglider products

	Viceroy	Monarch
Passengers	12	100
Entry to Service	Mid decade	Late decade
Operational Range (end-of-life batteries)	180 miles (300 km) (with existing li-ion batteries*)	≈500 miles (800 km) (with future battery or hydrogen tech)
Payload	3,500 lbs (1,600 kg)	25,000 lbs (11,000 kg)
Wingspan	65 ft (20 m)	≈100 ft (30 m)
Max weight	15,000 lbs (6,800 kg)	110,000 lbs (50,000 kg)

40%

Of The World's Population Lives In Coastal Communities

Coastal Cities With A Population > 1 Million

Source: "Population, Landscape, And Climate Estimates (PLACE), v3: National Aggregates of Geospatial Data Collection (NAGDC) | SEDAC"

Turns out **a lot of transportation** is coastal

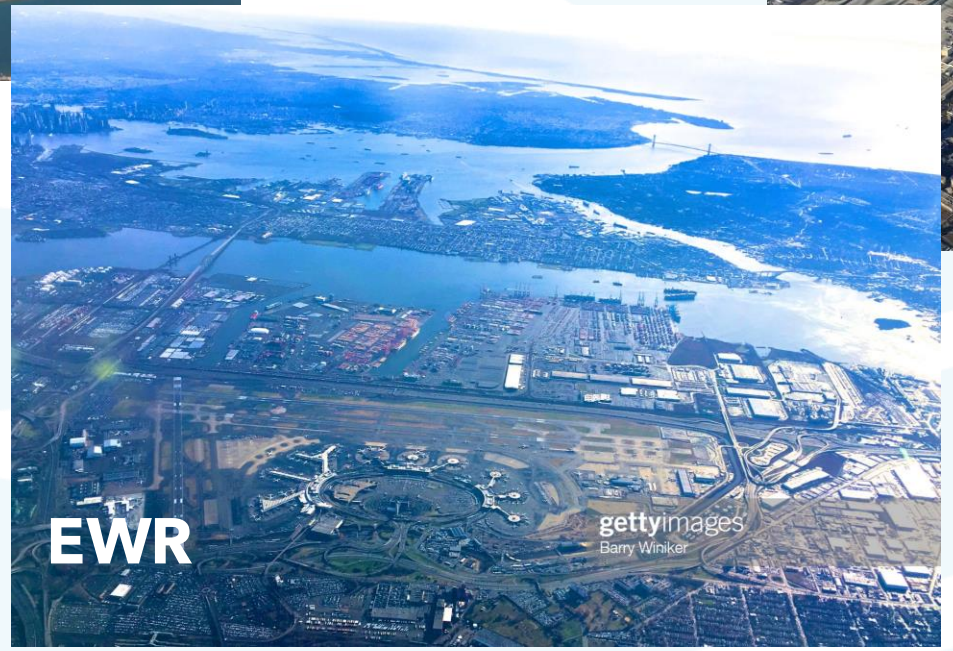
Global Airline Industry

4.5B passengers

Global Ferry Industry

4.3B passengers

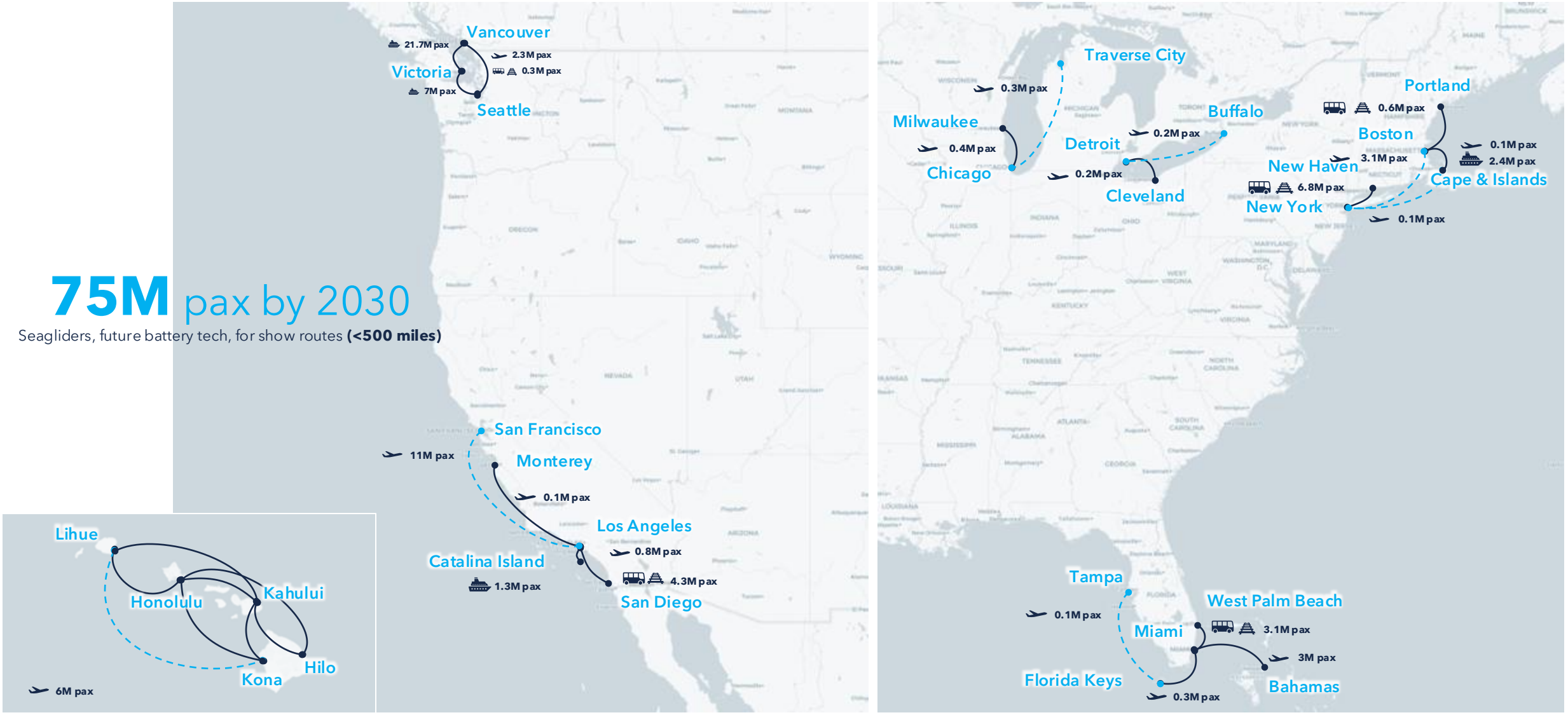
Turns out a lot of the **major airports** are coastal



Top routes in North America and Hawaii

75M pax by 2030

Seagliders, future battery tech, for show routes **(<500 miles)**



Top routes in Northern Europe

Top routes in Mediterranean Europe

Top seaglider routes in Asia

Top routes in Middle East

The “Chesapeake Connector”

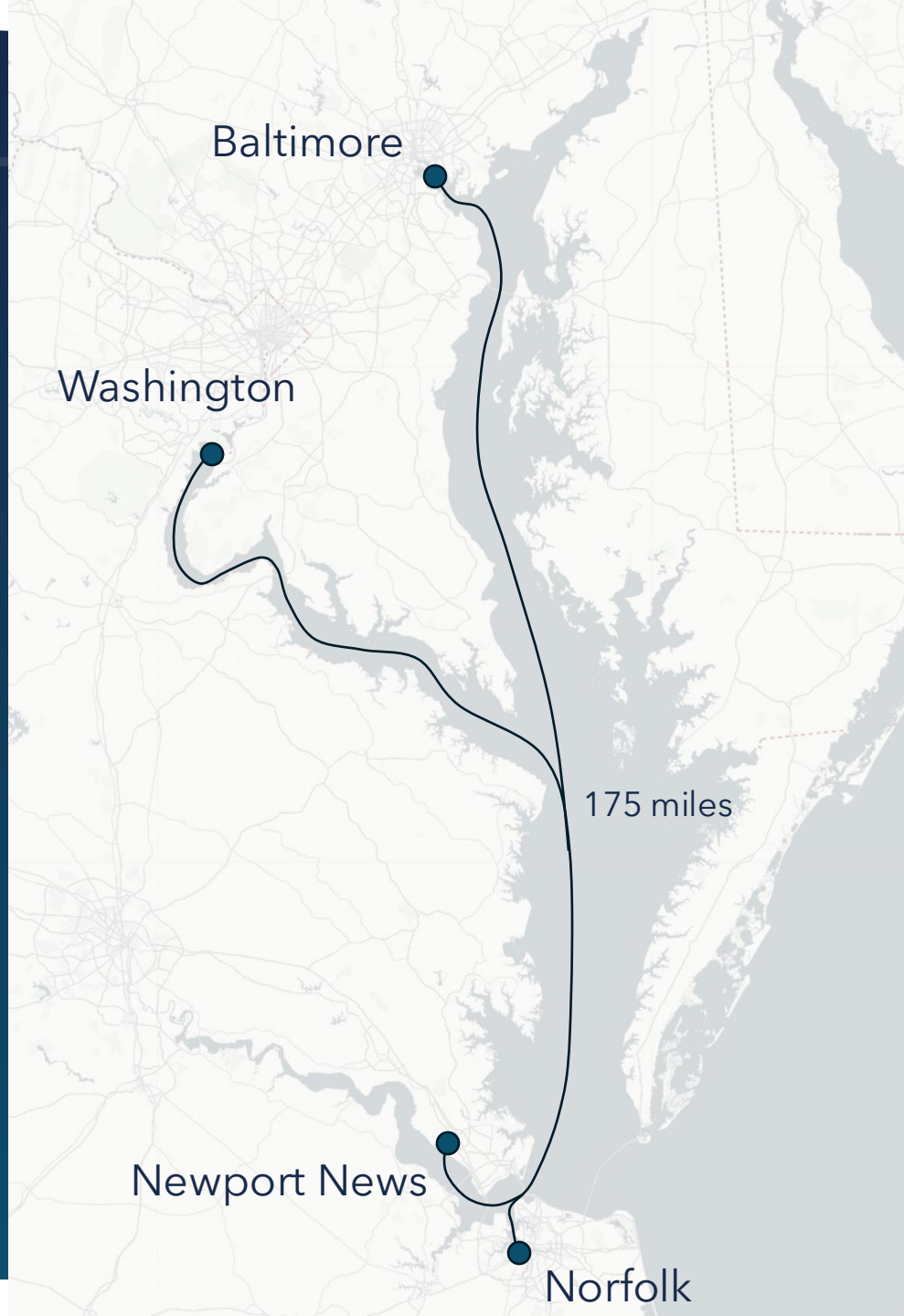
175 miles in ~1 hour

$110/ticket

Viceroy
12 seats

$55/ticket

Monarch
100 seats



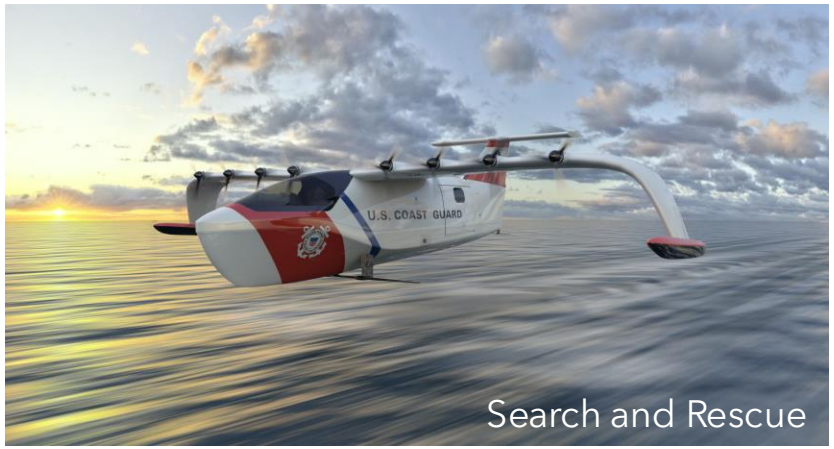
Seagliders are a multi-use vehicle for multiple mission sets

Commercial Transportation

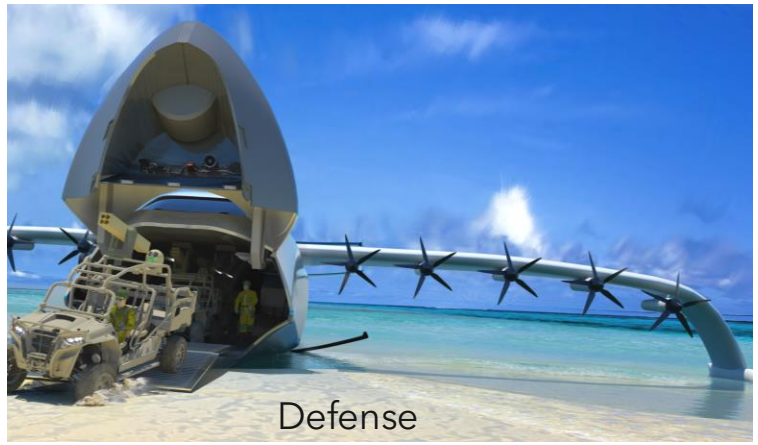

Tourism

Cargo


Offshore Logistics

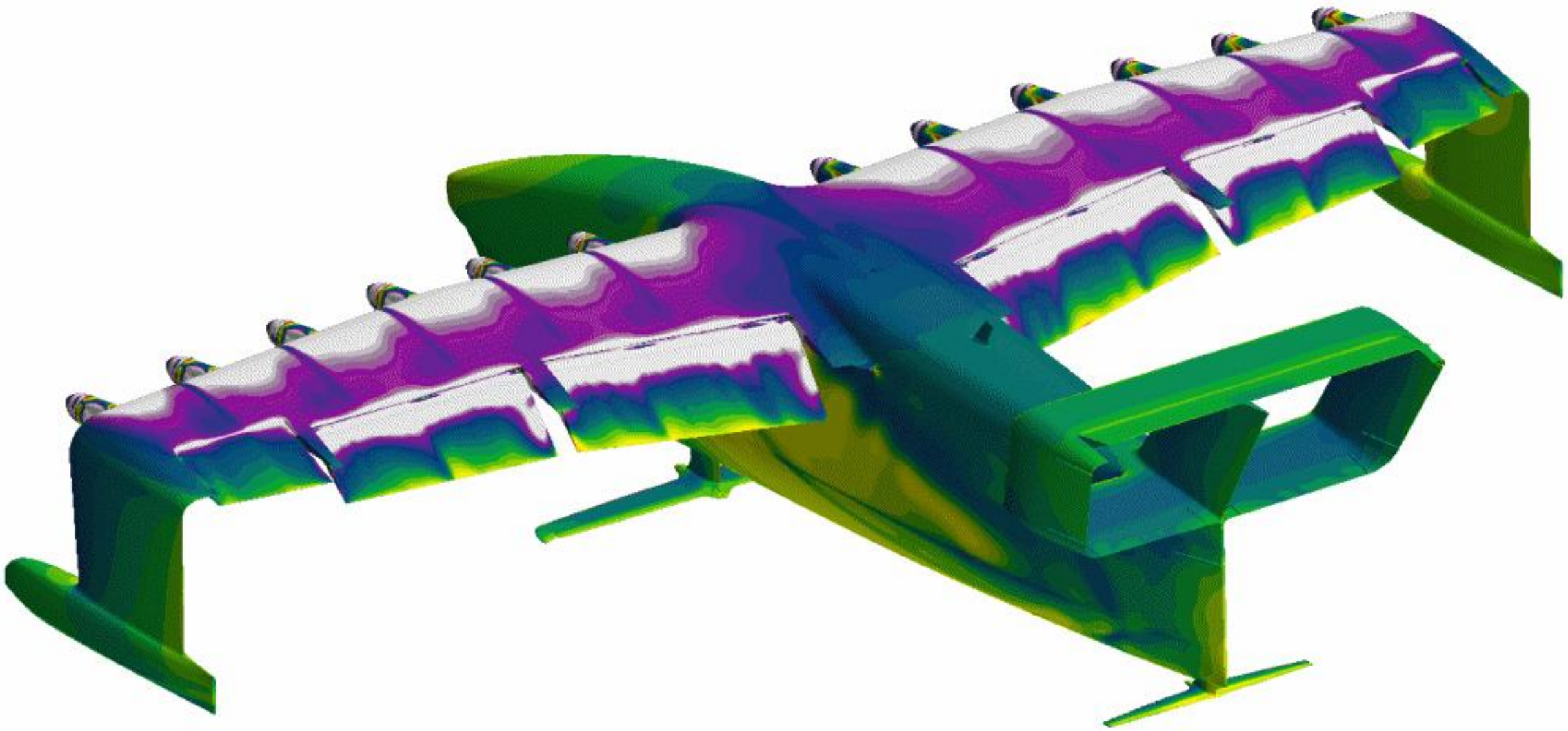


Search and Rescue


Defense


REGENT

Technology Development



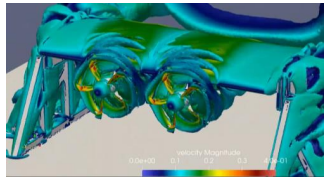
Seaglider technology has been de-risked

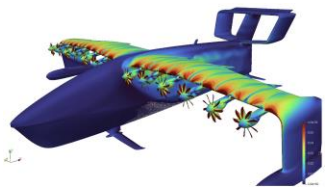
Float>Foil>Fly Mode Transitions

Derisked with ¼ scale (18′ wingspan, 400 lb) prototype

Full-scale Aerodynamics

Derisked with full-scale blown-wing test stand





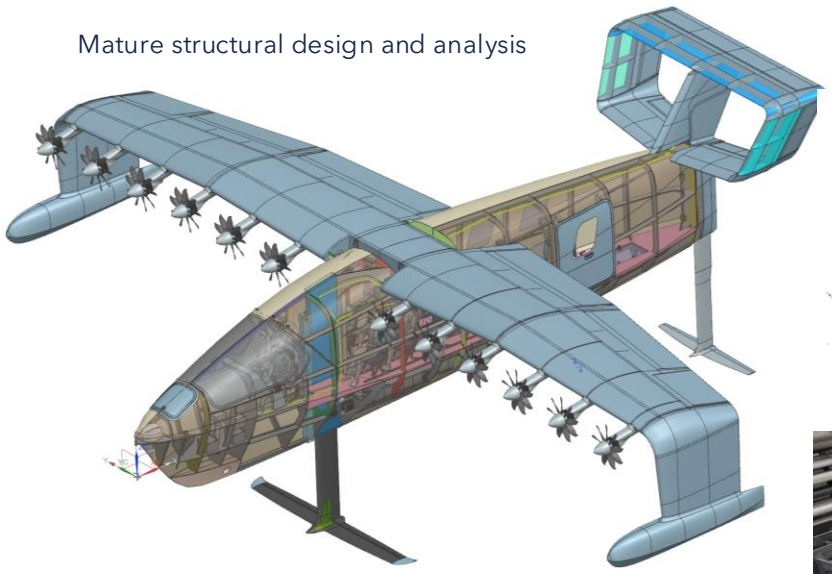
Full-scale experimentation validates computational fluid dynamics (CFD) models and informs digital twin simulation

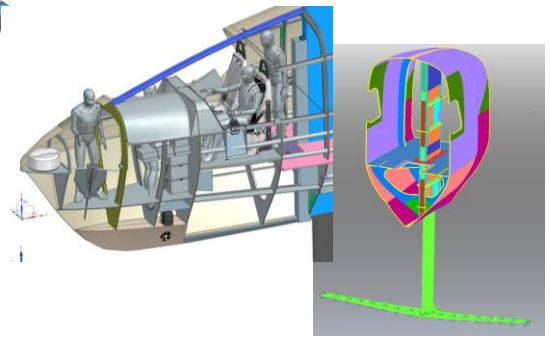
On-water Operations

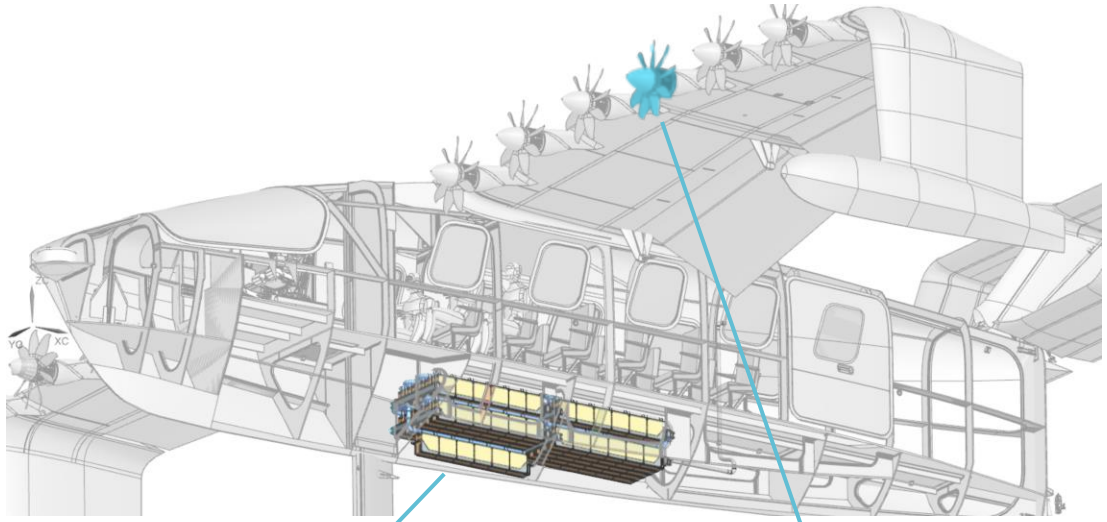
Derisked with testing in relevant crowded harbors

Viceroy full-scale prototype program on schedule for human flight in 2024

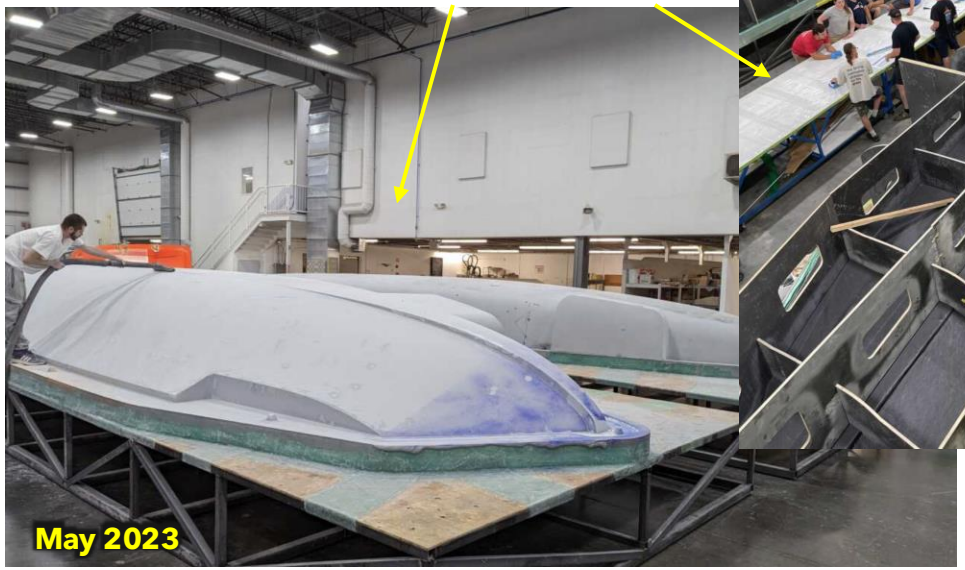
Mature structural design and analysis

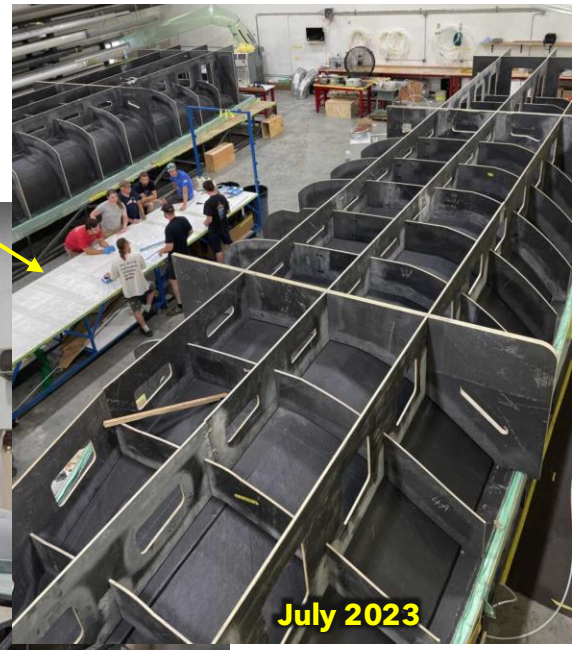






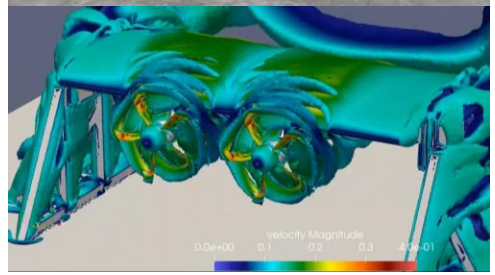
Carbon fiber hull molds under construction



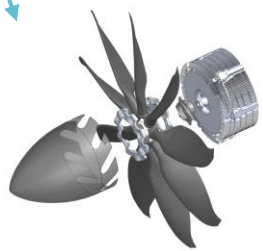


Flight batteries
on-hand and under eval

Blown wing aero test stand



Motor-prop assembly
integrated and under eval



Seaglider perception system under test and development

Surface Perception

Fusion of radar, AIS, and infrared computer vision detects obstacles on waters surface

Underwater Perception

Hydrofoil-mounted sonar detects sub-surface obstacles

Altitude & Wave Perception

Radar (high-altitude and forward looking) and ultrasound (low-altitude) detect water's surface and wave state

EO/IR Computer vision

AIS

Radar

Ultrasonic + Radar

Sonar

Commercial

REGENT

Seaglider order holders and strategic investors on 6 continents

Over **500 seagliders** representing **over $8B** on order

ROCKTON

OSM MARITIME

Brittany Ferries

FRS

FLY THE WHALE

MESA AIRLINES

SOUTHERN AIRWAYS EXPRESS

GREEN TRANSPORTATION GROUP

Gombay AIR

TotalEnergies

Calliauro

MINTAIR

JAPAN AIRLINES

YAMATO TRANSPORT

VERSA AEROSPACE

HAWAIIAN AIRLINES

MOKULELE AIRLINES

PACIFIC CURRENT

INAEC

BIG SKY PARTNERS

Total Orders

318	211
	
Viceroy 12 seats	Monarch 100 seats

Air Napier ocean flyer


REGENT
MOKULELE
AIRLINES
Ke'ehi Lagoon Seaglider Terminal
The Boathouse Cafe
SOUTHERN
SOUTHERN AIRWAYS EXPRESS

REGENT has ensured seaglider operational viability with ecosystem development in major markets

Hawaii

Orders and strategic investments from major regional operators

Co-funding of seaglider feasibility study. Commitment to build infrastructure and finance seagliders.

Endorsements and collaborations with community and environmental groups

Miami

Orders from major regional operators

Joint public-private partnership currently exploring **site selection at PORTMIAMI** and designing dock

Request from the city and county for dock and charger requirements

New Zealand

Orders constituting largest private transportation deal in NZ

Support voiced by three major NZ cities including the capital of Wellington and MOUs in progress with three others including Auckland

Northport in Whangarei offering support in housing the OceanFlyer maintenance base and training institute

Nice, France

MOU from City of Nice:
"Your project …constitutes a relevant mobility solution with indisputable advantages for our region… My team will … accompany you when the time comes to implement it… rest assured of my support" – Mayor Christian Estrosi, Nice, France

TransDev to partner with REGENT on City of Nice RFI response for Nice to Monaco connector service

Partnership discussions with Engie and Port de Nice, supported by City of Nice, advancing towards charging infrastructure development

Hawaii Ecosystem | Hawaii Seaglider Initiative (HSI)

Founding Members

PACIFIC CURRENT — Co-Chair

REGENT — Co-Chair

MOKULELE AIRLINES

HAWAIIAN AIRLINES

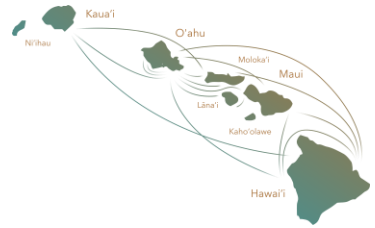
YOUNG BROTHERS

Discussion Groups

Hawai'i Seaglider Initiative

Four Critical Workspaces for Corporate, Community and Government Stakeholder Engagement

- **Infrastructure & Private Industry**
- **Community, Culture, & Environment**
- **Resiliency (Energy, Food, Transit)**
- **Education & Workforce Development**



Honolulu Airport Pier

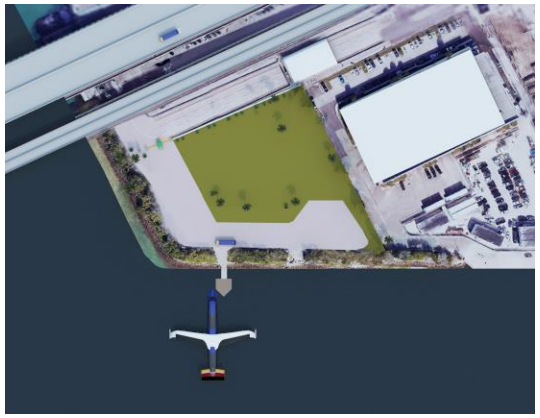
Miami Ecosystem | Port of Miami

Ongoing discussion to turn an unutilized portion of Port of Miami into a seaglider port. REGENT is actively lobbying and in comms with the county mayor and other officials

PORTMIAMI

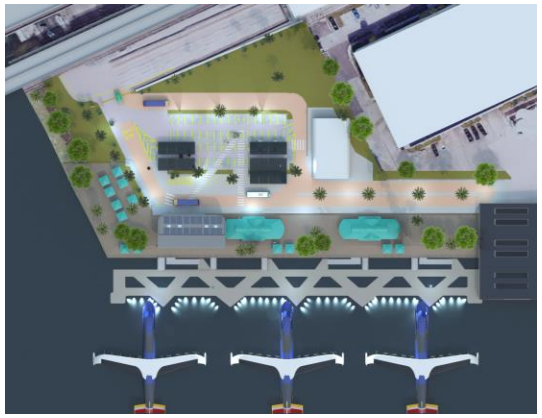
Dodge Island Seaglider Base

Growth Over Time



1300 Pax / Day

2700 Pax / Day



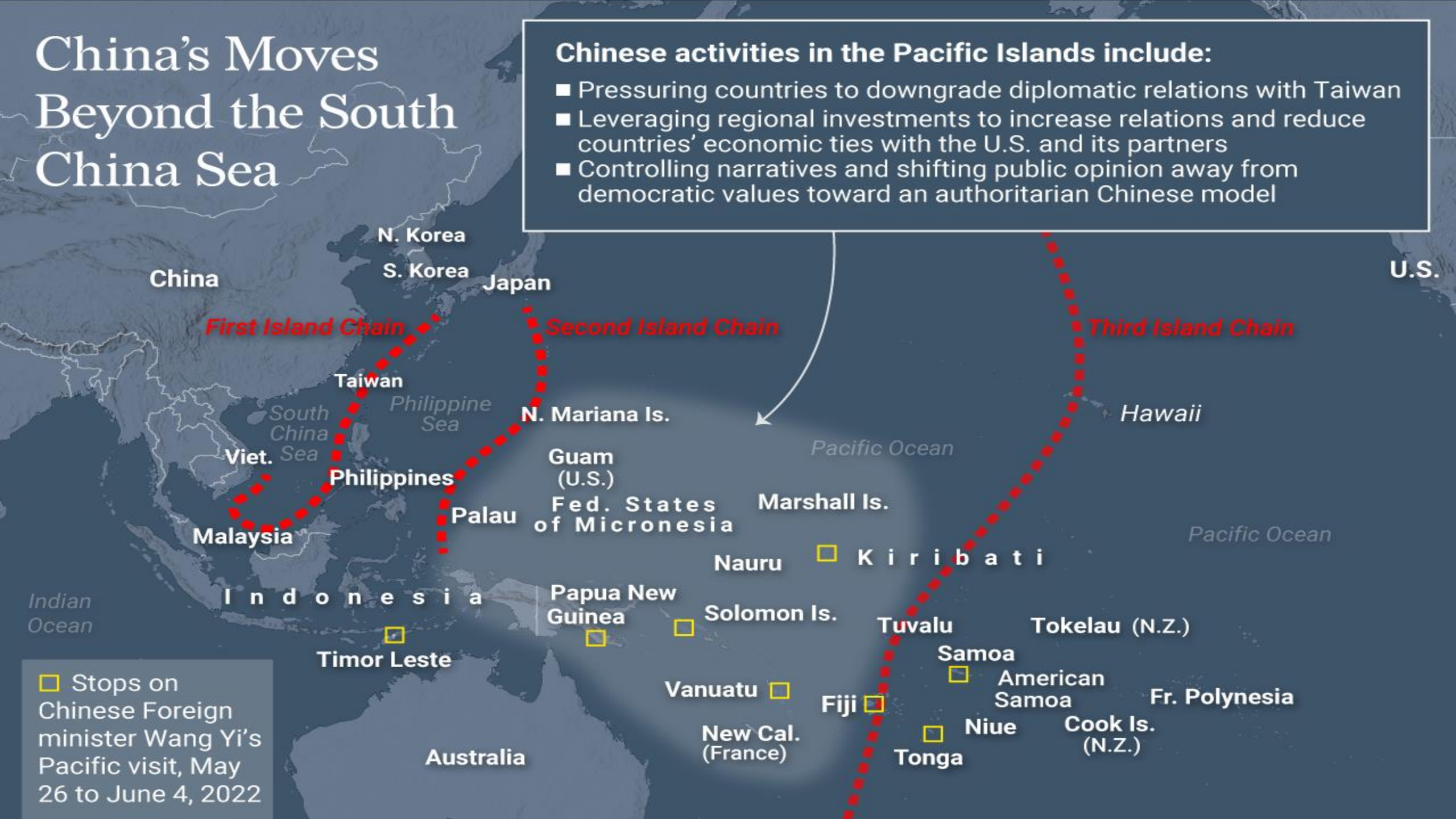
4000+ Pax / Day

Defense

China's Moves Beyond the South China Sea

Chinese activities in the Pacific Islands include:

- Pressuring countries to downgrade diplomatic relations with Taiwan
- Leveraging regional investments to increase relations and reduce countries' economic ties with the U.S. and its partners
- Controlling narratives and shifting public opinion away from democratic values toward an authoritarian Chinese model



Stops on Chinese Foreign minister Wang Yi's Pacific visit, May 26 to June 4, 2022

REGENT's advisory team provides world-class experience in key areas

General Robert Blake Neller, USMC (ret.)

Former Commandant, U.S. Marine Corps

★★★★

Admiral William Moran (ret.)

Former Vice Chief of Naval Operations, U.S. Navy

★★★★

Admiral Charles Ray, USCG (ret.)

Former Vice Commandant, U.S. Coast Guard

★★★★

James "Hondo" Geurts (ret.)

Former Undersecretary of the Navy, U.S. Navy

LtGen George Trautman, USMC (ret.)

Former Deputy Commandant, Aviation U.S. Marine Corps

★★★

LtGen Michael Dana, USMC (ret.)

Former Deputy Commandant, Installations & Logistics U.S. Marine Corps

★★★

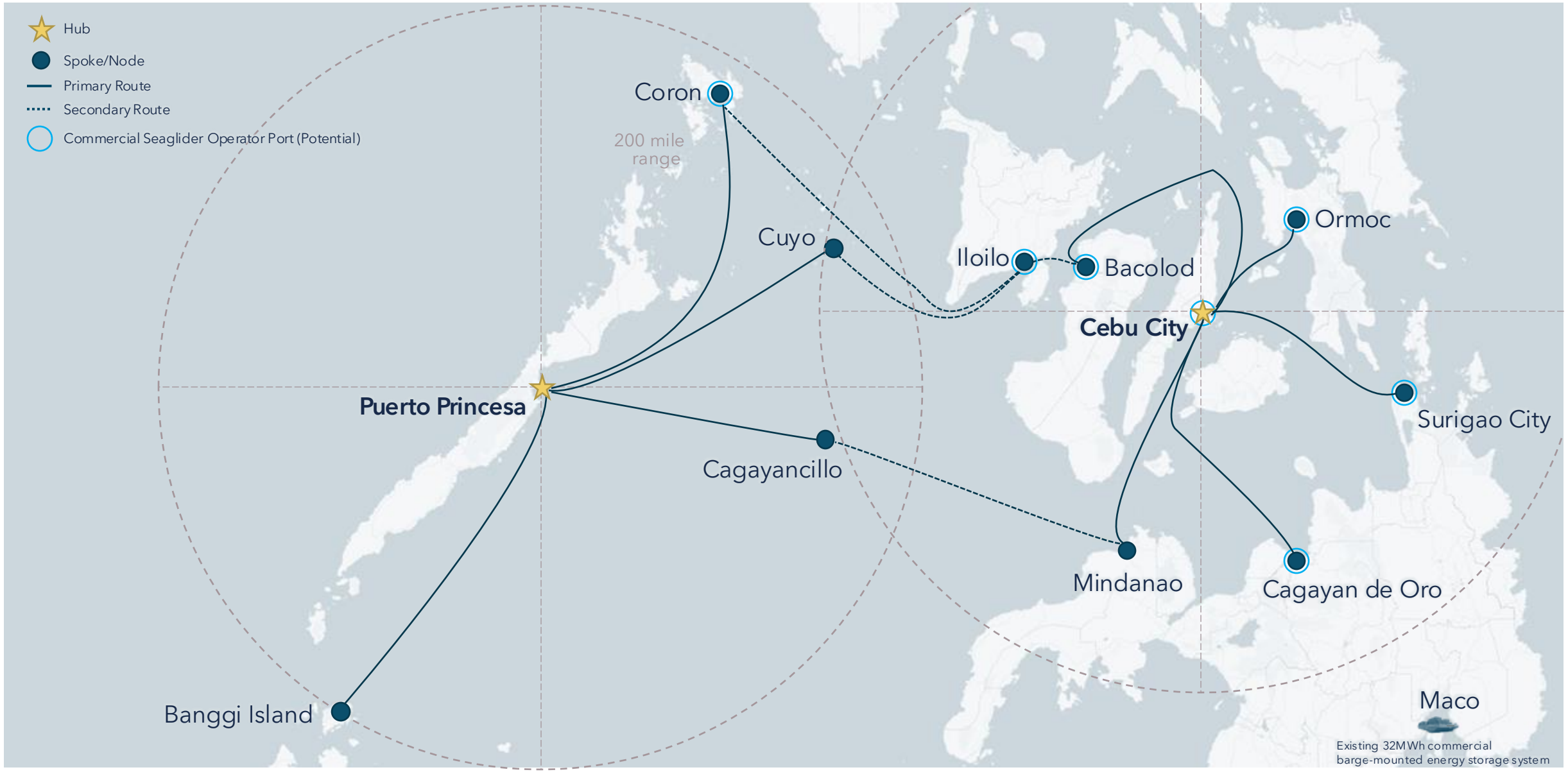
Dennis Muilenburg

Former CEO, Boeing

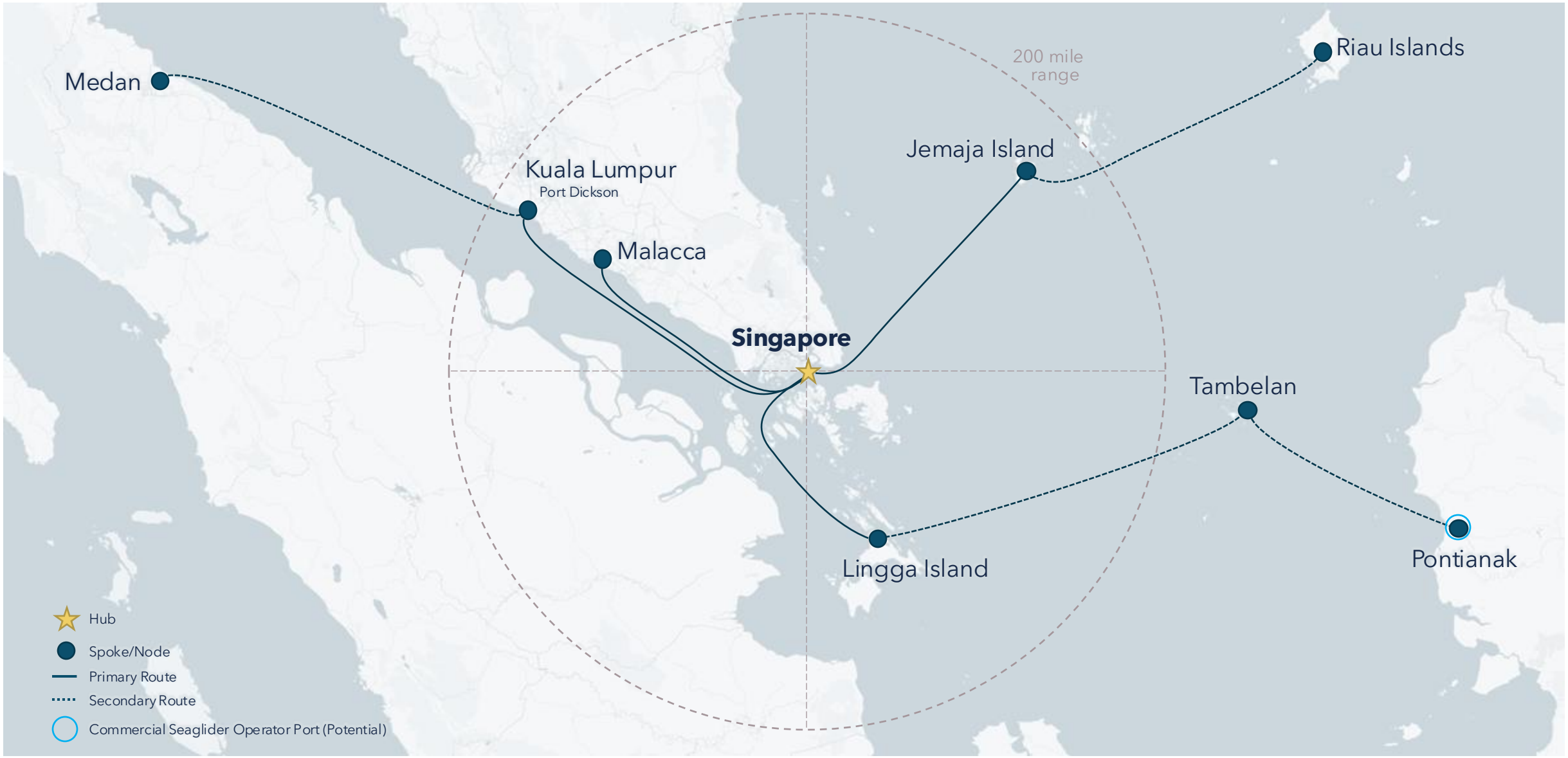
David Neeleman

Founder and CEO, Breeze Airways
Founder, JetBlue Airways, Azul Airlines, WestJet

Hub, spoke & node with 200 mile range: Indo-Pacific (Philippines)



Hub, spoke & node with 200 mile range: Indo-Pacific (Singapore)

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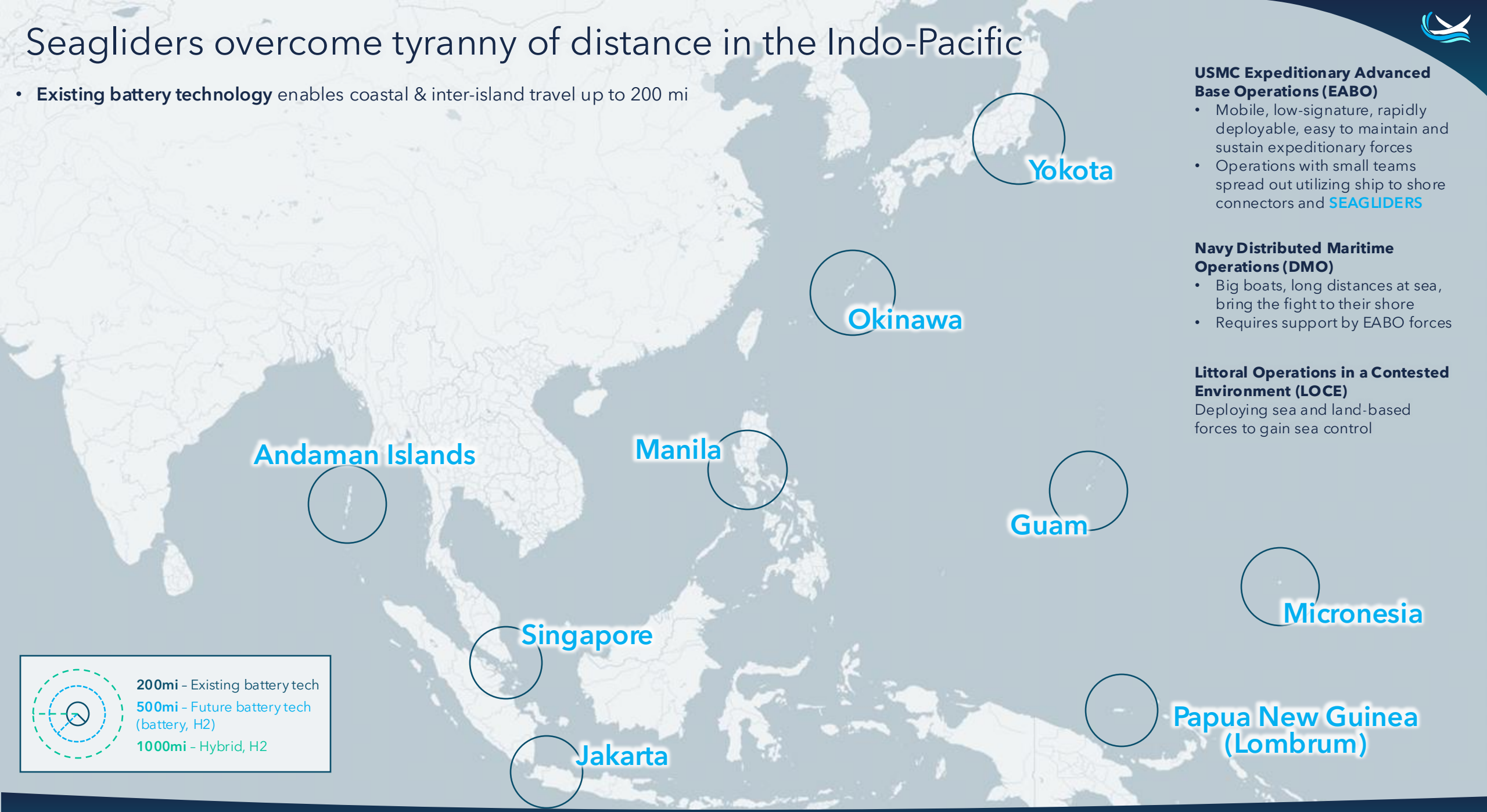
120 210
130 210
140 210

REGENT seaglider family of systems

	★Squire	Viceroy (electric)	★Viceroy (hybrid)	Monarch
Passengers	Unmanned	12	12	100
Operational Range (end-of-life batteries)	40+ miles (65 km) (with existing li-ion batteries*)	200 miles (320 km) (with existing li-ion batteries*)	**1,000 miles** (1600 km) (with existing PT-6 engines*)	500 miles (800 km) (w/ future battery or hydrogen tech)
Payload	**50 lbs** (23 kg)	3,500 lbs (1,600 kg)	3,500 lbs (1,600 kg)	25,000 lbs (11,000 kg)
Wingspan	18 ft (5.5 m)	65 ft (20 m)	65 ft (20 m)	≈100 ft (30 m)
Max weight	400 lbs (180 kg)	15,000 lbs (6,800 kg)	15,000 lbs (6,800 kg)	110,000 lbs (50,000 kg)

Seagliders overcome tyranny of distance in the Indo-Pacific

- **Existing battery technology** enables coastal & inter-island travel up to 200 mi



USMC Expeditionary Advanced Base Operations (EABO)

- Mobile, low-signature, rapidly deployable, easy to maintain and sustain expeditionary forces
- Operations with small teams spread out utilizing ship to shore connectors and SEAGLIDERS

Navy Distributed Maritime Operations (DMO)

- Big boats, long distances at sea, bring the fight to their shore
- Requires support by EABO forces

Littoral Operations in a Contested Environment (LOCE)

Deploying sea and land-based forces to gain sea control

Seagliders overcome tyranny of distance in the Indo-Pacific

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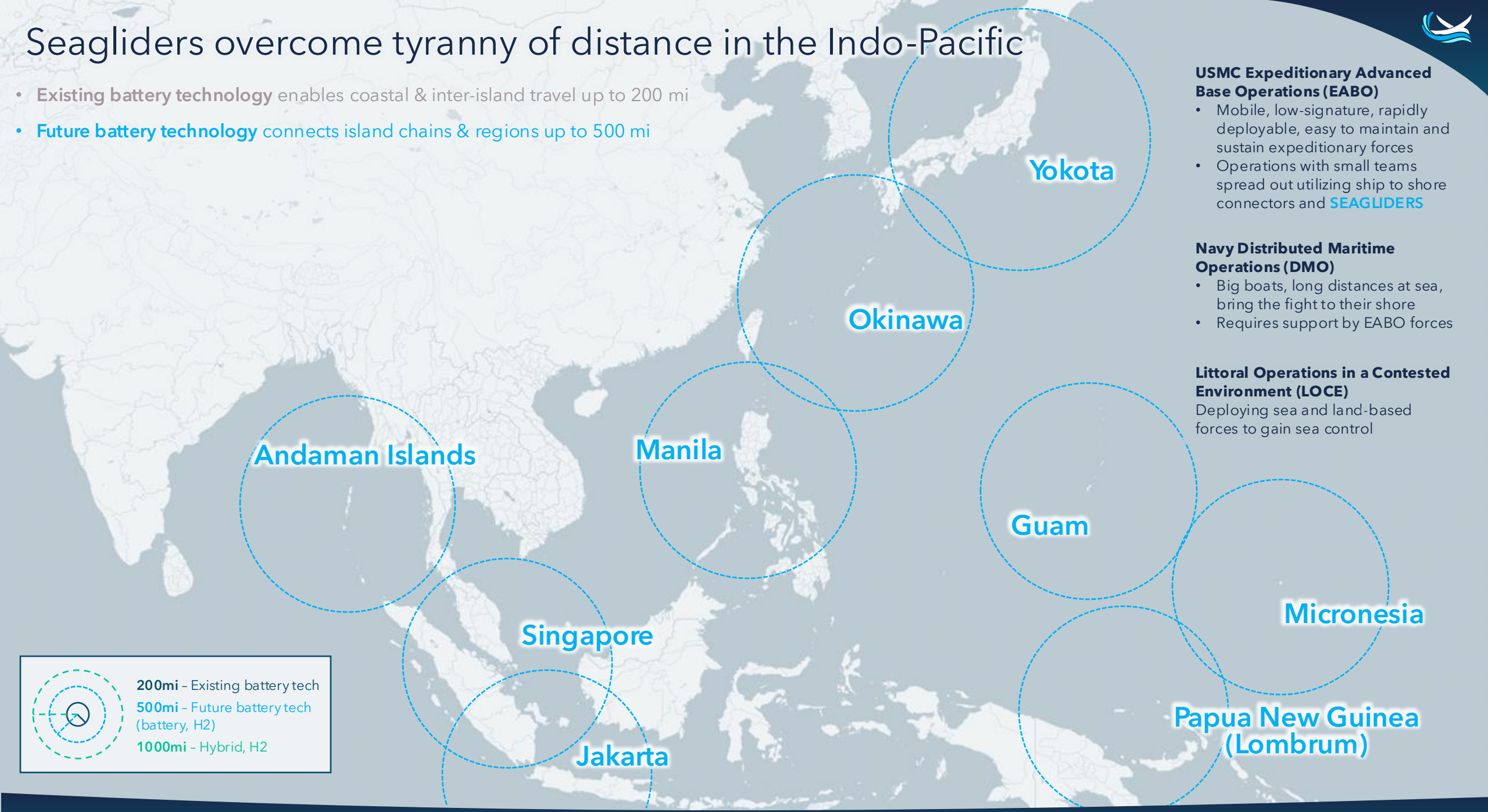
- **Future battery technology** connects island chains & regions up to 500 mi



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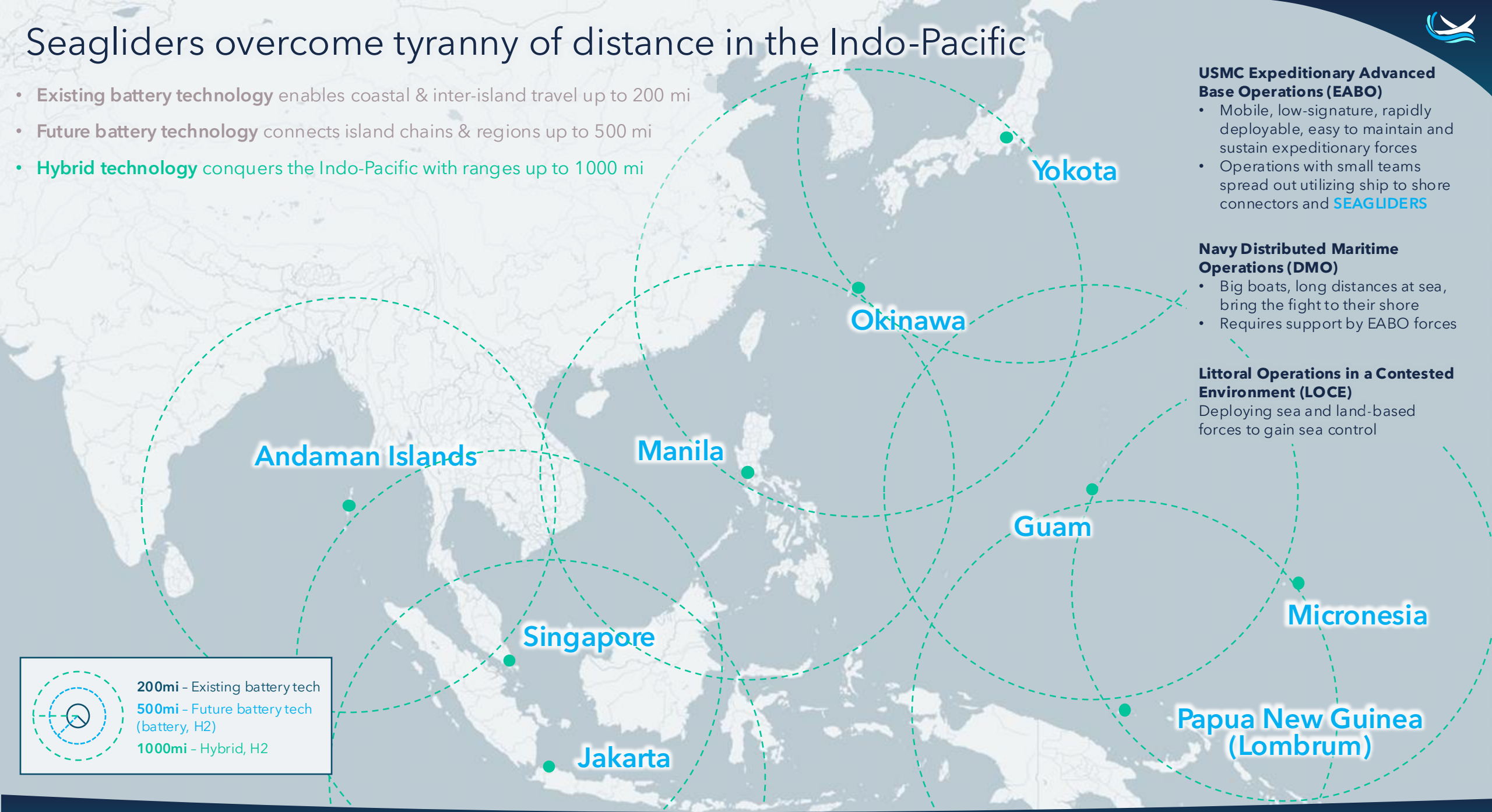
Deploying sea and land-based forces to gain sea control

200mi – Existing battery tech
500mi – Future battery tech (battery, H2)
1000mi – Hybrid, H2

Seagliders overcome tyranny of distance in the Indo-Pacific

- **Existing battery technology** enables coastal & inter-island travel up to 200 mi
- **Future battery technology** connects island chains & regions up to 500 mi
- **Hybrid technology** conquers the Indo-Pacific with ranges up to 1000 mi



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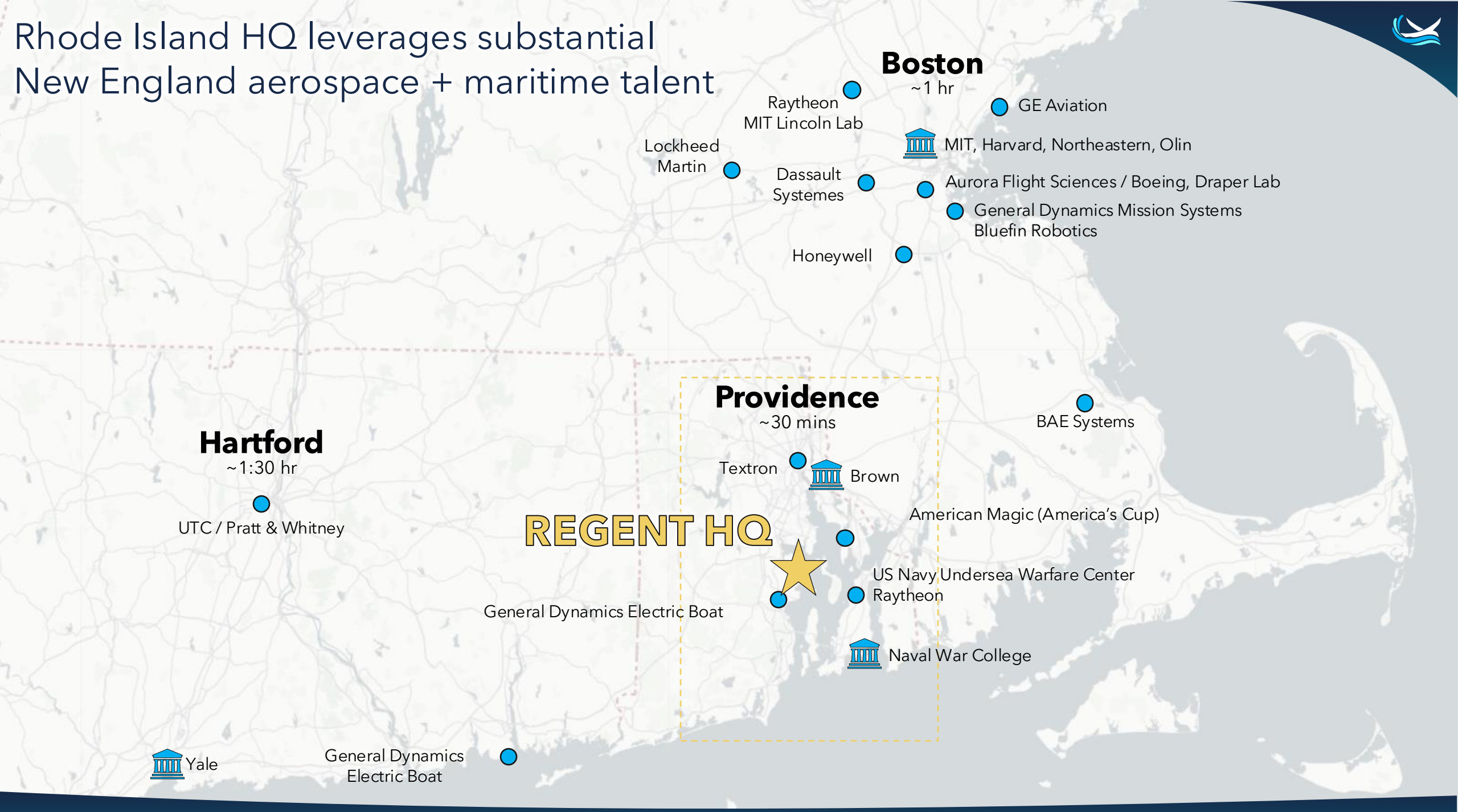
Deploying sea and land-based forces to gain sea control

Rhode Island growth and seaglider manufacturing

Rhode Island HQ leverages substantial New England aerospace + maritime talent

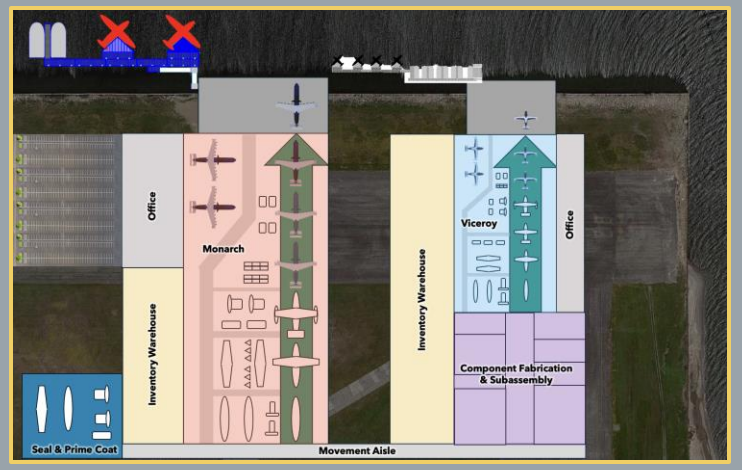


The REGENT Campus: One home from prototyping through manufacturing

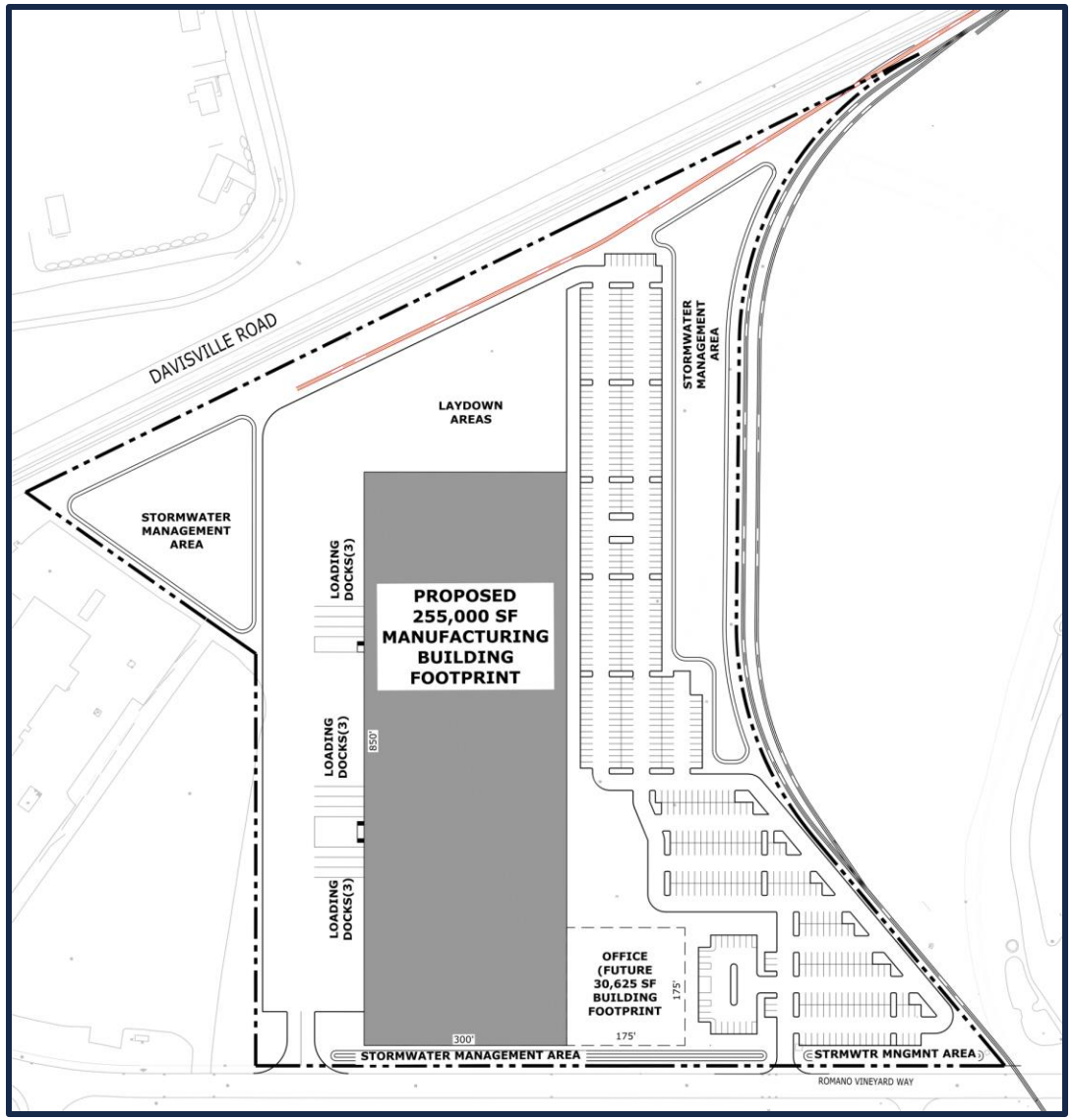
Phase 1 - Today
Viceroy Prototyping

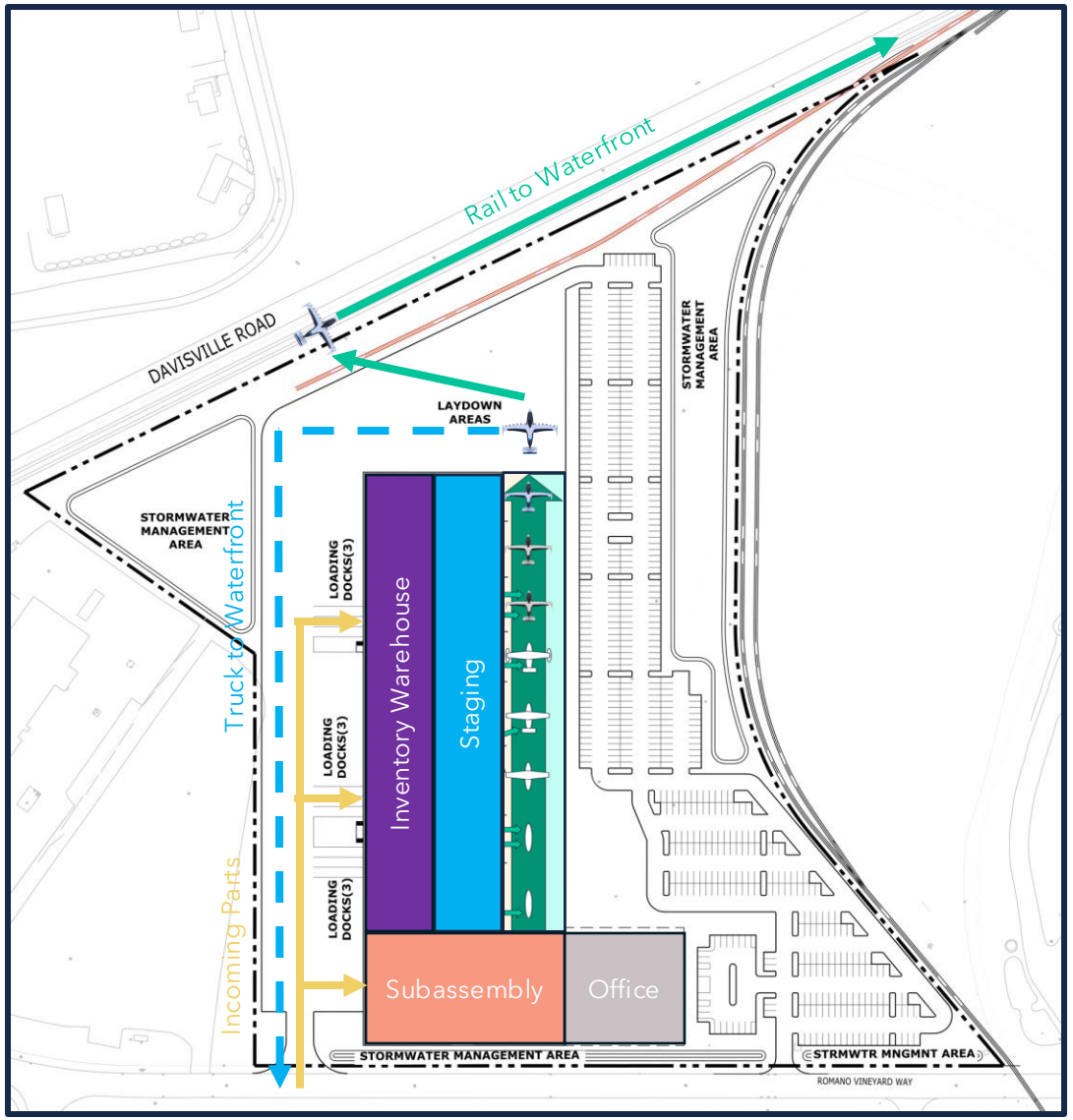
Phase 2 – 2025+
Viceroy Production

Phase 3 – 2027+
Monarch Production

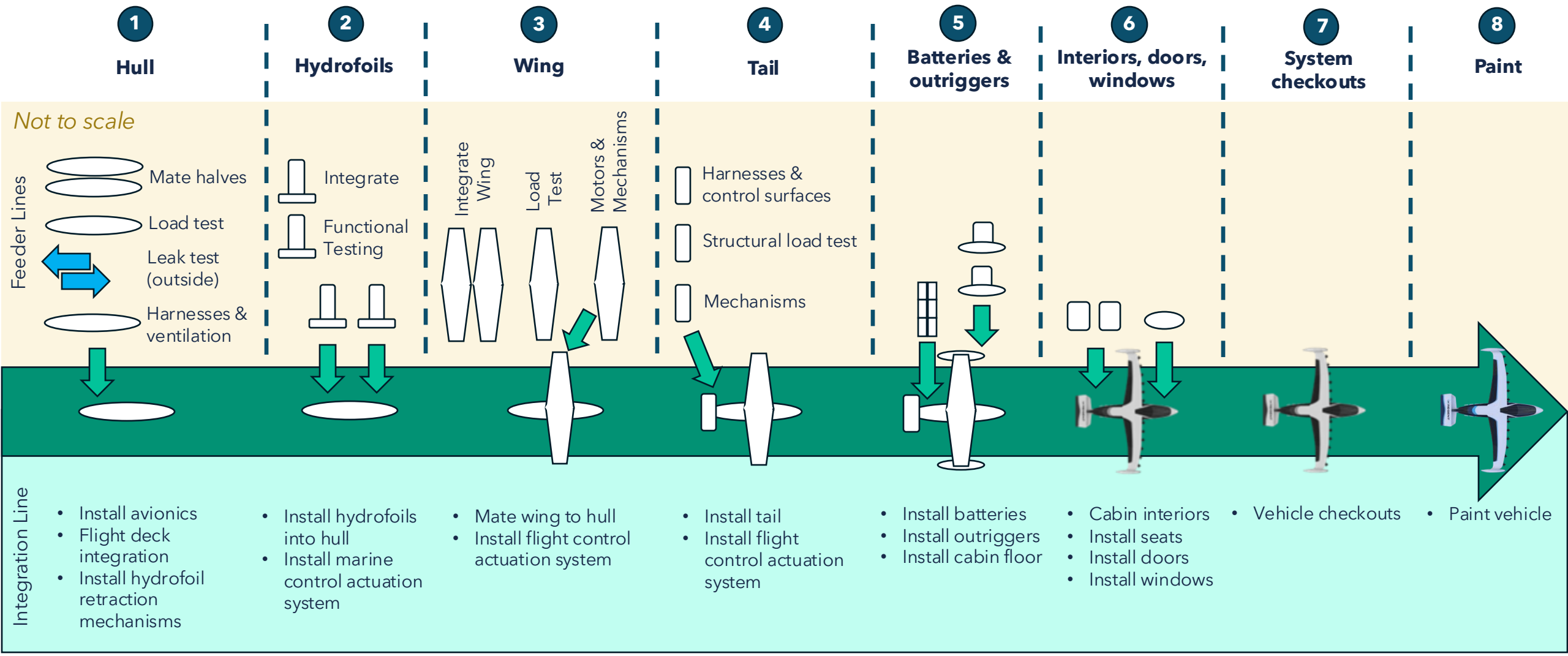


2025 Viceroy Manufacturing Site Layout





Viceroy Integration Stations

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