



REGENT

A sustainable maritime mobility solution for coastal communities

REGENT Craft Inc. Proprietary 2021

Meet the REGENT seaglider

seaglider (n) – all electric wing-in-ground effect (WIG) vessel known as a “flying boat”

- REGENT is an original equipment manufacture selling vehicles to operators (airlines, ferry companies, governments) for passenger, freight, tourism, emergency services (resiliency), air ambulance & defense
- Enters service around 2025/26 after completing type 1 certification led by the US Coast Guard (primary) and FAA (secondary)
- 3 modes of operation: **Float, FOIL and FLY.**
- Starts on hull in harbor (0-20 mph), moves to hydrofoil (20-40mph) for wave tolerance and then transitions to flight (flying about 30 feet over the ocean)
- The vehicle can fly up to 180 mph and has a range of 180 miles using existing battery technology (equivalent to a tesla car battery)
- Highly advanced flights and traffic/marine mammal avoidance systems



REGENT is first to unlock commercial viability of ground-effect vehicles



Past Attempts

Flown in the 1960's, Russian Ekranoplans proved feasibility of fast, near-ocean flight



Hydrofoils

Perfected over last decade, hydrofoils enable comfortable operations in stormy seas



Advanced Batteries

High-energy batteries developed for EVs give enough range for regional mission



Distributed Power

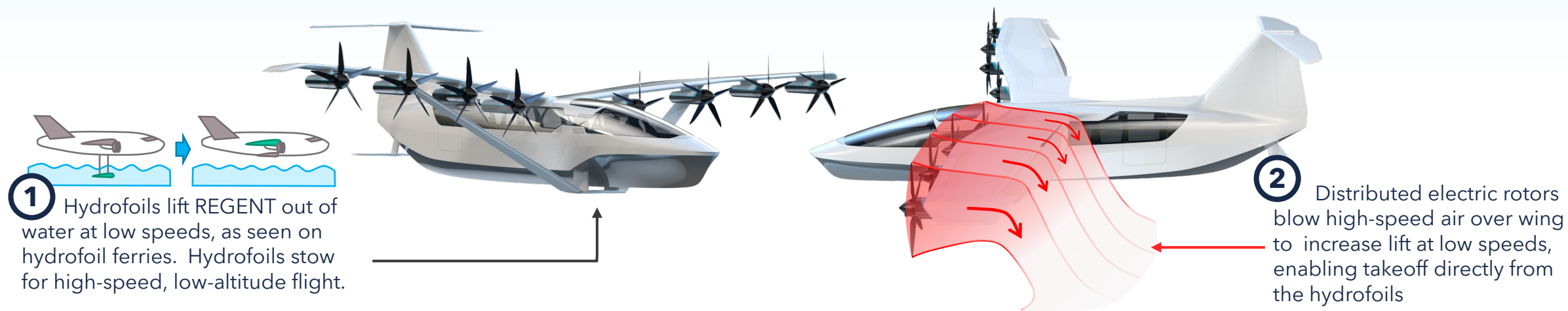
Electrification enables low-speed takeoff powered by distributed electric motors



Drone Technologies

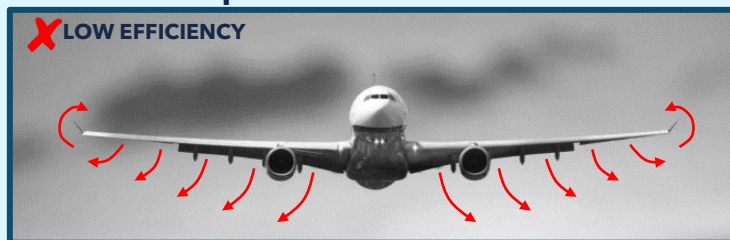
Digital flight control systems, now ubiquitous, enable safe, near-surface flight

REGENT integrates recent technologies to solve the poor takeoff performance endemic to all ground-effect vehicles before it





Why build one?

Airplanes: At altitude



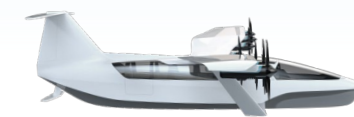
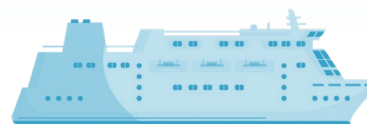
Seaglidors: In ground effect



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

Seaglidors fly a few feet over water on a cushion of air trapped between the wing and the surface -creating huge energy efficiencies

Combines the best of parts of airplanes and boats but without a high cost of operations



High speed

Comfortable ride quality

Maritime certification and testing gets vehicle to market faster

Easy access via docks

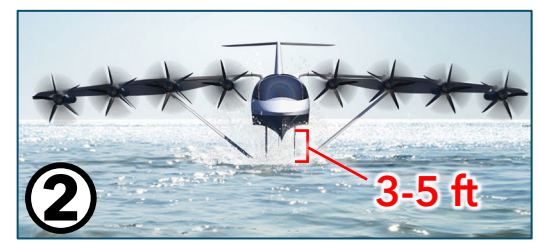
The seaglider operates at roughly 1/3 the cost of a regional jets or ferries



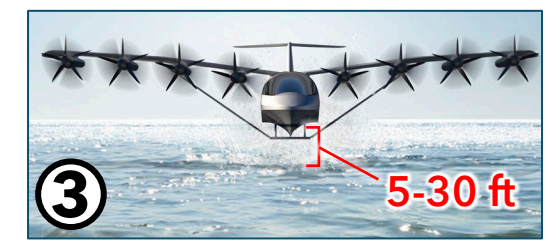
3-mode operation enables wave tolerance and crowded harbor navigation



Float



Foil



Fly

Speed

< 15 kts

15 - 40 kts

40 - 160 kts

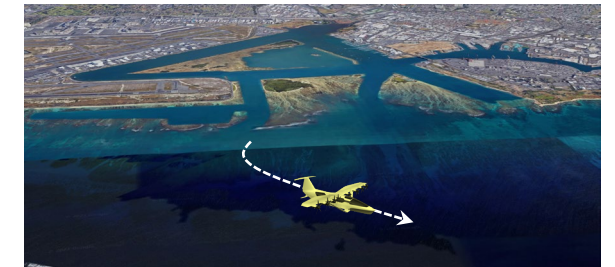
Max wave height

2-3 ft

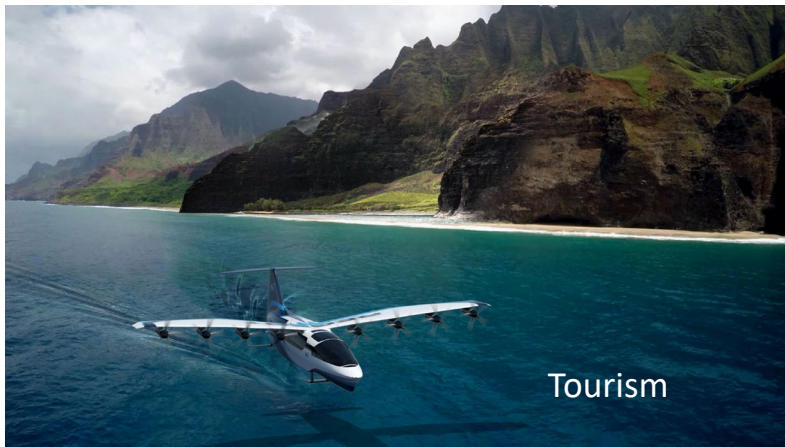
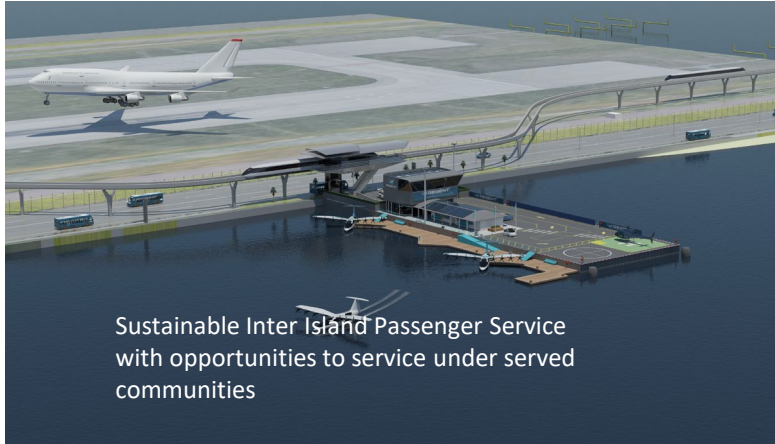
3-5 ft

Unlimited, always 5-30 ft above wave peak

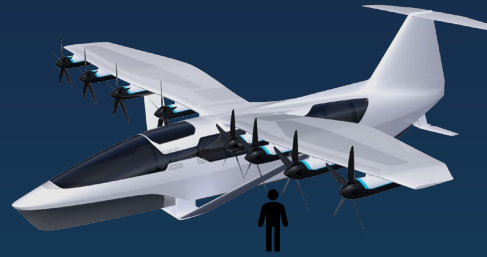
Previous ground-effect vehicles have lacked this intermediate mode.



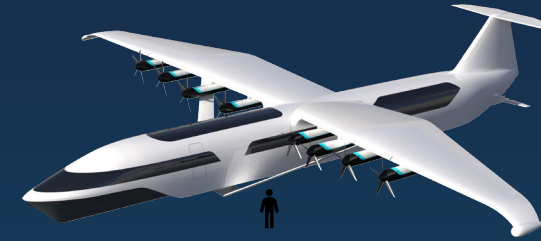
Seaglidors fulfill multiple goals for island communities



Vehicle specifications



Viceroy

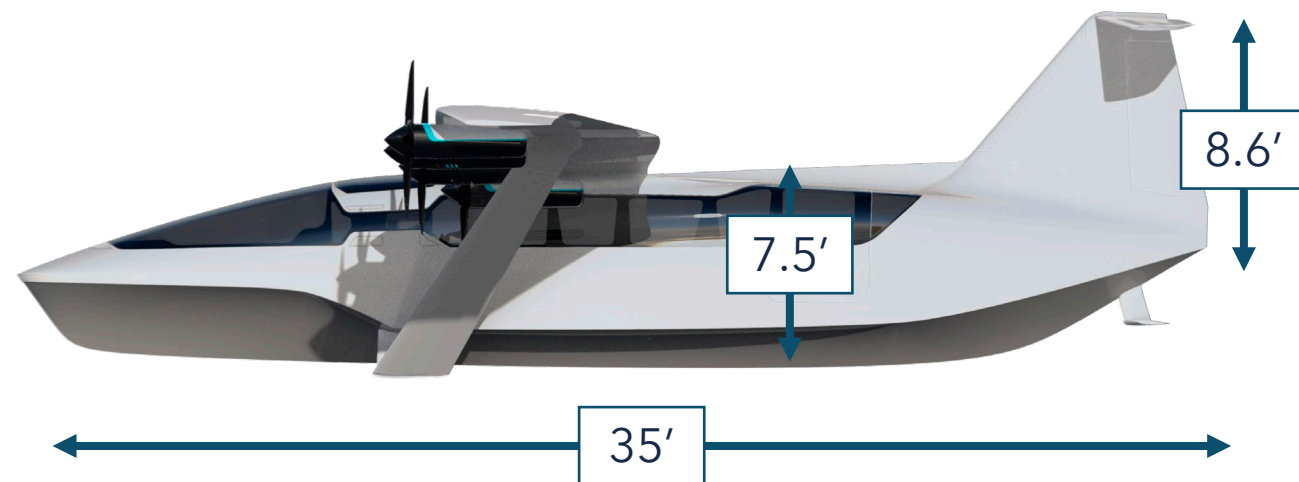
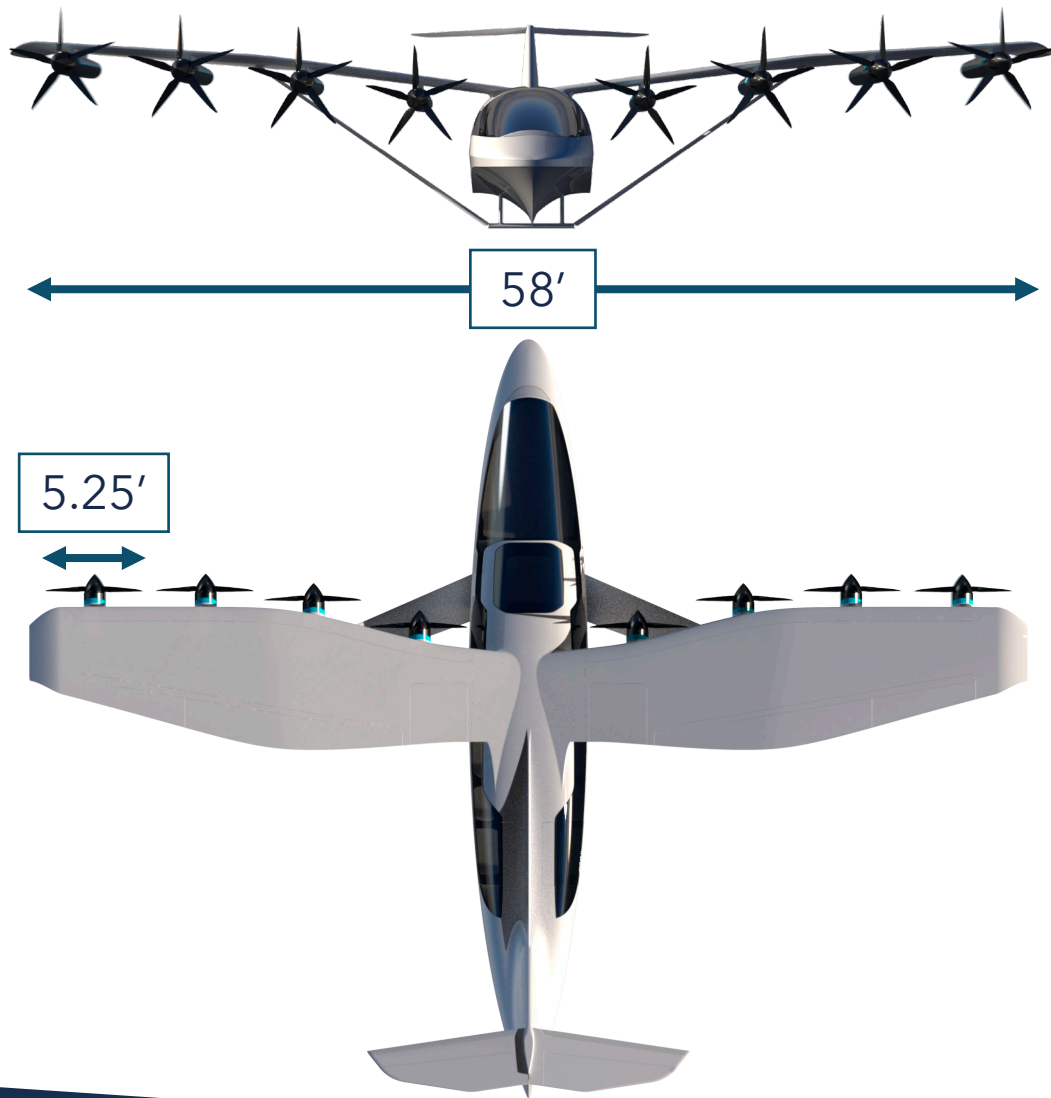


Monarch

Passengers	12	50-100
Payload	3,500 lbs (1,600 kg)	12k-25k lbs (5.5k-11k kg)
Entry to Service	2025	2028
Operational Range	180 mi (300 km) (with existing li-ion batteries*)	≈500 mi (800 km) (with future battery or hydrogen tech)
Cruise Speed	180 mph (300 kph)	180 mph (300 kph)
Wingspan	60 ft (18 m)	≈100 ft (30 m)
Max weight	19,500 lbs (8,900 kg)	70k-110k lbs (32k-50k kg)

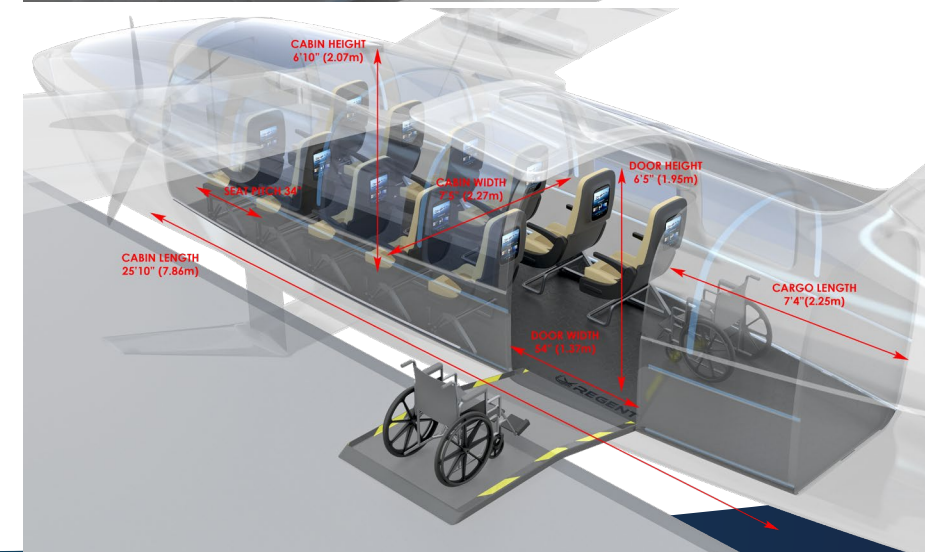
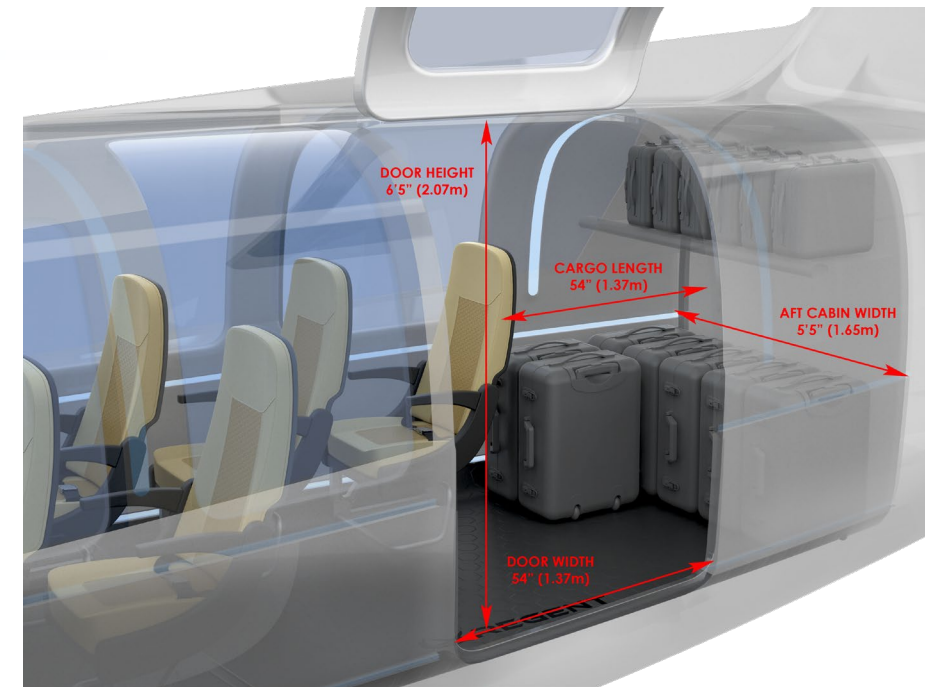
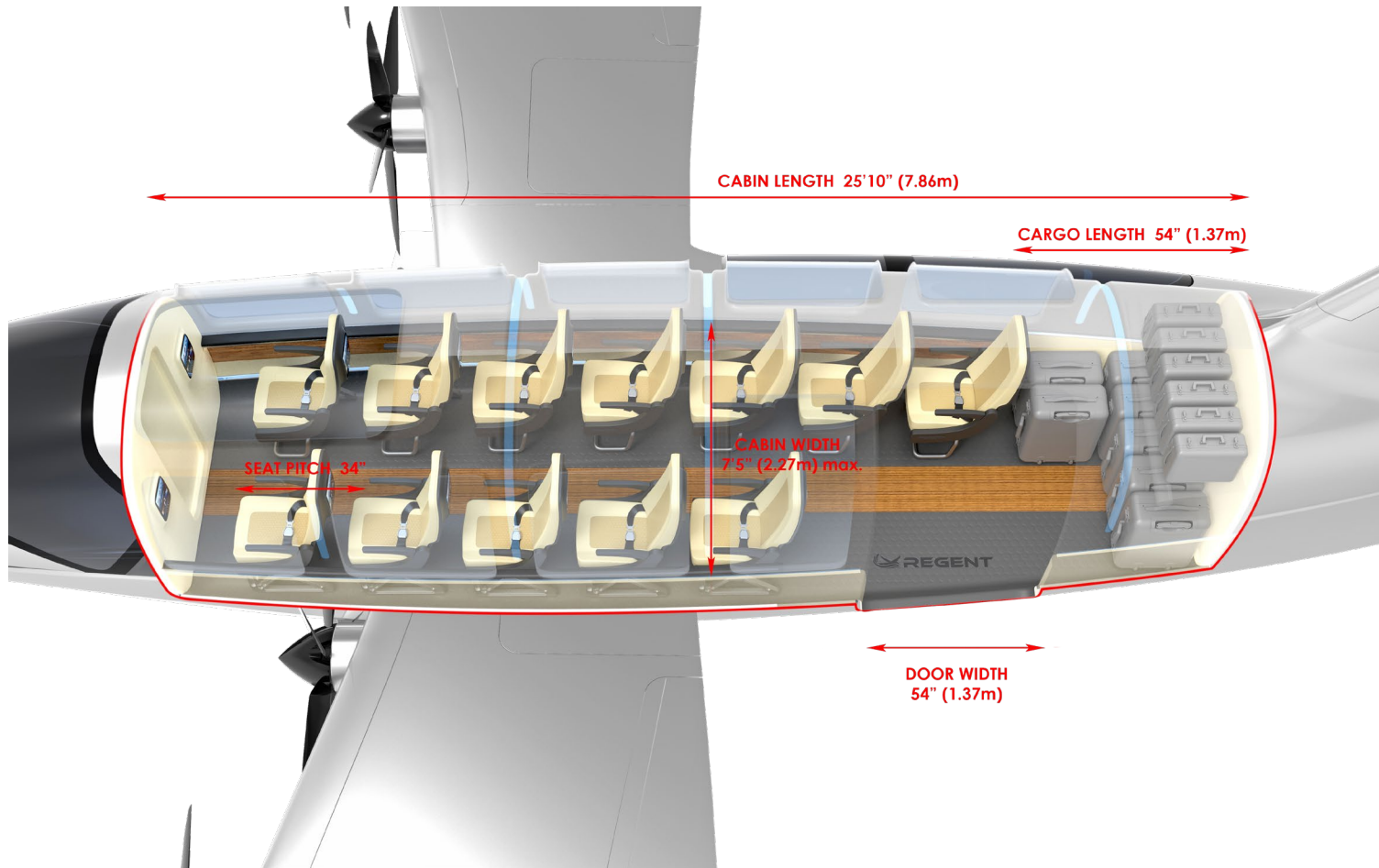
*Existing batteries defined by 210 Wh/kg pack-level energy density

Viceroy 3-view and Dimensions



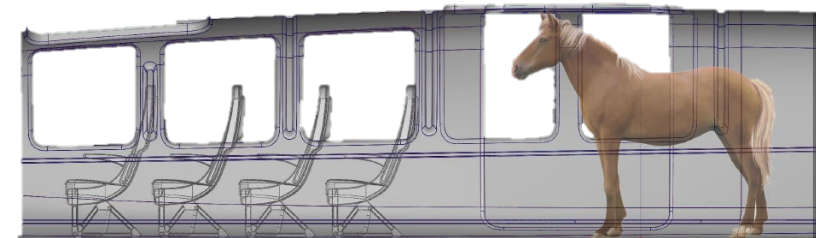
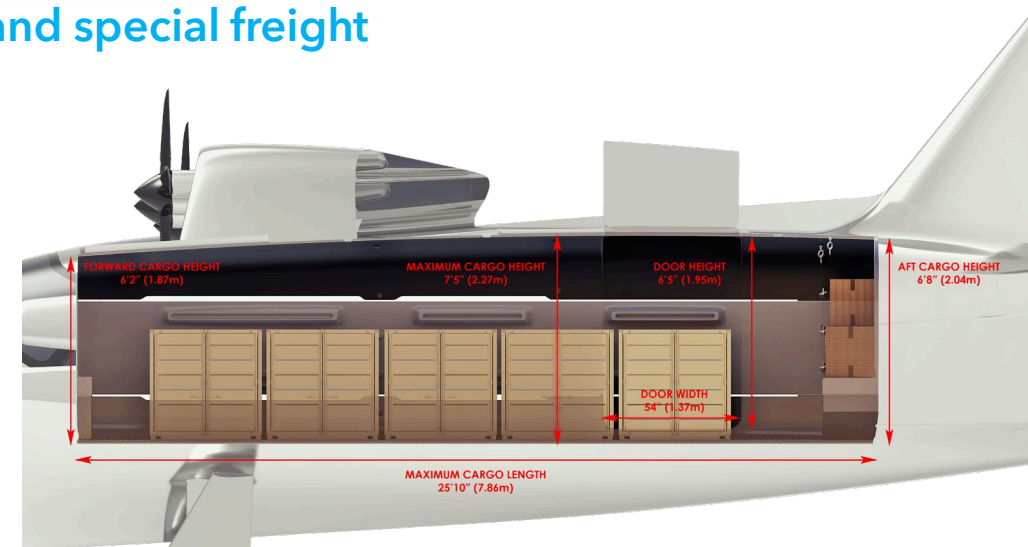
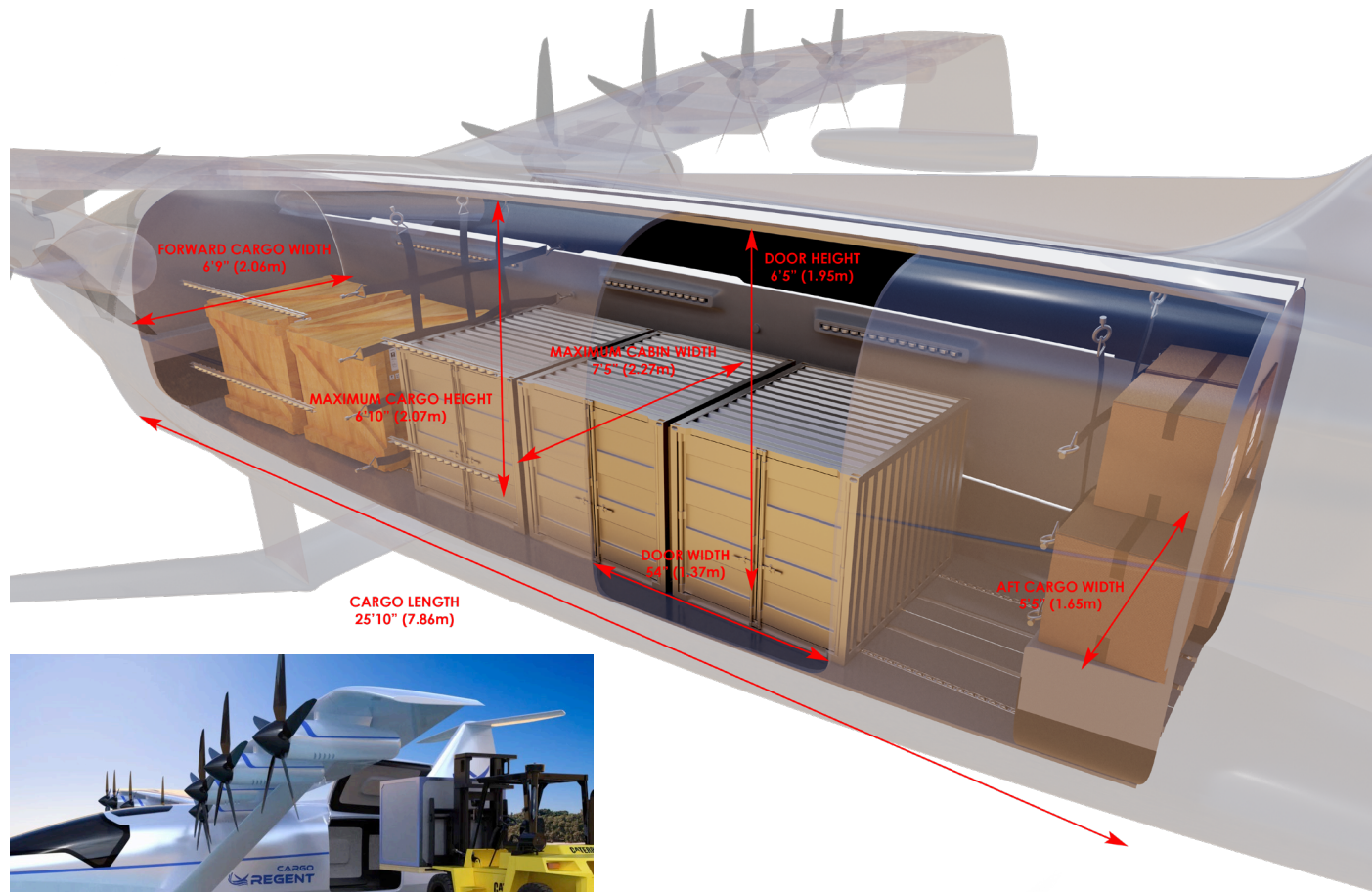
Passenger Interior

Comfortably seating 12 passengers with 34-inch seat pitch



Cargo 'Slick' Interior

Viceroy is modular and can be quickly adapted to carry both cargo and special freight

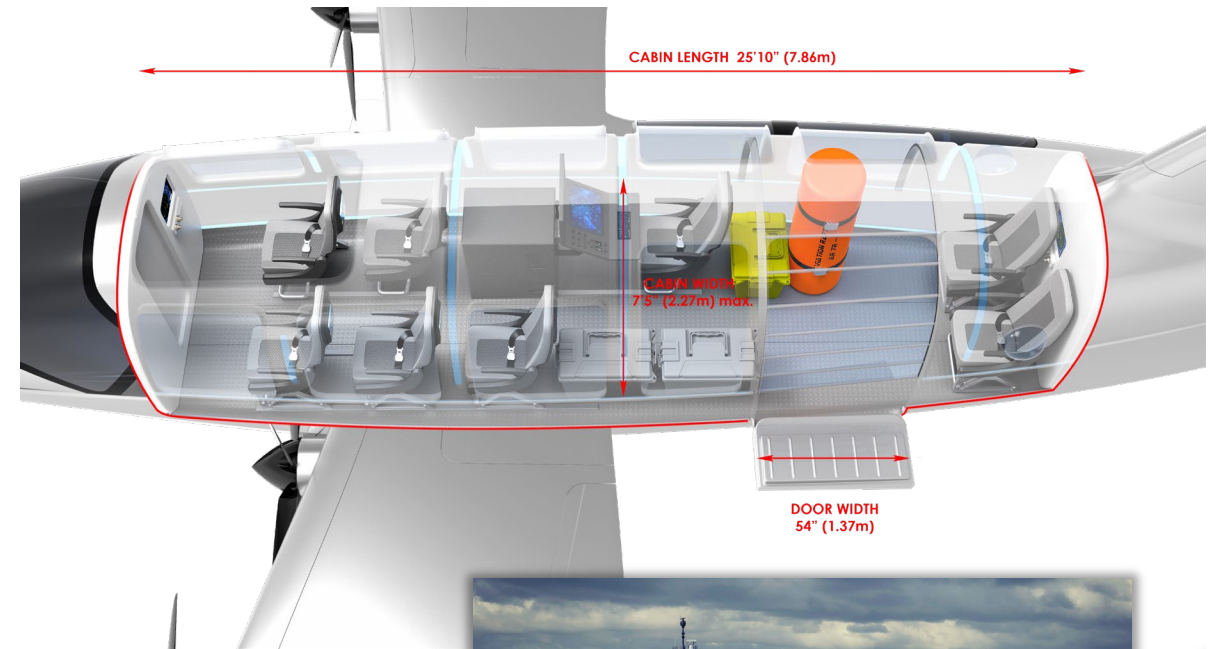
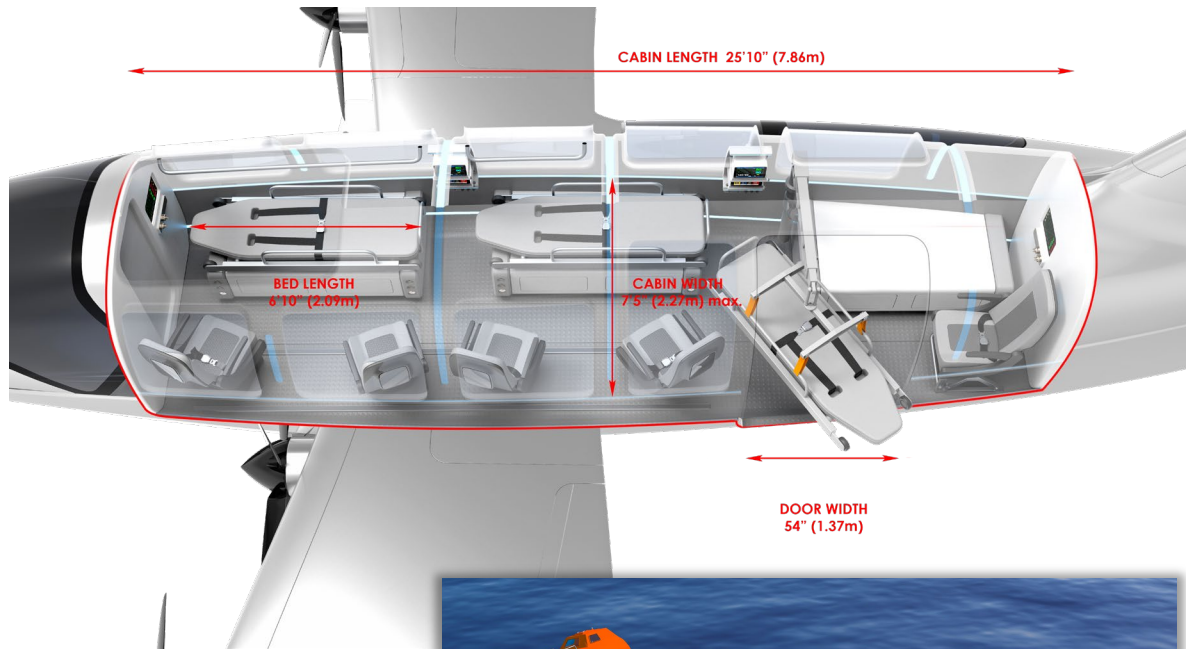


Cargo Capability

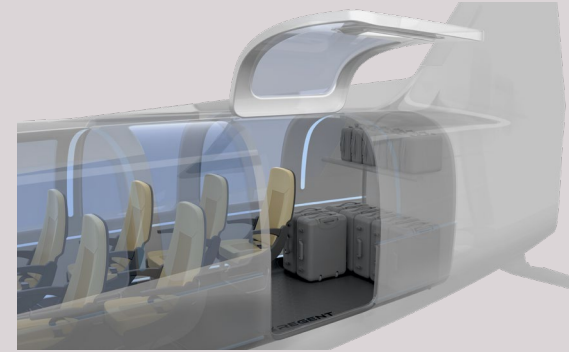
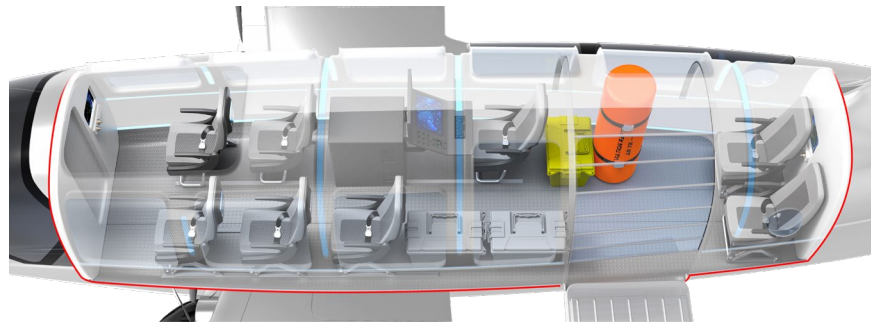
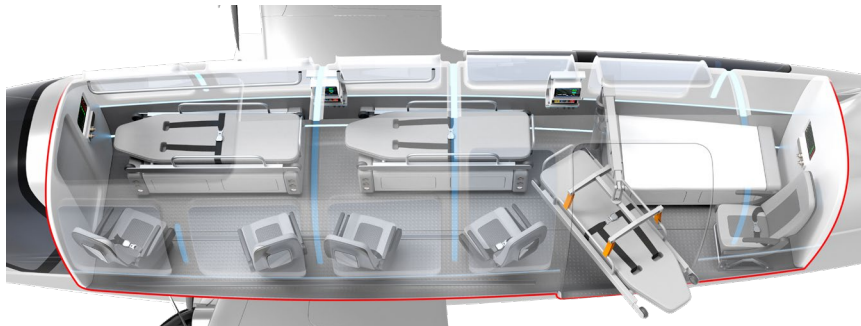
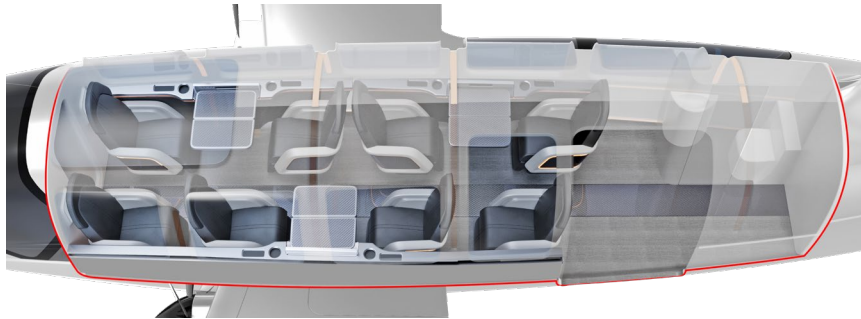
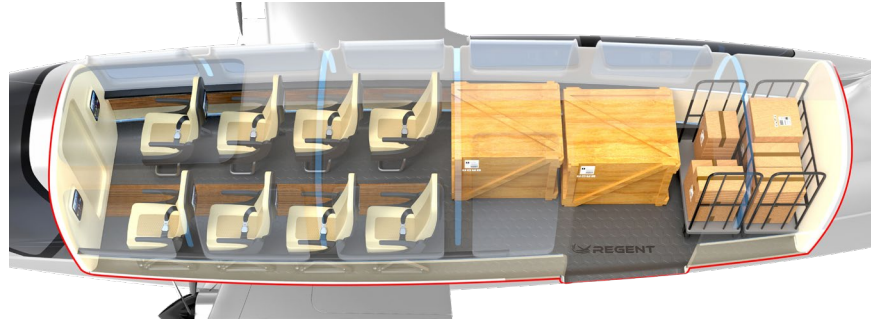
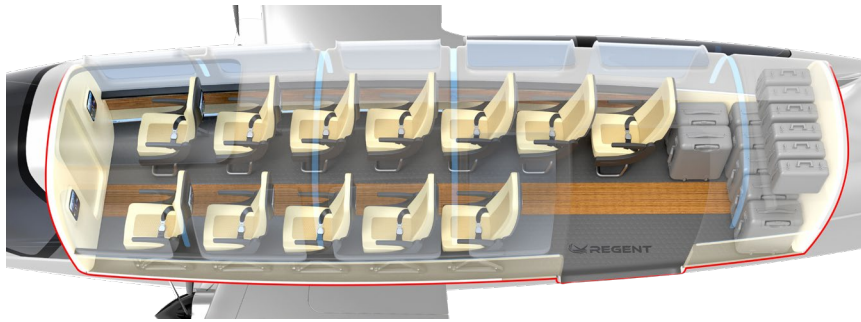
Payload	3,500 lbs, 18% of gross weight
Volume	900 ft ³

Special Missions

Viceroy is the ideal platform for govt missions. Air Ambulance, Maritime Patrol, Search & Rescue



Various customization options



REGENT Traffic, Obstacle, and Marine Mammal Detection

Hull and Foil-borne Mode

Sensor system observes surface traffic, underwater obstacles and marine mammals



Sonar and infrared systems for detecting and safely avoiding whales on surface and underwater

Wing-borne Mode

Airborne detection of surface traffic and obstacles utilizing radar and computer vision



Maritime Primary Radar:

Detecting surface traffic and coastlines

Forward Looking Sonar:

Primary means for maritime mammal detection

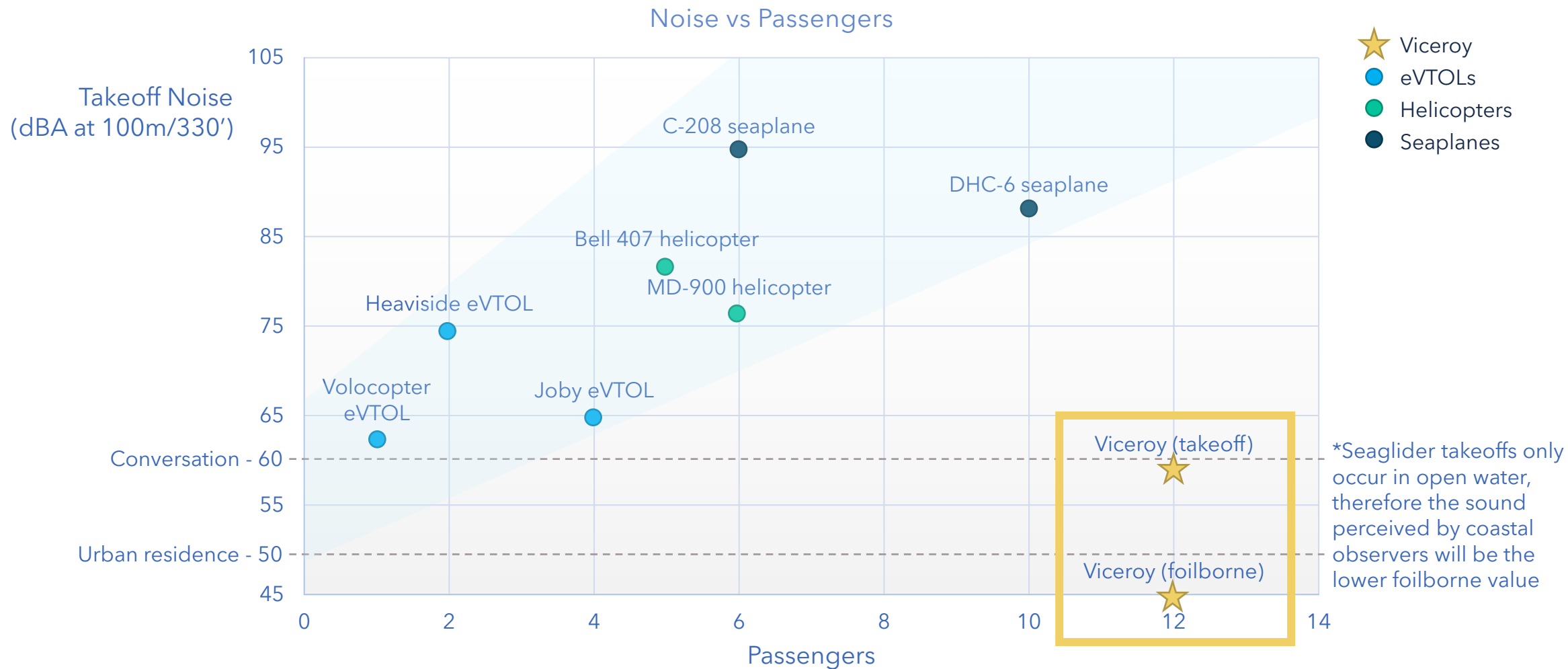
Infrared Camera Computer Vision:

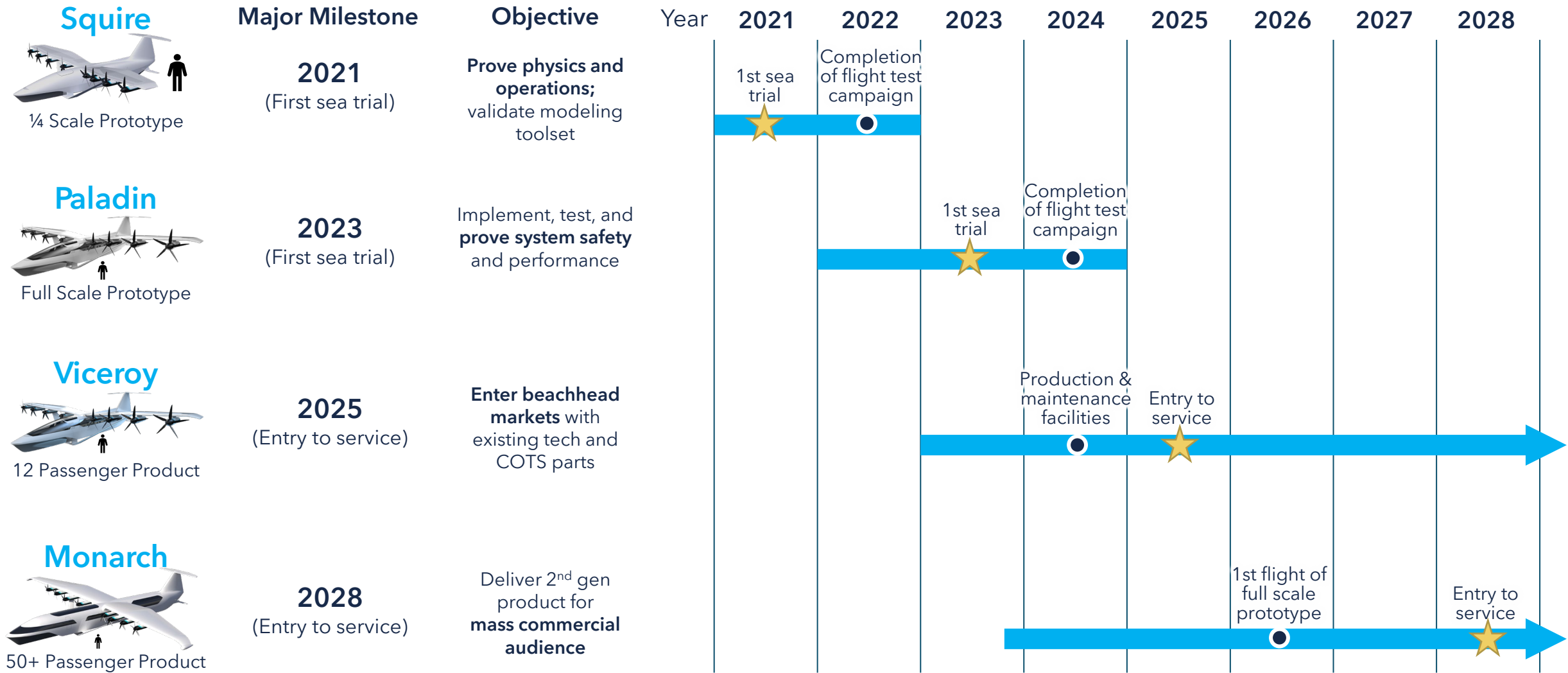
Non-cooperative traffic detection and tracking

AIS Position Reporting:

Maritime standard Automated Identification System

Viceroy Exterior Takeoff Noise Comparison





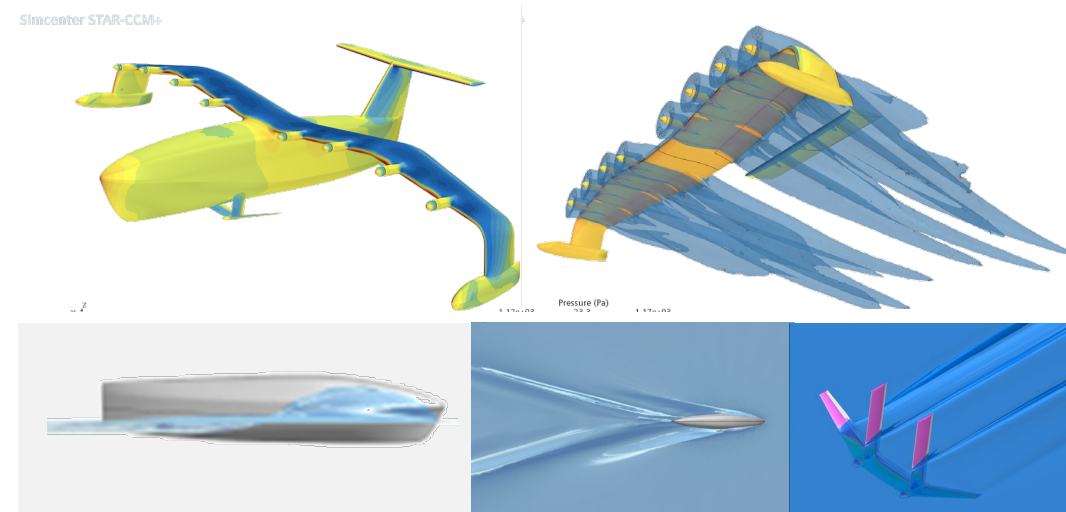
1/4 Scale Concept Demonstrator Sea Trials Underway



Maritime traffic awareness system testing



Aerodynamic and hydrodynamic modeling



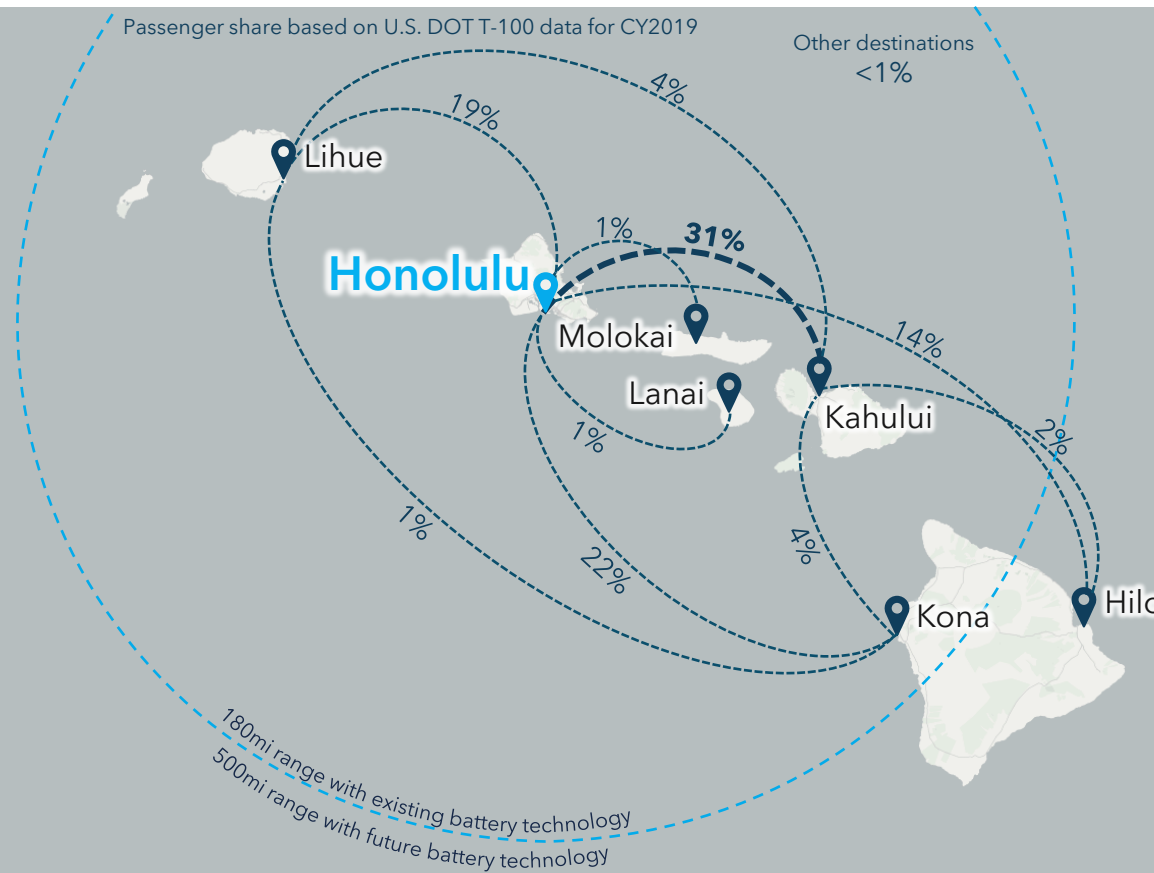
An Early Analysis of Hawaii Challenges and Opportunities got us excited...

~100k flights
6.8M passengers
530k+ metric ton of CO₂

Hawaiian Airlines accounts for ~90% of total CO₂ emissions

Domestic aviation (including departures to U.S. mainland) account for 3.5M metric ton of CO₂¹

Domestic marine transportation accounts for 0.5M metric ton of CO₂¹



Challenges:

- Limited airline competition leading to **higher fares** and **less choice/access** for residents/ under-served communities
- Increasing **road congestion** (estimated annual cost of \$690M²)
- Existing infrastructure / **climate change** make residents and under-served communities vulnerable
- Medical evac from remote areas can be very expensive

Opportunities:

- Supplement remote fixed wing network with options closer to where people live and work
- Intra-Island connectors (alleviate road congestion)
- Inter-Island Connections (point to point leisure travel)
- New form of low -cost high speed medical evacuation/remote hospital
- At least one existing marina/dock & 29 publicly accessible marina on each island

¹Hawaii Greenhouse Gas Emissions Report, Hawaii State Department of Health, April 2021

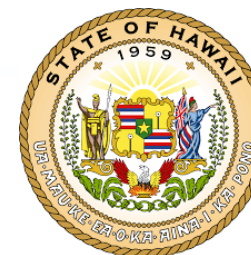
²The Costs of the Vehicle Economy in Hawaii, Ulupono Initiative/ICF, January 2021

So, we came to Hawaii and started by listening

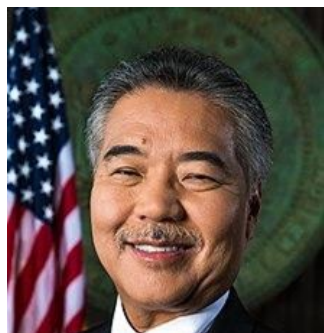
We met with hundreds of people across private, public and civil groups.

The key themes that emerged from our meetings include:

- Climate Change & Community Resiliency
- Concern about high prices of good and services
- Lack of affordable housing and vulnerable under served communities
- Strong desire for more affordable and convenient Inter Island transportation solutions (closer to where residents live and work)
- Electric aviation has strong support from local environmental groups



We Engaged State and Local Officials on Behalf of Local Businesses



Governor Ige



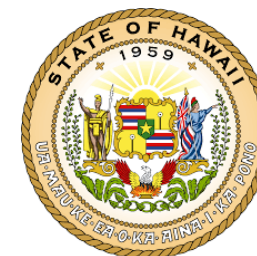
Lt Governor Green



Jade Butay
Department of Transportation



Ross Higashi
Deputy Dir of Airports



U.S. SENATOR FOR HAWAII
BRIAN SCHATZ



Sen Ron Kouichi



Sen Glenn Wakai
Chair Energy
Econ Dev & Tourism



Rep Scott Saiki
House Speaker



Rep Henry Aquino
House Chr Trans
Committee



Mike McLarty
DBE



Scott Glenn
Chief Energy
Officer



Suzanne Case
Chair, DNLR



Major Gen Hara
State of Hawaii, Dept
of Defense &
National Guard

CASE **CONGRESS**

KAI
KAHELE
★ CONGRESS ★



Senator Inouye
Transportation & Ways and
Means



Rep Aaron
Johanson



Senator Chris Lee
Transportation



Mayor Rot's Office
Mayor of Hawaii
County



Rick Blangiardi
Mayor of Honolulu



Mayor
Kawakami
Mayor of Kau'ai



Mayor Victorino
Mayor of Maui

Mazie
for **HAWAII**
U.S. Senate



Strong Partnerships within Private Sector and Civic Organizations Started to Form

**REGENT Customers
(Current + In Discussions)**

Hawaii launch partner



Ongoing Discussions






Energy & Infrastructure

Hawaiian Electric Industries 

- Financial Sponsorship of Feasibility Study
- Executive Sponsor: Scott Seu (CEO) & Admiral Tom Fargo (Chairman) actively engaged

Pacific Current 

- Physical Infrastructure
- Vehicle leasing to local businesses
- Last mile charging infrastructure
- Executive Sponsor: Scott Valentino

Local Support Players

University of Hawaii 

- Energy Impact & Renewables

NOAA/Whale Sanctuary 

- Design partner helping with mammal avoidance systems

Blue Planet & Surfrider Foundation

- Environmental Consultants




Over \$4.6B in provisional orders, including firm deposits



Ferry Companies



One of world's largest ferry companies (\$4.5B revenue) servicing France to UK



Italian fast ferry company with 30 ship fleet



Croatian fast ferry company servicing Adriatic islands

Airlines



Regional airline servicing New England, Miami/Caribbean,



Exploring bringing seaglidors to Hawaii



One of the largest regional airlines in North America flying for American Airlines and United



Land and sea air charter company servicing Northeast, Florida, and Bahamas



Bahamas seaplane operator servicing inter-island routes

REGENT's leadership team has strong record & complementary skill-set



Billy Thalheimer
Co-Founder & CEO



Michael Klinker
Co-Founder & CTO



Bryan Baker
Lead Designer



Adam Triolo
Director, Commercial
Business Development



Ted Lester
Director, Systems,
Safety, Certification



Dan Cottrell
Director, Engineering



Tom Harari
Director, Finance, Ops
& Strategic Partnerships

Previous Experience



Advisory Team



Dennis Muilenburg

CEO, New Vista Acquisition Corp.
Former CEO, Boeing



Dr. Alan Klanac

CEO, Adriatic Fast Ferries
Former President, Interferry Conference



Anne Marie Pellerin

Managing Partner, Lam-Lha Security Innovation
Former Sr. Exec., US Dept. Homeland Sec. / TSA



Edward Alford

Seaplane and Aviation Consultant
Former Managing Dir. Trans Maldivian Airways



Mark Bishop

Principal, Waterfront Composite Solutions
Former Designer, America's Cup Team UK



Eric Del Balso

General Partner, Kohala Ventures
Former Sr. Director Global Partnerships, Yahoo



Backed by world-class investors



THIEL



MARK CUBAN COMPANIES



JAM FUND



DARCO CAPITAL

PIONEER
FUND

