Joby

Meet Joby

A **vertically integrated** transportation company **developing**, **testing**, **manufacturing** and **operating** a piloted, 4-passenger, zero-operating emission, quiet revolutionary aircraft.

Plan to launch our **app-based aerial ridesharing service** directly to end-users following the receipt of FAA type certification.

Over **$2B raised to date**, including funds raised during our SPAC in 2021.

Joby's Exceptional Team

- 1,800+ current employees
- Across 31 States

Joby's Major Facilities

Santa Cruz
- Corporate headquarters
- Prototyping/R&D

San Carlos
- Powertrain Production
- Battery Packs

Marina
- Flight Test
- Certified Production
- Future of Commercial Operations

Payload

1000 lbs — 4 passengers, 1 pilot

Range

Trips up to 100 miles

Speed

Up to 200 mph

Sound

~45 dBA in cruise

With a maximum takeoff weight of approximately 5,300 lbs, we believe the Joby aircraft is the right aircraft for the market, delivering on all key attributes.

Zero operating emissions

Vertical takeoff and landing

5 seats
1 pilot
4 passengers

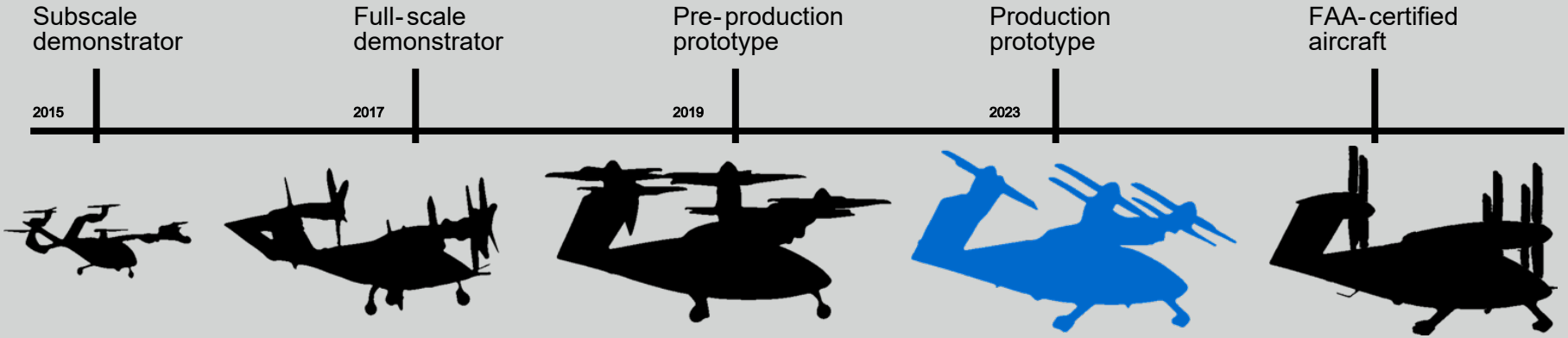
150+ mi range (with 30 min VFR reserve)

10+ years in development

200 mph top speed

Joby aircraft evolution

Joby's production prototype builds on six years of flying full scale aircraft and marks an important step towards certification and production at scale.



Breakthrough enabling technology:

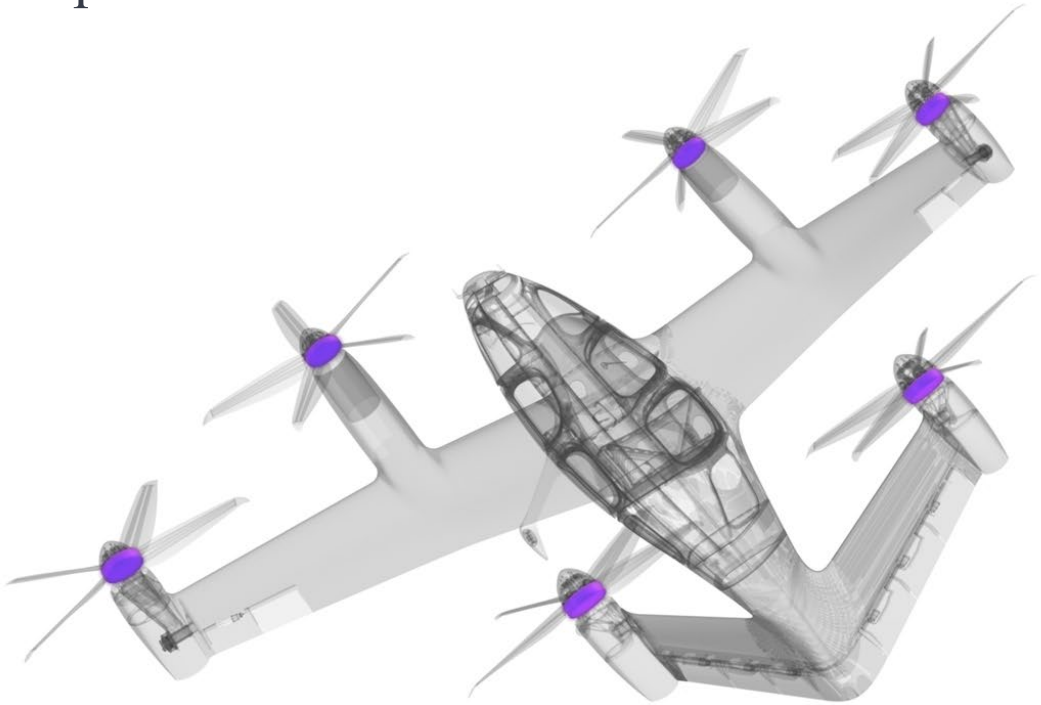
Distributed Electric Propulsion

Distributing multiple smaller and simpler electric motors across the aircraft enables:

Safety: No single points of failure across aircraft systems

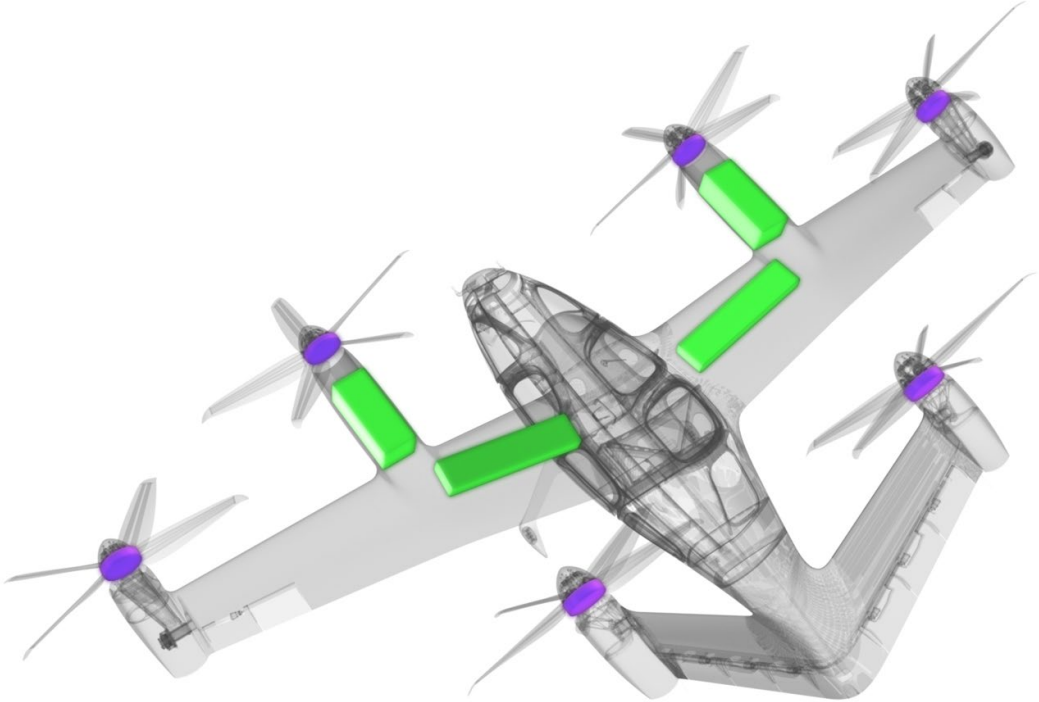
Acoustics: Electric motors enable a reduced sound profile

Economics: Reduced maintenance downtime; savings on fuel costs



Designed for safety with high levels of redundancy

- 6 propellers – can fly safely with the loss of any one propellor
- Each motor is redundant and powered by two separate inverters
- Each inverter is wired to a separate battery pack
- 4 isolated and redundant battery packs on board
- Motor continues to function if an inverter or pack fails



Our aircraft has no single points of failure across aircraft systems

Sophisticated partnerships support our competitive advantage

Go To Market & Ops.

Uber

U.S. AIR FORCE

UNITED STATES MARINE CORPS

NASA

Manufacturing

TOYOTA

TORAY

Toray Advanced Composites

GARMIN

Infrastructure

RELATED

Signature AVIATION

MACQUARIE

REEF

App Based Service

Seamlessly integrated air / ground mobility service

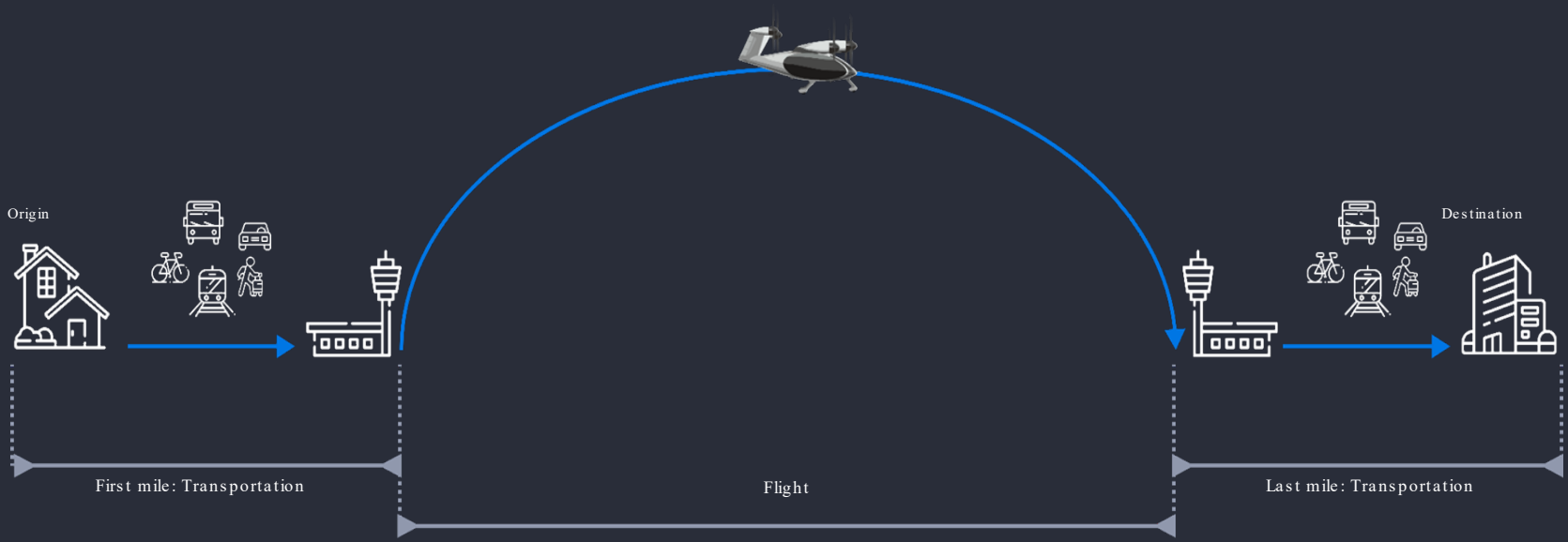
A **vertically -integrated business model** that sees us both manufacturing and operating the aircraft

Convenient **app-based** bookings, increasingly **on-demand** over time

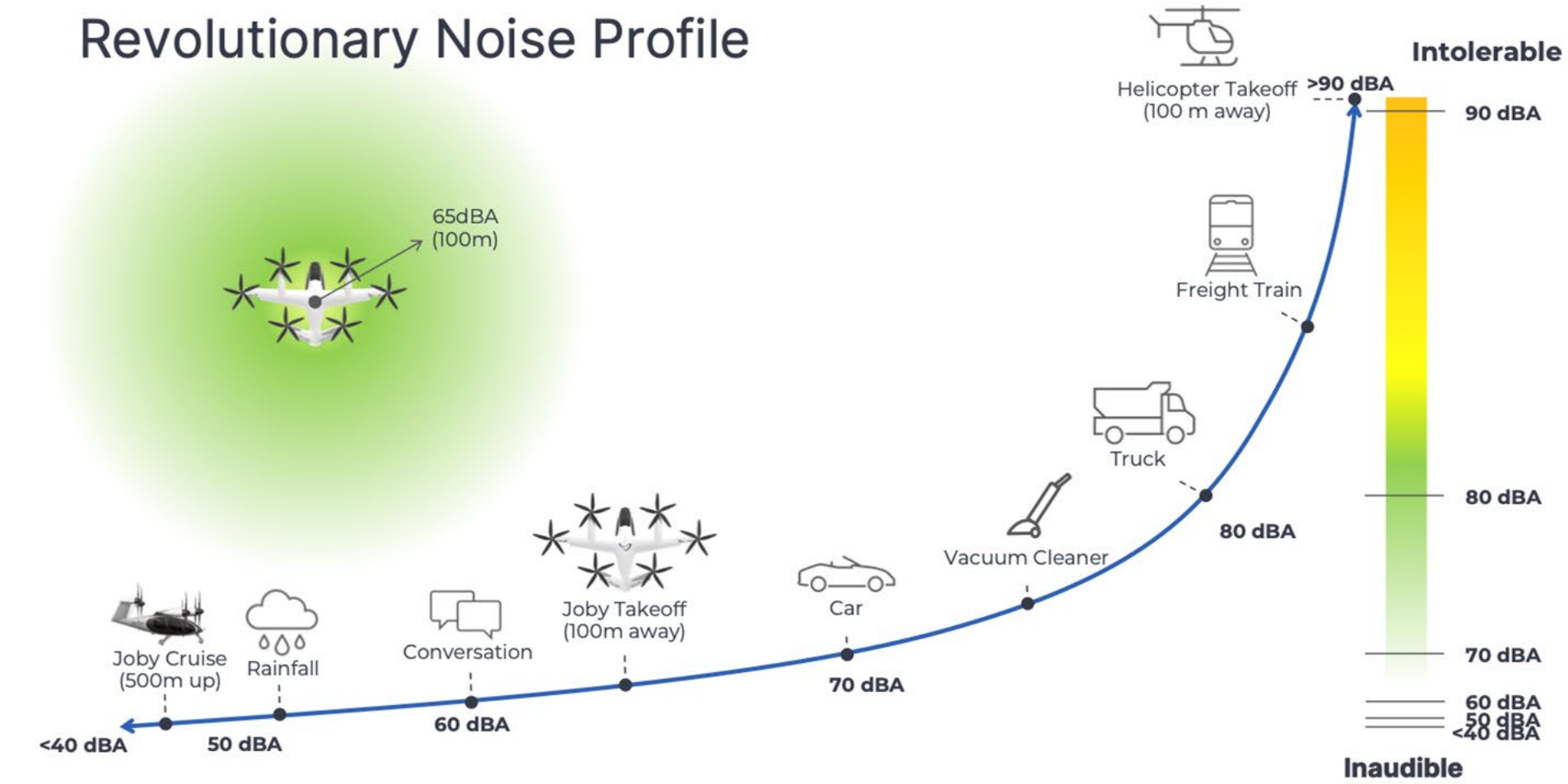
Seamless, **multi -modal** passenger experience

Rider Experience Vision

Joby's rider experience will make flying through urban areas feel effortless by anticipating a rider's needs, empowering users during each transition, and safely guiding riders to their final destination on time.

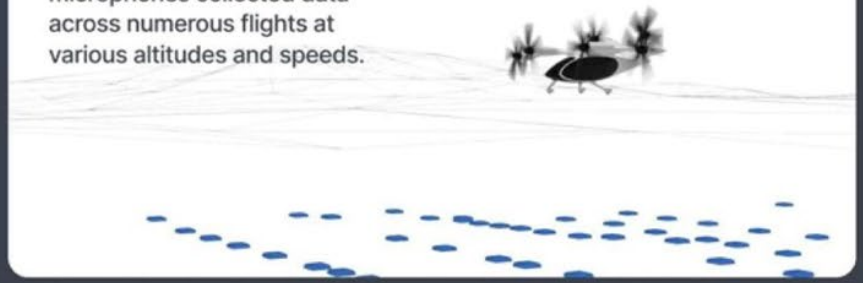


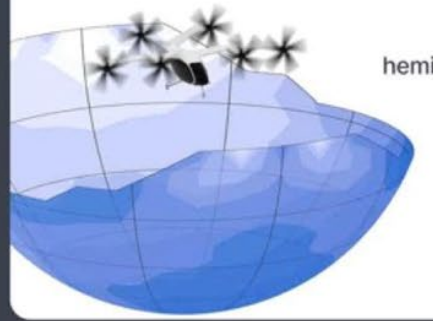
Revolutionary Noise Profile



…proven with support from NASA

A field array of 50+ specialized microphones collected data across numerous flights at various altitudes and speeds.





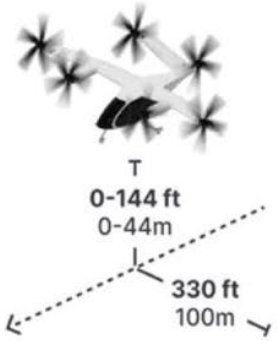
The NASA team used the flight recordings to model acoustic hemispheres, used for computing sound level anywhere on the ground.

OVERHEAD FLIGHT

45.2 dBA[1]

Joby acoustic computation using NASA model

TAKEOFF & LANDING



Below 65 dBA[2]

NASA acoustic measurement

[1] Using NASA's model, Joby computed the free-field acoustic signature of its aircraft to be 45.2 dBA during flyover at an altitude of 1640 feet (500 meters).
[2] Based on representative takeoff and landing profiles, NASA also measured the aircraft's acoustic footprint to be below 65 dBA at 330 feet (100 meters) from the flight path.

NASA Noise Testing Campaign

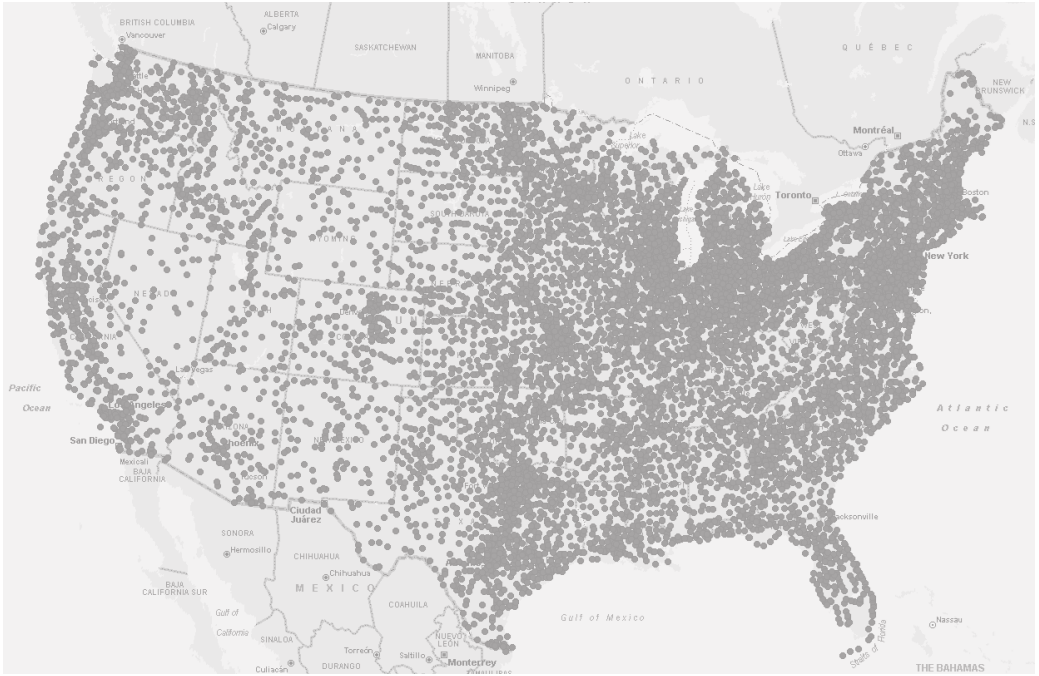
"You don't hear that characteristic rotor or propeller sound. It was much more benign...A drone and the Joby aircraft could be creating the same level of sound, but someone could be much more annoyed with the drone...The Joby vehicle tends to fall into those levels that are more acceptable as ***it sounds more like white noise as opposed to a distinct sound that gets people's attention*** *and is perceived as 'annoying.'"* – Kyle Pascioni, NASA AAM National Campaign

Aircraft Comparison Video: https://www.youtube.com/watch?v=itP8-3j2UZI&t=21s

U.S. Public Use Airports

5,080

Federal Airport Act of 1946
Contributes to the strongest economy in the world and assures continued U.S. aviation leadership.



Certified Aircraft – Not Drone

Type Certification Process

Traditional aircraft designed to carry people are certified against stringent safety criteria by the FAA &the Joby aircraft follows this path.

Drones

Unmanned aircraft have been allowed to fly without design certification provided they don't put people on the ground at risk.

Opportunities to decarbonize California's skies

Commuting

120,000 travelers on 62 flights a day took San Francisco and Oakland Helicopter Airlines in 2019 for Bay Area commuting

Public Services

1.2 million gallons of fuel burned by L.A. law enforcement helicopters

Air Tours

National Park Service Bay Area Air Tours have up to 2,548 helicopter tours a year

https://www.bloomberg.com/news/articles/2019-10-08/what-s-wrong-with-urban-helicopter-commuting
https://heated.world/p/the-climate-cost-of-las-police-choppers
https://parkplanning.nps.gov/projectHome.cfm?projectID=103175#:~:text=The%20plan%20authorizes%20up%20to,over%20Point%20Reyes%20National%20Seashore

Thank you!