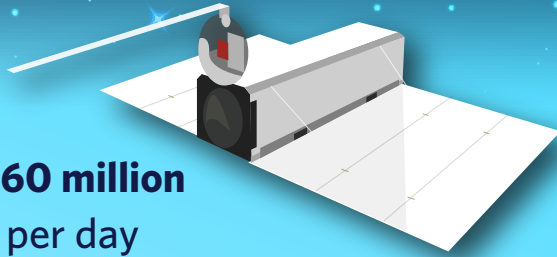


# MAPPING MARINE HABITATS FROM OUTER SPACE TO UNDERSEA

Using revolutionary remote sensing technologies to advance large-scale coral reef and coastal conservation

## DOVE SATELLITES

Constellation of satellites capturing images across **~60 million mi<sup>2</sup> of the Earth's surface** per day



Creates maps of coral reefs and other habitats across the Caribbean at a **pixel size of 150 ft<sup>2</sup>**



**Guides optimal marine protected area design** and management planning

## GLOBAL AIRBORNE OBSERVATORY

Aircraft with a high-tech spectrometer capturing images across an area **the size of ~135,000 football fields** per day



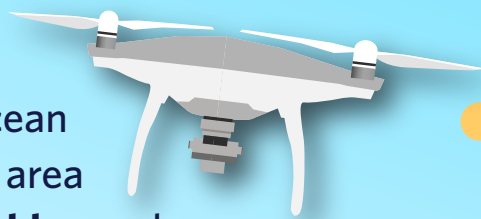
Creates 3D habitat models at a **pixel size of .1 - 10 ft<sup>2</sup>** and reveals % live coral and algal cover



**Identifies sites that can improve survival rates** of outplanted corals

## AERIAL DRONES

Vehicles that fly over the ocean capturing images across an area **the size of ~700 football fields** per day



Creates 3D habitat models at a **pixel size of 1 in<sup>2</sup>** and reveals individual coral species type



**Evaluates the impact of protection and restoration** efforts on coral cover and reef complexity

## SUB-SURFACE IMAGERY

Divers and underwater drones capturing images across an area **the size of <1 football field** per day



Creates 3D habitat models at a **pixel size of .01 in<sup>2</sup>** and reveals coral health and growth rates



**Determines if individual coral colonies are thriving** and creating habitat for marine life



## WHO USES THESE HABITAT MAPS?

- Conservation scientists and practitioners
- Marine protected area and fishery managers
- Hotel and tourism associations
- International governments
- Educational institutions

## WHAT DO THE MAPS ALLOW US TO DO?



- Promote effective marine spatial planning and management of protected areas
- Quantify the economic and protection value of marine habitats to support policymaking
- Determine sites for nature-based, climate resilience solutions for coastal communities
- Identify areas for urgent coral restoration, including sites that improve survival rates
- Catalyze conservation action and education by making vital habitat data readily available