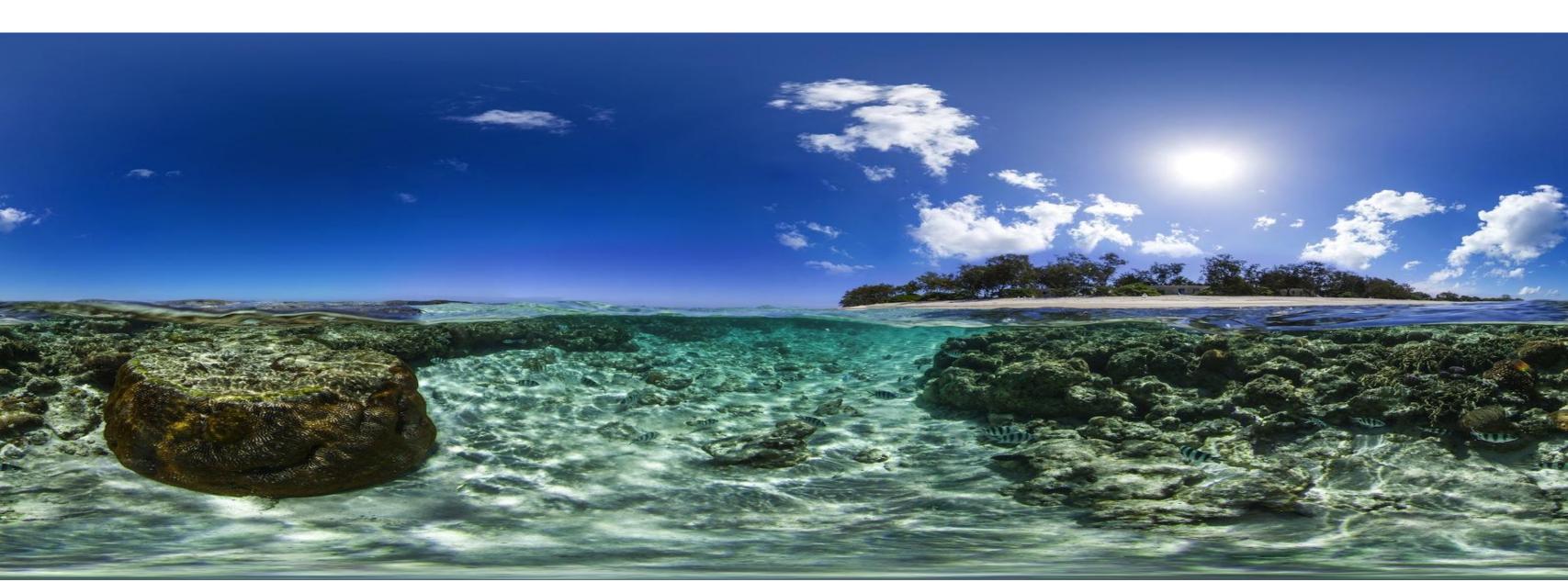


Underwater Streetview



Google Maps and Catlin Seaview Survey

Jenifer Austin Foulkes, Google Ocean Manager Richard Vevers, Director, Catlin Seaview Survey





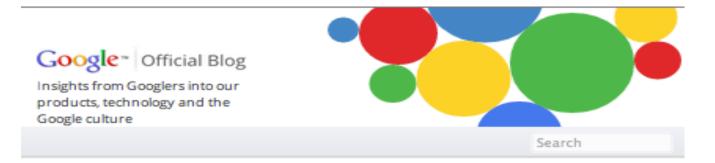


http://youtu. be/7svWPI*7*t9B4

Our goal: make Google Maps more comprehensive



Launched Underwater Street View



Dive into the Great Barrier Reef with the first underwater panoramas in Google Maps

September 25, 2012

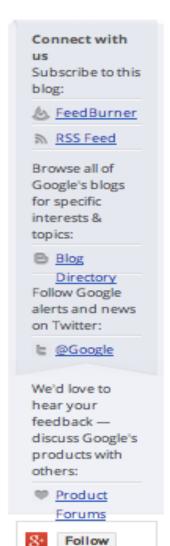
₹ •1 ○ 774

Today we're adding the very first underwater panoramic images to Google Maps, the next step in our quest to provide people with the most comprehensive, accurate and usable map of the world. With these vibrant and stunning photos you don't have to be a scuba diver-or even know how to swim-to explore and experience six of the ocean's most incredible living coral reefs. Now, anyone can become the next virtual Jacques Cousteau and dive with sea turtles, fish and manta rays in Australia, the Philippines and Hawaii.



Get up close and personal with sea turtles at Heron Island, Great Barrier Reef

Starting today, you can use Google Maps to find a sea turtle swimming among a school of fish, follow a manta ray and experience the reef at sunset-just as I did on my first dive in the Great Parrier Poof last year. You can also find out much more



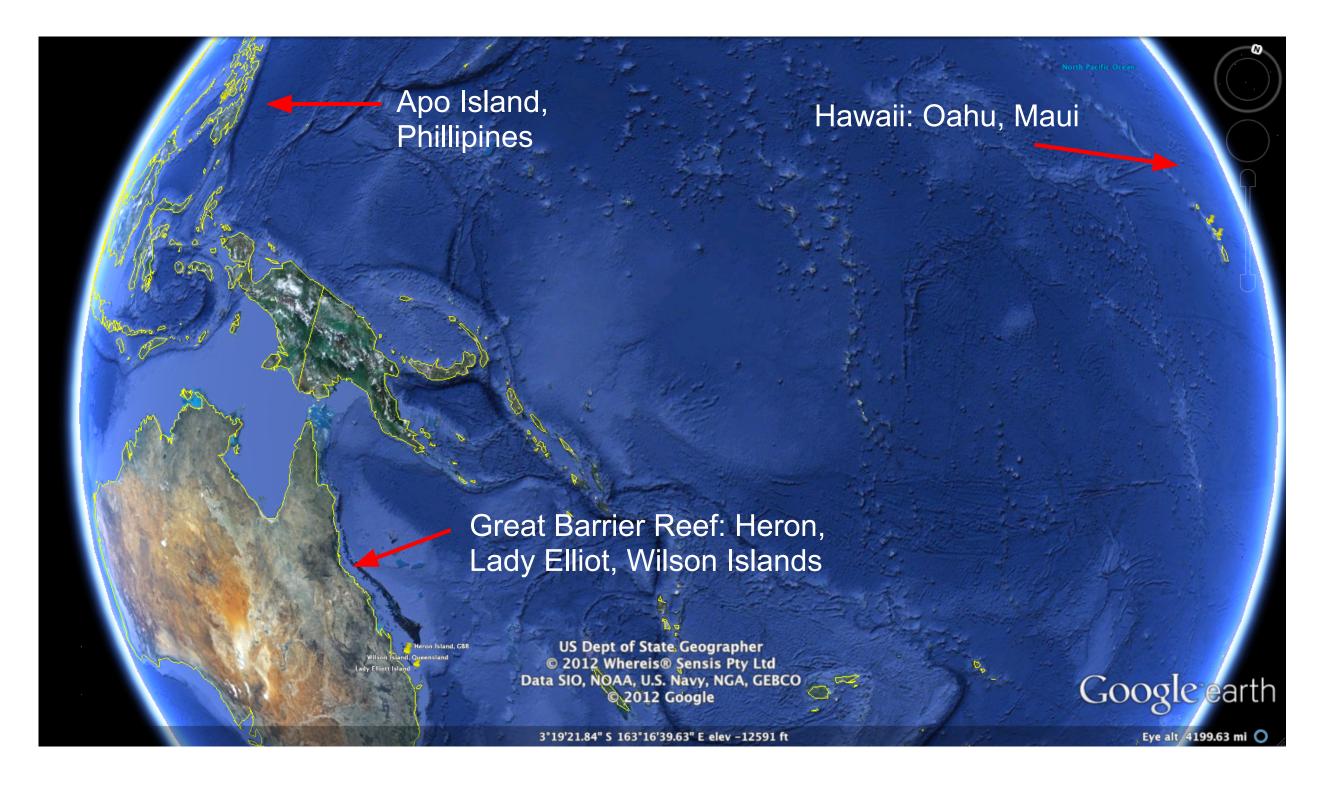


Taking you from your home to a turtle's home





Just the beginning...six places so far





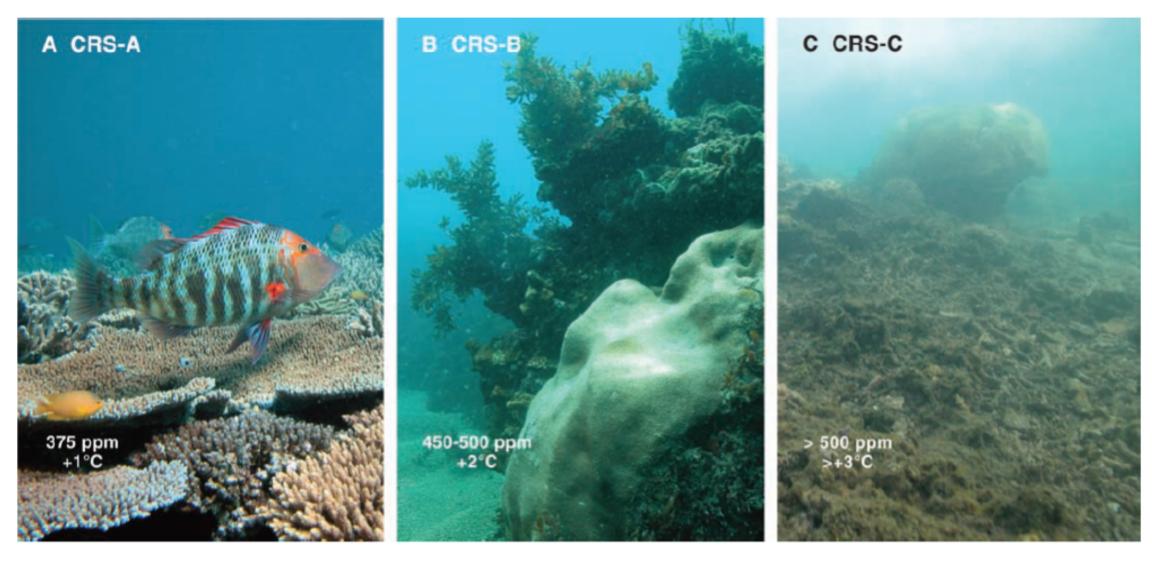
Reefs at risk

- 90% of the big fish are gone.
- Half of corals are gone. Ocean is warmer, more acidic.
- Major coral reef death expected to continue.





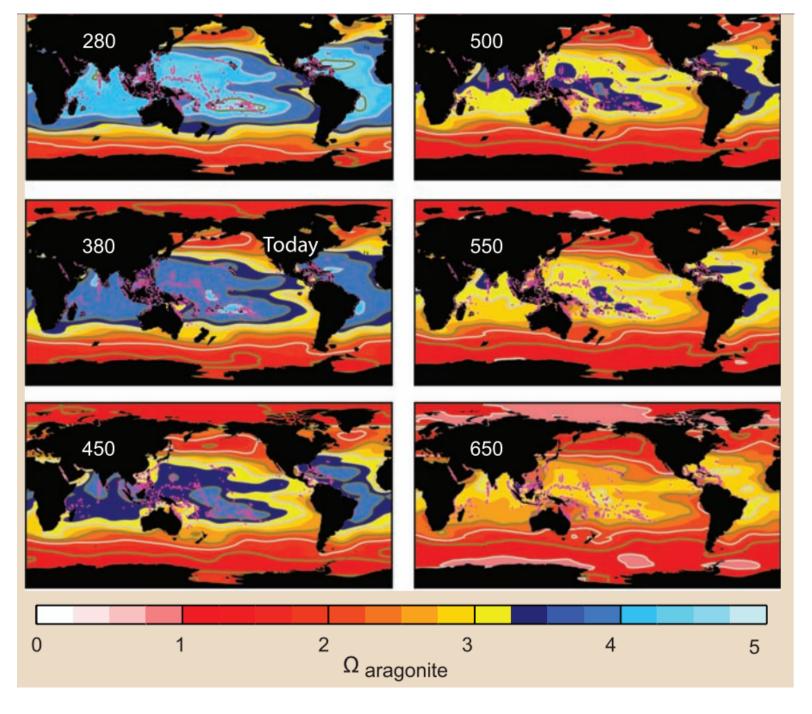
Most corals could die in next 40 years



O. Hoegh-Guldberg et al. "Coral Reefs Under Rapid Climate Change and Ocean Acidification." Science. 2007.



Most coral could die in next 40 years

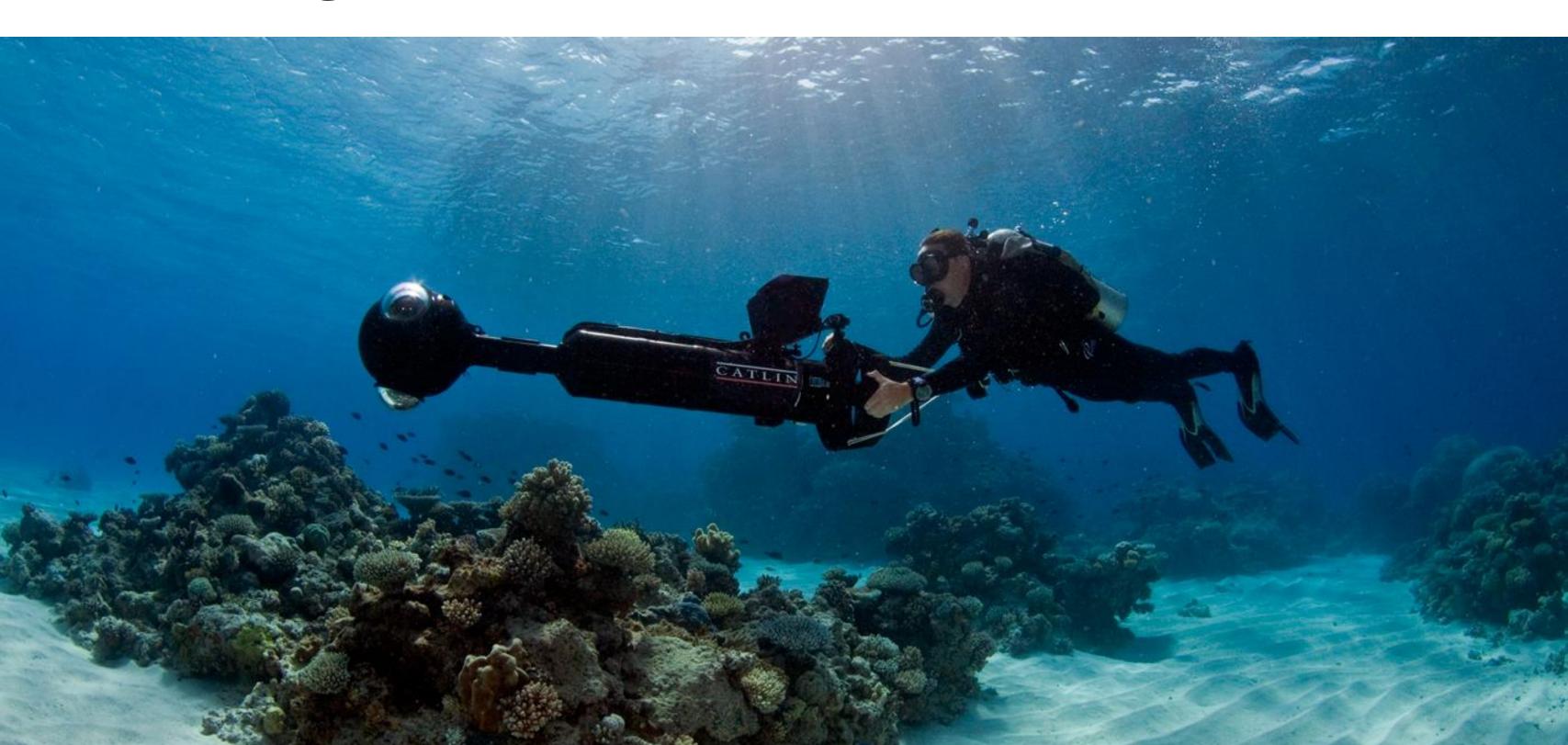




This is the critical decade for our oceans



Revealing the reefs of the world

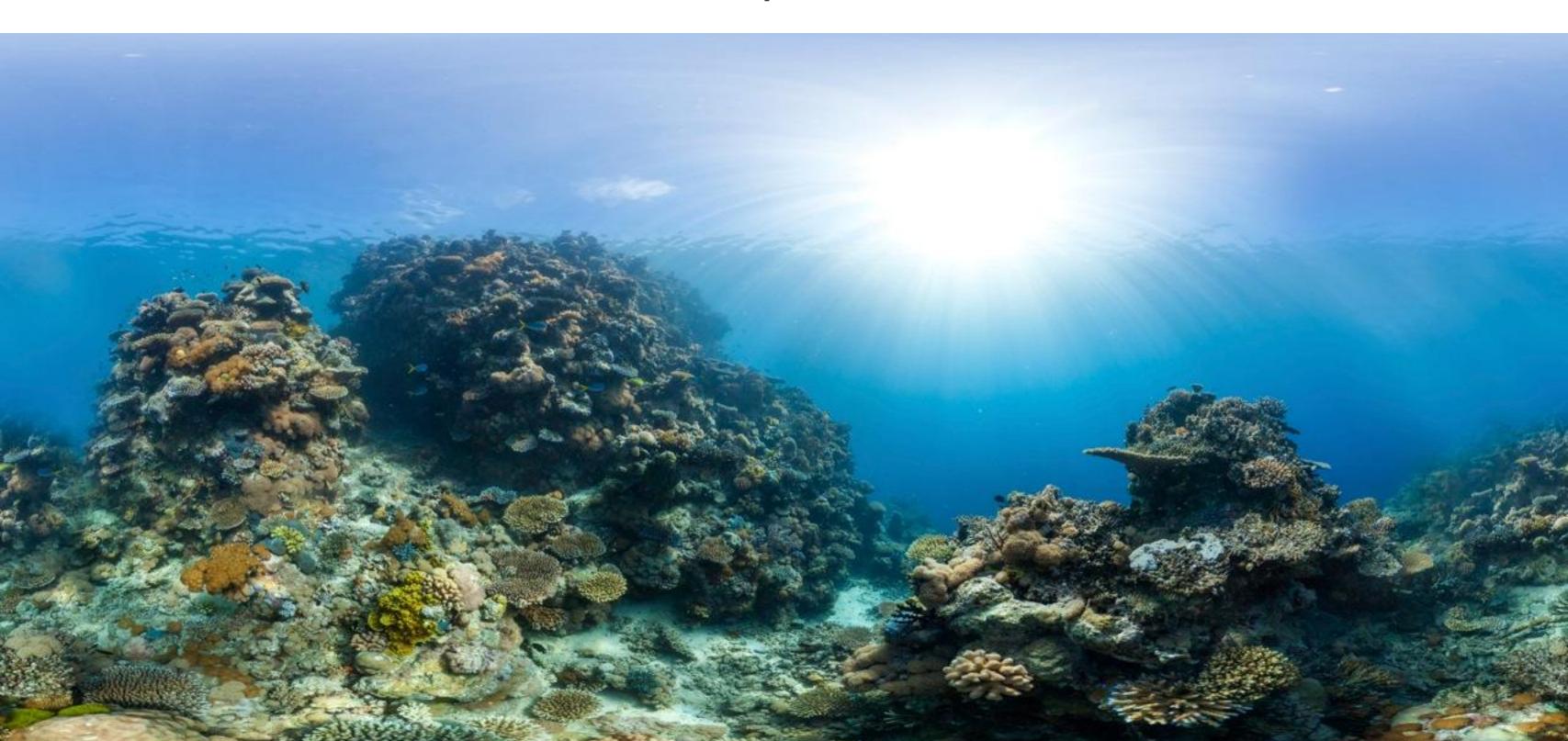


Images taken every 3 seconds - 2km per dive

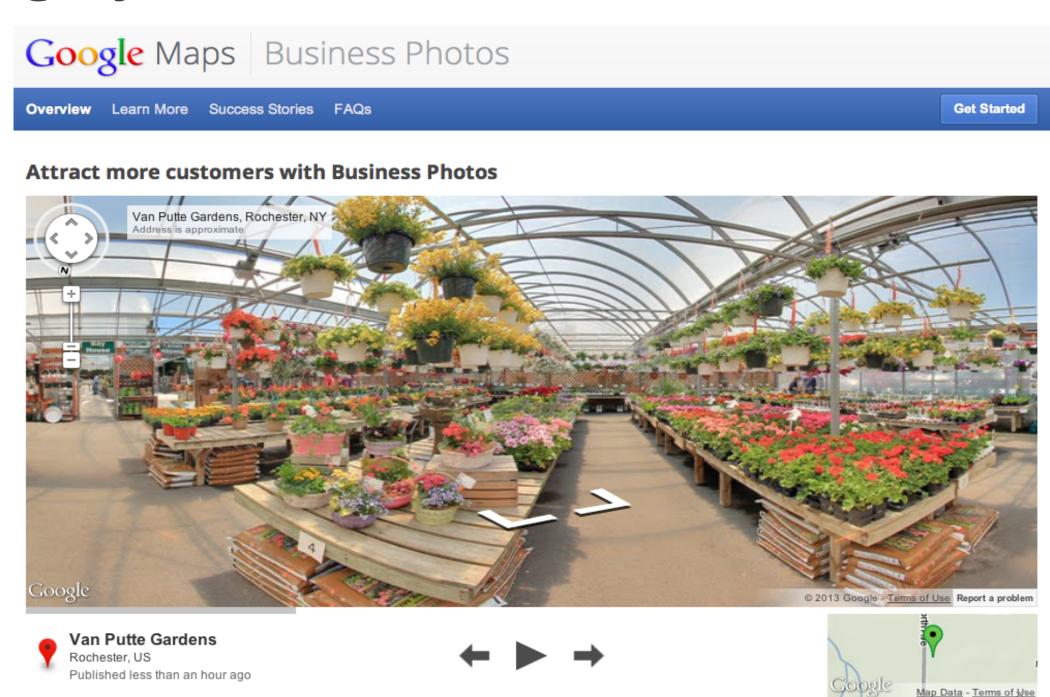




Immersive 'virtual dive' experience



Add imagery with the Business Photos tool



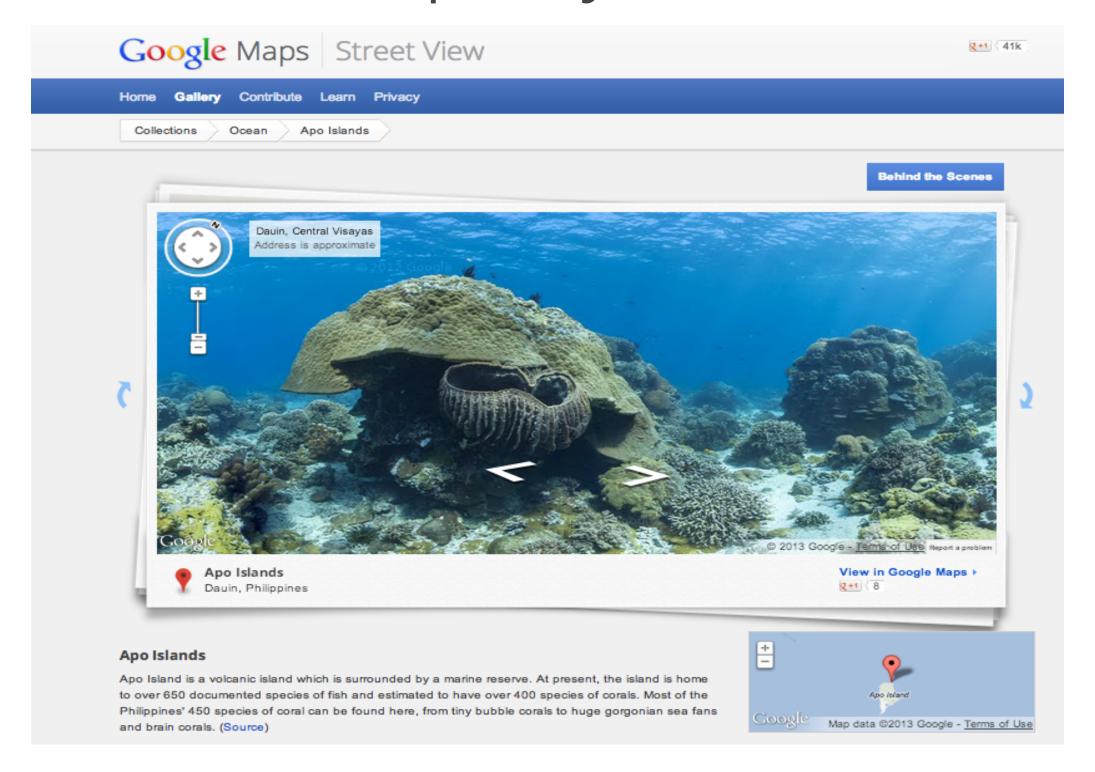
Add a virtual tour

Engage with your customers

Share with the world



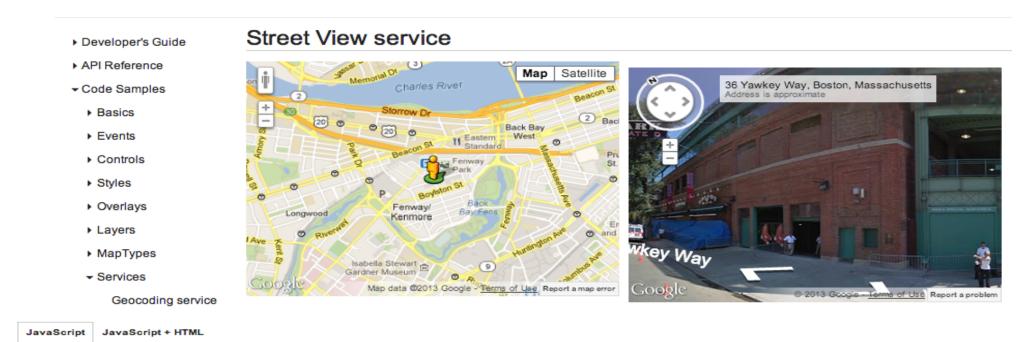
Embed Street View api on your own website





Embed Street View api on your own website

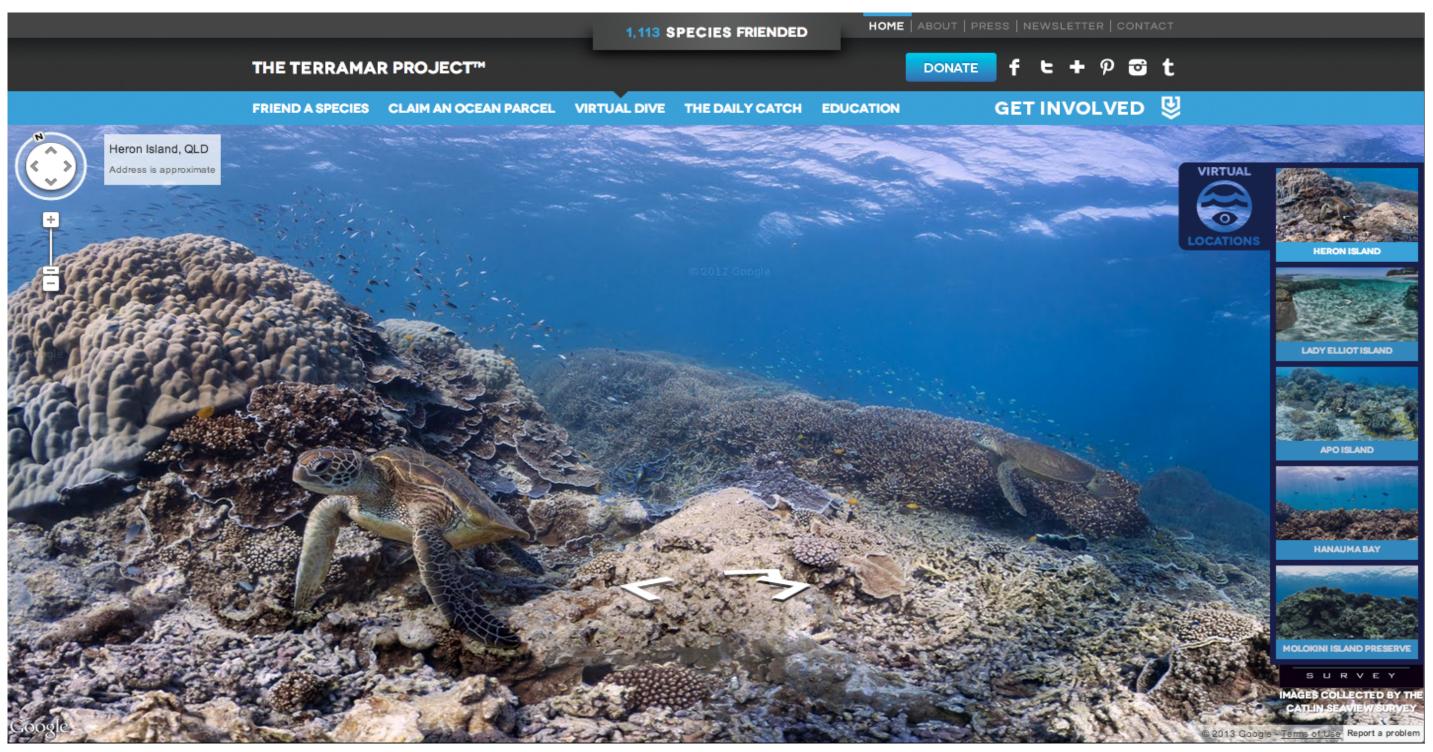
Google Maps JavaScript API v3 [14]



```
function initialize() {
 var fenway = new google.maps.LatLng(42.345573,-71.098326);
  var mapOptions = {
   center: fenway,
   zoom: 14,
   mapTypeId: google.maps.MapTypeId.ROADMAP
  var map = new google.maps.Map(
      document.getElementById('map-canvas'), mapOptions);
  var panoramaOptions = {
   position: fenway,
   pov: {
     heading: 34,
      pitch: 10
 var panorama = new google.maps.StreetViewPanorama(document.getElementById('pano'),panoramaOptions);
  map.setStreetView(panorama);
google.maps.event.addDomListener(window, 'load', initialize);
```



Embed Street View api on your own website





A global reef record for monitoring change

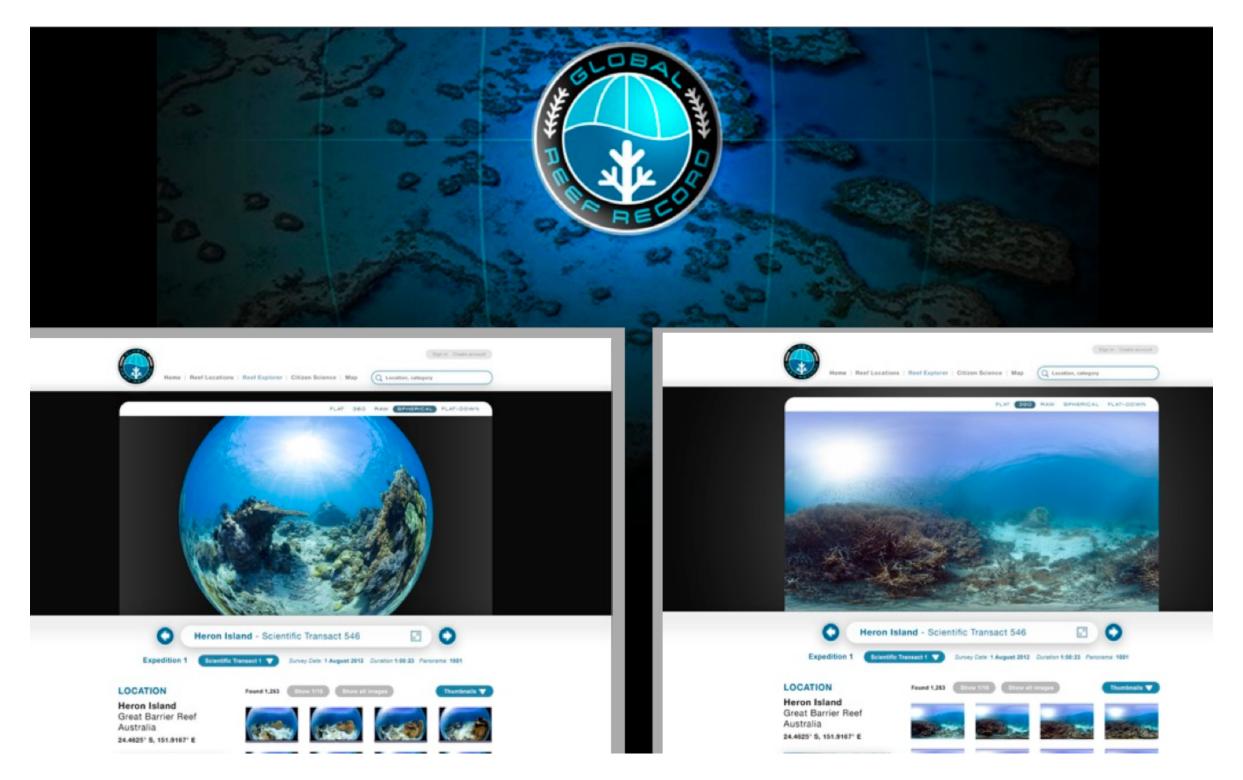
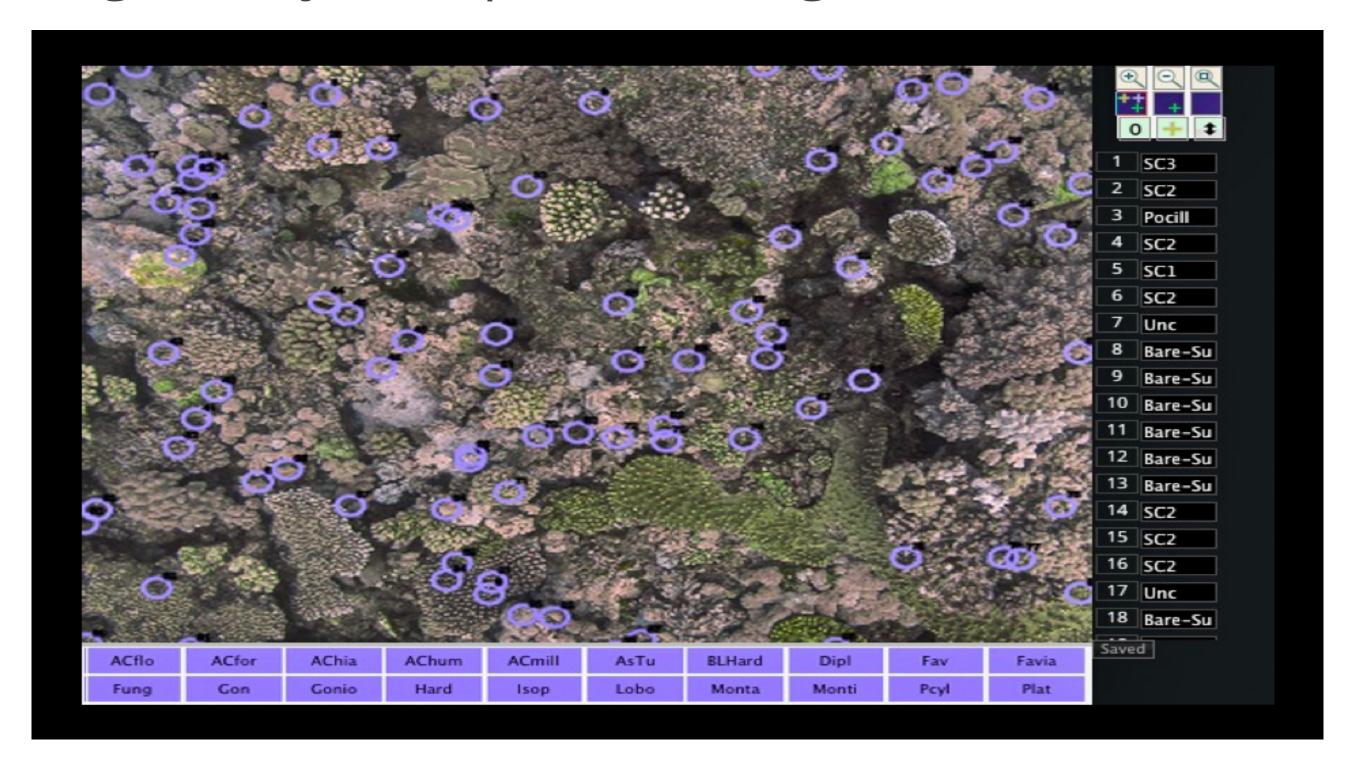


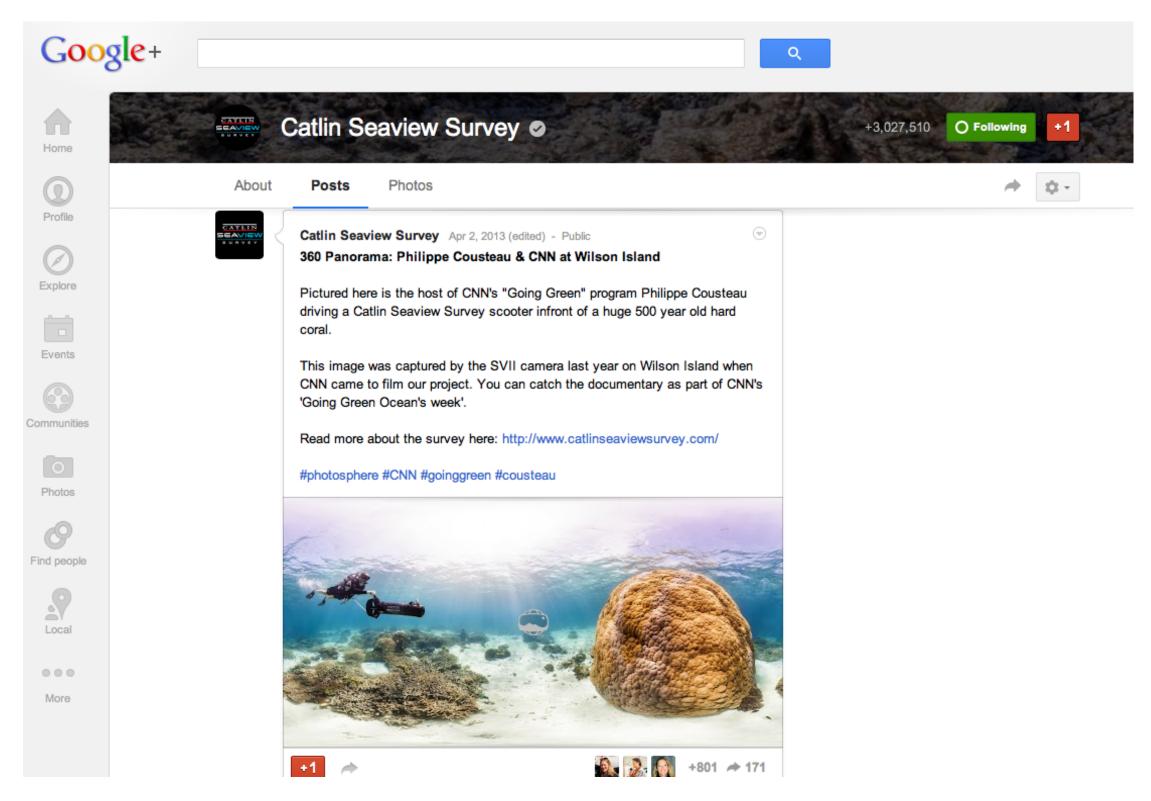


Image analysis - species recognition



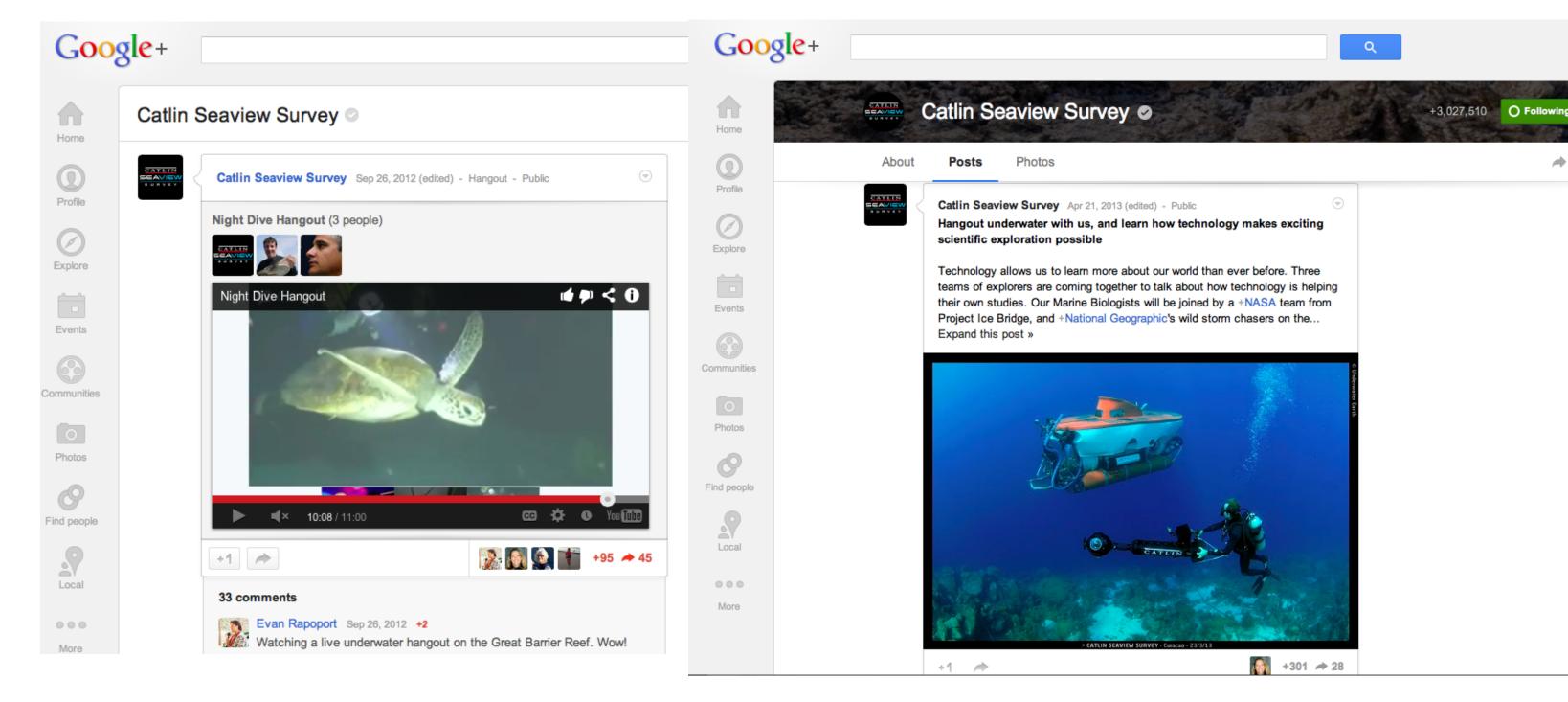


Over 3 million people following on Google Plus



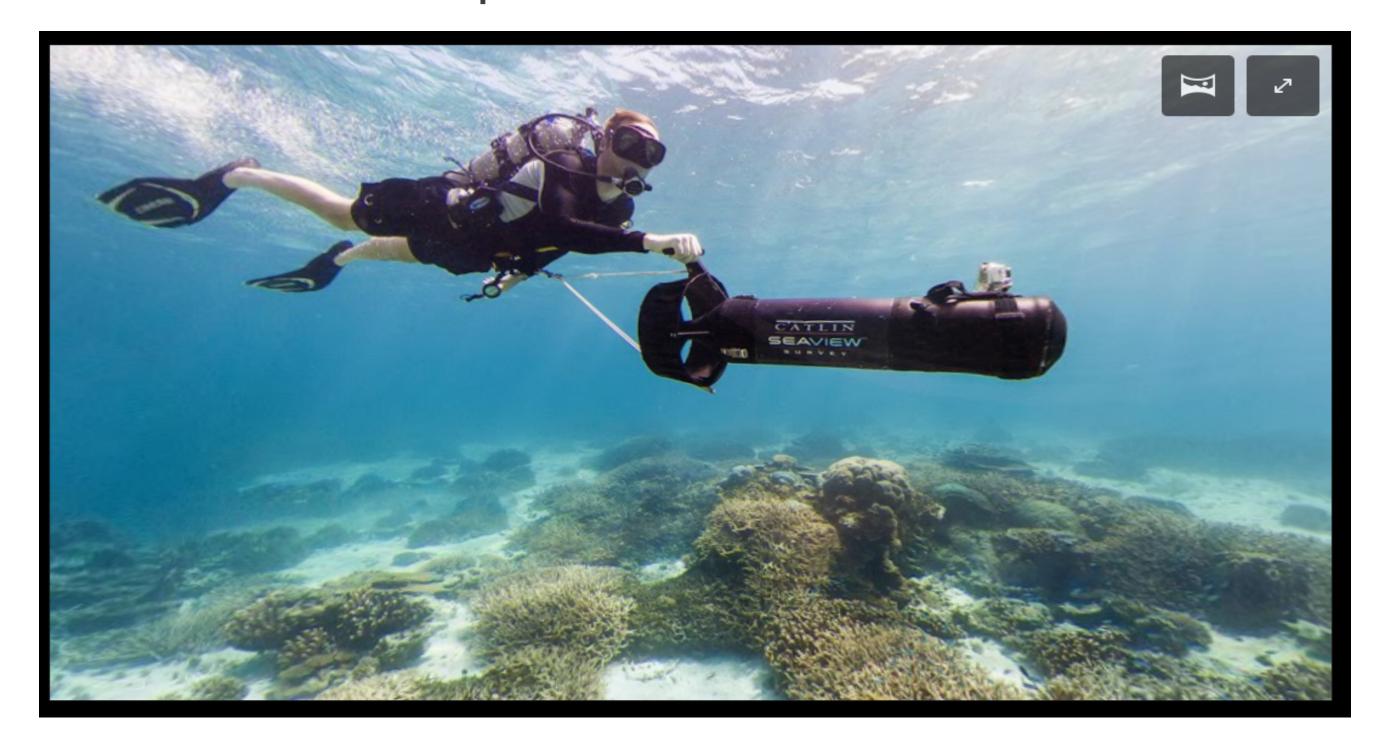


Engage with live Google Plus hangouts on air



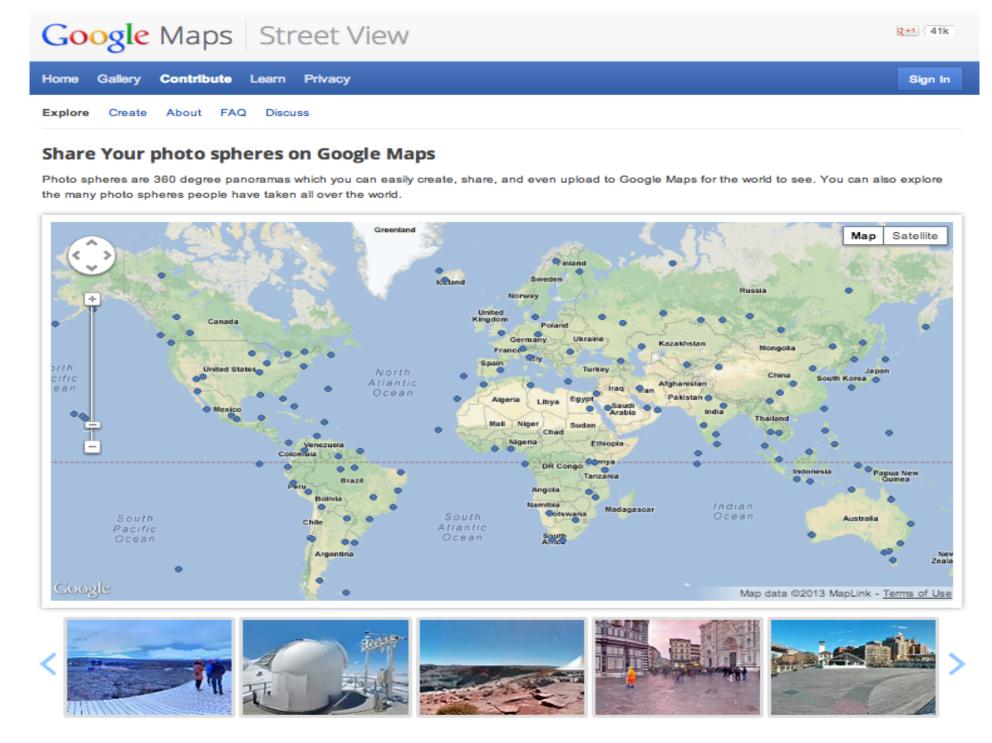


Immersive Photo Spheres





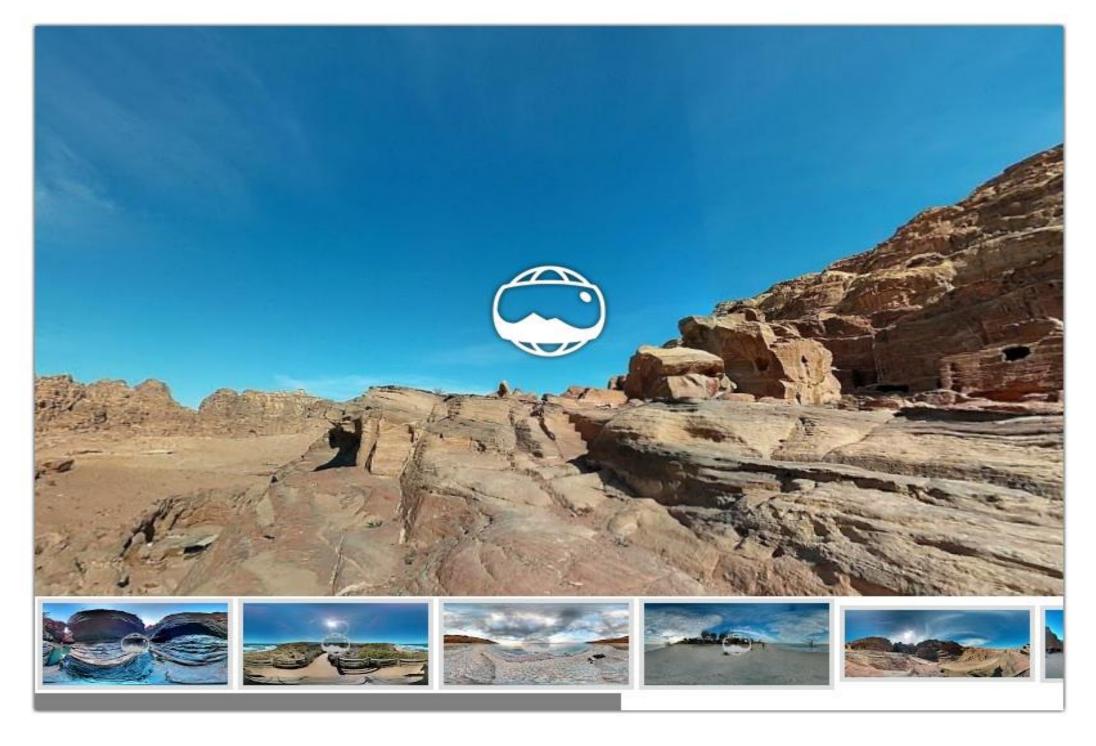
Upload Photo Spheres of the world to Maps





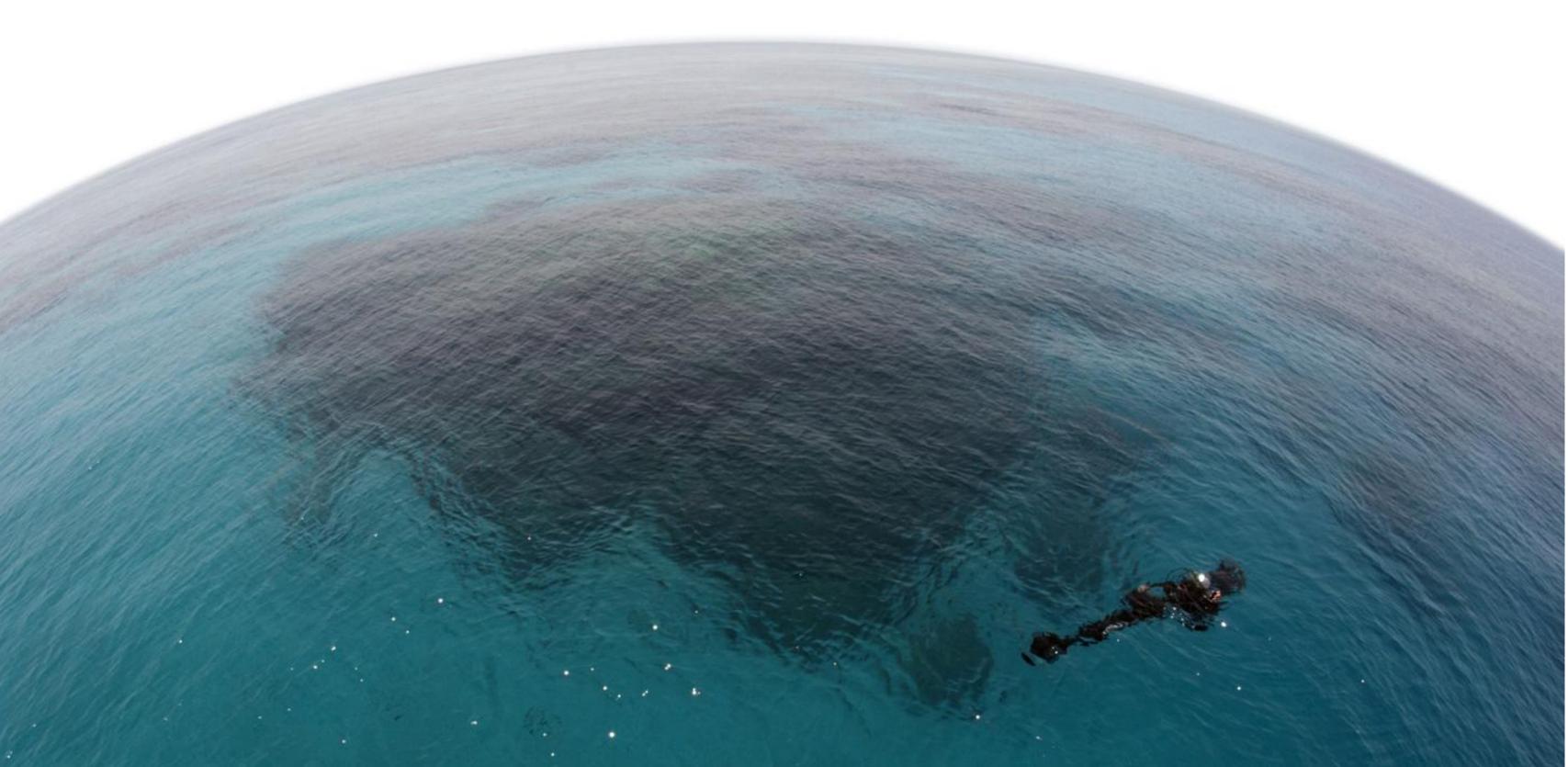


Add Photo Spheres to any website

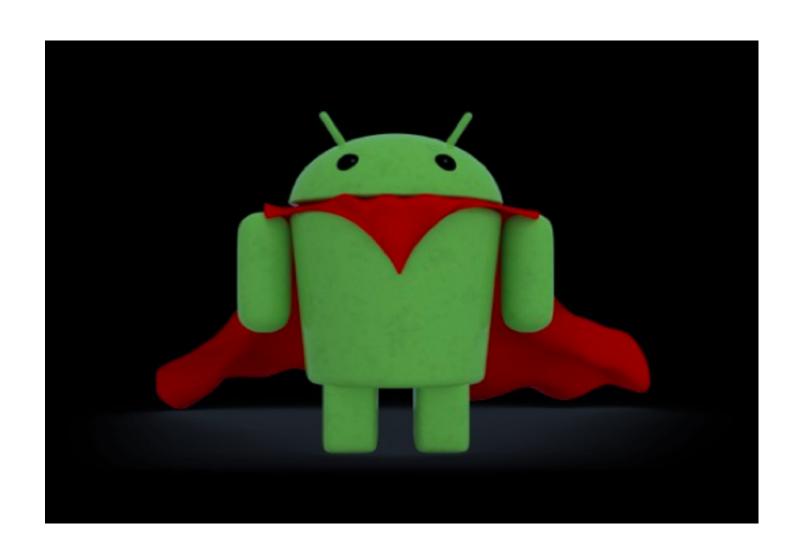




A race against time to record and reveal coral reefs

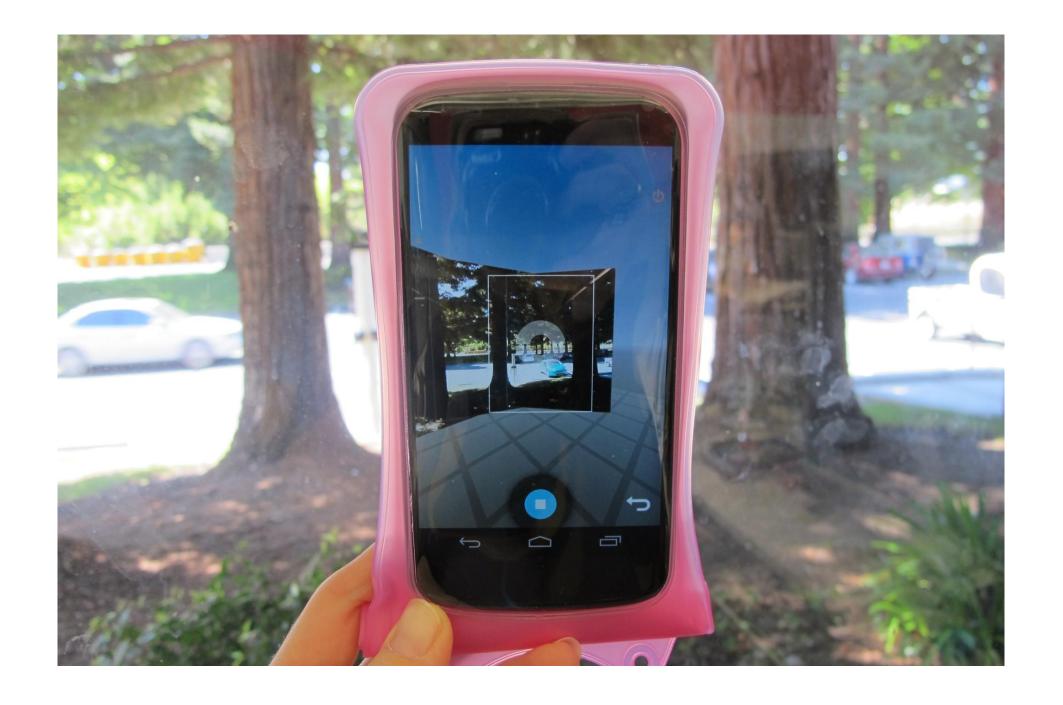


Developers are needed - technology is the solution





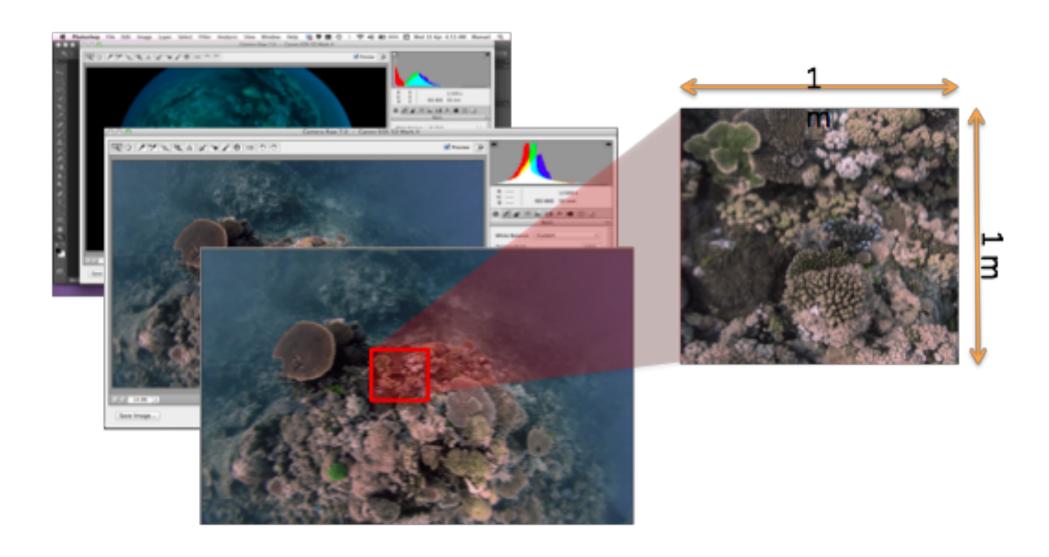
Underwater Android!





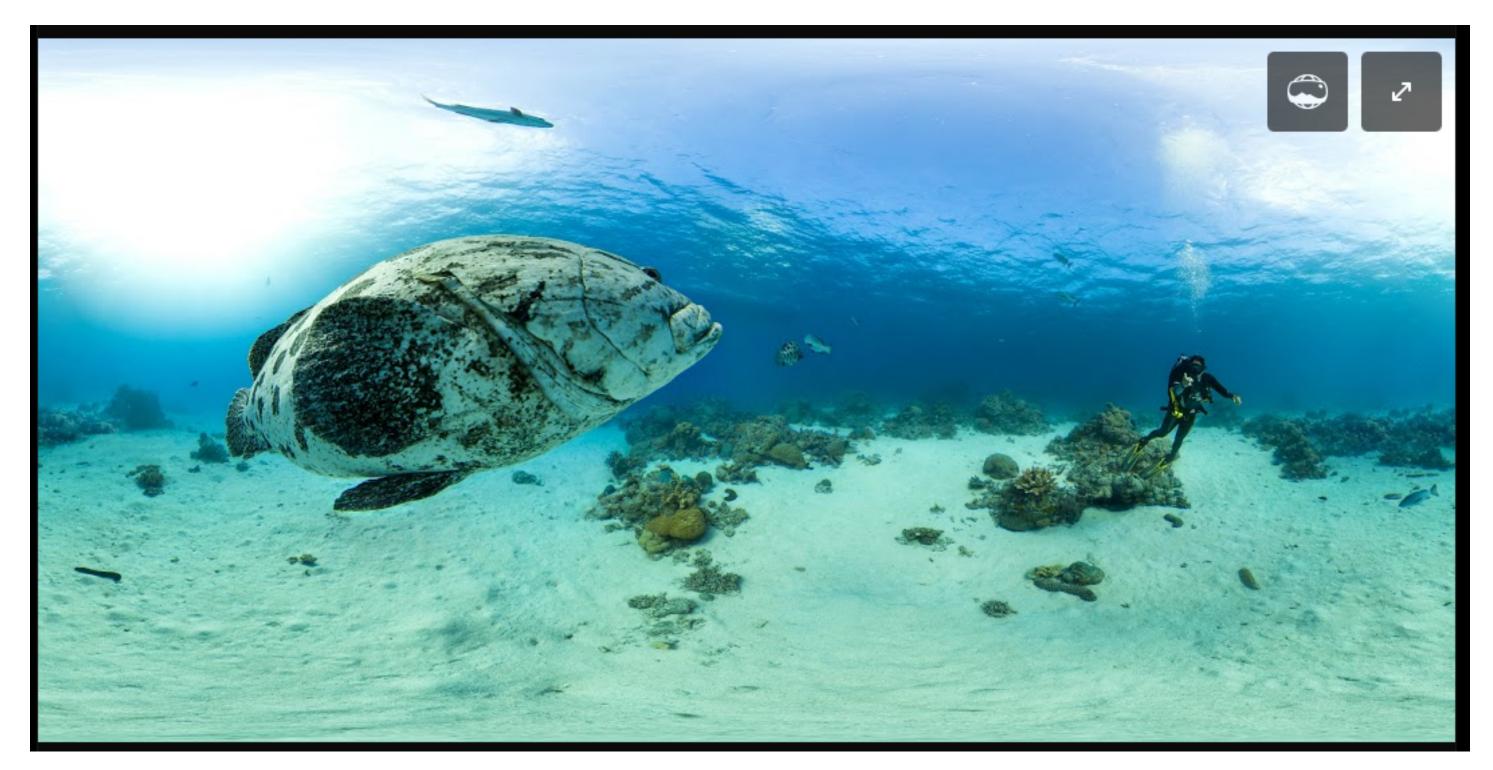
Get involved: develop reef recognition algorithms

• Diversity, textures, colors, variability in light and exposure.





Help develop the solution +catlinseaviewsurvey



Contact: catlinseaviewsurvey.com

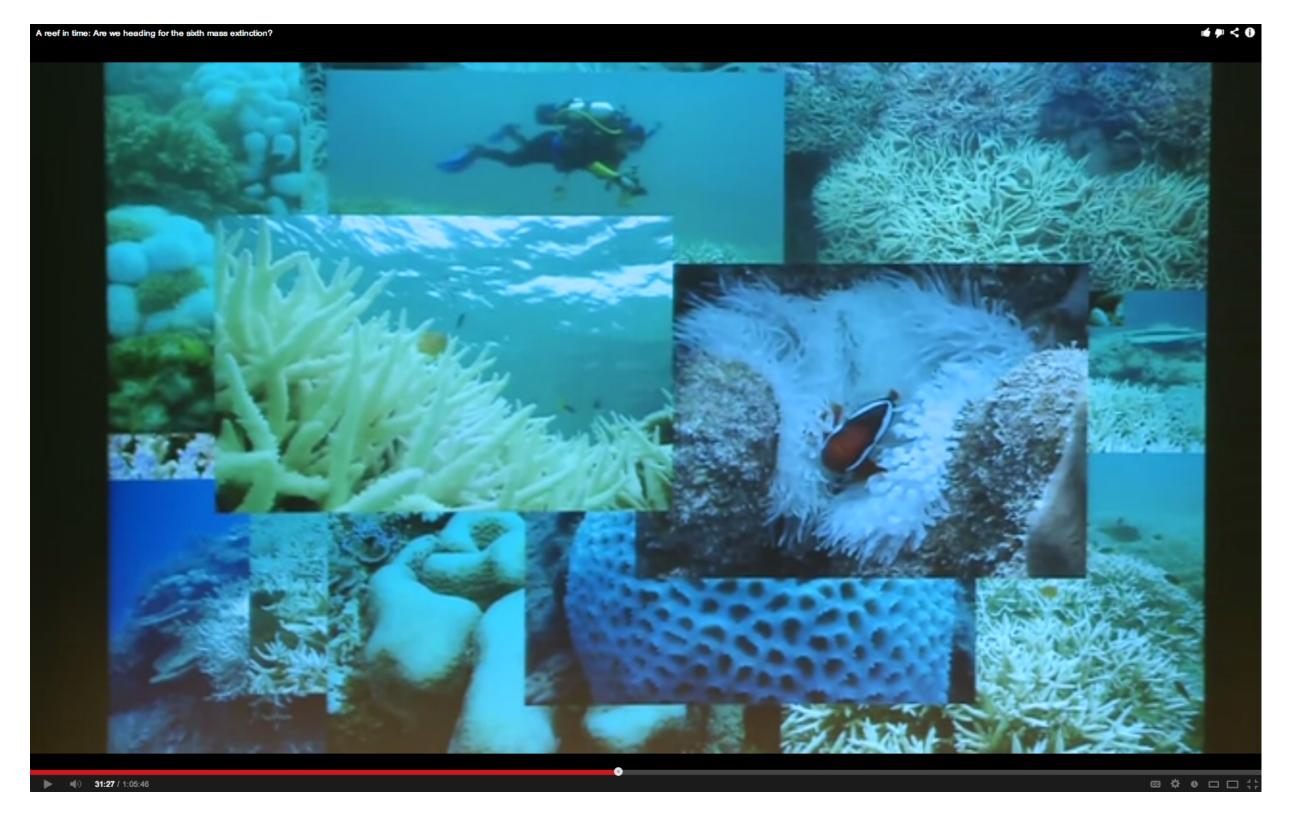




Panoramio Map



http://www.tahinaexpedition.com/map2.html



Charlie Veron: "A reef in time: are we heading for the sixth mass extinction?" http://youtu.be/7NAowjg8qFk



Add place photos to Panoramio - feature with maps api

Panoramio Layer



View this example full screen.

developers.google.com/maps/documentation/javascript/examples/layer-panoramio