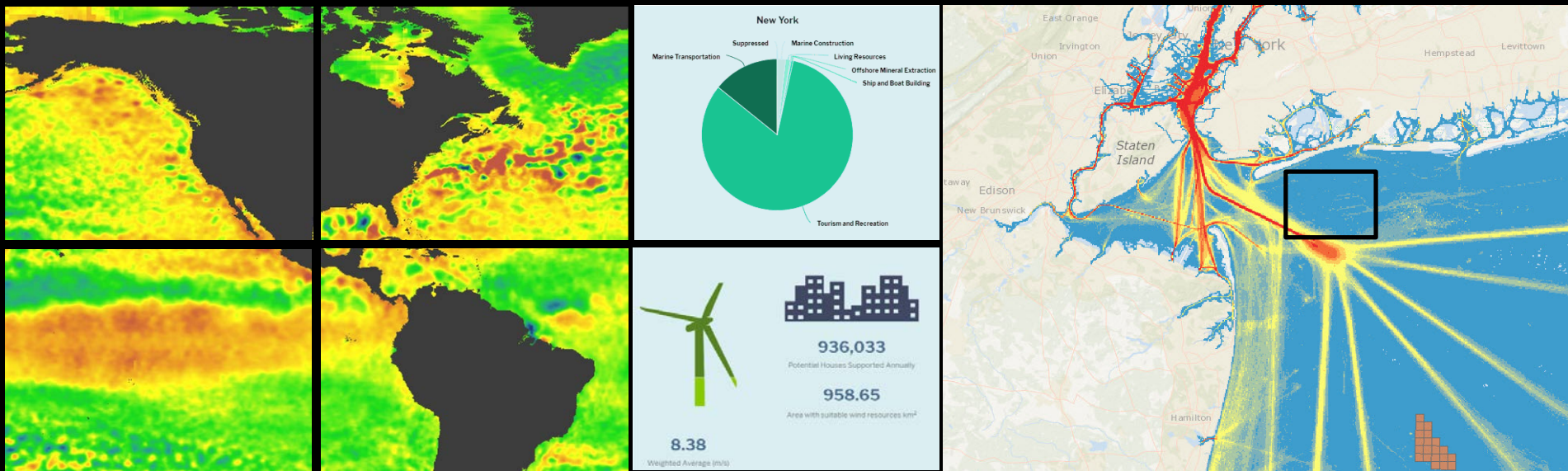




OceanReports

a MarineCadastre.gov Application

BOEM
BUREAU OF OCEAN ENERGY MANAGEMENT



Project Leadership



NOAA NCCOS



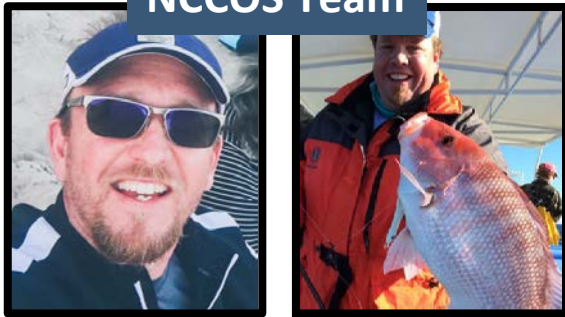
NOAA OCM



BOEM



NCCOS Team



MarineCadastre.gov



OCM Team



Imagine if . . .

You could pull up a map, draw an area, and in one second obtain a comprehensive spatial analysis and report for your area...

And do it anywhere in the U.S. EEZ.



Image credit: ALC



OceanReports

A BOEM/NOAA PARTNERSHIP

OceanReports Quick Facts

1. BOEM and NOAA partnership MarineCadastre.gov
2. Automated spatial analyses and reports
3. Over 100 data sets from MarineCadastre.gov
4. Easy-to-interpret infographics – charts, graphs, and graphics
5. Industries, consultants, planners, policy makers, and scientists
6. Designed on commercial and open-source software.
7. ***It's Lightning Fast.***

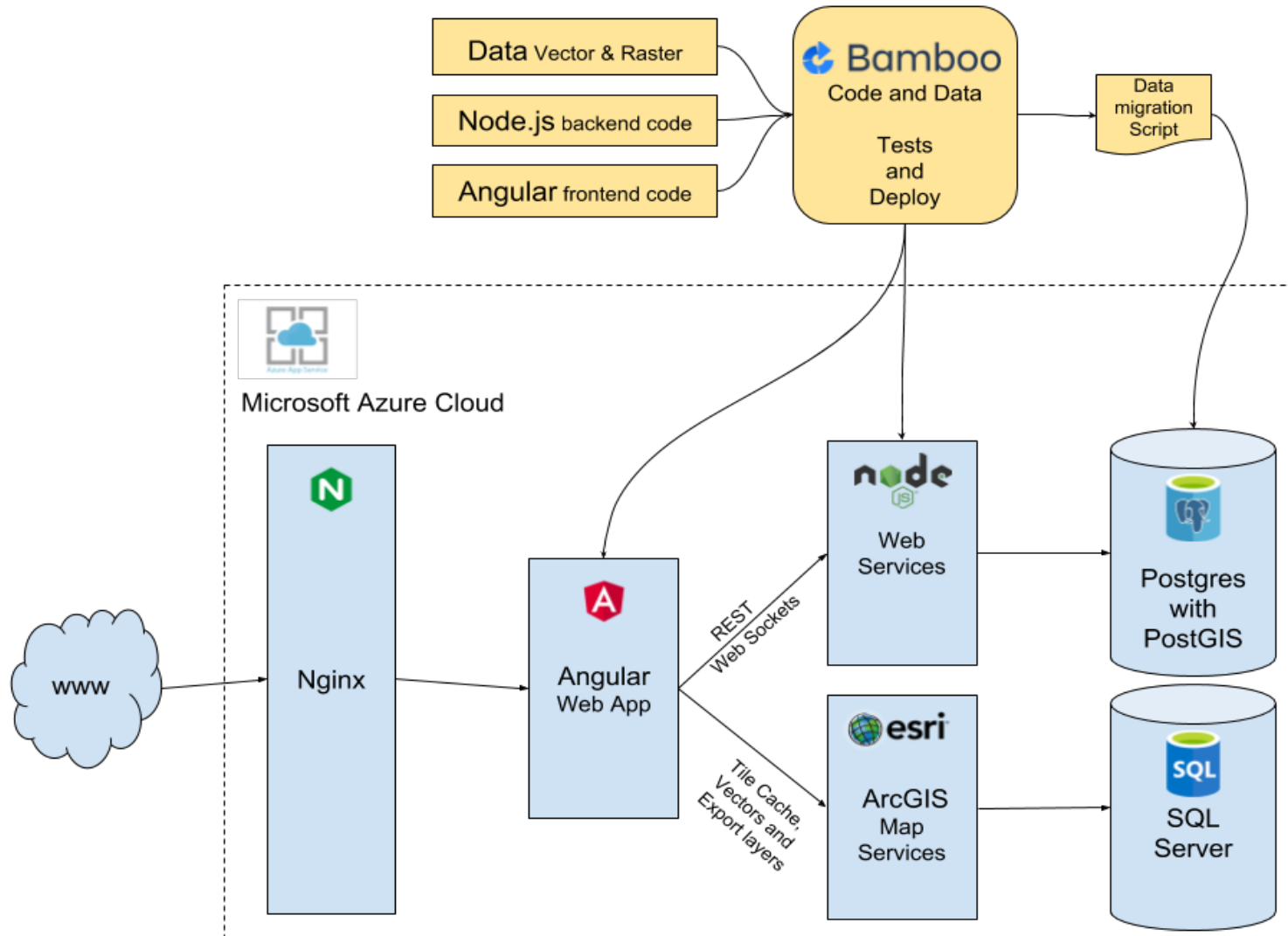


OceanReports Benefits

- Increased regulatory efficiency and transparency
- Industry, NGOs, and Gov't better informed
- All sectors save time and money
- Decreased number of permitting false starts



How'd We Pull It off?



Technology Stack

Frontend



Angular JavaScript Framework



SASS Css Design Framework



Webpack Bundler



Highcharts



Socket.io

Backend



NginX Fast Reverse Proxy



Node.js Server Runtime



Express Web Framework



PostgreSQL & PostGIS



ArcGIS Server



Sql Server

Performance

80 Infographics

using

97 Queries

on

157 Vector & Raster Layers

In

Real-time

5.5 Seconds

Average Total Time

0.3 Seconds

Average query time

Fast!!

Live Demo

Questions/Discussion?



Christine Taylor (Christine.taylor@boem.gov)

Dave Stein (Dave.Stein@noaa.gov)

James A. Morris, Jr. (James.Morris@noaa.gov)

