

A photograph of an offshore wind farm with numerous white wind turbines stretching across the horizon over a calm blue sea under a clear sky. A single green buoy is visible in the water in the foreground.

# Blue Economy

Presented by the University of Massachusetts Dartmouth Delegation  
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## What is Blue Economy

- Economic and sustainable uses of the ocean
  - Energy, fisheries, aquaculture, mining, tourism
- Economic benefits
- Provide solutions and jobs-while having a sustainable mindset
- Allocating resources

# OUR WORLD OCEAN

*provides*

## THE AIR WE BREATHE



**>50%** The ocean produces over half of the world's oxygen and absorbs 50 times more carbon dioxide than our atmosphere.

## CLIMATE REGULATION

**70%** Covering 70% of the Earth's surface, the ocean transports heat from the equator to the poles, regulating our climate and weather patterns.



## TRANSPORTATION



**76%** Percent of all U.S. trade involving some form of marine transportation.

## RECREATION



From fishing to boating to kayaking and whale watching, the ocean provides us with so many unique activities.

## ECONOMY



**\$282 billion** Amount the U.S. ocean economy produces in goods and services. Ocean dependent businesses employ almost 3 million people.

## FOOD

The ocean provides much more than just seafood. Ingredients from the sea are found in surprising foods such as peanut butter and soymilk.



## MEDICINE

Many medicinal products come from the ocean, including ingredients that help fight cancer, arthritis, Alzheimer's disease, and heart disease.





## Environmental Impacts

- Nutrient pollution
- Maritime transport

# MAPPING OCEAN WEALTH

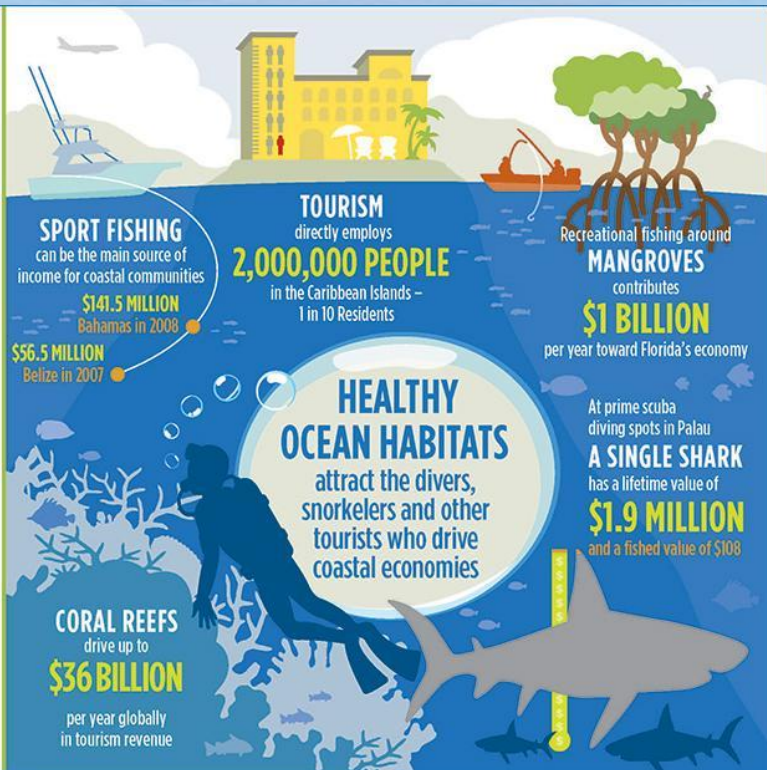
## TOURISM

Ocean habitats provide scuba diving, fishing and other recreational opportunities that attract tourists from around the world.

Coastal communities, planners and the tourism industry should protect and restore the habitats that drive local economies.

Mapping Ocean Wealth demonstrates what the ocean does for us today so that we maximize what the ocean can do for us tomorrow.

[oceanwealth.org](http://oceanwealth.org) @ocean\_wealth



- Nutrient pollution
- Maritime transport
- Coastal tourism



## Environmental Impacts

- Nutrient pollution
- Maritime transport
- Coastal tourism
- Marine based blue energy
- Maritime mineral resources
- Blue biotechnology



## Umass Dartmouth's Involvement

- **Forming/HQing the SouthCoast Development Partnership**
  - **Collaborating with regional entities**
    - **Ex: Cape Cod Commission, Chambers of Commerce, EOHEd, etc.**
- **Utilizing existing internal resources to bolster growth**
  - **Maritime focused studies for students**
  - **Experts in their fields**
  - **Advanced facilities (SMAST)**
- **Forming a new Marine Environmental Research Innovation and Technology (MERIT) Center**
  - **Better focus existing resources for a singular purpose**
- **Developing new degree and training programs**



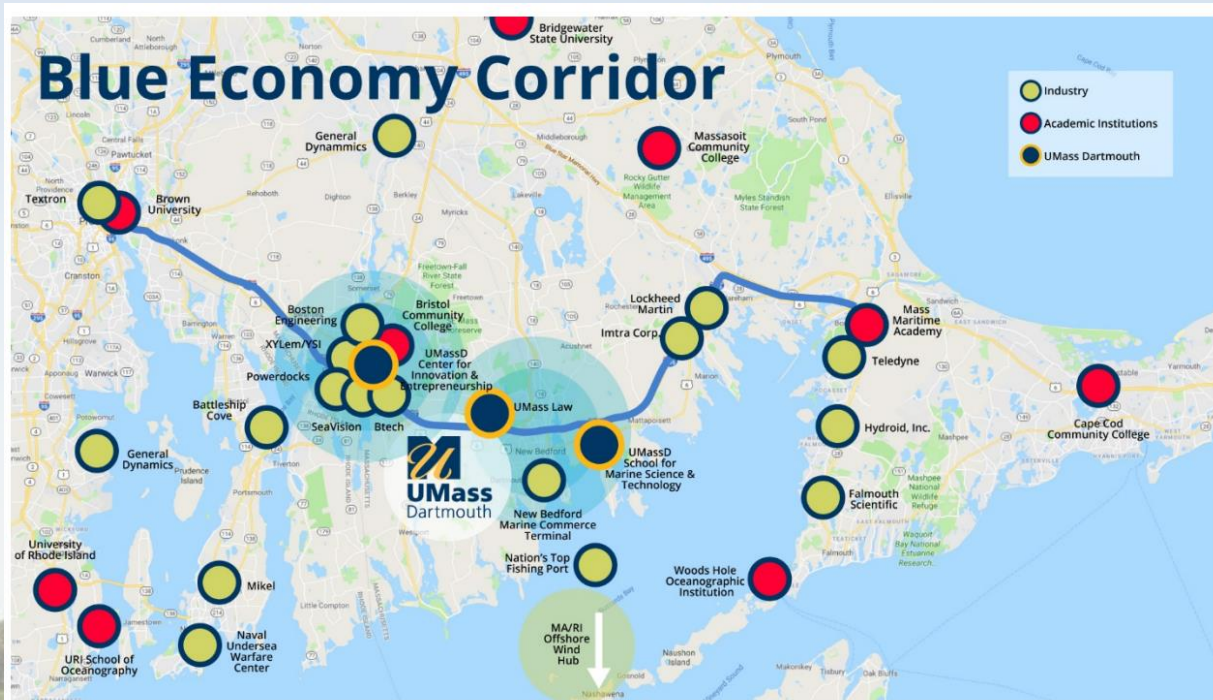
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- **Holding conferences with regional leaders**
- **Collaborating further with academic/occupational forces**



This map illustrates the major blue economy assets of the SouthCoast region and its neighbors to the east (Cape Cod) and west (Rhode Island).

- The SouthCoast is a hub for the Maritime (or Blue) economy
- These Blue assets along the coast make the “Blue Economy Corridor”
- UMassD and the SouthCoast Development Partnership aim to collaborate more holistically to more efficiently utilize these assets and create a stronger “Blue” economy



## How This Impacts Our Region

- Creation of Jobs in fields that did not previously exist
  - Including construction jobs in building wind turbines, research positions, new technology.
- New Training needed for employees
- Reimagining the way the businesses interact with the ocean
- Creates a sustainable wealth for future generations
- Collective effort by region to innovate solutions
- Developed a culture and identity around blue economy.(make it a value of everyone)