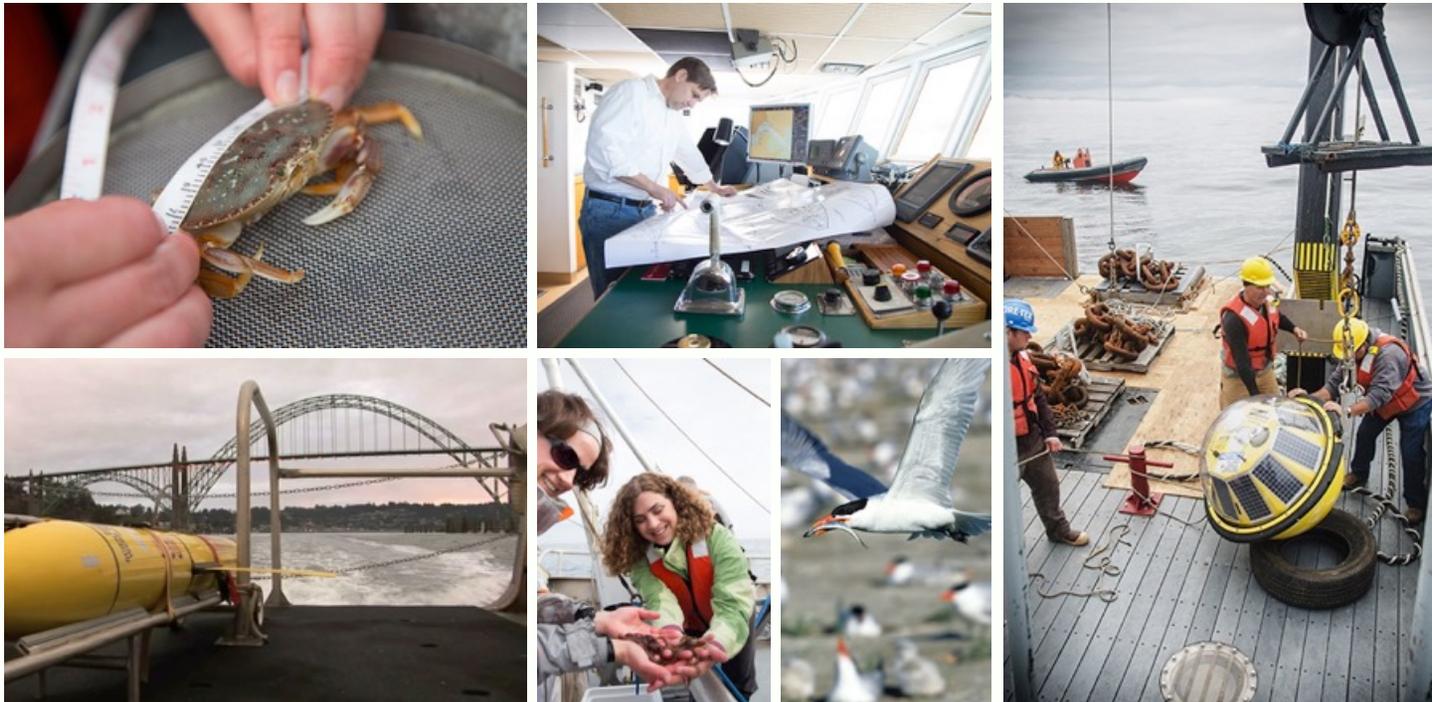




Hatfield Marine Science Center and the Marine Studies Initiative

Bob Cowen, HMSC Director



Presentation to: Oregon Sustainability Board

April 7, 2016

OSU - Hatfield Marine Science Center

Where we are today

Summary statistics -

- Number of people at HMSC:
 - OSU – 140
 - Agencies – 160
- Agencies: Six
 - (NOAA, USEPA, USFW, USDA, USGS, ODFW)
- Colleges represented:
 - COS, CAS, CEOAS, COE, COEd, CVM
- Centers and Institutes:
 - OSG, COMES, CIMRS, MMI
- Research \$\$: ~\$45M (2013)
 - OSU - ~ \$21M
 - Agency - ~ \$24M
- Student numbers:
 - 50-75 undergraduates
 - 30 graduate students
- Student Scholarships
 - ~\$90,000 yr
- Internships/REUs:
 - 35-40 per year
- Visitors:
 - 150,000 per yr
 - K-12 kids taught -- >40,000 per yr



Recipe for Success

- Collaborative environment
 - OSU – Agency partners on site
 - Close association and regular contact
 - Shared students
 - Hallway conversations
 - Seminars
 - Coffee and donuts!
- Land Grant College “Ethos”
 - Solve Problems
 - Apply science and scholarship
 - Innovation
 - Partner with community stakeholders



HMSC Partners

Port of Newport
Port of Toledo
Fishing Community
Chamber of Commerce (Newport, Lincoln City)
Rotary Clubs
Confederated Tribes of the Siletz Indians

Economic Development –
Yaquina Bay Economic Foundation
Economic Development Alliance of Lincoln County
Business Oregon
Oregon RAIN (Regional Accelerator and Innovation Network)

Science on Tap –
Rogue Brewery (*)
Twisted Snout
Bier One

Education –
Oregon Coast Community College
Southwest Oregon Community College
Tillamook Community College
Clackamas Community College
Portland State University
University of Oregon

Lincoln County School District
STEM Hub K-12
ROV Mate program
Salmon Bowl (Ocean Studies Bowl)

Free Choice Learning -
Oregon Coast Aquarium
OMSI Camp Gray
Northwest Ecotours

Public Officials –
Newport City Council
Newport City Manager
Lincoln County Commissioners
Tillamook County Commissioners
Oregon Coastal Caucus
Governor's Office –
Gabriella Goldfarb

Congress –
Schrader
Defazio
Bonamici

Senate –
Markley
Wyden

Government Entities – Emergency Preparedness
Police, State Patrol, Sheriff
City, County, State and Federal
Emergency Planning

Economic Development/Impacts

- Salaries to personnel – homes, food, recreation, tax revenue...
- Activities – building construction and maintenance; research supplies and equipment; Ship operations





R/V Oceanus

Oregon State
University,
Ship
Operations

Current Cruise Preparation:

- Fire Certification
- Refrigeration Technician
- Sheet Metal Fabrication
- Plumber
- Electrical Supplier
- Welders
- Machinists
- Rental Cars
- Marine Suppliers
- Food Purveyors
- ABS certification
- Fuel
- Engineering Supplies
- Etc.

Economic Development/Impacts

- Salaries to personnel – homes, food, recreation, tax revenue...
- Activities – building construction and maintenance; research supplies and equipment; Ship operations
- Science Applications –
 - MBP
 - OA
 - Bycatch
 - OOI
 - Project Croos
 - Dulse



Case Studies – Oyster Aquaculture

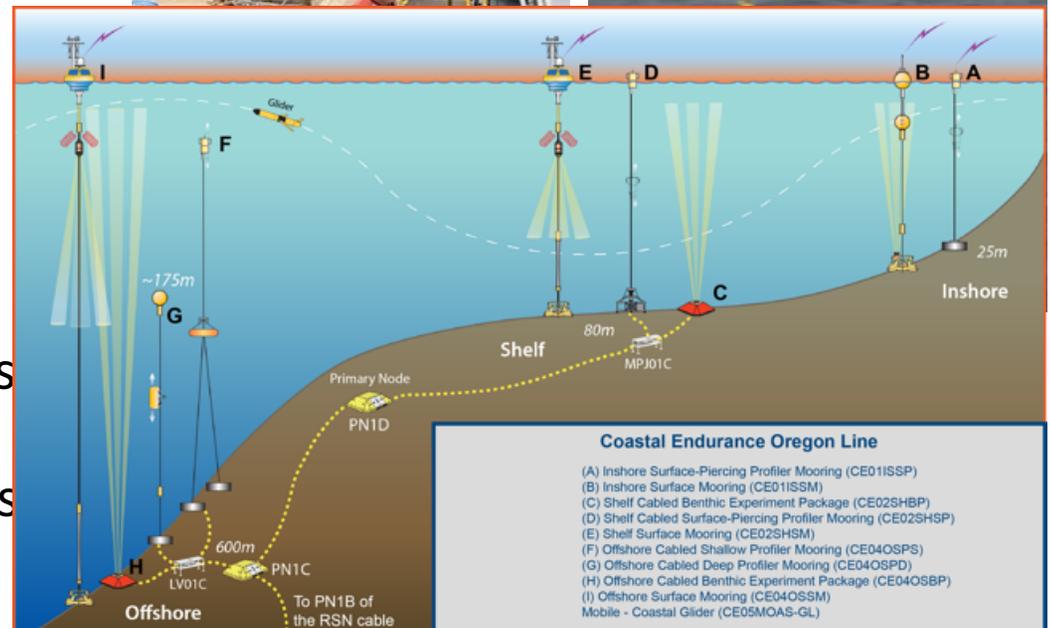
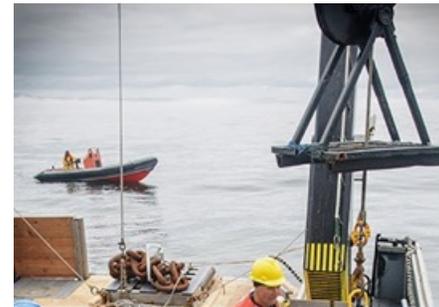
- Molluscan Broodstock Program
- Ocean Chemistry
- Whiskey Creek Hatchery

- Results to Oyster Industry - \$30M



Case Studies - OOI

- \$300M NSF investment – ocean observing network
- Deployment – mooring construction and cable placement
- Needs – technical work force, support engineering companies, new sensor development, data management and data analytics



Case Studies - Dulse

- Algal culture needed for feeding marine snails (e.g. abalone)
- *Palmaria sp.* - red algae
- Create strain that is clean and fast growing (economically preferred for aquaculture needs)
- Surprise – Tastes like ‘BACON’
- Health foodies BIG market



Looking to the Future – Marine Studies Initiative



Marine Studies Initiative Goals

Goal 1. Provide a transformational educational experience centered on marine studies.

Goal 2. Advance leadership in transdisciplinary marine research and scholarship.

Goal 3. Increase societal impact from marine studies in Oregon and beyond.



Process – From Working groups to Strategic Plan

Provost/VP Research → Cowen/Barth

Executive Committee

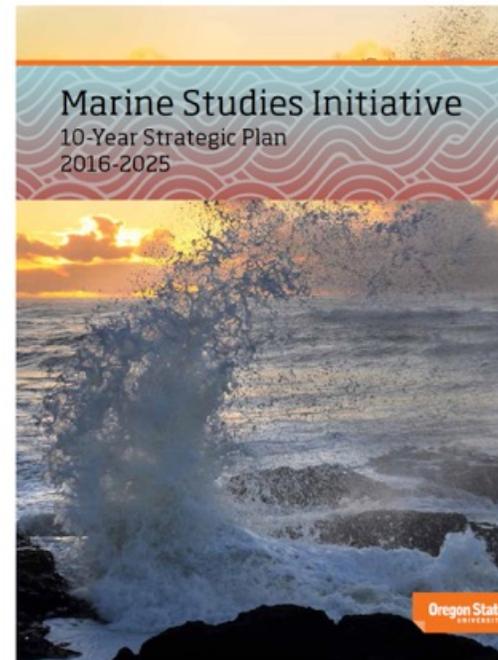
Working Groups

- Learning Models
- Research
- Outreach, Extension, Partnerships
- Faculty Governance
- Financials/Facilities/Infrastructure
- Marketing/Branding
- Fundraising/Government Relations

Group Retreat

Synthesis

Strategic Plan



Implementation – Steps to Distinction

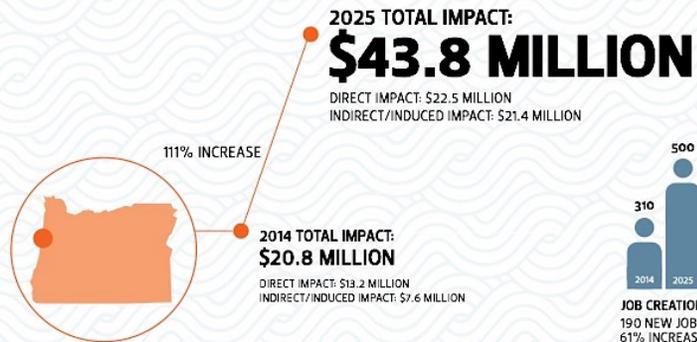
- Academic Program Development
- Research Enhancement
- Partnerships
- Faculty Hires
- Planning for Newport Expansion
 - Marine Studies Building
 - Student Housing
- Fundraising
- Future plans



Marine Studies Initiative Economic Impact in Oregon

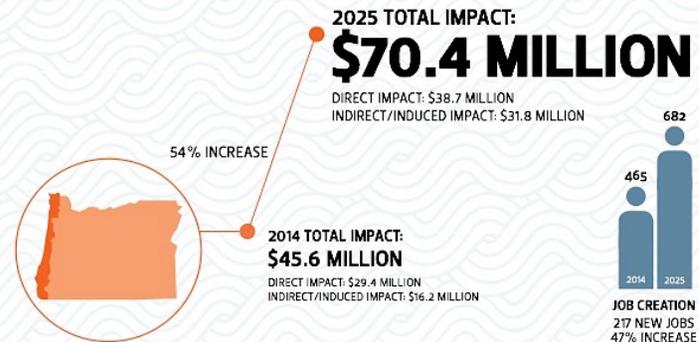
NEWPORT ECONOMIC IMPACT

Oregon State University's economic contributions in Lincoln County



COASTAL ECONOMIC IMPACT

Oregon State University's economic contributions in Curry, Coos, Lincoln, Tillamook and Clatsop Counties.



CONSTRUCTION IMPACT OF MSI ACADEMIC/RESEARCH CENTER

	NEWPORT	STATEWIDE
ECONOMIC IMPACT:	\$74.7 MILLION	\$94.4 MILLION
JOB CREATION:	458 JOBS	581 JOBS

CUMULATIVE IMPACT OF MSI OVER 10 YEARS

NEWPORT	OREGON COAST	CORVALLIS	STATEWIDE
\$113.9 MILLION	\$122.8 MILLION	\$144.7 MILLION	\$282.5 MILLION

SOURCE: ECONorthwest analysis of 2014 Oregon State University expenditure data, student enrollment data; 2013 Oregon Travel Impacts Study/Dean Runyon and Associates; and predicted Oregon State University expenditure data and student enrollment for 2025.