

# Enabling Exploration

Frank Cantelas

Acting Deputy Director



# Implementation Plan

1. Make discoveries of scientific, economic, and cultural value
2. Promote technological innovation to advance ocean exploration
3. Provide public access to data and information
4. Expand the national ocean exploration program through partnerships
5. Encourage the next generation of ocean explorer, scientists and engineers
6. Organizational excellence - not in current Strategic Plan

# Example of Success Indicators

**1.0 GOAL: Make discoveries of scientific, economic, and cultural value, with priority given to US EEZ/ECS**

**1.1 OBJECTIVE:** Map Ocean Basin Features of Interest

**1.1.A SUCCESS INDICATOR:** Acquired sonar-based bathymetry at a minimum resolution of 100 meters for 100 percent coverage of areas greater than 200 meters depth within the U.S. EEZ by 2013

**1.1.B SUCCESS INDICATOR:** Acquired multibeam backscatter in support benthic habitat and water column characterization in areas greater than 200 meters depth within the U.S. EEZ.

**1.1.1 ACTIONS:** Develop and execute on a comprehensive mapping strategy to identify and fill gaps in unmapped areas

**1.1.2 ACTIONS:** Produce comprehensive multibeam and seafloor backscatter coverage maps

**1.1.3 ACTIONS:** Establish internally consistent tracking and reporting standards, methodologies to track and report progress

# OER Performance Measures

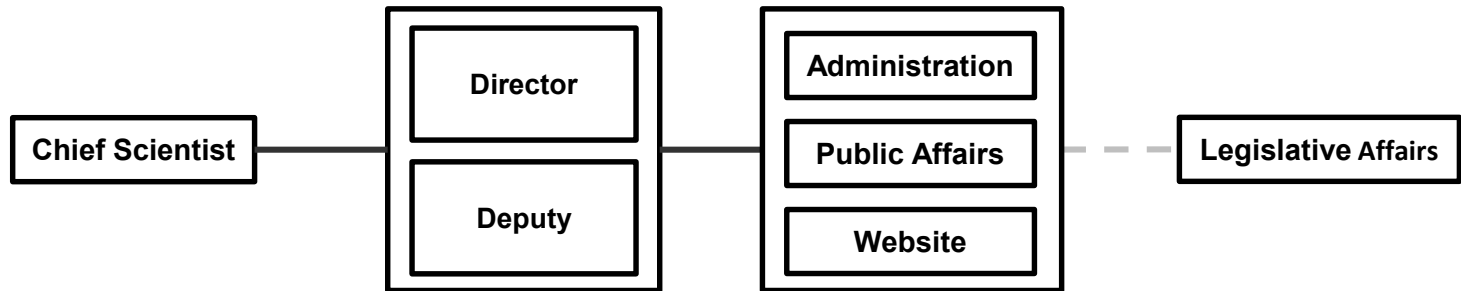
- Annual number of ocean exploration expeditions
- Annual number of products aimed to engage diverse audiences to enhance understanding of ocean science literacy
- Number of educators in professional development programs
- Percent of time quality controlled data from NOAA Ship *Okeanos Explorer* are delivered to a NOAA data center within 90 days of completion of associated expedition

# OER Performance Measures (GPRA)

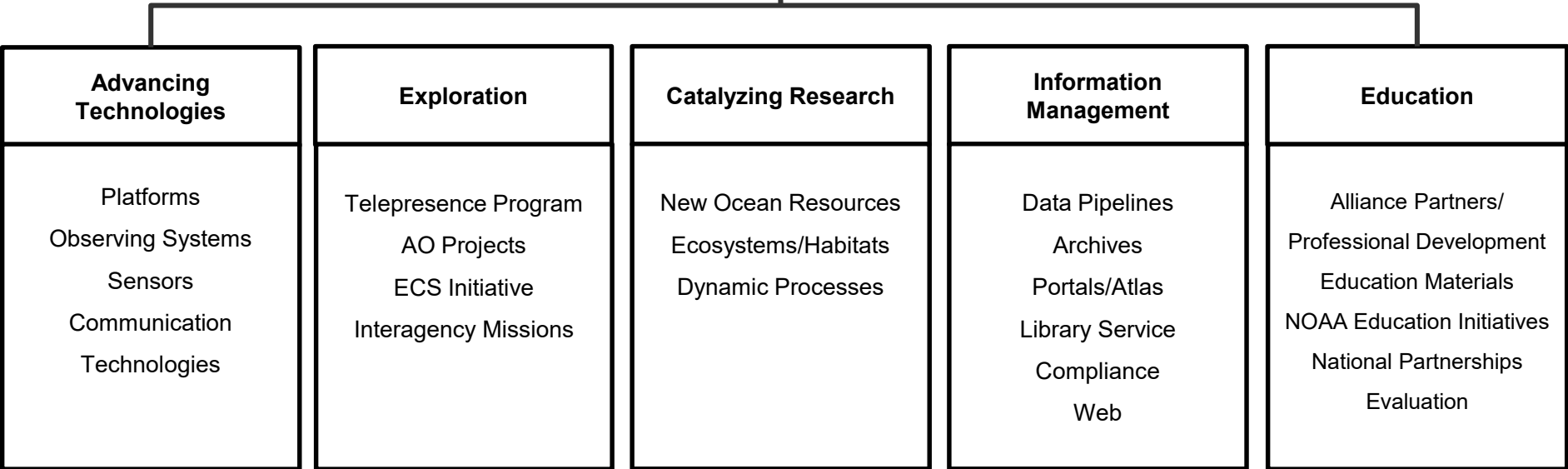
## Government Performance and Results Act (GPRA) Measures:

- Cumulative percent of deepwater ocean (>200m) U.S. Exclusive Economic Zone mapped (OER)
- Annual number of sites characterized in the U.S. Exclusive Economic Zone
- R2A Index: Annual number of research and development products transitioned to a new stage(s) (development, demonstration, or application)
- Number of publications produced as a result of OER supported expeditions

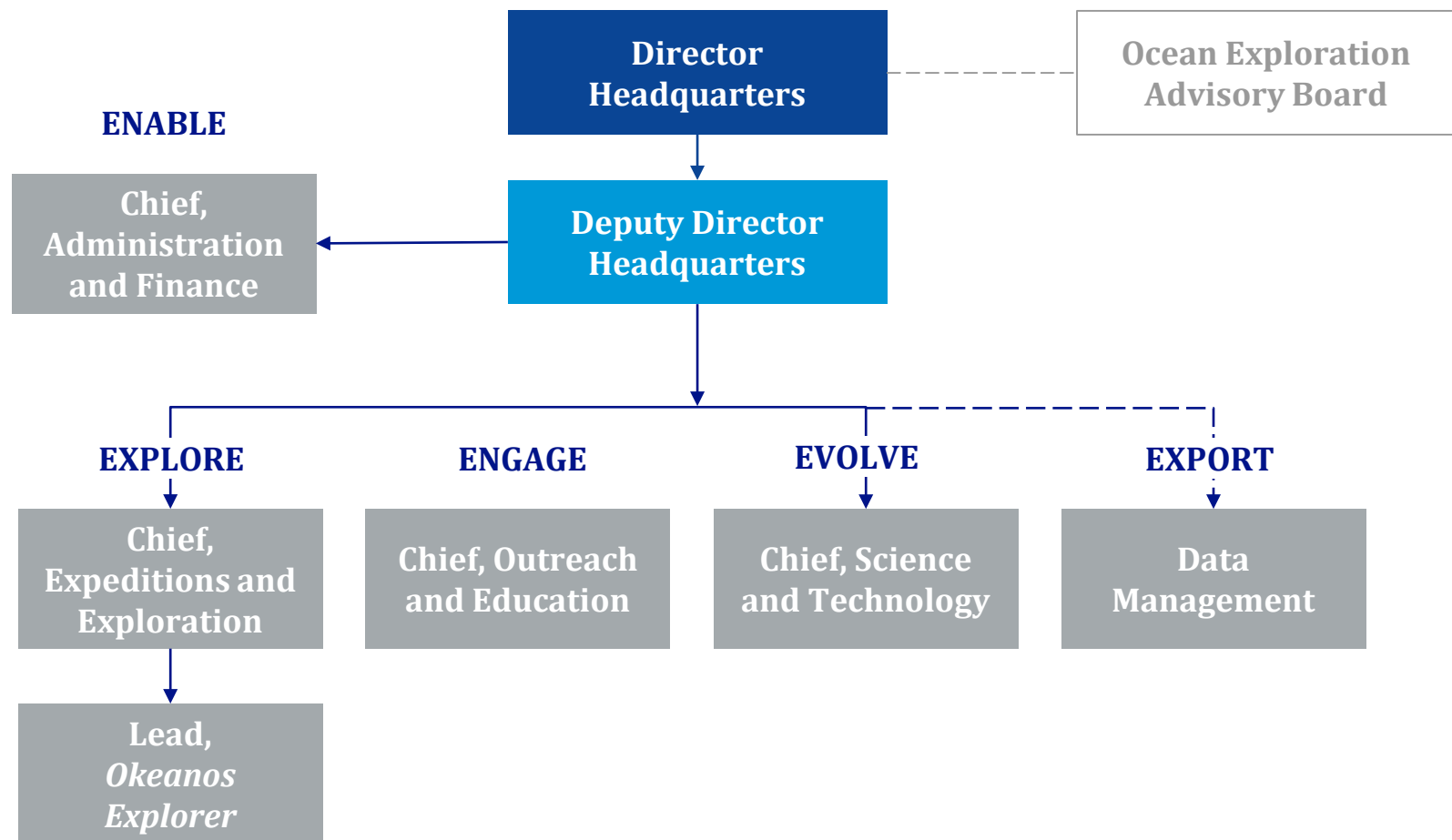
# OER Office Structure (ca. 2013)



## Product Lines of Business



# OER Office Structure (2015-Now)



# Mechanisms for OER Staffing

Mechanism	Current # of Staff
Federal hires (multiple types)	16
Contracts	20
Cooperative agreements (UCAR)	2
Intergovernmental personnel agreements (IPA)	2
Sea Grant Knauss Fellowship Program	1
Presidential Management Fellows Program (PMF)	1
Details (e.g., NOAA Leadership Competencies Development Program, NOAA Rotational Assignment Program)	1
NOAA Corps	1
Cooperative Institutes	--



# How OER Enables Exploration

- Grants and cooperative agreements
  - Annual competitive grants/Broad area announcement
  - Cooperative institutes
- Contracts
- Agreements
  - MOU/MOA
  - Cooperative Research & Development Agreements
- OMAO fleet allocation process
  - NOAA Ship *Okeanos Explorer* and other NOAA platforms
- Partnerships
  - Ocean Exploration Trust
  - Global Foundation for Ocean Exploration
- Alliances
  - Schmidt Ocean Institute

# 2001-2020 Budget History of the

## NOAA Office of Ocean Exploration & Research

in Exploration  
Research



President's Request



House



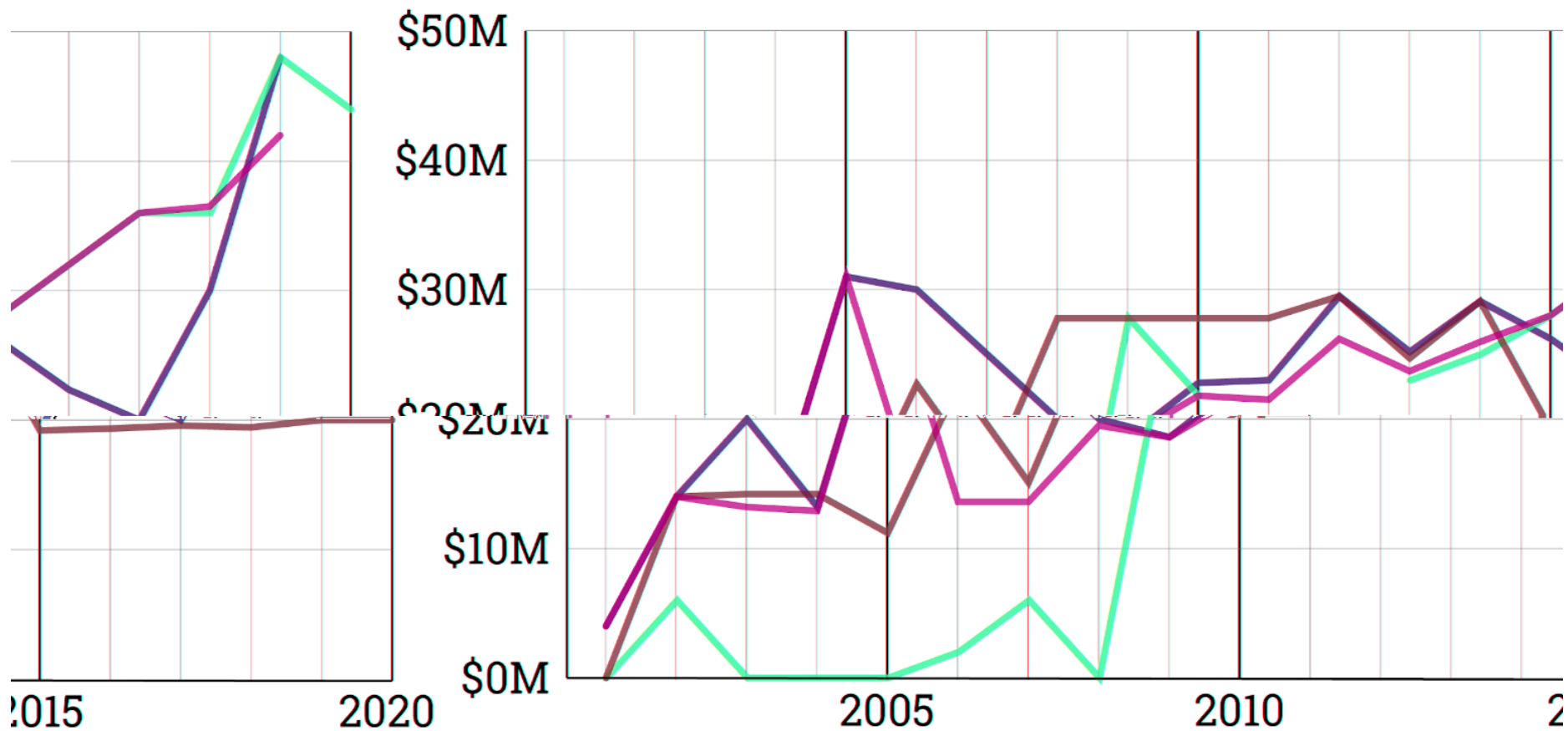
Senate



Ocean  
and

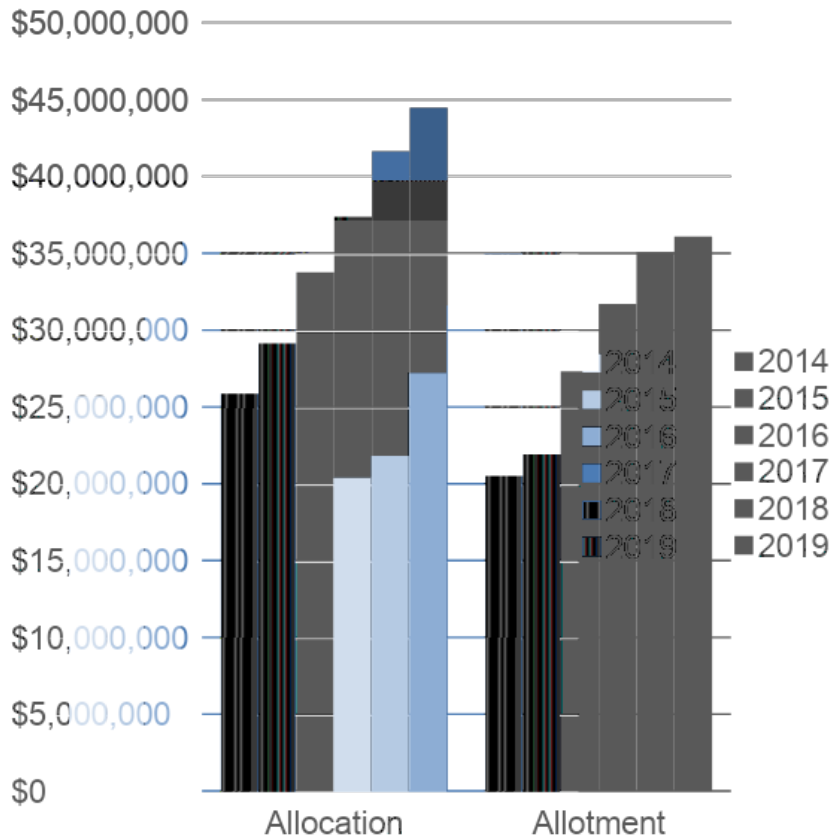
Ena

ected



# OER Budget FY2014-2019

## Variance



## Allocation vs Allotment

**FY2014** \$25,870,384 vs \$20,501,025

**FY2015** \$29,136,885 vs \$21,908,732

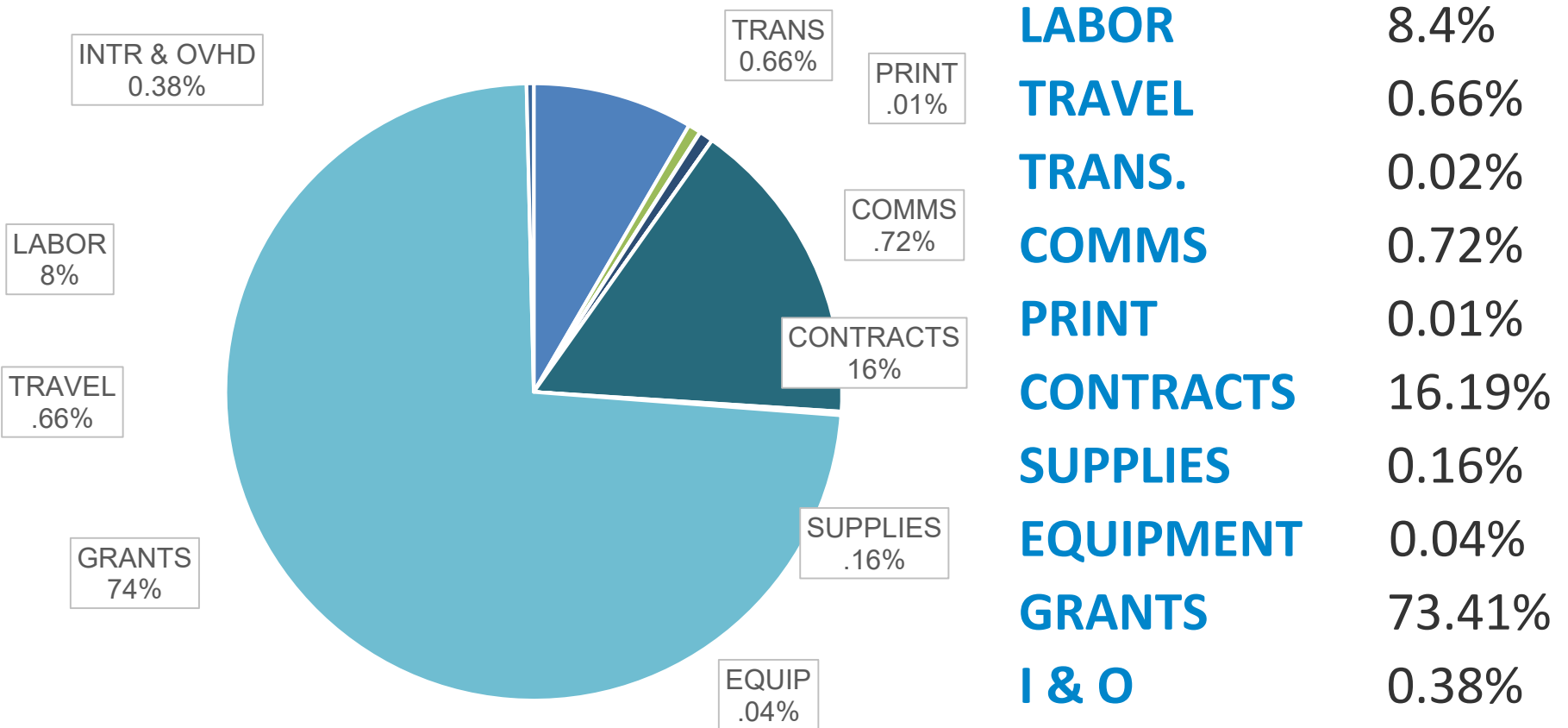
**FY2016** \$27,318,944 vs \$33,765,129

**FY2017** \$37,367,956 vs \$31,715,083

**FY2018** \$41,638,173 vs \$35,078,333

**FY2019** \$44,480,279 vs \$36,097,964

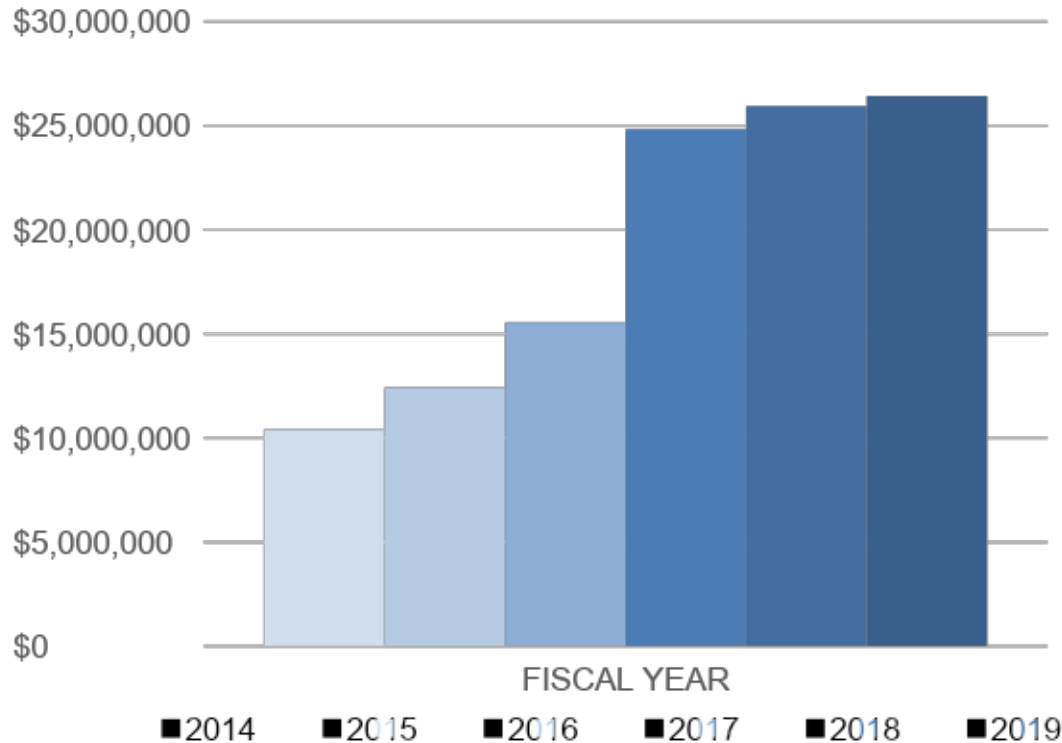
# OER FY 2019 Funds Distribution



<b>LABOR</b>	8.4%
<b>TRAVEL</b>	0.66%
<b>TRANS.</b>	0.02%
<b>COMMS</b>	0.72%
<b>PRINT</b>	0.01%
<b>CONTRACTS</b>	16.19%
<b>SUPPLIES</b>	0.16%
<b>EQUIPMENT</b>	0.04%
<b>GRANTS</b>	73.41%
<b>I &amp; O</b>	0.38%

# OER Grants Growth Trends

## Grants Execution



**FY2014** \$10,408,381

**FY2015** \$12,431,483

**FY2016** \$15,545,480

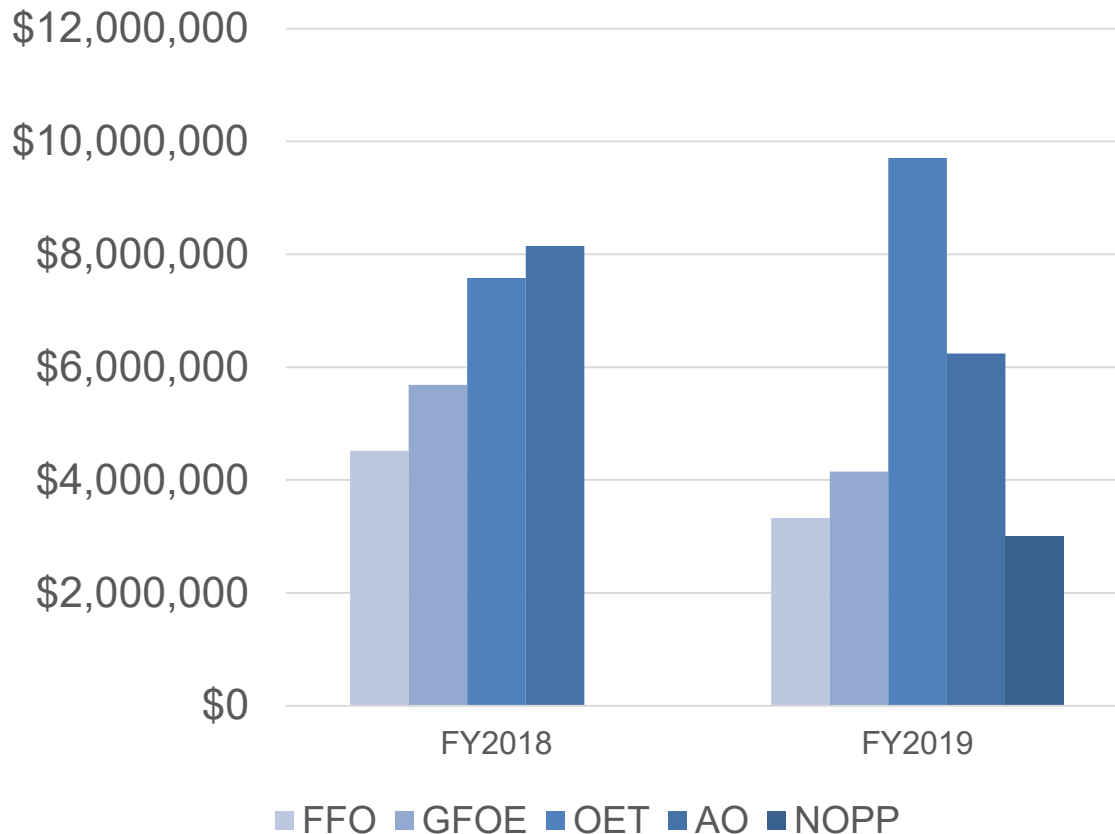
**FY2017** \$24,824,574

**FY2018** \$25,930,763

**FY2019** \$26,429,663

# OER 2018-2019 Grants Distribution

## Grants Distribution



## 2018

**FFO** \$4,519,928

**GFOE** \$5,685,000

**OET** \$7,580,000

**All Others** \$8,145,835

## 2019

**FFO** \$3,326,239

**GFOE** \$4,151,665

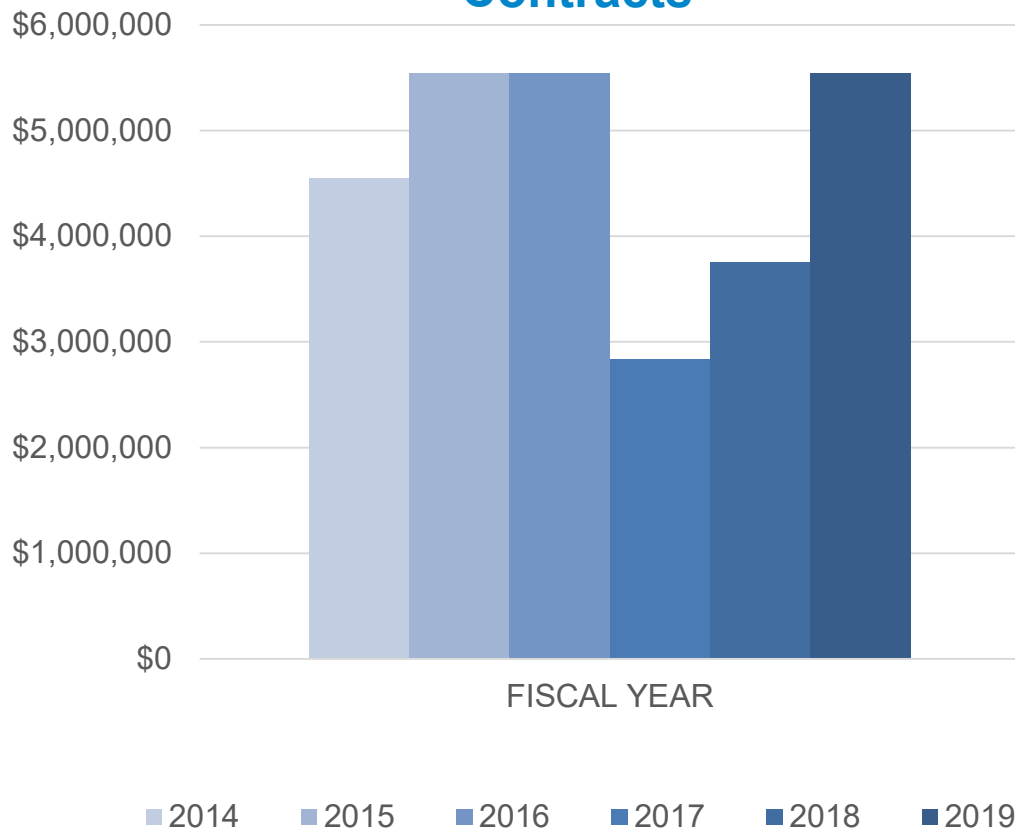
**NOPP** \$2,999,800

**OET** \$9,708,000

**All Others** \$6,243,959

# OER Contracts

Contracts



**FY2014** \$4,544,580

**FY2015** \$5,538,194

**FY2016** \$5,544,048

**FY2017** \$2,834,672

**FY2018** \$3,753,033

**FY2019** \$5,541,529

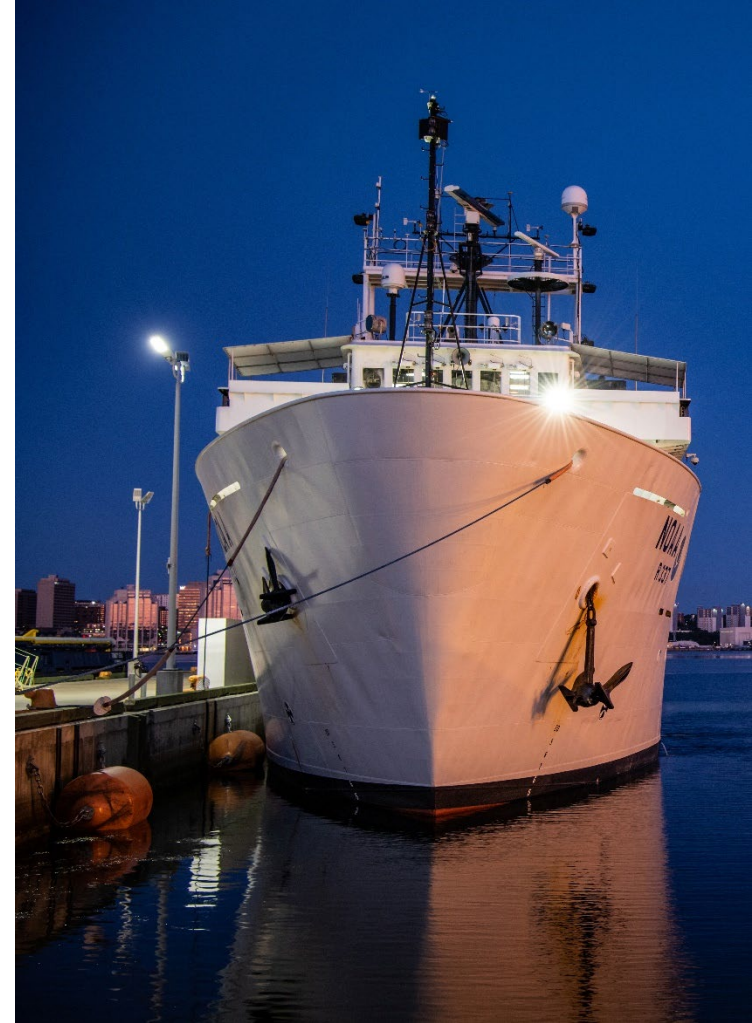
# OER Internal Controls

- Annual review of processes and procedures
  - Budget execution, grants, credit cards, property
- Periodic audits of Administrative team's expenditures
  - Example: Audit of internal controls for grants
  - Resulting review of the grant process and internal financial controls resulted in in NO findings and NO recommendations
- New process to conduct financial and scientific audits of grant recipients starting with institutions with large, multiyear awards



# Looking to OER's Future

- NOAA Ship *Okeanos Explorer* end of life
- Ocean Exploration Cooperative Institute
- New business models
  - New technologies
- Growing staff



OceanExplorer.NOAA.gov



**Ocean Exploration  
and Research**

