

IWG-FI Activities Update to UNOLS Council

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Fleet Status Report (FSR)

- Executive Order (STEWARDSHIP OF THE OCEAN, OUR COASTS, AND THE GREAT LAKES) signed by President Obama on July 19, 2010
- Directs executive agencies to implement recommendations under the guidance of a National Ocean Council
- Interagency Working Group on Facilities & Infrastructure is responsible for completing National Ocean Policy (NOP):
 - *Assess the Status of the Federal Oceanographic Fleet*
 - *Update the Federal Oceanographic Fleet Status Report*
- OMB briefed December 2012, comments being assessed
- January 2013: Initiate SOST clearance process

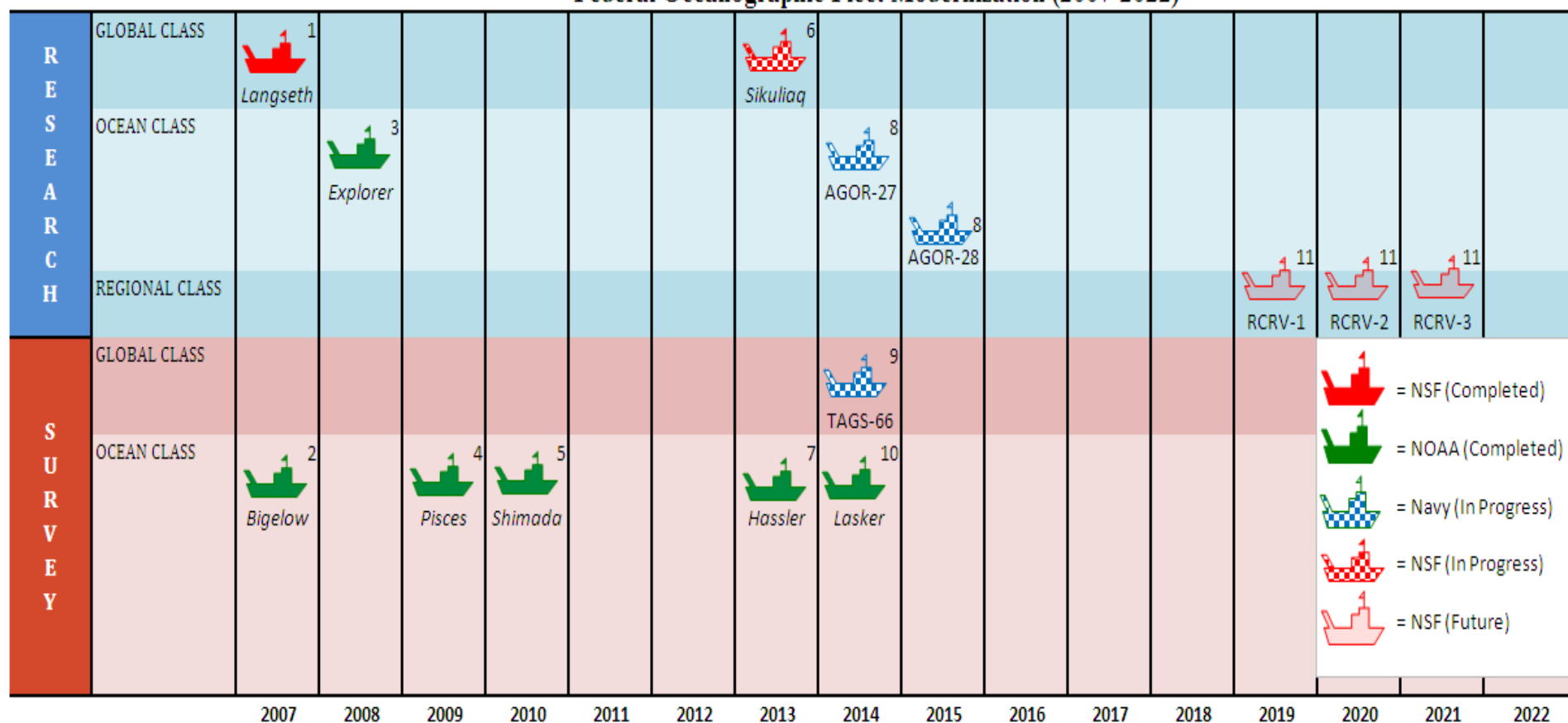
Fleet Status Report (FSR)

Major Message Items

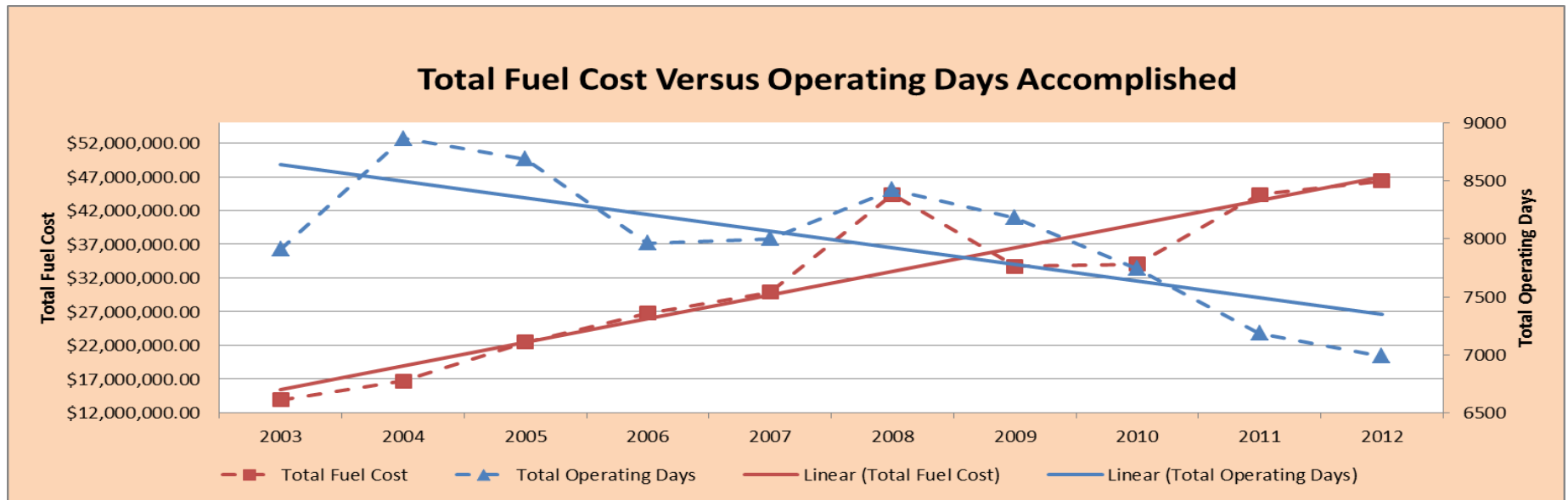
- Success on procurement/acquisition front
- Federal agencies adjusting to increased fuel costs
 - 400% increase in price/gallon (2003 vs. 2012)
 - 3M gallons: 2003 = \$2.52M vs. 2012 = \$10.92M
- Decreasing utilization trend across all ship classes
- Change in Fleet Composition

FSR – Fleet Modernization

Federal Oceanographic Fleet Modernization (2007-2022)

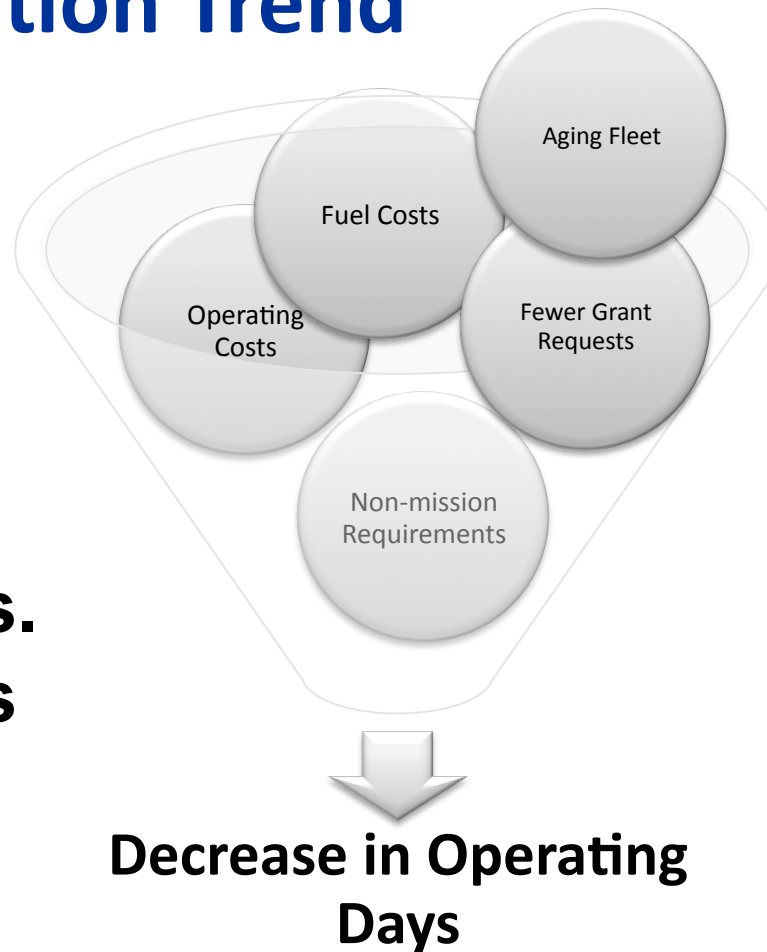


FSR – Fuel Costs



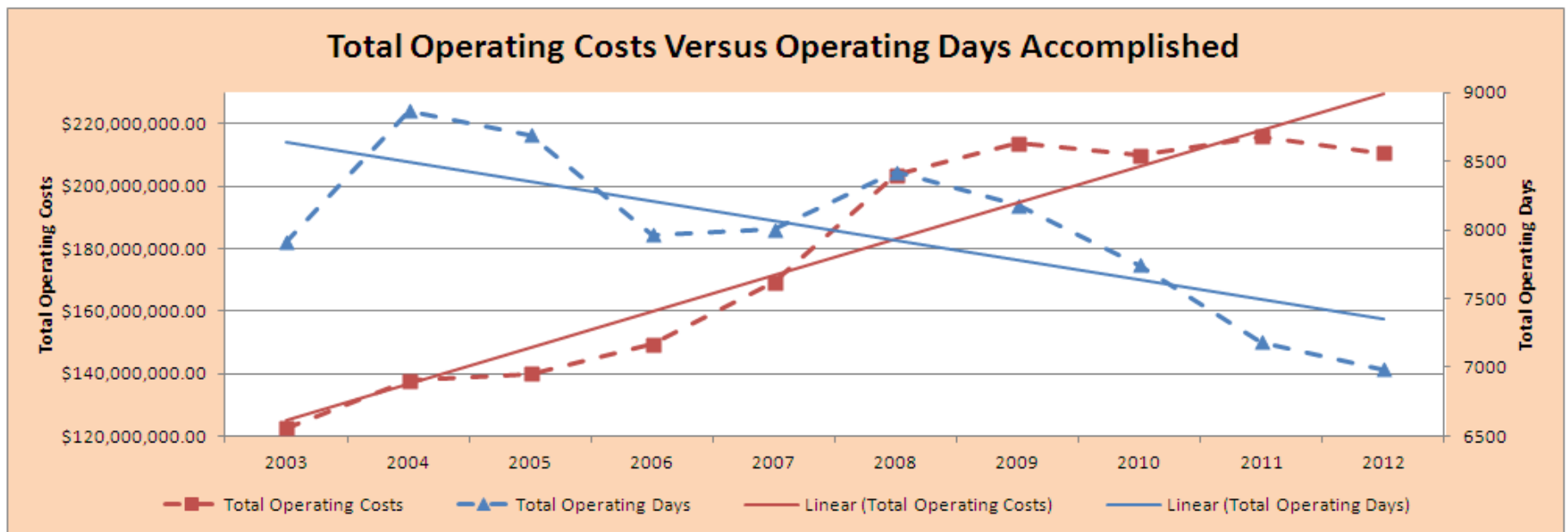
- FY03 - \$13.9M in Fuel \$122.5M Total Cost (\$0.84/gallon) 11% of budget
- FY11 - \$44.4M in Fuel \$180.0M Total Cost (\$3.33/gallon) 25% of budget

Contributing Factors to Decreasing Utilization Trend



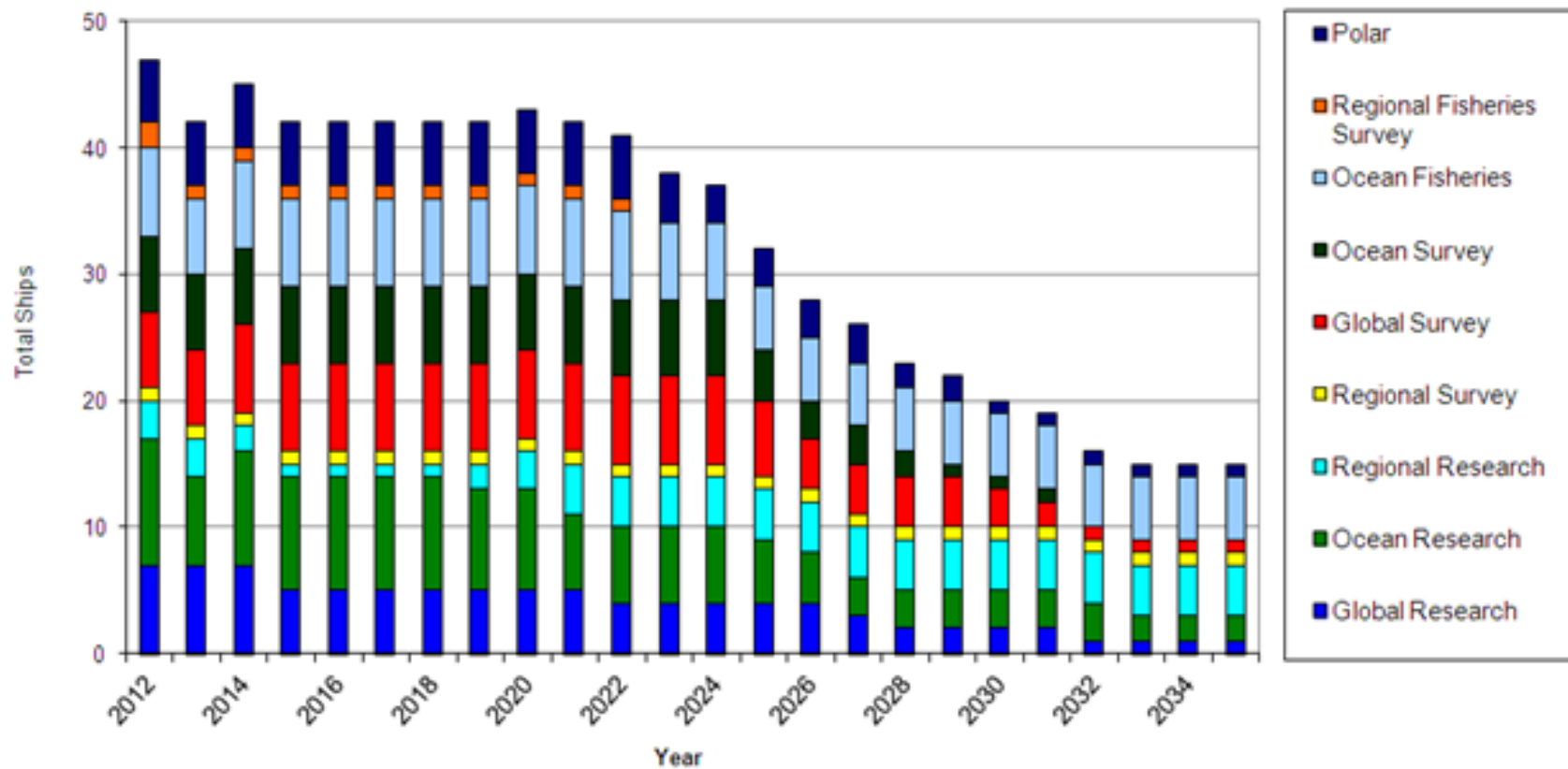
**Budget Constraints vs.
Mission Requirements**

FSR – Total Operating Costs



- Increases to fuel, operating costs, non-mission requirements result in decreased operating days with neutral or decreasing budget

FSR– Projected Composition of Federal Fleet



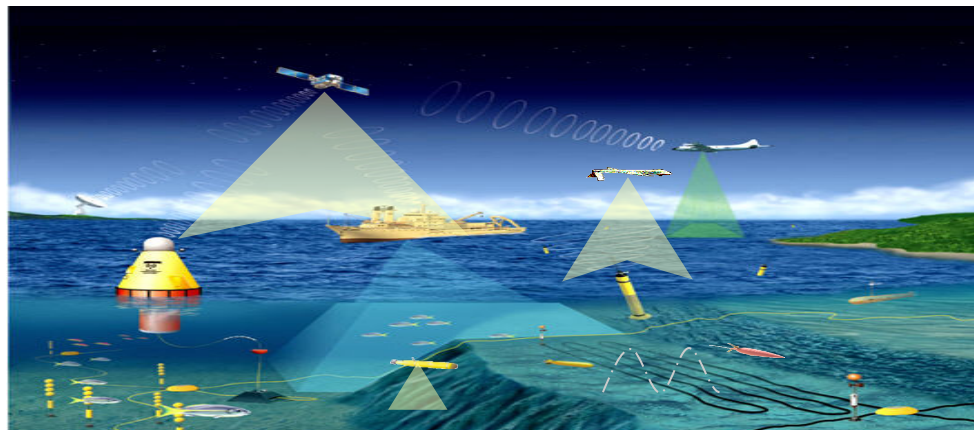
Fleet Scheduling Portal



- A scheduling portal will be hosted on the UNOLS server to allow for more efficient collaborative opportunities between principle investigators
- The portal oceanographic cruise information for UNOLS, NOAA, EPA, USAP, and USCG ships
- This portal is expected to be completed in April 2013
- This portal satisfies a milestone in the National Ocean Policy Implementation Plan

Impact of New Technology

- The use of unmanned systems which include gliders, autonomous underwater vehicles (AUV), unmanned aircraft systems (UAS), unmanned surface vessels (USV), Lagrangian platforms, animal tagging, and buoys has become more prevalent in recent years
- The SubCommittee on Unmanned Systems (SUS) was chartered by the IWG-FI to track infrastructure requirements for such systems
- **What does the ship of the future look like?**



Summary

- A robust Federal fleet is a fundamental tool needed to advance our knowledge of the ocean and to support operational requirements.
- Fleet capacity to support the NOP priorities and the NOP Implementation Plan is determined by individual agency requirements
- IWG-FI will continue to assess opportunities to increase efficiency and effectiveness of the Federal fleet through initiatives such as the fleet scheduling portal
- Emerging technologies provide both new opportunities and new challenges to balancing ocean infrastructure and research
- Challenges and barriers exist
 - Notably budget, budget, budget
 - IWG-FI is addressing the current status of the fleet and identifying key issues for sustainment and replacement
 - Must be a needs driven process for ship replacement and construction
 - Balanced fleet
 - Long time lines for ship construction make funding difficult

Questions?