

# **Strengthening America's Ocean Economy**

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# Take home message

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## Securing a healthy U.S. ocean economy for future generations requires:

- Science-based national ocean policy to coordinate Federal, State, Tribal and local stakeholders
- Investment in ocean S&T to inform and direct policy
- Ocean economic analysis to help guide future policy and public/private investment



# Overview

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- **National Ocean Policy**
  - Background and updates
  - Subcommittee on Ocean Science and Technology
- **The Ocean Economy**
  - National Ocean Policy actions
  - Innovation and the future ocean economy
  - Future considerations



# National Ocean Policy- Timeline

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- June 2009: President Obama established the **Interagency Ocean Policy Task Force**
- July 2010: **Executive Order 13547** signed; adopted the Final Recommendations of the Task Force and established a National Ocean Council
- 2011 through 2012: Scoping meetings and public comments on the **draft Implementation Plan**
- April 2013: **National Ocean Policy Implementation Plan** released
- July 2013: **Marine Planning Handbook** released



# Benefits of the Implementation Plan

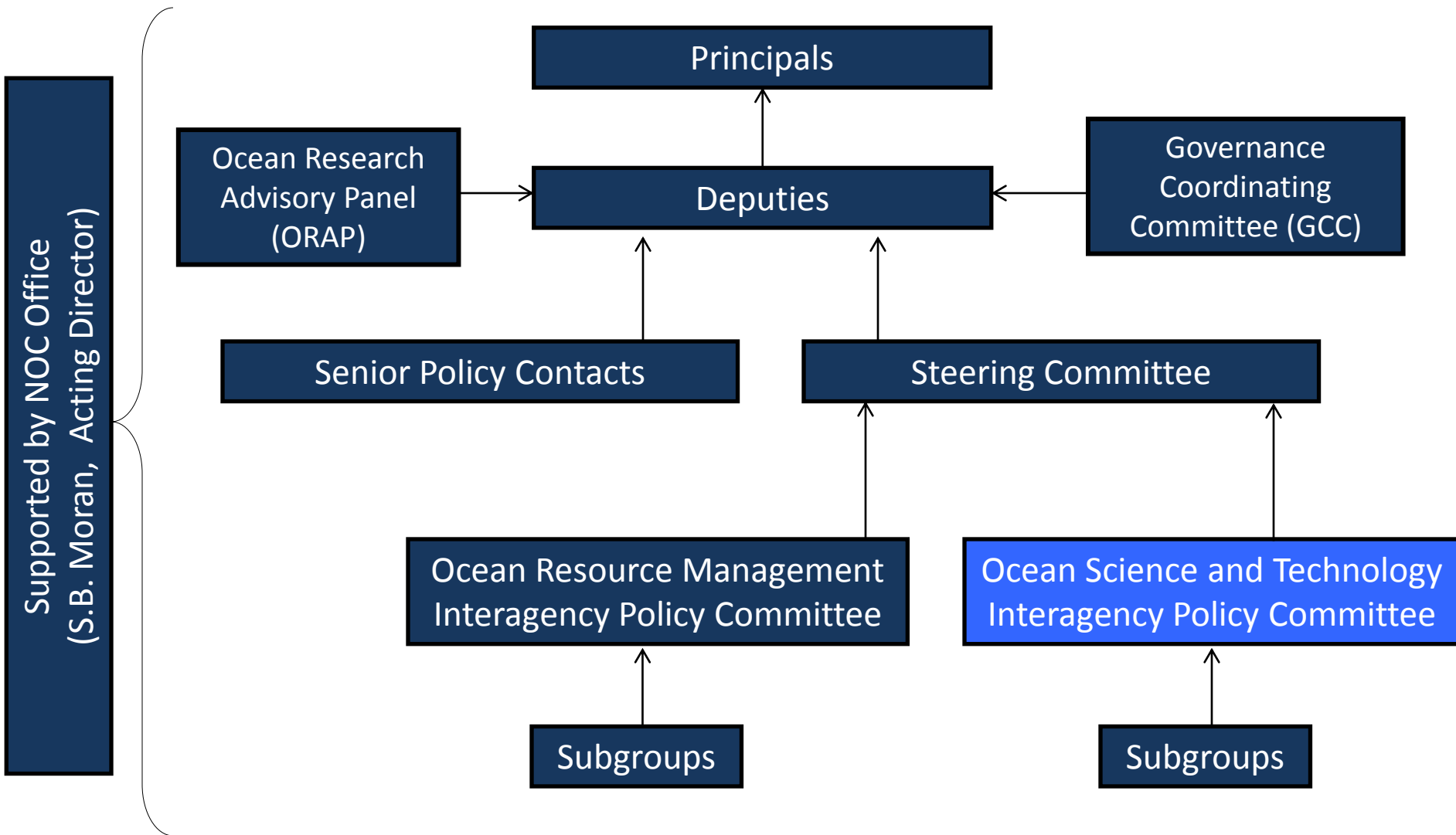
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## The IP improves interagency coordination to:

- speed Federal permitting decisions
- better manage the ocean, coastal, and Great Lakes resources that drive much of our economy
- develop and disseminate sound scientific information that local communities, industries, and decision-makers can use
- collaborate more effectively with State, Tribal, and local partners, marine industries, and other stakeholders.

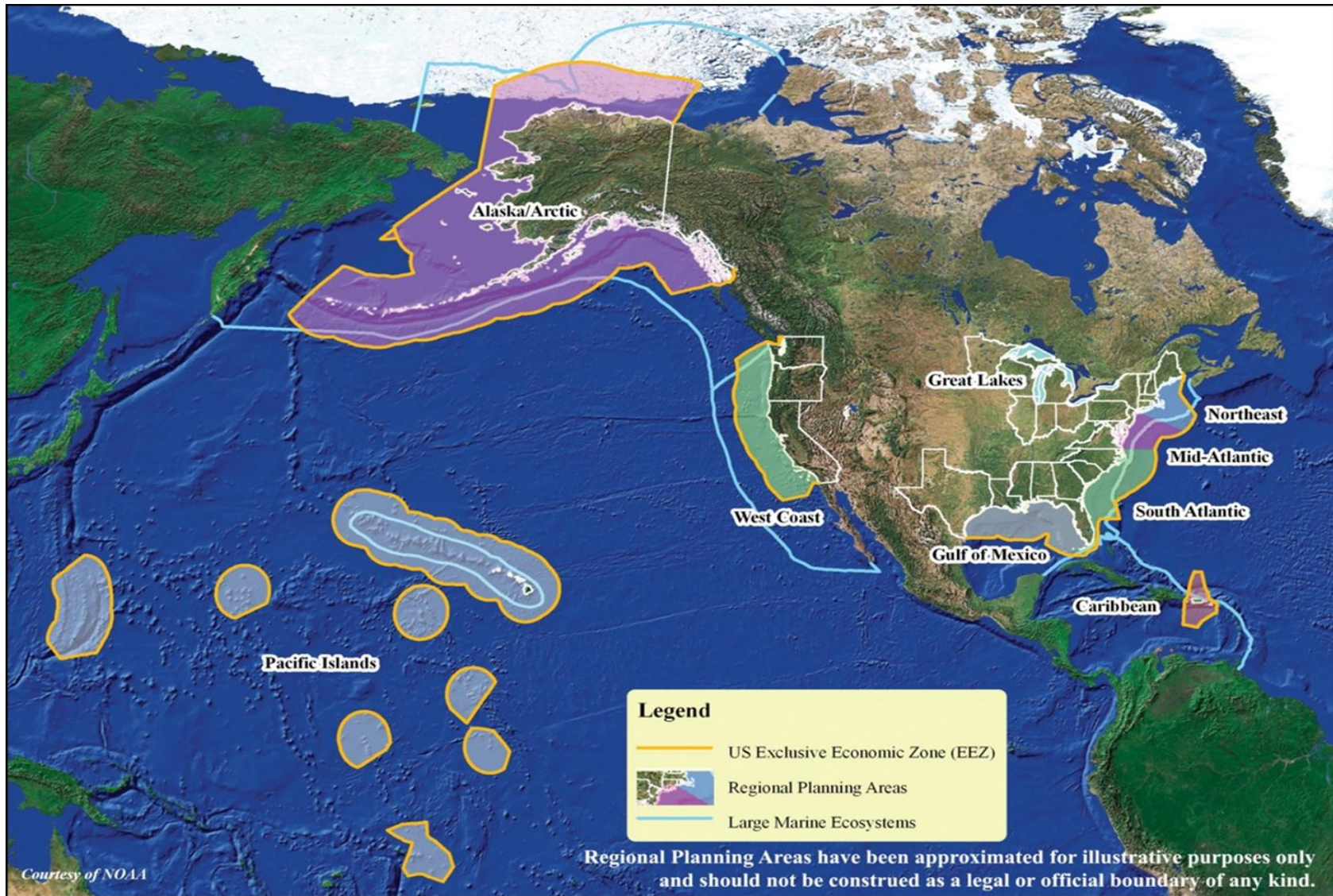


# National Ocean Council (NOC): Organizational Structure



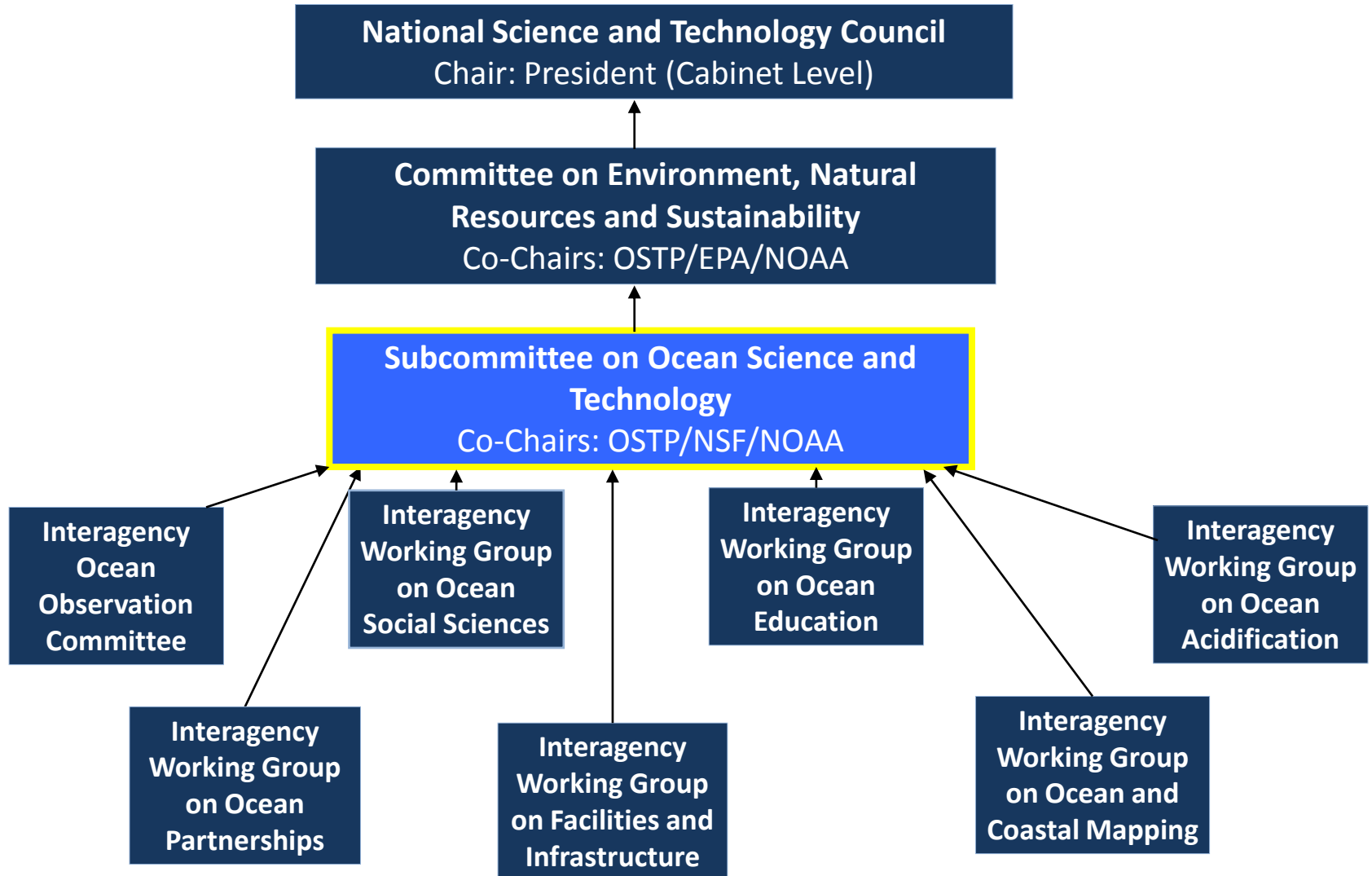


# Regional Marine Planning





# Subcommittee on Ocean Science and Technology (SOST)

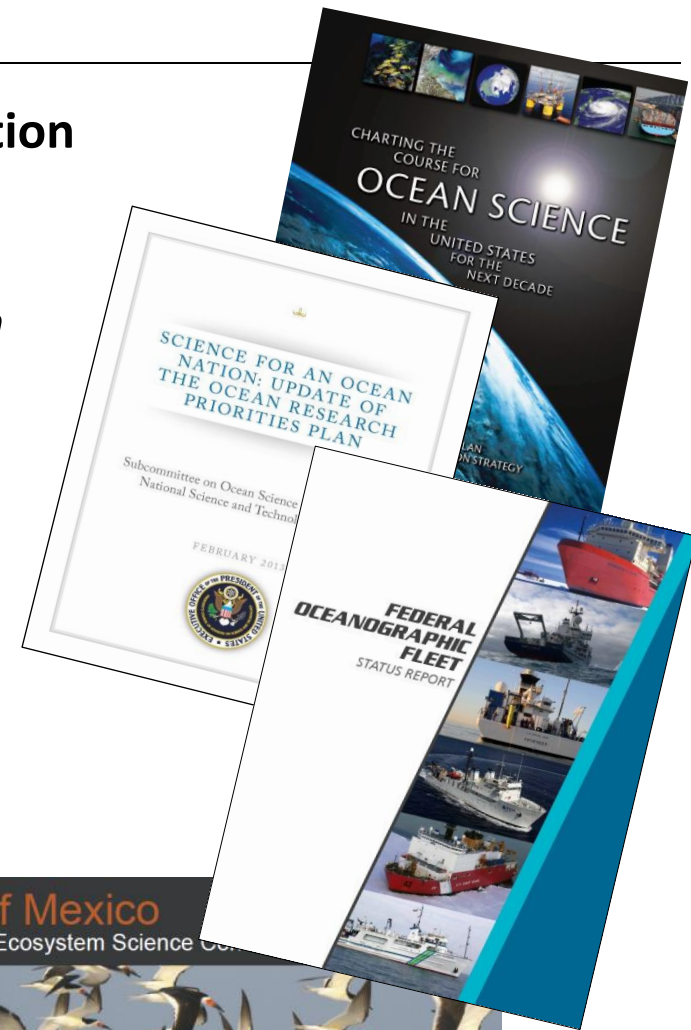






# SOST Activities & Products

- **Ocean Research Priorities Plan and Implementation Strategy** published in 2007; Updated in 2013
- **National Research Council Study, *An Ocean Infrastructure Strategy for U.S. Ocean Research in 2030***
- **Federal Oceanographic Fleet Status Report**
- **Response to DWH oil spill and Mississippi River Coastal Flooding**
- **National Ocean Partnership Program (NOPP)**
- **Legislated reports on a range of topics, including**
  - Federal Ocean and Coastal Activities
  - Ocean Acidification
  - Ocean and Coastal Mapping



**Gulf of Mexico**  
Oil Spill & Ecosystem Science Conference

Save the date!  
**January 21-23, 2013**  
New Orleans Marriott Hotel  
555 Canal Street, New Orleans, LA

[www.gulfresearchinitiative.org/news-and-events/2013-conference](http://www.gulfresearchinitiative.org/news-and-events/2013-conference)



# SOST Areas of Interest for 2014

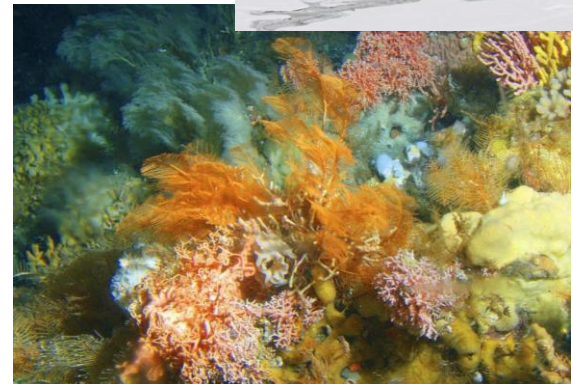
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- **International Collaboration**
  - Horizon 2020, Arctic-Atlantic, EBM, IUU fishing
- **Review of first World Ocean Assessment**
  - U.S. government review of IPCC-level U.N. report
- **STEM Education**
  - ORAP OE report, interagency coordination
- **Ocean Economy and Jobs**
  - Investment value of Federal ocean S&T funding
- **Federal Capacity to Respond to Extreme Events**
  - Sandy, Fukushima, DWH, etc.



# Implementation of NOP

- **The Ocean Economy**
- **Safety and Security**
- **Coastal and Ocean Resilience**
- **Local Choices**
- **Science and Information**





# NOP and the Ocean Economy

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- **Supporting Economic Growth:**
  - Advancing mapping capabilities and products
  - Open data to support commercial markets and industries
  - Development of ocean observing systems
- **Promoting Jobs:**
  - Accelerate permitting, planning, approval process
  - Coastal restoration and protection
- **Developing a Skilled Ocean Workforce:**
  - Develop diverse, interdisciplinary skilled workforce
  - Ensure human capacity to manage ocean resources



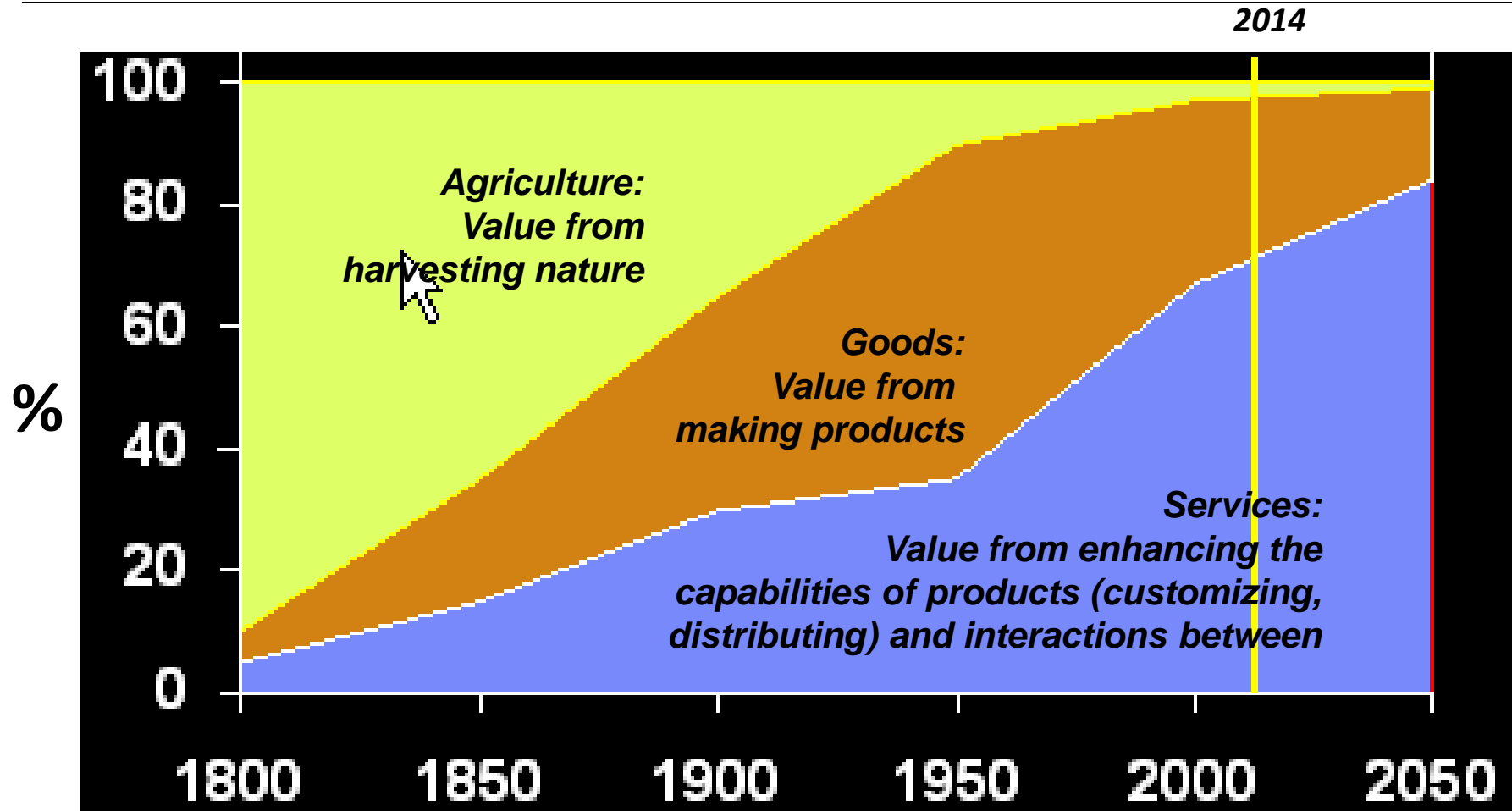
# Innovation & the Future Ocean Economy

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- **Emerging Ocean Economic Market Sectors:**
  - Climate resilience creates market stimulation
  - Risk management in support of maritime economic growth
  - Ocean S&T is an investment in public good/services
- **Innovation and “Blue Jobs”:**
  - Improving ocean observing, forecasting, communication
  - Grand Challenges, Prizes, to foster ocean innovation/technology
  - Spurring the blue ocean tech job market
- **Developing a Future U.S. Ocean Economic Strategy:**
  - US-IOOS, ERRIS, OECD, San Diego/Maritime Alliance, OE Summit
  - North American Industrial Classification System (NAICS)
  - Need for national ocean economic analysis



# Innovation and U.S. Employment

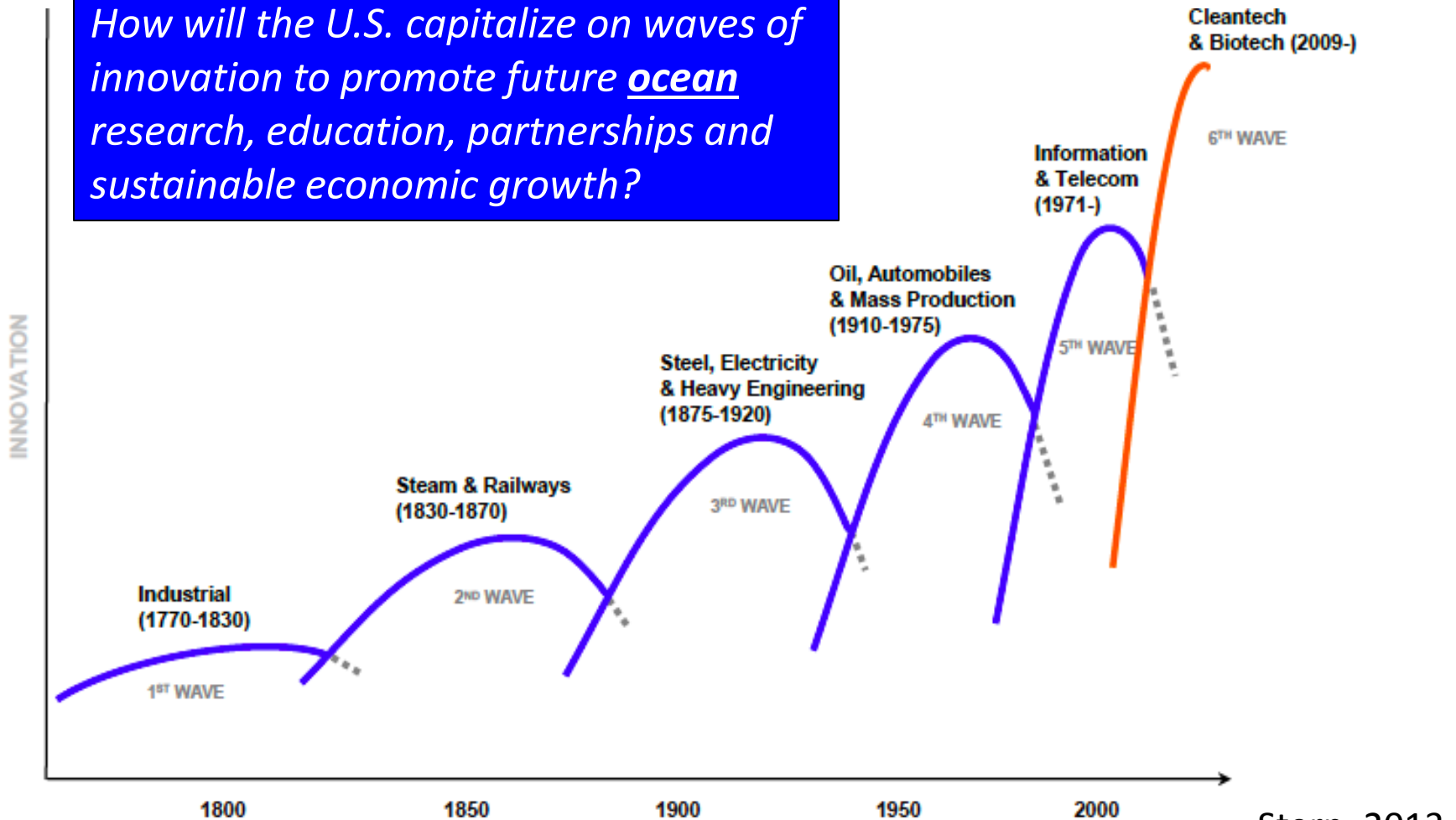


*The largest labor force migration is driven by global communications, business and technology growth, urbanization and low cost labor*



# Waves of Innovation

*How will the U.S. capitalize on waves of innovation to promote future ocean research, education, partnerships and sustainable economic growth?*



Stern, 2013

Source: DONG Energy (2009); diagram based on Perez (2002) drawing on report by Merrill Lynch (2008) (schematic not precise quantitative vertical axis).



Grantham Research Institute on  
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