

# Office of Coast Survey

## FY17 Update

Rear Admiral Shepard Smith

August 30, 2016

HYDROGRAPHIC SERVICES REVIEW PANEL



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# Changing the Face of Surveying and Charting

- National Charting Plan
- External Source Data Policy
- Hydrographic Survey Priorities: 20-year Survey Plan
- Autonomous Roadmap
- Balanced public/private partnership workflow

# NATIONAL CHARTING PLAN

*A strategy to transform nautical charting*

**Purpose** Improve NOAA nautical chart coverage, products, and distribution

## Improvements

**Reduce**  
unwarranted  
alarms



**Convert to metric**



**Provide**  
timelier data



**Improve**  
chart coverage



**Create an**  
orderly layout



**Reduce**  
uncertainties



**Improve** chart  
update information



**Increase**  
efficiency



**Outcome** Ease of access to more precise, higher-resolution charts that deliver the most up-to-date navigation information possible

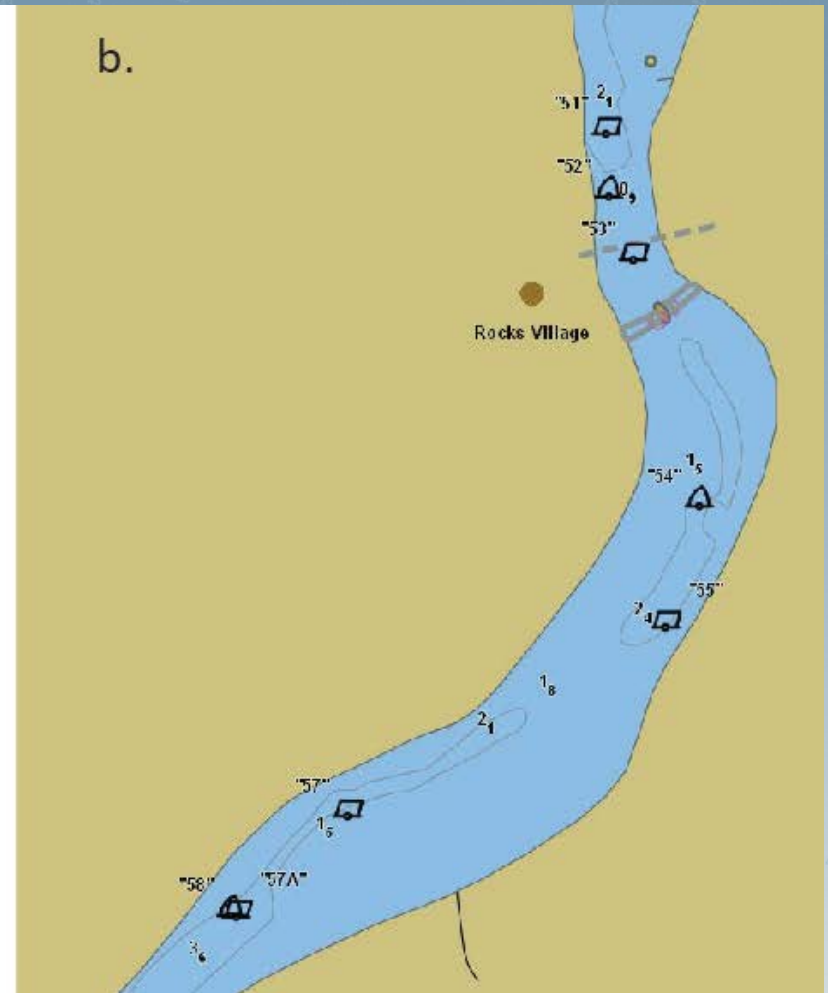
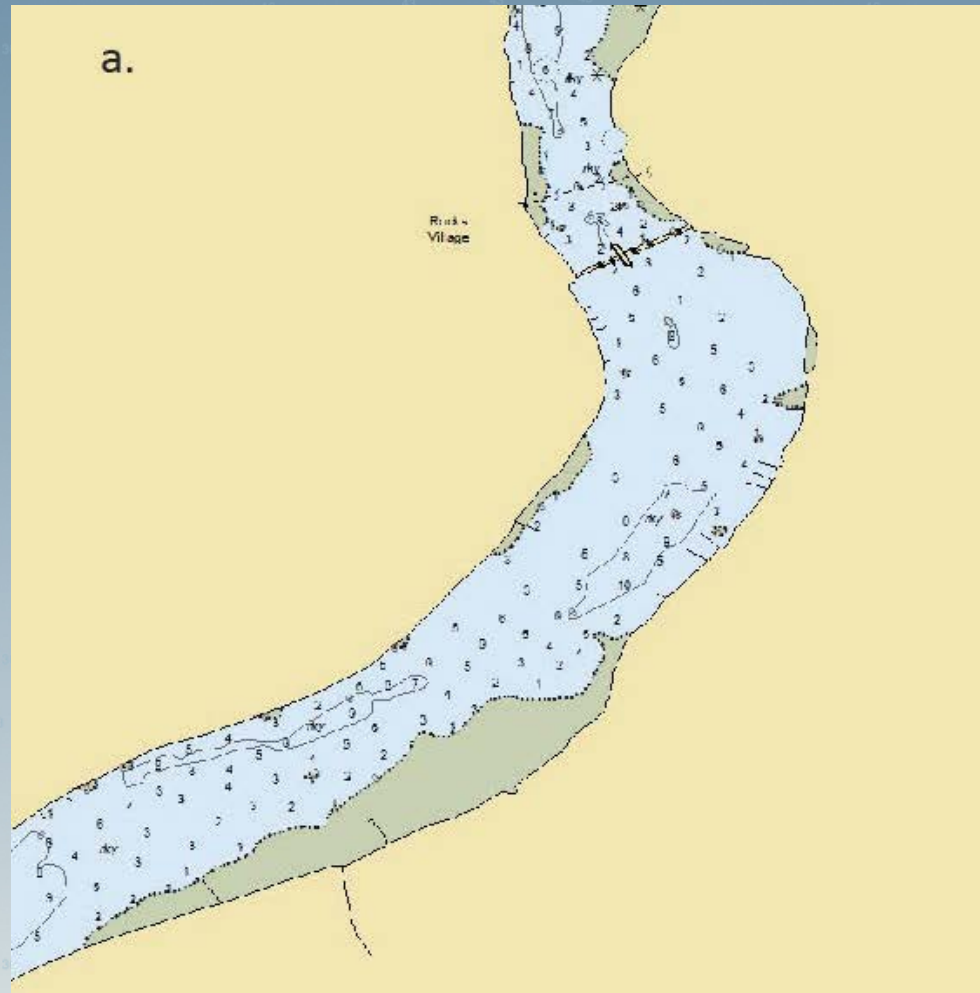
*Provide feedback by June 1, 2017* <https://www.federalregister.gov/d/2017-03936>

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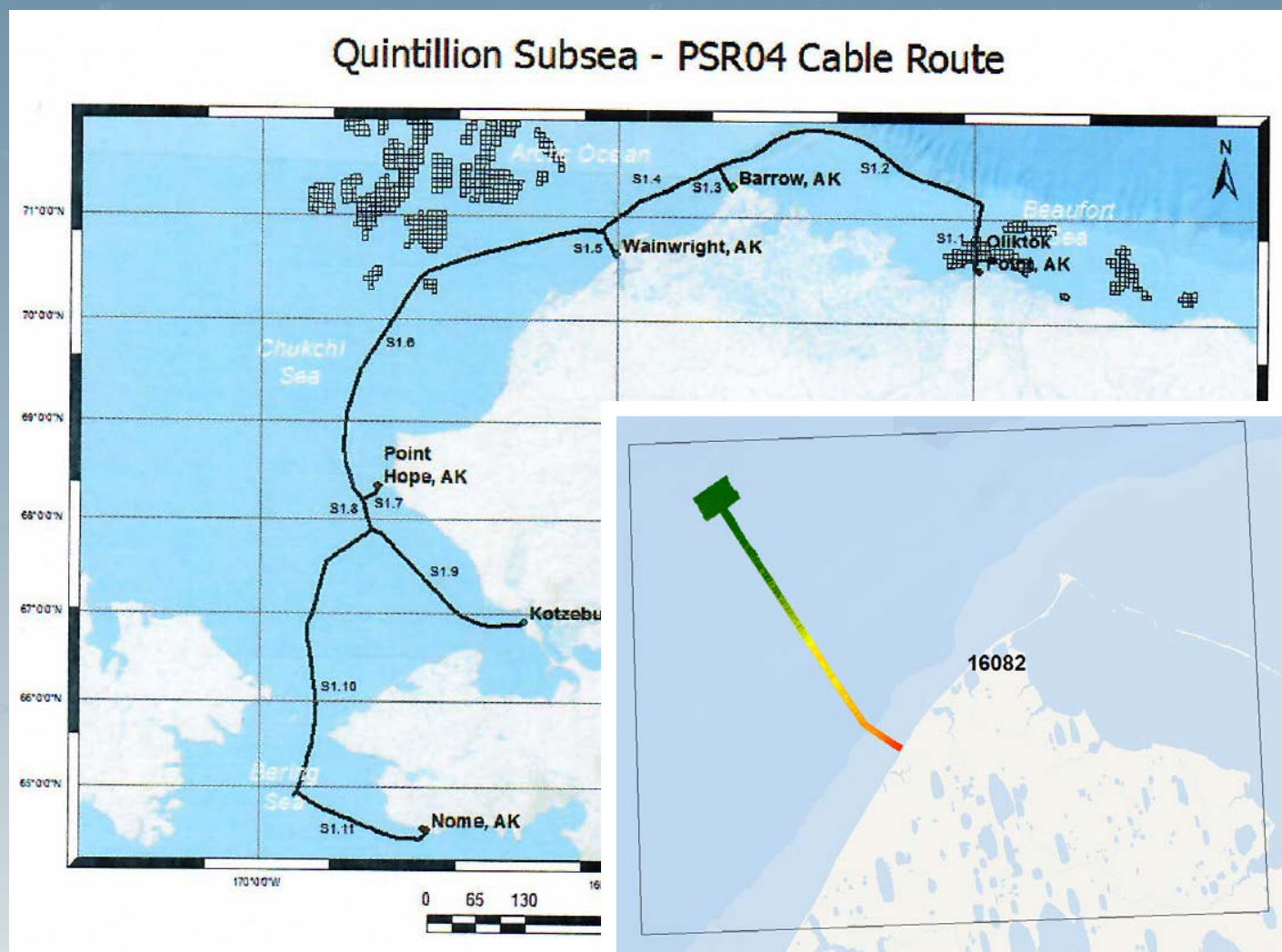
# New NOAA ENC® for Merrimack River



# External Source Data

- Use the best available data to update nautical charts
- Actively seek out ESD from traditional and new data sources
- Catalogue and evaluate all data offered to NOAA as ESD
- Honor any use constraints or conditions associated with a candidate dataset
- Prioritize incorporation of data that will make the most difference to the accuracy of charts

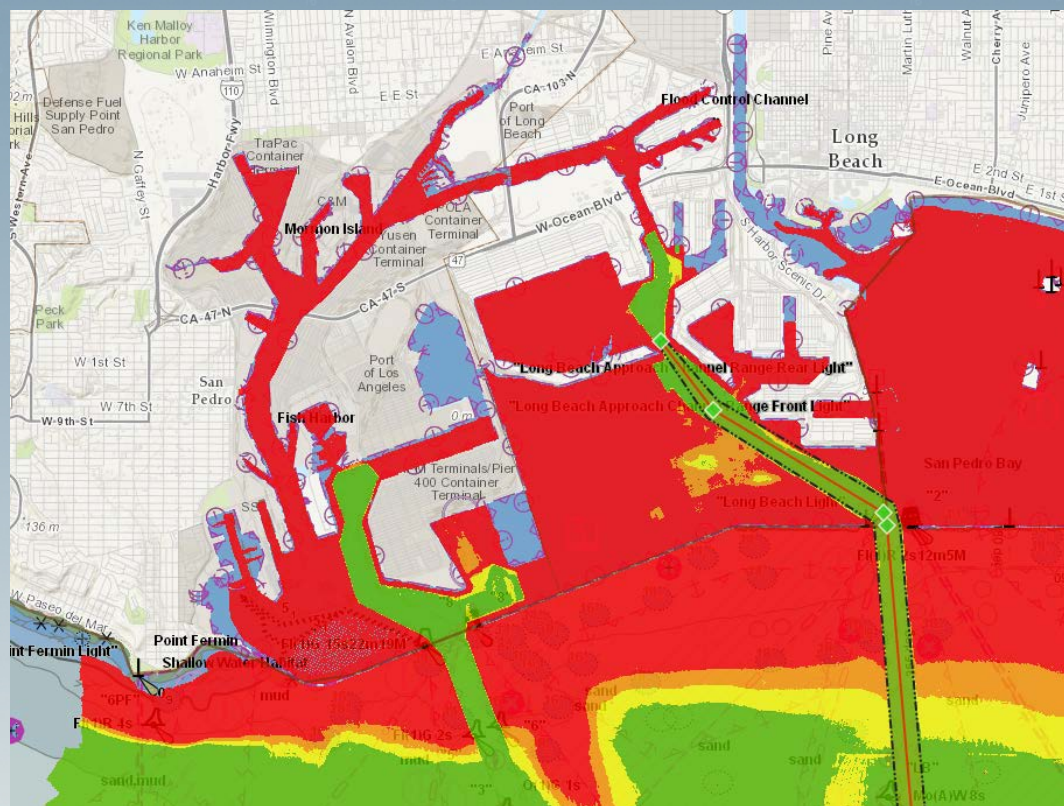
# External Source Data - Example





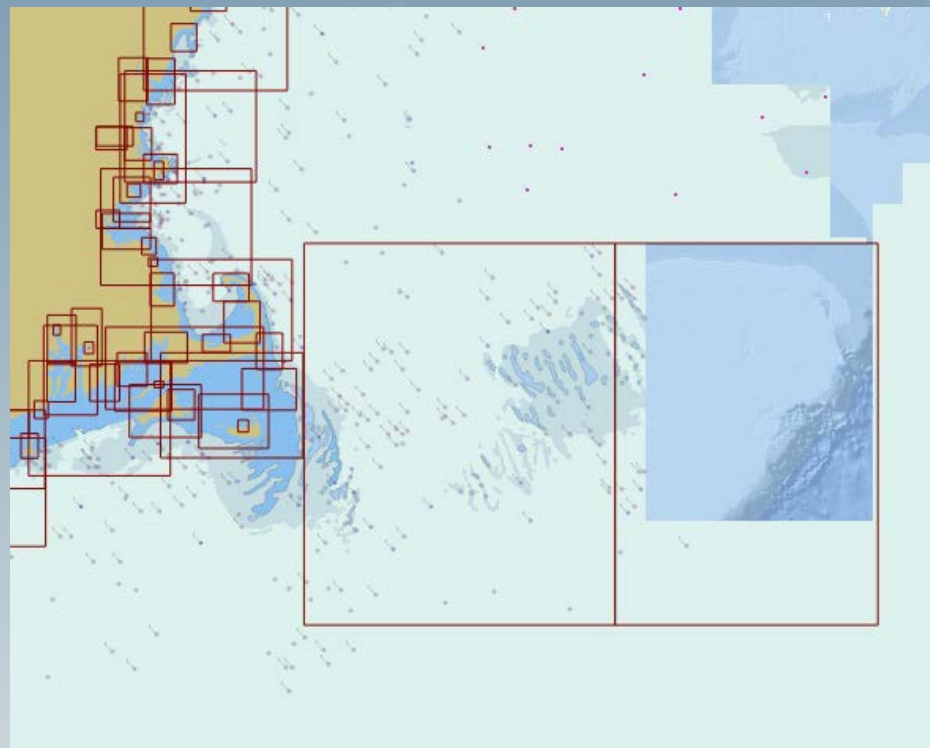
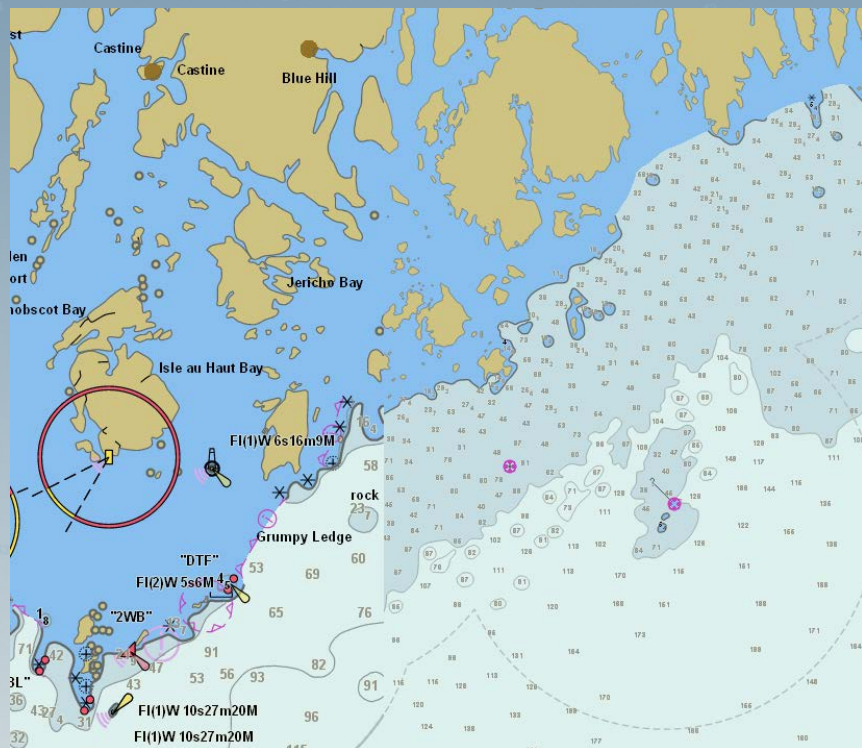
# Hydrographic Surveys Priorities

Critical underkeel clearance areas in ports, approaches, corridors, and passes; and



# Hydrographic Surveys Priorities

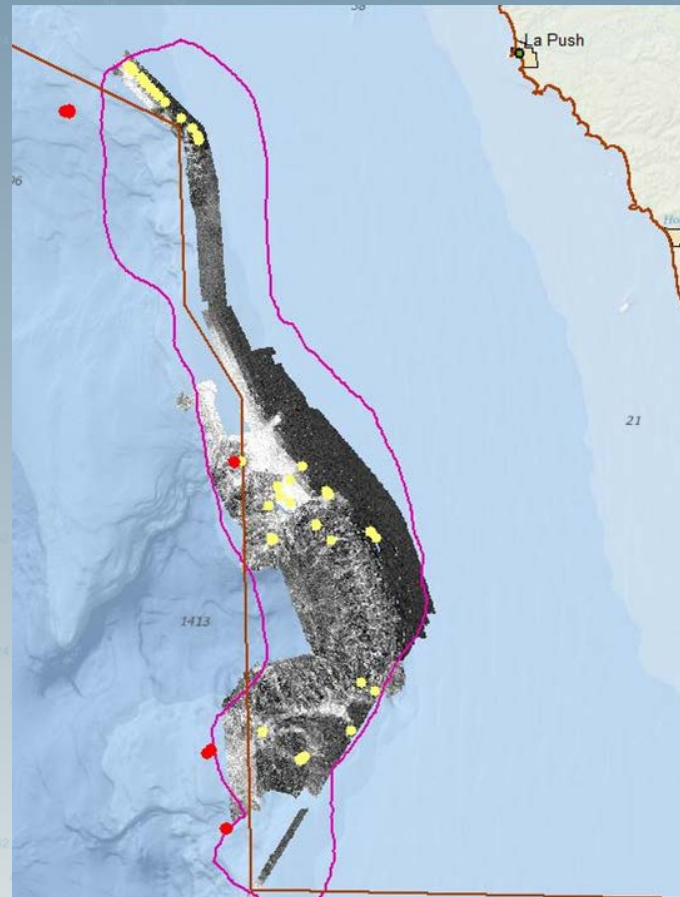
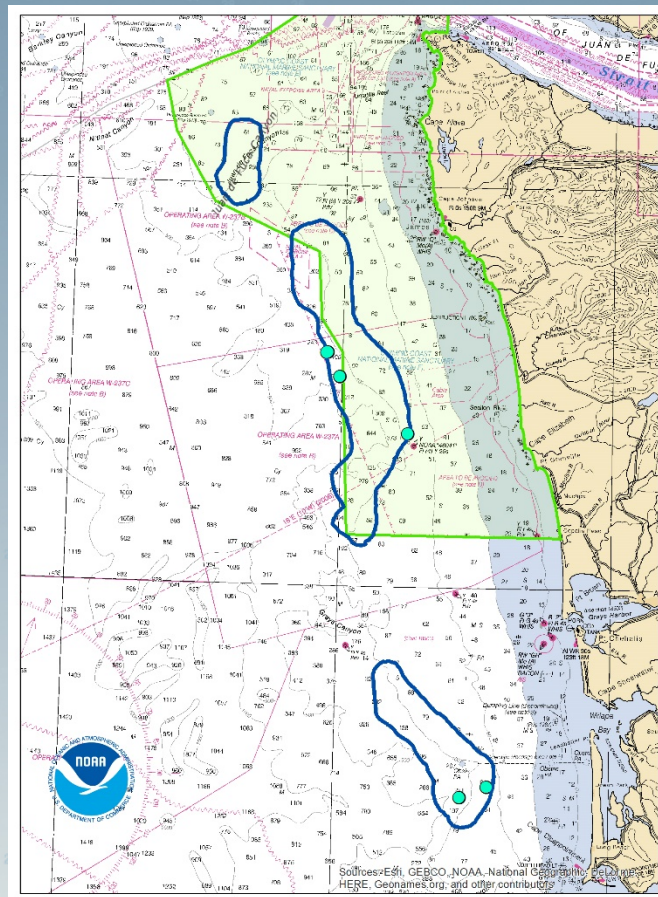
## Reported or observed chart discrepancies





# Hydrographic Surveys Priorities

Systematic, interdisciplinary seafloor mapping





# Unmanned Systems





# Autonomous Roadmap



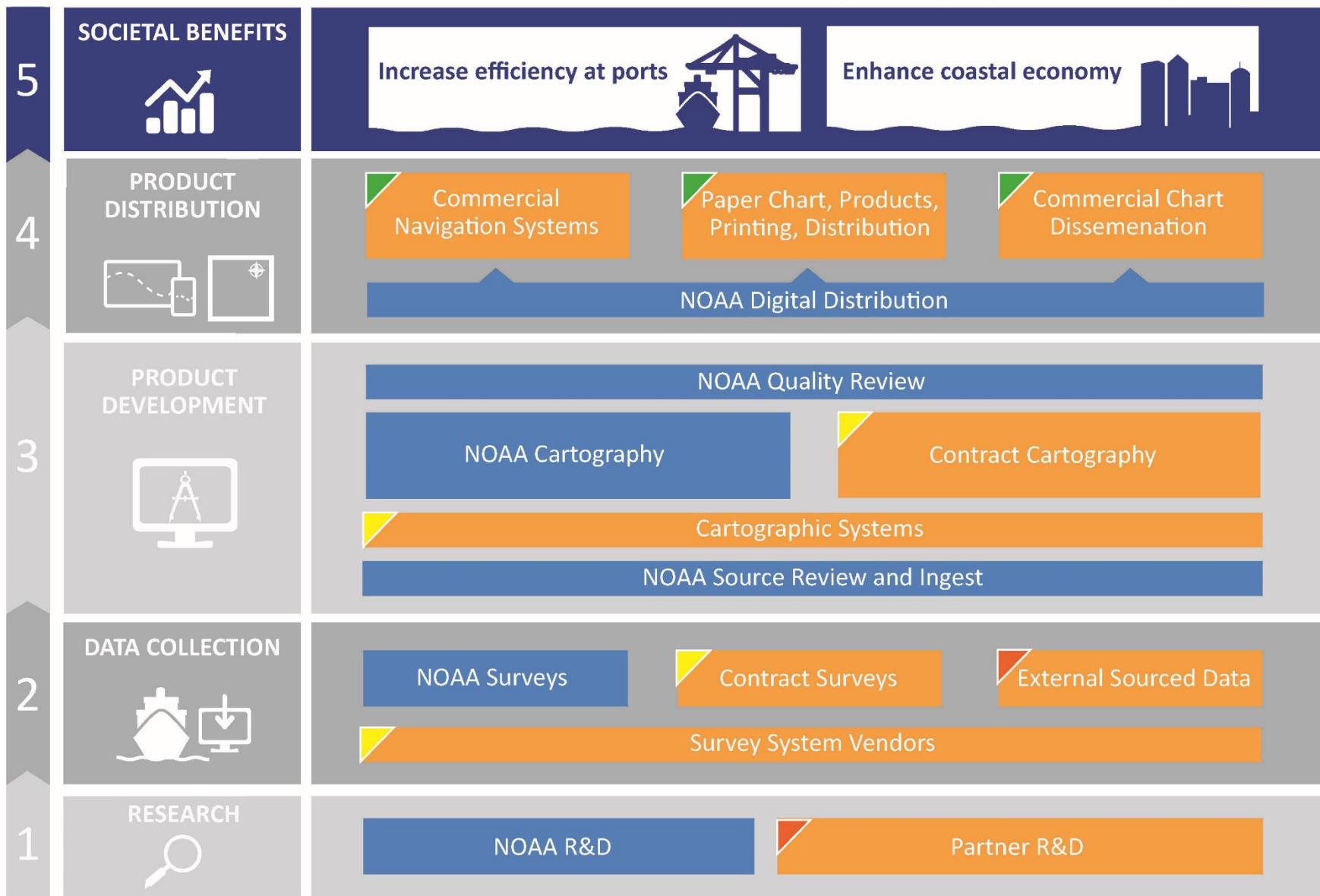
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# NOAA Coast Survey Partnerships *every step of the way*



NOAA in-house
  External to NOAA
  Partnerships
  Contracts
  Private sector activities not federally funded