

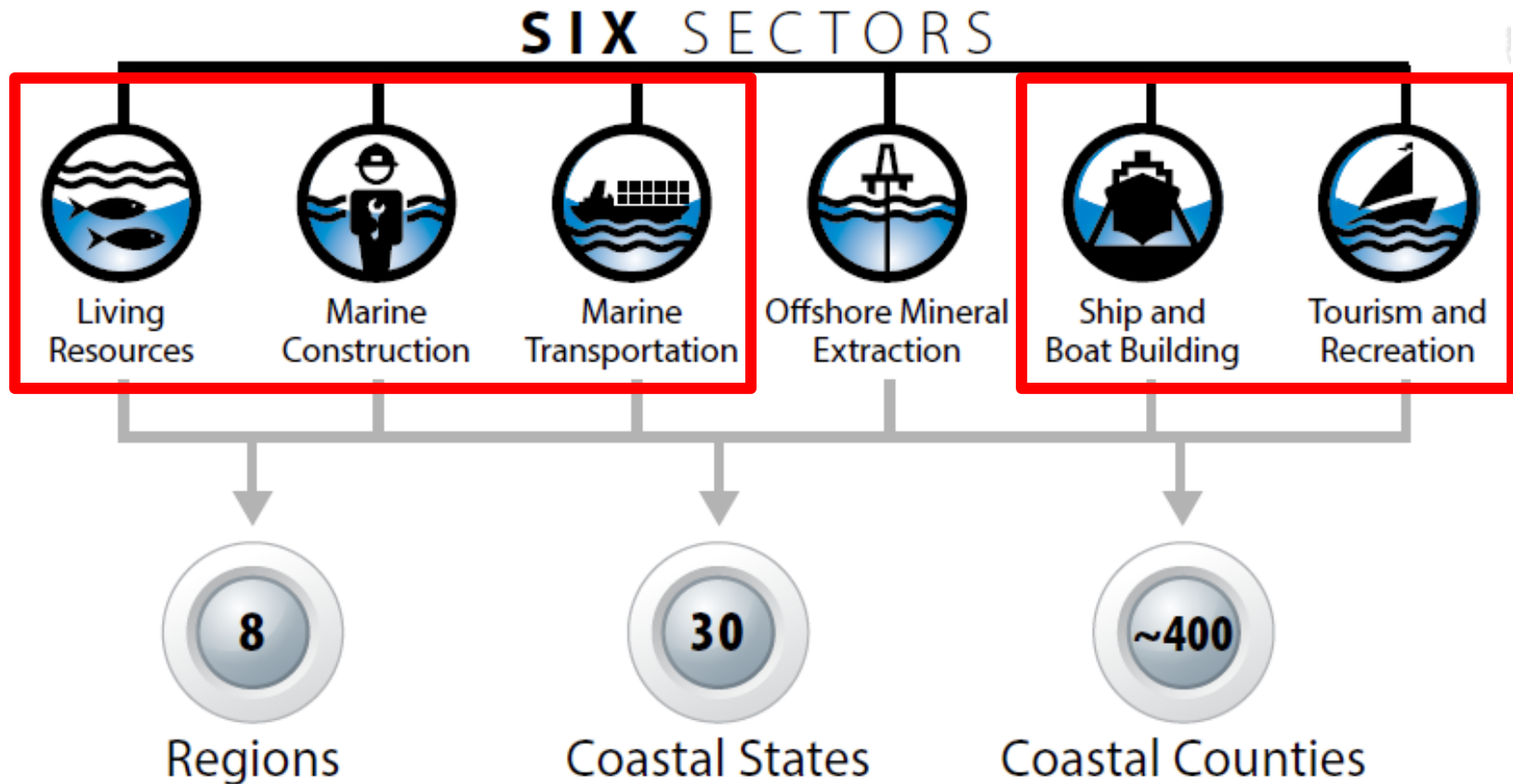
South Carolina Ports Authority

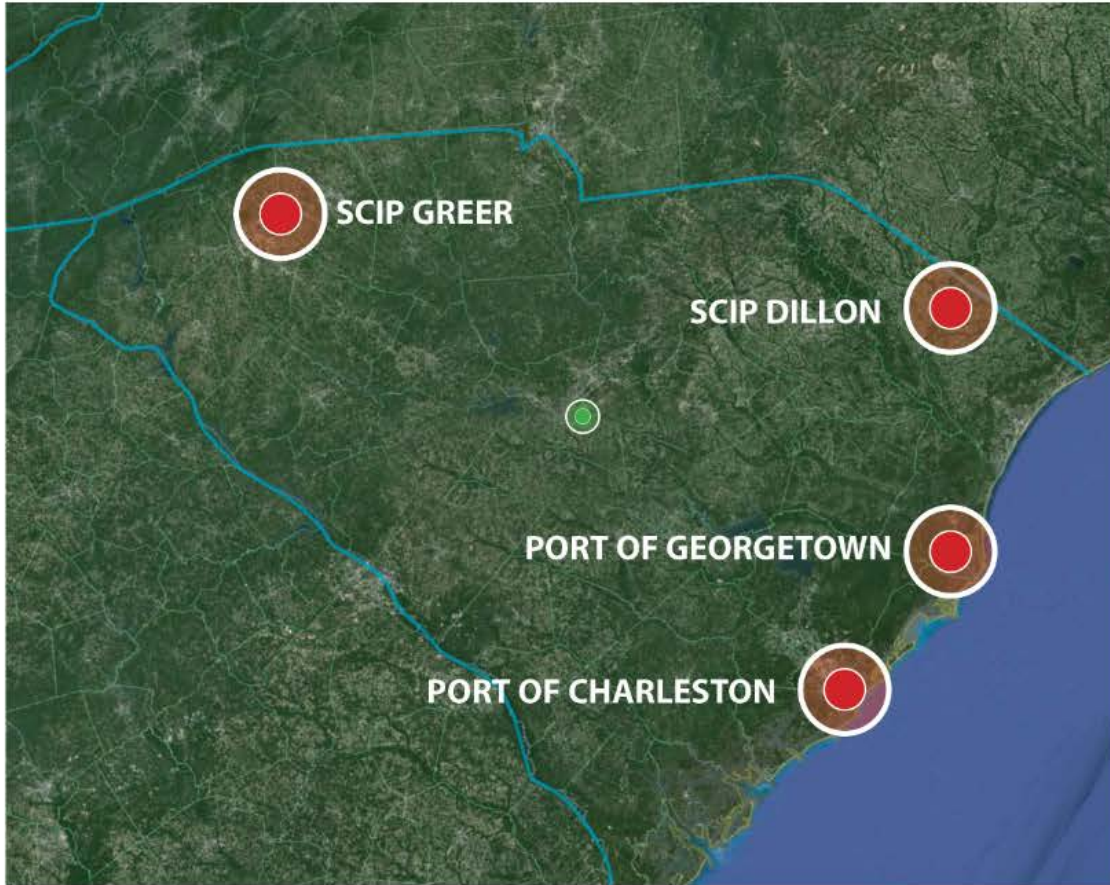
The World Connects Here

Mark Messersmith

Southeast Coastal Ocean Observing Regional Association
Annual Meeting
Charleston, SC
May 23, 2018

SCPA = Blue Economy





Owning and operating ports in Charleston, Georgetown, Greer, and Dillon.

Who is the South Carolina Ports Authority?



- An enterprise agency operating on behalf of the citizens of S.C.
- Governor appoints board of directors.
- Founded by S.C. General Assembly in 1942 with a mission...
 - *Provide cost-competitive facilities.*
 - *Work with customers, stakeholders.*
 - *Remain financially self-sufficient.*

South Carolina Port Impacts

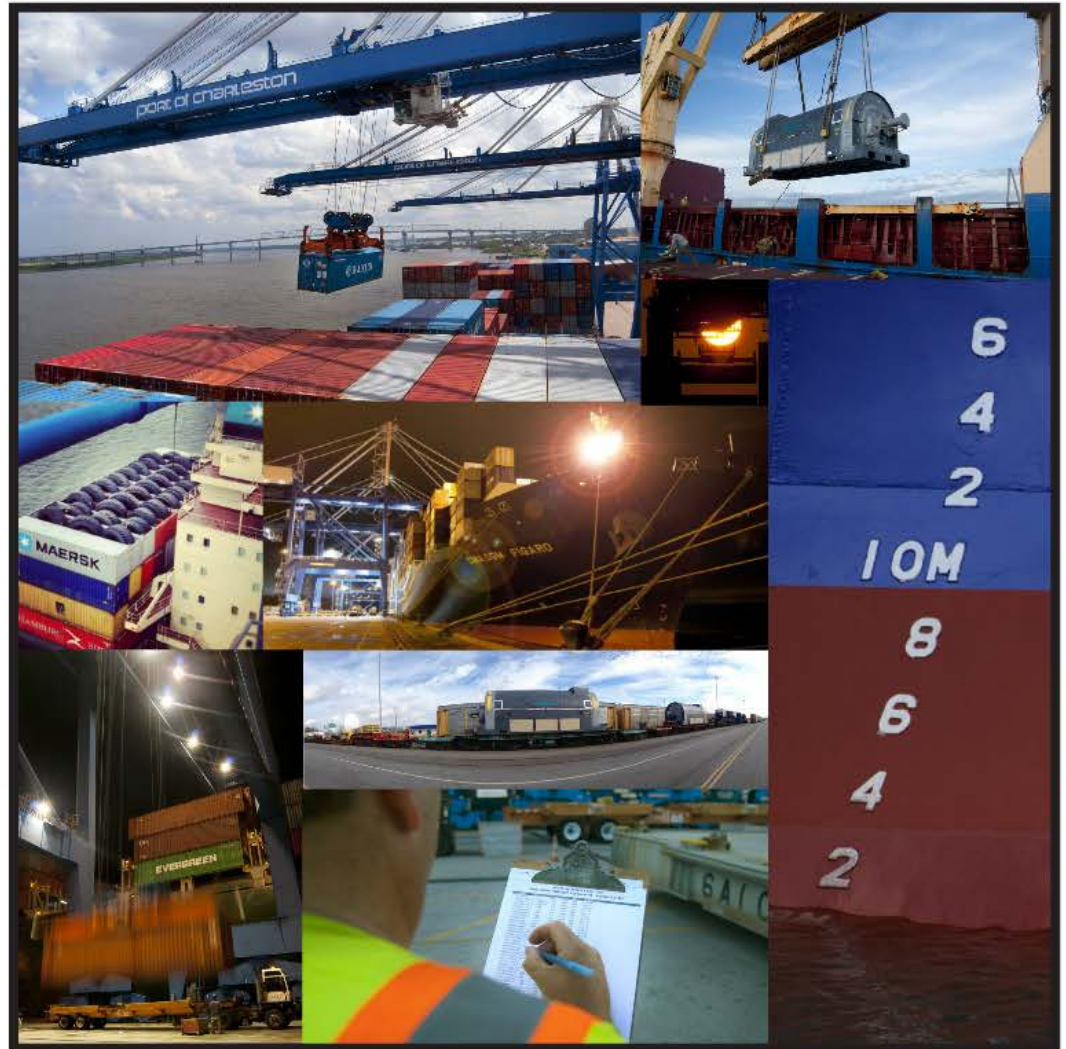
\$53 Billion in
annual economic
activity in S.C.

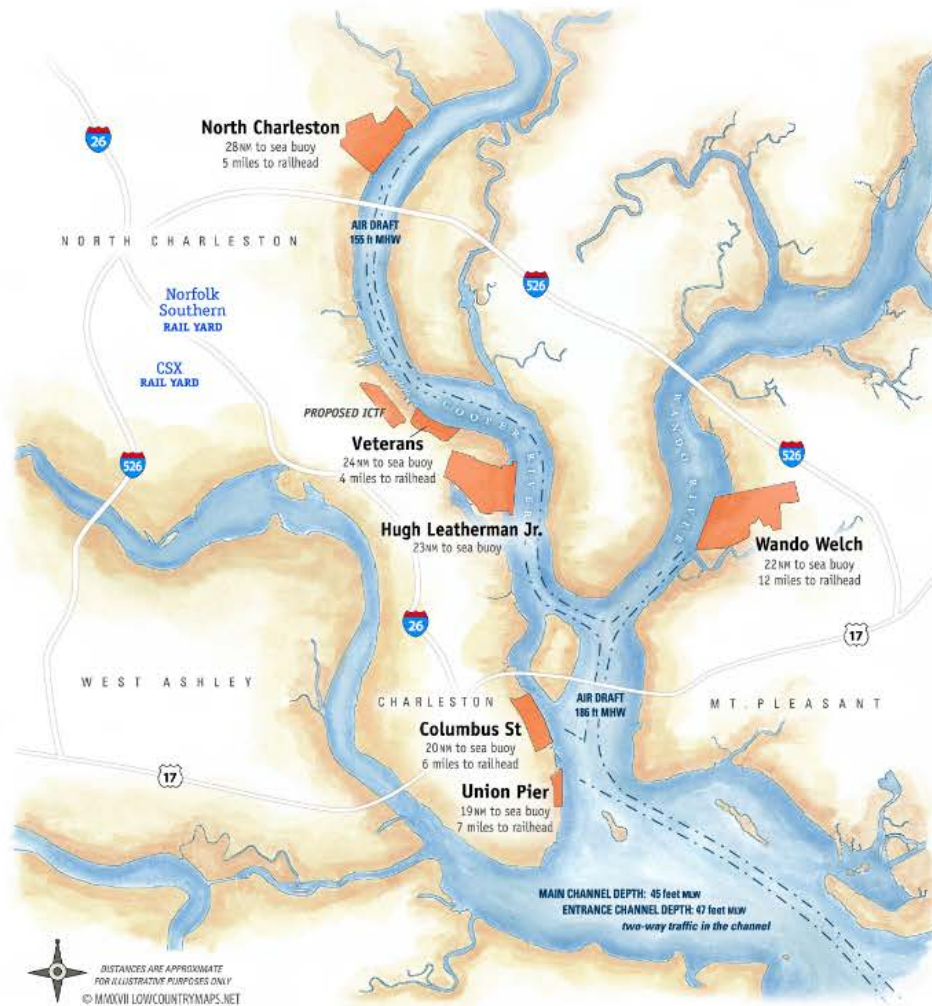
10% Of State GDP
is related to port
activity.

\$914 Million in
annual state tax
revenue.

1 In 11 jobs in SC
are related to port
activity.

Port-related jobs pay 40% more
than the average S.C. wage.





Port of Charleston spans several municipalities.

5 Terminals in the area...

- 2 Container terminals.
- 2 Breakbulk / Ro-Ro facilities.
- 1 Cruise facility.
- 1 Container terminal under construction.

The markets we serve...



CONTAINER 84%



BREAKBULK 11%



CRUISE 5%

All are important to the future of the port.

Trends Driving Our Business

- 1)** The Southeast is where the growth is and ports thrive on growth.
- 2)** Ships are getting larger with consequences for port terminals and infrastructure.
- 3)** Innovative thinking needed for efficient inland movement. Case in point...Inland Ports.

**Let's take a
closer look...**

Trend 1:

The Southeast

\$11 Billion

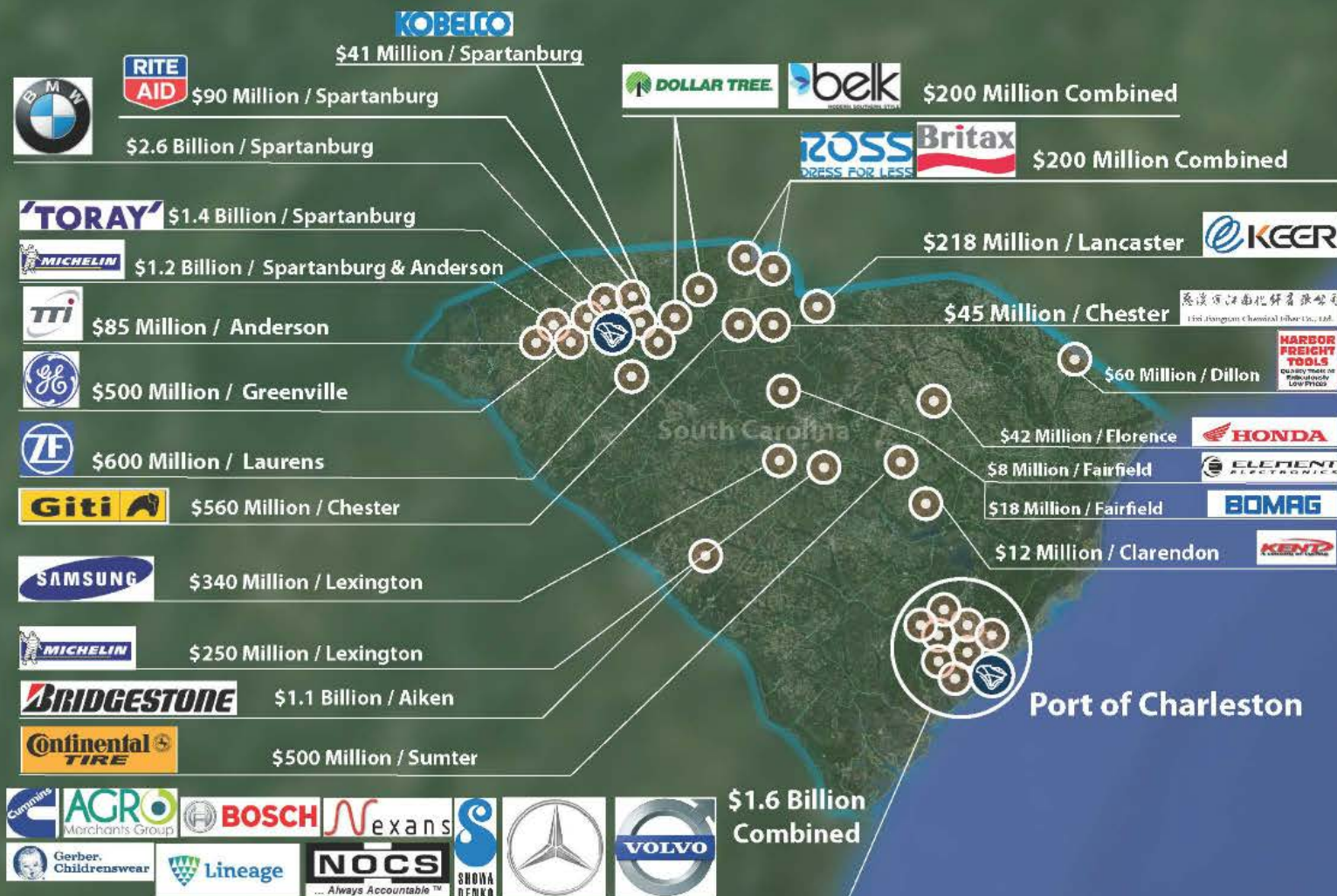
Invested by port-dependent firms since 2011.

25,000

New jobs created.

Growing

A diverse local cargo base.



Trend 2:
Big Ships



Since the Panama Canal expansion opened, average vessel size @ USEC ports has increased **50%**

Charleston:
86% Of all container ship capacity is now carried on ships larger than 5,000 TEU.

14,000 TEU Ships Already In Charleston

Studying viability of 19,000 TEU ships.



Trend 3:

Innovative Inland Solutions

South Carolina Inland Port Locations



Leatherman Terminal (Phase 1)	\$770 Million	South Carolina Ports Authority
Inland Port Dillon	\$40 Million	
Other Infrastructure & IT Projects (Improvements To Existing Terminals & Facilities, New Container Cranes, New IT Systems, etc.)	\$560 Million	
Harbor Deepening to 52 Feet	\$300 Million	State of South Carolina
Leatherman Terminal Access Road	\$200 Million	
New Dual Access Intermodal Railhead	\$289 Million	
CAPEX Investment By 2021		\$2.15 Billion



Physical Oceanographic Real-Time System (PORTS)



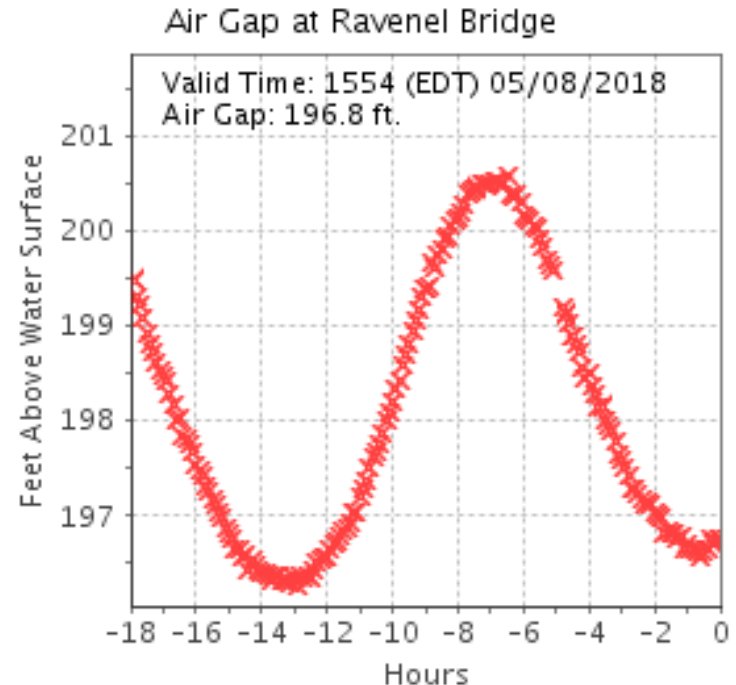
Decision support tool that improves maritime navigational safety

- Real-time observations (water level, currents, salinity, meteorological parameters)
- Forecasts
- GIS applications

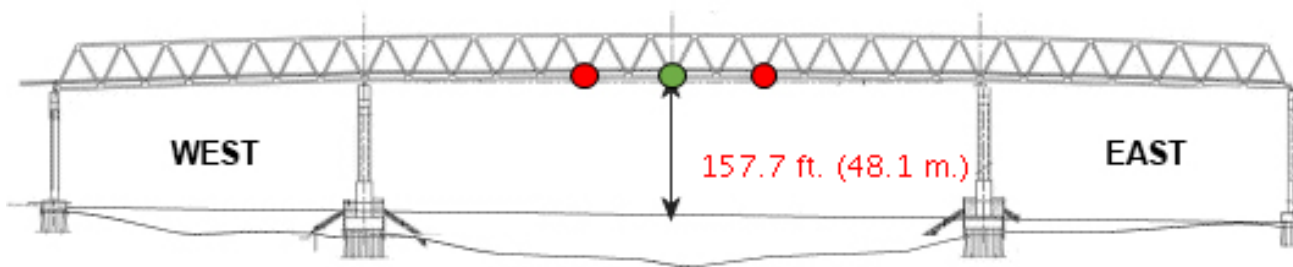
PORTS – Air Gap Sensors

Provides maritime community information on bridge clearances

- Locations
 - Don Holt Bridge
 - Ravenel Bridge



AIR GAP AT DON HOLT BRIDGE



● EDGE OF NAVIGATION CHANNEL

● CENTER OF CHANNEL

Additional Tools



- Weather sources to support and coerce vessel movements and safe operations for SCPA facilities
- Contract with StormGeo
 - Routine updates and alerts
- National Weather Service support
- In-house wind alert system
- Crane mounted anemometers

Data Gaps

- SCPA stakeholders include USACE, USCG and Charleston Harbor Pilots
- Distance of buoys to Charleston Harbor Entrance Channel
- Safety concerns during storms

