

# State of the Panel

## Ship Warfare Systems Integration Panel

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# Ship Warfare Systems Integration Panel's Purpose

- Reduce the costs of integration and test for warfare and communication systems in ship construction and maintenance/modernization.
- Facilitate communications among Navy programs, warfare system integrators, communication system integrators, ship designers, shipbuilders and other NSRP panels.

# Panel's Purpose

- What does the panel do?
  - Promote standardization of physical interfaces between IWS and C5ISR GFE/CFE and shipboard spaces.
  - Promote ship mission system infrastructure flexibility, modularity and scalability.
- Why?
  - SWSI is working to be the bridge between C5ISR and IWS and the shipbuilders

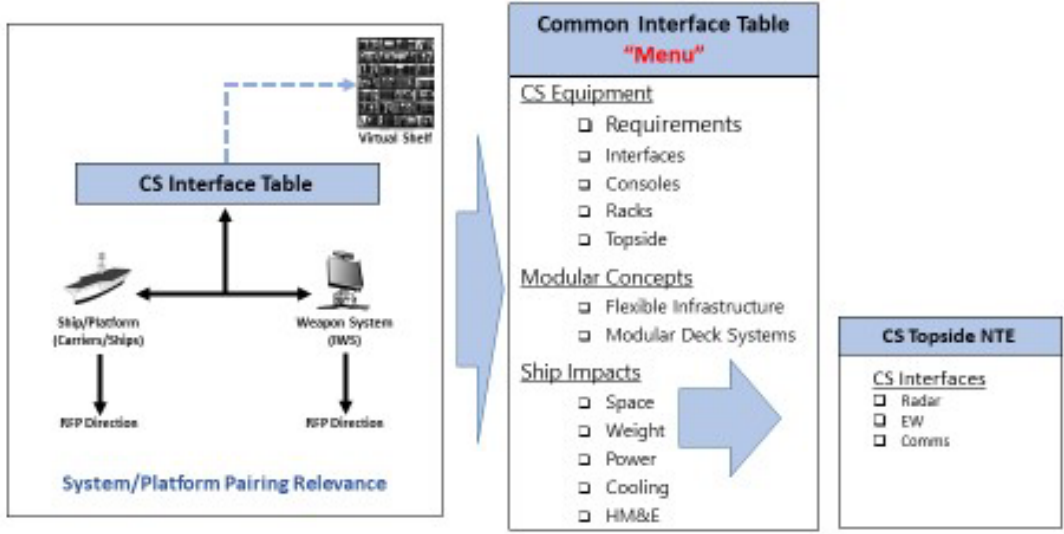
- How?
  - The panel focuses on commonality
  - Works to identify opportunities to support the "Flexible Warship" concept
  - Works to increase involvement between the shipbuilder, C5ISR and IWS and the OEMs
  - Continually evaluate and share the results of SWSI Panel, RAs and specials projects and their benefits to the Navy, NSRP members and industry partners
  - Work to increase collaboration with other panel

# Benefit to the Navy

- NSRP and SWSI provides a unique opportunity to connect the shipbuilder and the OEMs for combat system equipment and C5ISR equipment. Where before this connection did not exist
- SWSI bring the opportunity for shipbuilders and the OEMs to share perspective and potentially identify how small changes early in the design could have large saving in the future
- SWSI has help to identify opportunities that existed on other platforms and transition them to new classes of ships.
- SWSI is focused on the future changing today is hard but if shipbuilders and OEMs start talking now and understand what drives each others cost the future savings for the Navy could be significant

# Assistance to the state of the shipbuilding and ship repair industry

- SWSI is preparing for the future of shipbuilding
- As Combat and C5ISR system become more dependent on ship services (high power and demand of pulsed loads) SWSI is building the path for both
- By building these relationships now a foundation is being laid, so as the dependencies continue increase, between shipbuilders and OEMs, the relationship standard that can grow stronger and more beneficial to the industry

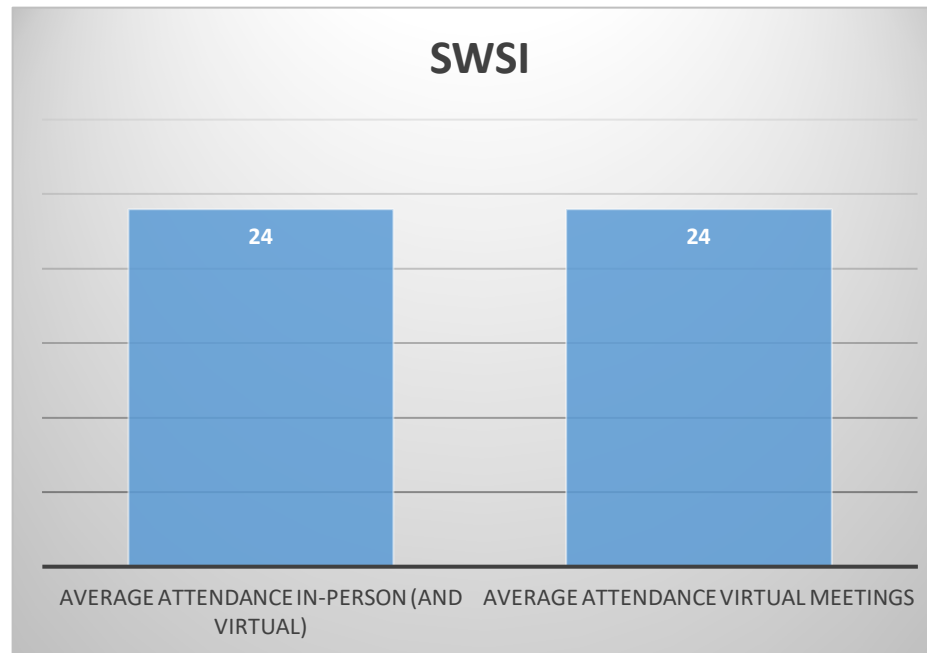


Focus on "lower hanging fruit" to support EASR CDR

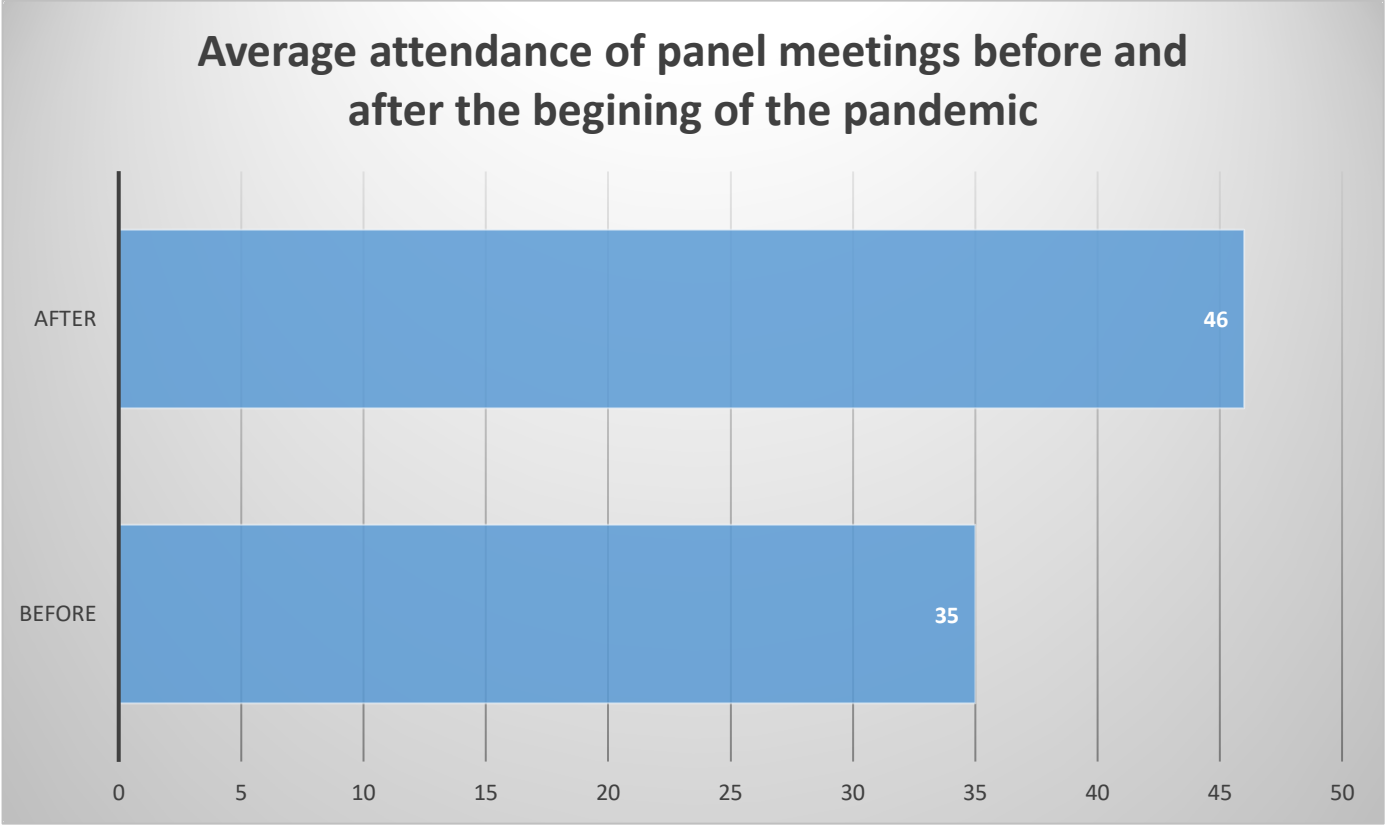
# Past and Current Projects

- ~17 panels projects have been completed
- One Special Pilot Project – Common Interface Pilot Program (CIPP)
- The majority of the Project focused on physical Interfaces been equipment and ship structure
- These efforts helped transition technology found on the Ford Class to LHA 8 and LPD 29 and follow (Flexible Infrastructure)
- Combat Systems Standard Foundations Qualification and Optimization –
  - The overarching goals are to reduce schedule pressure, initial equipment installation and technology refresh costs, and initial acquisition and sustainment costs for surface ships across Navy platforms by simplifying equipment foundations
- Performance Improvement for 25Hz DSSM Spring Tray –
  - The overarching goal will be to improve the shock test fixture so that testing can extended to more platform's with one test.

# Ship Warfare Systems Integration Meeting Attendance



# Overall Panel Meeting Attendance





# Questions?

