

NSRP

National Shipbuilding Research Program

Commonality Working Group (CWG)

Status of the CWG

Jim Salavejus, CWG Chair

Ed Gladue, CWG Vice-Chair

All Panel Meeting - Charleston, SC

March 9, 2017

Commonality (NAVSEA Definition)

Reduced variation in the application of systems, sub-systems, and components that meet cross platform requirements and provide optimum acquisition and life-cycle costs (i.e. total ownership costs).



Importance

“Maximizing Commonality across Platforms has tremendous potential to **reduce life cycle costs** and **improve the readiness of our fleet**. Significant savings can be achieved by implementing cross platform commonality to reduce the amount of unique systems, subsystems, and components in the fleet inventory.”

-Vice Admiral William H. Hilarides
Commander, Naval Sea Systems Command





Executive Control Board

Executive Director & Staff (ATI)

Extended Team

Major Initiatives

Ship Design & Material Technologies

Ship Production Technologies

Business Processes & Information Technologies

Infrastructure & Support

Commonality Working Group (CWG)

Panels

Ship Design & Material Technologies

Electrical Technologies

Business Technologies

Environmental

Ship Warfare Systems Integration

Planning, Production Processes & Facilities

Digital Shipbuilding Committee

Risk Management

Surface Preparation & Coatings

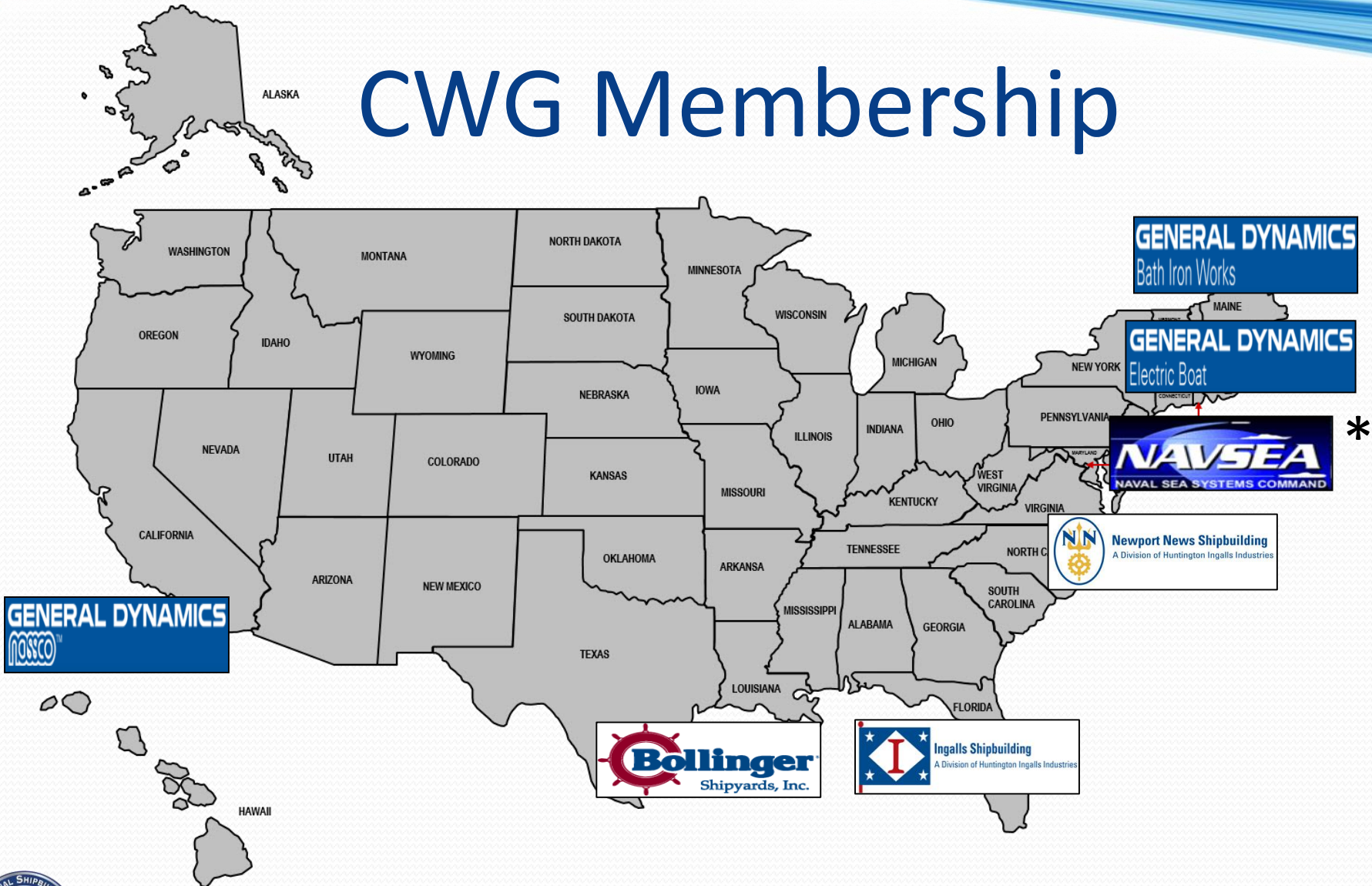
Workers' Compensation Safety & Health

Welding Technology

Workforce Development

Ad Hoc Group

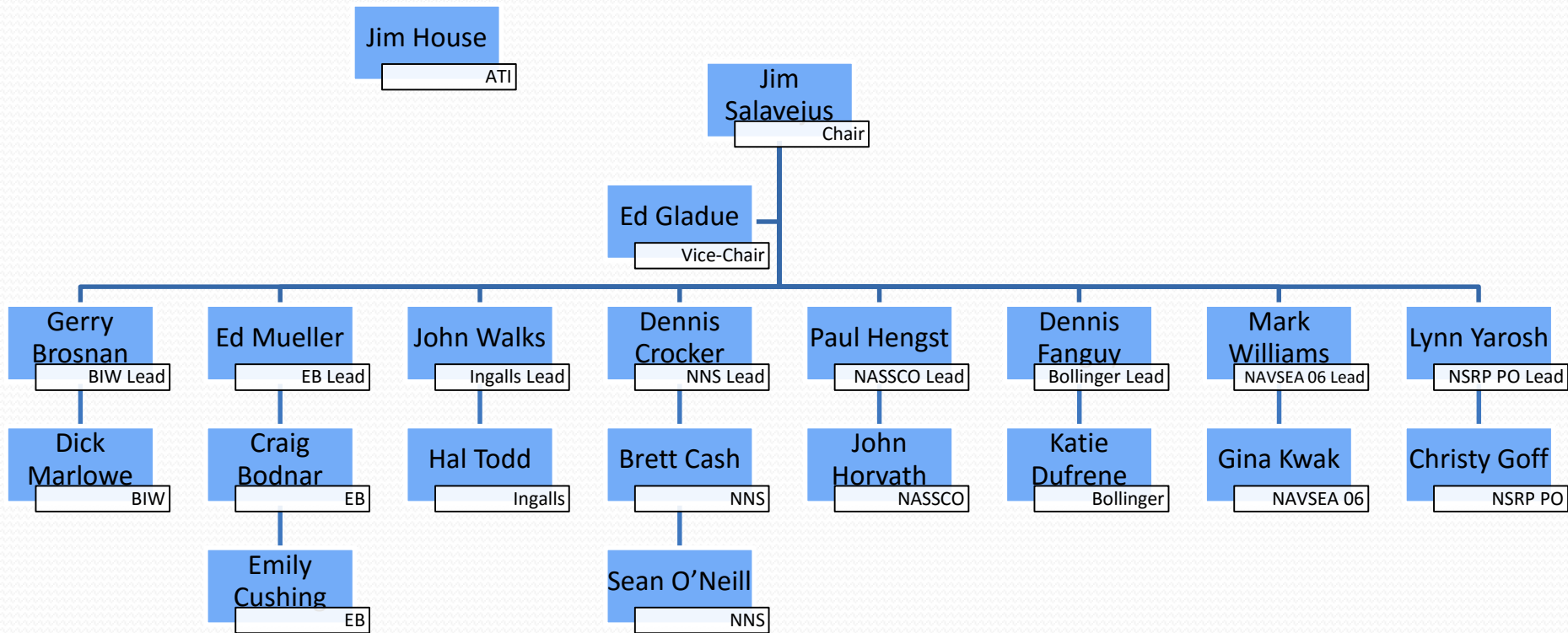
CWG Membership



* NAVSEA 06C, Enterprise Commonality Office



CWG Current Structure



CWGW Objectives

Established by the NSRP to accomplish the following:

- Identify the top barriers preventing material commonality across platforms and between shipyards
- Provide recommendations and a phased approach for overcoming each of the barriers identified
- Begin taking action to eliminate the barriers through panel projects and RA projects



Top 5 Recommendations

- Establish More Uniform Part Design Approval and Manufacturer Qualification Requirements (Across Contracts)
- Develop Consistent Inter/Intra Ship Class Contract Language
- Establish a Standard for the Navy and Shipyards to Identify Preferred Parts
- Navy Invoke Commonality for Specifications, Effective Dates, Approval Requirements, and Specification Modifications
- Establish Common Content and Format for Sharing Catalog Data



Additional Recommendations

- Establish Common Content and Format for Sharing Engineering (2D/3D) Data Models and Attributes
- Align Procurement Notes
- Establish and Maintain Part Equivalency Relationships with Parts 'Owned' by Other Participating Shipyards
- Part Template and Spec Profile Development
- Enter Into an Agreement to Exchange Material Requirement Identification and Acquisition Plan/Schedule Dates
- Enter Into an Agreement to Identify On-Hand Available Excess/Surplus Material Inventory
- Establish Navy Part Data in the CPC Including NSN, Procurement Data, Related Documentation, Qualifications, and Manuals



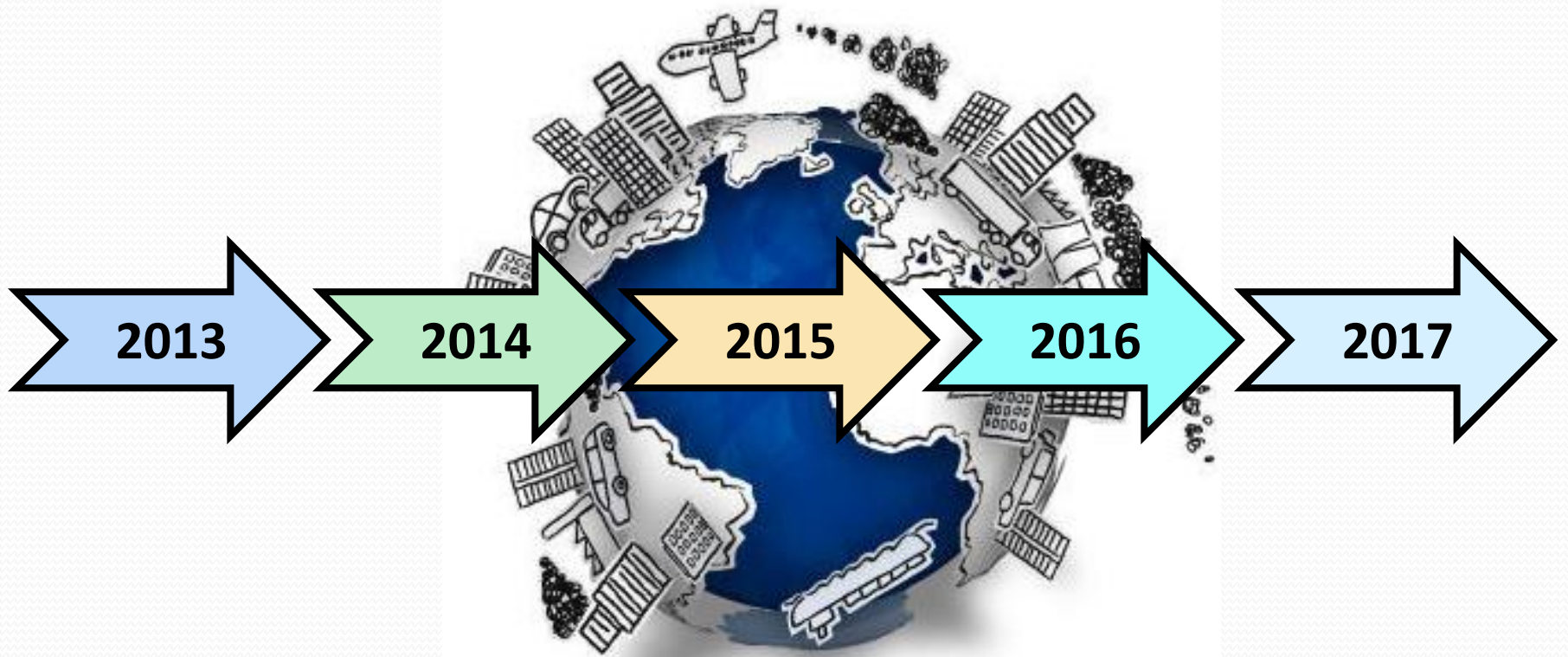
Top Strategic Focus Areas

1. Develop Consistent Contract Language
2. Invoke Common Specifications and Revisions
3. Establish Uniform Qualification Requirements
4. Establish a Standard to Identify Preferred Parts
5. Enable the Sharing of Material Catalog Data

Supplier Input Incorporated into Strategic Focus



CWG Timeline / Milestones

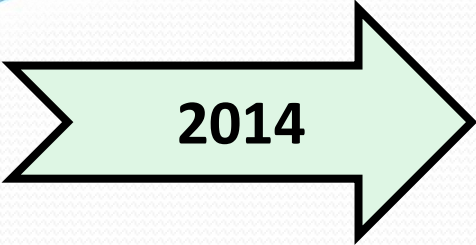




2013

- Completed CPC Enhancement Task and provided Strategic Initiative Recommendations to NSRP
- CWG formed by Executive Control Board (ECB) for Government and Industry collaboration
- Developed and conducted a consensus survey with 12 potential barriers to commonality to identify the Top 5
- Developed recommendations for a phased approach to address the Top 5 barriers identified

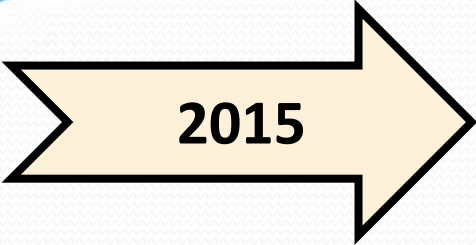




2014

- Joint meeting held at EB WEO between NAVSEA 06 and CWG to discuss funding, synergy, and strategy
- CWG awarded 2 panel projects to perform in 2015:
 - Shared Specification Effectivity Management
 - Shared Manufacturer Drawing Qualification Requirements
- Requested funding to develop a phased approach and repeatable process for conducting joint Deep Dives
- Reviewed and provided NAVSEA with feedback on draft commonality contract language

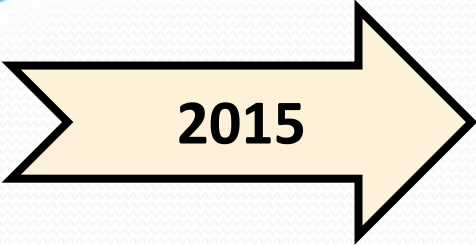




2015

- Established CWG By-Laws for conducting operations
- Successfully completed 2 panel projects approved in 2014
- CWG awarded 4 panel projects to perform in 2016:
 - Develop Process for Conducting Joint Deep Dives
 - Perform Shipyard Deep Dive on Vaneaxial Fans
 - Integrate Virtual Shelf Data into CPC and NNS Parts Catalog
 - Improvement to Supply Base Oversight Program
- Developed RA Project for CWG to perform requirement variation/standardization analyses on 8 commodities
 - Project wasn't selected by the Blue Ribbon Panel



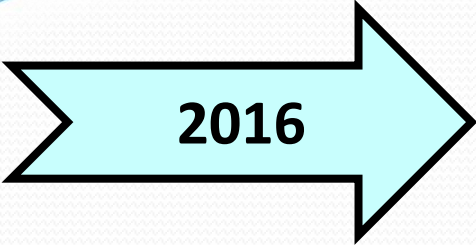


2015

CONT'D

- Reviewed and provided NAVSEA 06 with comments on S9000-AE-MAN-010, NAVSEA Commonality Handbook
- Developed commonality pilot project recommendations for new design program as requested by Sean Stackley, Assistant Secretary of the Navy
 - Joint meeting held at Washington Navy Yard to discuss
 - Recommendations presented to ECB at December meeting
 - White paper provided to SCRA in February 2016 which summarizes the CWG's recommendations

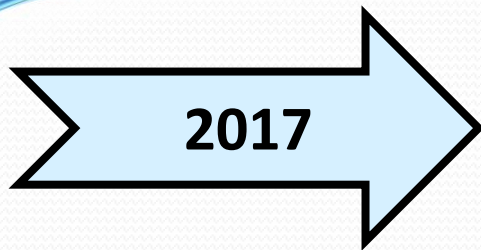




2016

- Held CWG 2016 Kick-Off Meeting at NNS
- Completed the following panel projects:
 - Develop Process for Conducting Joint Deep Dives
 - Perform Shipyard Deep Dive on Vaneaxial Fans
 - Integrate Virtual Shelf Data into CPC and NNS Parts Catalog
 - Improvement to Supply Base Oversight Program (ECD 5/31/17)
- Develop, solicit, and vote on panel projects for 2017





CWG Panel Projects:

- Commodity Variation and Standardization Analysis on Navy 525 Valves
- Providing Shipbuilding Suppliers with Digital Design and Manufacturing Information
- Develop Common Supplier Technical Assessment Criteria and Scoring Methodology



Major Accomplishments

- Identified the top barriers preventing material commonality and provided recommendations to overcome each barrier
- ECB has approved 9 different CWG submitted Panel Projects
- 5 of those Panel Projects have been completed
- Provided ECB with recommendations for commonality on a new ship design program to support Sean Stackley request

