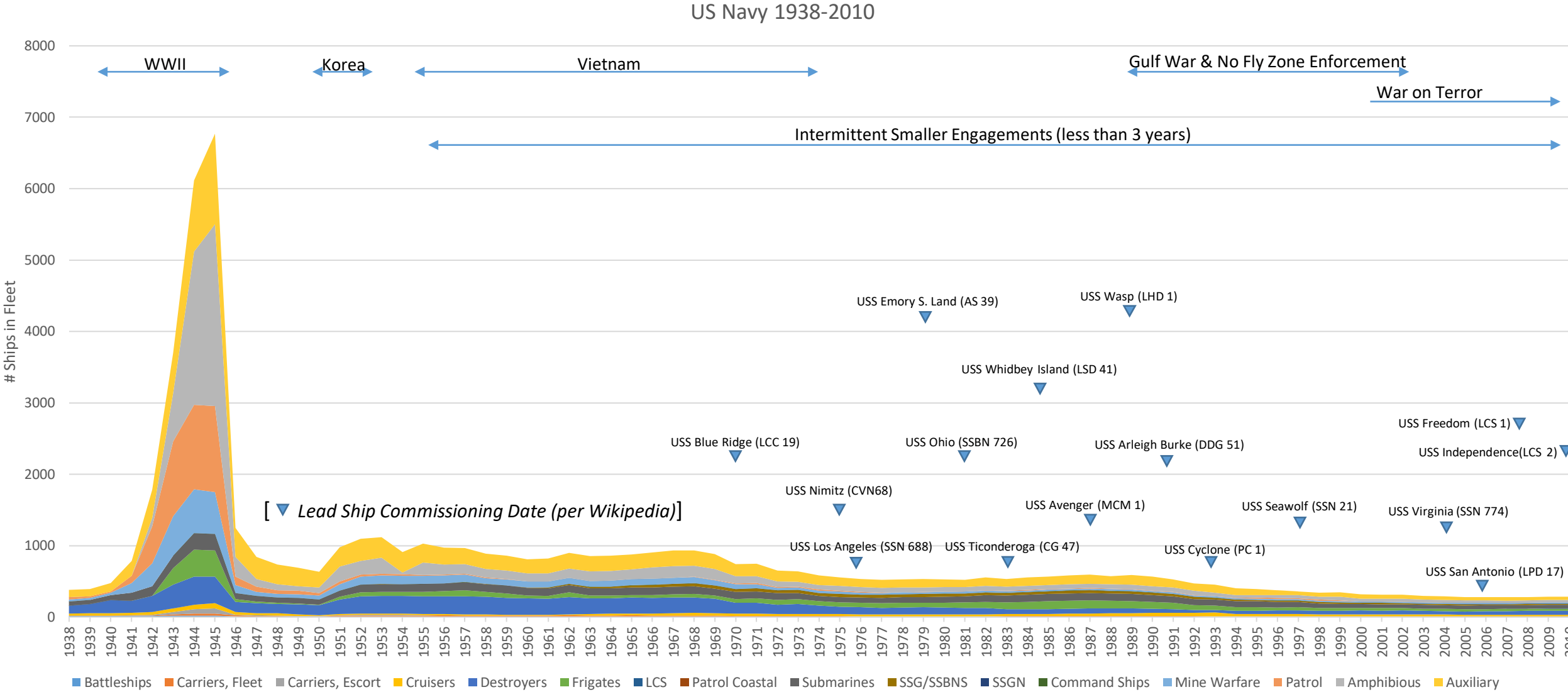


Benjamin Canilang

NSRP Program Manager



Fleet Size History



Source: Naval History and Heritage Command Website (www.history.navy.mil)

Where we are today

- Oldest ship in-service is 53 years old (USS Blue Ridge)
- Most numerous surface ship introduced 32 years ago (USS Arleigh Burke)
- We can't ramp up production today like we did in the early 1940s BUT our platforms today are MUCH more capable albeit far fewer in number
- If the fight starts tomorrow....
 - Need to keep the capability we have operational (sustainment)
 - Need to deploy not just the platforms but the skills and capability to support them (knowledge management)
 - Need to think differently
 - The Pacific isn't the Atlantic
 - The 'distance' in 'distance support' will be half-way around the globe
 - The skills and capabilities we have CONUS will need to be 'deployed'

Close engagement and teaming with industry is the only path to success

Where we are tomorrow...

...depends on what we do today to drive towards:

Improved capability and capacity of the workforce

Improved speed at which we construct, assess, overhaul, repair, upgrade, etc. every platform

Reduced time each platform is unavailable for mission tasking

Reduced cost to build and sustain platforms through their life cycle

Measurable outcomes combined with honest and transparent communication is key

Part of how we get there

- Communication
 - Both within and out from our organizations
 - Know where you stand, where your audience stands, see things from their perspective, and make sure they understand how what you do impacts them
- Alignment
 - Show how 'good ideas' fit the bigger picture (tele-welding and camera in the torch help increase capacity and resilience of a limited workforce)
 - Show how 'good ideas' work in combination with other 'good ideas' to create a combined effect (WDM + optical fiber fusion splicing together enhance capacity and sustainability of data transmission capability aboard ship)
- Scalability
 - Poor: 100% solutions for a single problem at a single vendor don't help
 - Better: 80% solutions for a variety of problems with 20% 'tweaking' as needed
 - Best: Agnostic solutions across a whole area

Good Examples

- Standard watertight doors
 - Reduce the number of unique items required aboard ship
 - Reduce the cost associated by leveraging off economies of scale (make a lot of 1 thing vs. make a little of multiple things)
- Tele-welding and Camera in the Torch
 - Improve capability and longevity of ship welders by reducing stresses on the body (awkward physical positions and eye-strain)
- Mechanically Attached Fittings
 - Reduced time and cost via elimination of hot work

