Naval S&T: Delivering Disruptive Technologies with Affordable Asymmetric Advantages

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Naval technologies have always had leap ahead moments ...

Photo courtesy of Ramón Purcell Photography



... but at what cost?

Photo courtesy of Ramón Purcell Photography-



Budget Realities

Navy S&T must always consider the total cost of our new technological advances while working within the constraints of the S&T budget

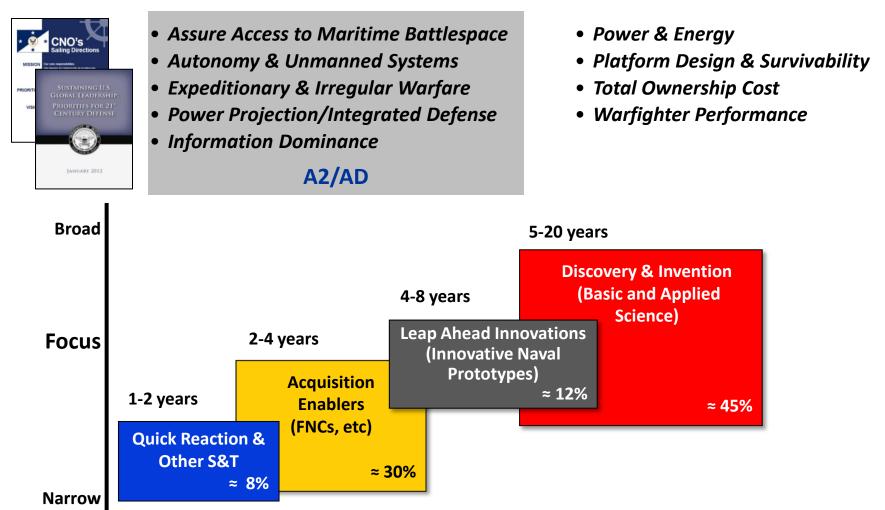
How do we do that?





Naval S&T Strategic Plan

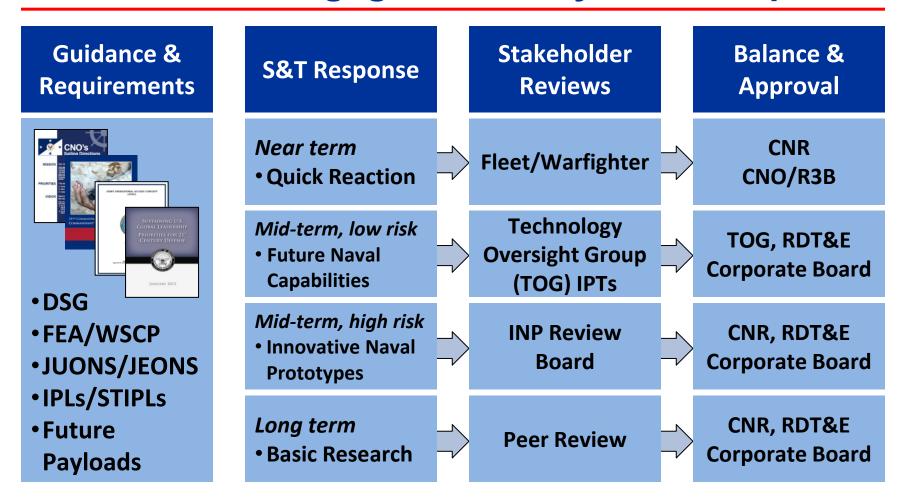
All Naval S&T falls under one or more of these nine focus areas:



Near



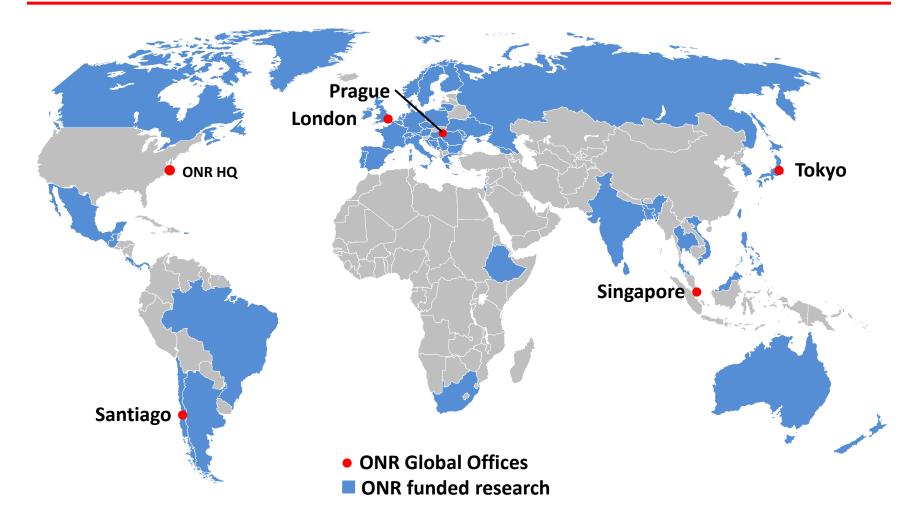
Focus on the needs of the Warfighter and engage with Navy leadership ...



Requirements Driven – Transition Oriented!



... and Maintain a Global Perspective



Avoid technological surprise, Leverage advanced technology from wherever we find it



Affordable Asymmetric Advantages Not an oxymoron

EM Railgun

• Multi-use weapon at \$25K per round ...

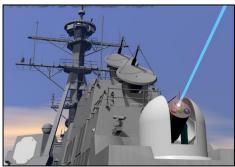
LDUUV

• ISR at a fraction of the cost of an SSN

Solid State Laser

Less than \$1 per "shot"





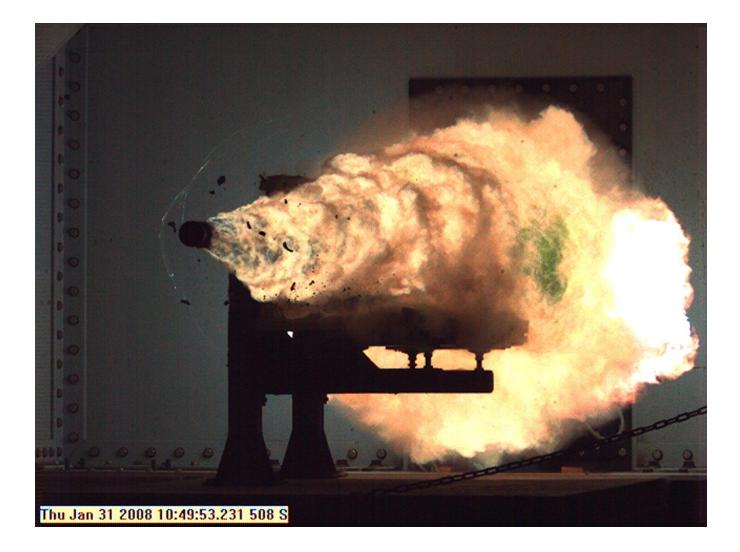


EM Railgun ... Fiction?



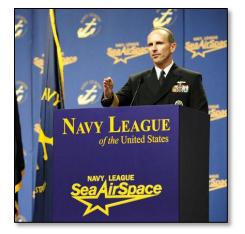


EM Railgun ... Fact





Laser Weapon ... at Sea in 2014



"Next year we will deploy a laser system onboard USS PONCE for operational testing in the Arabian Gulf."

> Admiral Greenert, USN Chief of Naval Operations





ONR's Mission

DISCOVER, DEVELOP and TRANSITION innovative science and technology to meet the needs of naval forces for today and tomorrow ...