

# Strategic Systems Programs SBIR Overview



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# *Strategic Systems Programs (SSP)*

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## Mission Statement

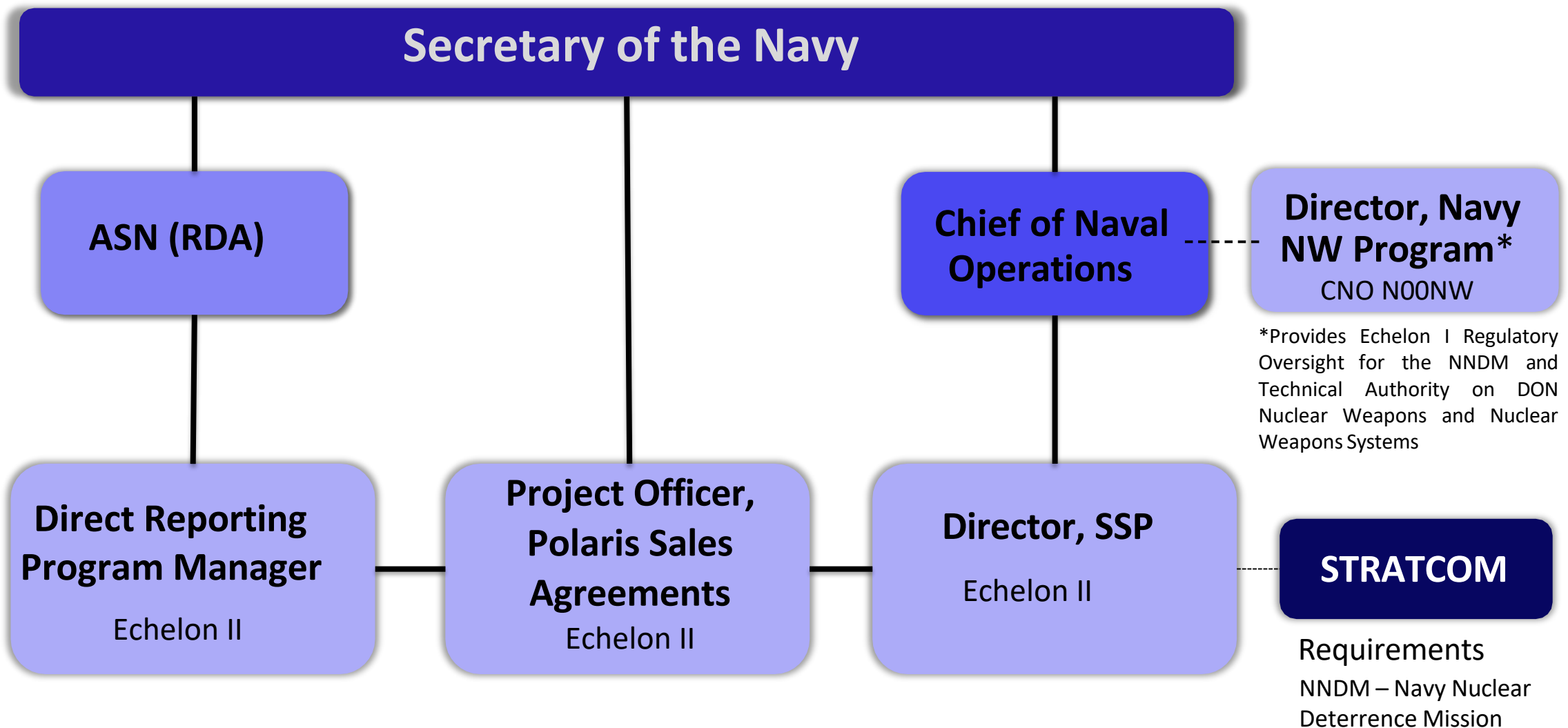
Be the Nation's premier provider of cost effective, safe, and secure sea- based strategic deterrent solutions and grow the intellectual capital to deliver Sea Based Strategic Deterrent (SBSD) 2084

## Vision Statement

Deter strategic attack by Providing Credible and Affordable nuclear and non-nuclear Strategic Solutions to the Warfighter to underwrite the security of our Nation and our allies through 2084



# SSP Organizational Relationships





# Strategic Deterrence



A1 Polaris  
1960



C3 Poseidon  
1971



D5 Trident II  
1990



The Columbia Class Submarine (CLB) program is initiated to extend SSBN availability through 2084  
2007



D5LE Trident II  
2018



Life Extension 2 (LE2) Program  
2020

The Strategic Deterrence is Core Mission; all others build from it

## D5

- Latest and most capable missile
- 170+ successful test flights
- Service life will be twice that of the C4

## Life Extension

- Increase missile life to match platform
- Modernize electronics, maintain single population of missiles
- Mk4A/Mk5 warhead Life Extension

65 Year History of Strategic Systems Production and Development





# SSP's Business Lines



**Nuclear Weapons Surety (NWS)**



**Strategic Weapons Systems (SWS)**



**Naval Treaty Implementation Program**



**SSGN Attack Weapons System (AWS)**



**Emerging Missions**



**Conventional Prompt Strike (CPS)**



# ***Cradle to Grave Responsibility***

*Mission Oriented*

*Technical Authority*

*Regulatory Lead*

## **Research & Design**

- Spiral Development
- Concepts & Evolutions



## **Production**

- Manufacturing
- Testing



## **Deployment/ Ops Support**

- Protection
- Logistics
- Training



## **Operational Support**

- Fleet Support
- Disposal
- Installation
- Maintenance
- Repair



*Understand Full Lifecycle Costs*

*Cost Trade-Offs from a System Perspective*

**Effective and Efficient Program Management  
Best Value Approach**

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# *The SSP Team*

SSP Headquarters  
is located at the  
Washington Navy  
Yard in  
Washington, DC

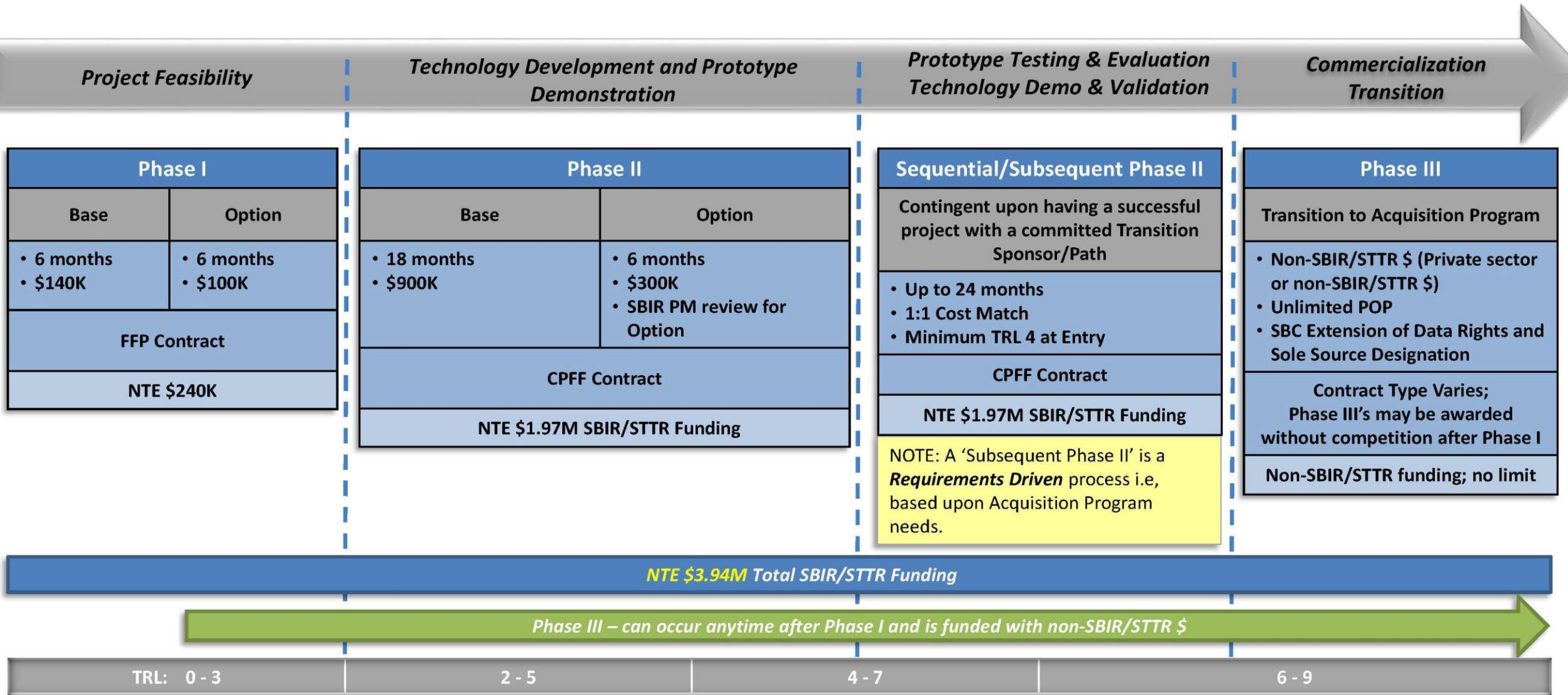
With offices locate  
throughout the US  
and a detachment  
in the United  
Kingdom







# SBIR Timeline and Award Structure (Current)







# SBIR Timeline and Award Structure (26.1 and Forward)

## Project Feasibility

### Phase I

#### Base

- 6 months
- \$140K

#### Option

- 6 months
- \$100K

FFP Contract

NTE \$240K

## Technology Development and Prototype Demonstration

### Phase II

#### Base

- 18 months
- \$1.2M

#### Phase II Option #1

- 6 months
- \$400K
- SBIR PM Review for 2<sup>nd</sup> Option

#### Phase II Option #2

- 6 months
- \$400K

CPFF Contract

NTE \$2M SBIR/STTR Funding

## Prototype Testing & Evaluation Technology Demo & Validation

### Sequential/Subsequent Phase II

Contingent upon having a successful project with a committed Transition Sponsor/Path

- Up to 24 months
- 1:1 Cost Match
- Minimum TRL 4 at Entry

CPFF Contract

NTE \$2M SBIR/STTR Funding

NOTE: A 'Subsequent Phase II' is a **Requirements Driven** process i.e, based upon Acquisition Program needs.

## Commercialization Transition

### Phase III

Transition to Acquisition Program

- Non-SBIR/STTR \$ (Private sector or non-SBIR/STTR \$)
- Unlimited POP
- SBC Extension of Data Rights and Sole Source Designation

Contract Type Varies; Phase III's may be awarded without competition after Phase I

Non-SBIR/STTR funding; no limit

NTE \$4,240,000 Total SBIR/STTR Funding

Phase III – can occur anytime after Phase I and is funded with non-SBIR/STTR \$

TRL: 0 - 3

2 - 5

4 - 7

6 - 9



# Conclusion

*"From the start of this program, the special partnership and close collaboration between the government and industry has played a critical role in the sustained success of the fleet ballistic missile program, a program that truly sets the world standard for weapon system performance, safety, and reliability. Now more than ever, we as a government and industry team must be good stewards of every dollar the American people invest in us to provide sea based strategic deterrence."*

**- VADM Johnny R. Wolfe, Jr.**  
**Director, Strategic Systems Programs**

