Accelerating America's Advantage at Sea

NAVY OFFICE OF INFORMATION

The Need for a Strong Navy

Global maritime shipping lanes and key geographic choke points

AMERICA'S NAVY

26%
OF U.S. MANUFACTURING
JOBS DEPEND ON EXPORTS

26%
OF U.S. JOBS ARE TIED TO
GLOBAL TRADE

20%
OF U.S. AGRICULTURAL
PRODUCTS ARE SOLD
OVERSEAS

AMERICA'S NAVY
OPERATIONS UPDATE

Decisive Naval Power
Protects American Prosperity

Global Competition: Influence

AMERICA'S NAVY

Strengthen
Integrated Deterrence

Allies and Partners

Remain Our Key Strategic Advantage

AMERICA'S NAVY

Campaign Forward
to Deter Aggression and Support Allies

Build Enduring
Warfighting Advantages

AMERICA'S NAVY

Recruit and Retain
Skilled Sailors

Surface Warfare

Undersea Warfare

Air Warfare

AMERICA'S NAVY

Special Warfare

Explosive Ordnance Disposal

AMERICA'S NAVY

Information Warfare

The Submarine Industrial Base Challenge

Must attract, train, hire ~10k new skilled workers per year over next 10 years while improving retention

More than 5x increase in workload demand from 2015 - 2026

Includes CLB Class

Includes 28 of "41 for Freedom"

Includes OHIO Class

Today

A-1 Weights of Submarines in Construction (Long Tons)

200,000

150,000

100,000

50,000

0

The Battle Spaces we <u>Must</u> Win

Battle #1: *Surging Demand, Uneven Response*

— Existing SIB capability and capacity are insufficient to meet the current and future demand for submarine construction and sustainment activities. To shore up the required resiliency and robustness in critical SIB markets and suppliers, the Enterprise must demand communication and collaboration around the magnitude, prioritization, and timing of efforts.

Battle #2: *A War for Talent*

— Addressing workforce challenges requires actions and levers across a continuum of models, velocity, and people. We must build <u>and fill</u> industrial base talent pipelines across every part of the spectrum, while concurrently improving retention, culture, and mission connection.

Battle #3: *Technology at Scale*

— Manufacturing technology that supports workforce efficiency/effectiveness (automated welding, robotics, and additive manufacturing) is not effectively deployed across the SIB. Navy and industry must collectively make strategic and aggressive decisions that appropriately balance risks and opportunities.

Battle #4: *Weaponizing Data Analytics*

— The Submarine Enterprise must quantitatively and qualitatively describe challenges, gaps, and the impact of efforts/investments. Data-driven, data-informed decisions are an absolute requirement to drive the required levels of urgency and to transition culture in a way that sustains success.

Battle #5: *Building a Strategic Network of Disciples and Diplomats*

— SIB workforce and manufacturing challenges are too great for any single company, region, or organization to "own" and fix. To achieve the required levels of scale and speed, efforts must be a "whole of Government, whole of Industry" approach that demands accountability and action, and leverages champions and advocacy at every level.

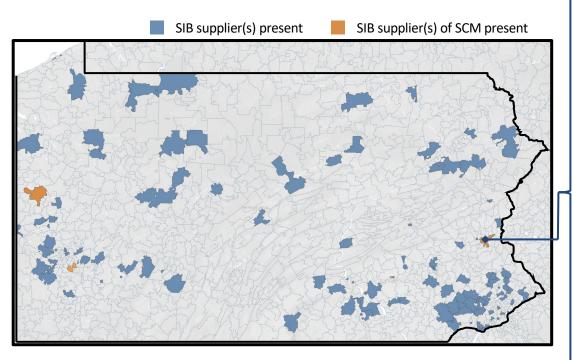# Submarine industrial base (SIB) footprint in Pennsylvania

$250M+

Supplier development funding infused into PA since 2018, including **$87M Cares act funding**

570+

Submarine industrial base suppliers in PA

39

Critical suppliers in PA, including **39 WAVE VI suppliers** and **19 suppliers providing Sequence Critical Material (SCM)**

■ SIB supplier(s) present   ■ SIB supplier(s) of SCM present

Bethlehem by the numbers:

$51M+

Total supplier development funding in Bethlehem area since 2018

$27M+

Supplier development funding into Curtiss Wright Flow Control Corporation

CURTISS WRIGHT Flow Control Company

$23M+

Supplier development funding into Lehigh Heavy Forge Corporation

LEHIGH HEAVY FORGE

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SIB suppliers in Bethlehem