



Gold Coast Small Business Event

Patrick Tyler

26 August 2015



Today's Submarine Force

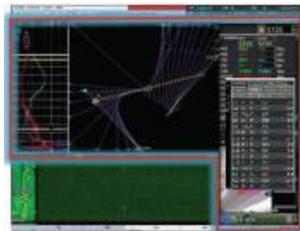
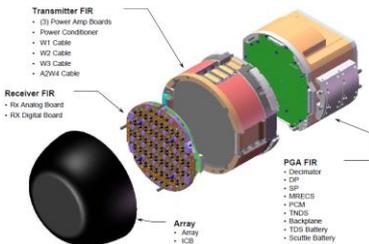
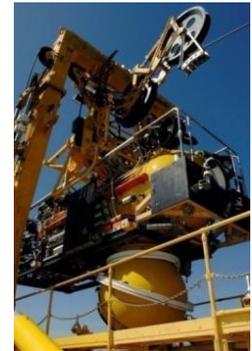
The U.S. Submarine Force consists of 56 attack submarines (SSNs), 14 ballistic missile submarines (SSBNs), and 4 guided missile submarines (SSGNs)





Team Submarine Portfolio

- VIRGINIA Class SSN
- OHIO Class Replacement
- Torpedo Defense Systems (Surface Ship and Submarine)
- Periscopes, Photonics, Imaging Systems
- Integrated Undersea Surveillance System
- Electronic Warfare Systems and Antennas
- Sonar Systems and Sensors (A-RCI)
- MK 48 Heavyweight Torpedo
- MK 54 Lightweight Torpedo
- Advanced Undersea Systems
- In-service Dry Deck Shelters
- Submarine Safety and Quality Assurance
- Submarine Trainers
- Submarine Rescue
- Undersea Technologies
- Combat and Weapons Control System (AN/BYG-1)





TEAM SUB FY16 SBIR Focus Areas

- Algorithms for Sonar, Fire Control System, Torpedoes, Imaging, ESM and RADAR
- Submarine training technology
- Life cycle cost reduction
- Reliability improvement
- Material improvement
- Special Operations Forces Integration with host submarines
- Navigation System Improvements
- Torpedoes, Components and Torpedo Defense
- Unmanned Vessels and Vehicles
- Communications
- SUBSAFE





PEO-SUB SBIR Transitions

PEO SUB: >\$1.5B in active Phase III Contracts!

Cardinal Engineering / Weidlinger Associates
Shock Analysis

www technologies
Ship Control Architecture

CCSM
Planning Systems Inc
GCCS Development &
COTS Applications

DSR
Advanced Information Systems
Software Migration Legacy Trainer
Photonics Mast Workstation

Rite Solutions
Mission/engagement planning s/w

Progeny
Audio Signals
Active Emissions
Information Assurance
AN/WLR-1 AI&R
Manning Reduction

Trident Systems
Mobile Computing for
Submarine Applications

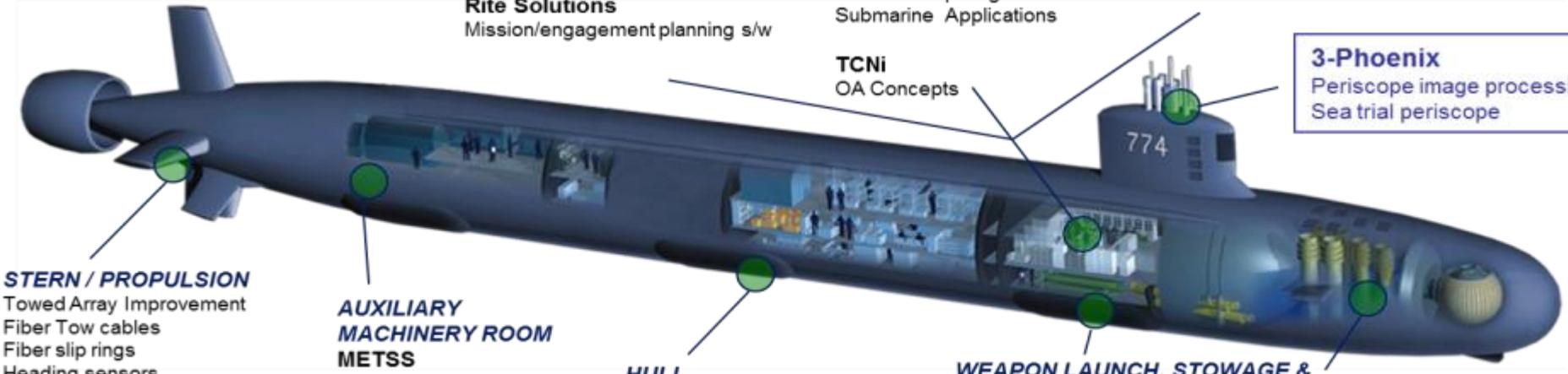
TCNi
OA Concepts

Rite Solutions
Combat System of
the Future planning

Chesapeake Science Corp.
TSMS Telemetry

Jackpine Technologies
Common Submarine Radio Room Software

3-Phoenix
Periscope image processing
Sea trial periscope



STERN / PROPULSION
Towed Array Improvement
Fiber Tow cables
Fiber slip rings
Heading sensors
telemetry
Chesapeake Sciences Corp

AUXILIARY MACHINERY ROOM
METSS
Synthetic Lubricating &
Hydraulic Oil

HULL
Compudrive
Electromechanical
Actuators

Seeman Composites
Non-Autoclave Composite
Systems and fairings

AAC
Acoustic sensors

WEAPON LAUNCH, STOWAGE & HANDLING
Progeny
Tools for VME Interactive
Acoustic Analysis Process
Multi Tube Weapon Simulator
Common Weapon Launcher
Pacific Engineering Inc. (PEI)
Ready Stow Group (RSG) Launch
Cradle

TRI
Composite Torpedo Room Temp
Berthing and weapon handling cradles



SBIR Reasons:

1. Risk reduction
2. Technology insertion
3. Obsolete component replacements
4. Establish competition where there is none