Boston Engineering: BEEP and Family of Sustainment Assisting Robots

PROBLEM STATEMENT

- The defense industrial base has significantly deteriorated over past two decades.

- Years of knowledge is being lost with the retiring workforce.

- New workforce is not excited or attracted to sustainment and maintenance jobs.

- Budgets shortfalls requires establishment of cost efficient and effective solutions.

- Weapon system availabilities still too low.

BENEFITS

- Adds advanced capabilities at a lower overall cost.
- Captures/retains experience and knowledge before it leaves.
- Extends access to the retired or retiring workforce
- Increases efficiency of sustainment and maintenance.
- Reduces training costs through commonality and standards
- Reduces spare parts costs.
- Reduces non-recurring engineering costs – avoid companies re-inventing the wheel.
- Reduces pressure to buy more systems by keeping existing systems available.
- Reduces specialization and propensity to buy the same payload for each different platform.

TECHNOLOGY SOLUTION

Family of Sustainment Assisting Robotics (FOSAR)

- Creates common tools and capabilities to extend effectiveness of fewer available workers.

- Captures "gray hair" knowledge and extend access to those willing to work part-time.

- Provides advanced and train visual and smart connected tools attractive to new workers

- Provides commonality, open software, reduced spare part amounts and costs, and reduce training time

- Keeps our weapon systems "in the fight"; increasing competitiveness of our private and public facilities.
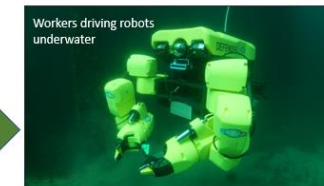
GRAPHIC

Developing/Demonstrating New Maintenance & Sustainment Technologies

Divers working underwater

We are developing and providing robotic systems and digital tools to assist workers in the execution of their jobs

Reduce Danger to Workers

Workers driving robots underwater

Many hours to prepare

FOSAR speeds work execution, reduces costs and keeps our weapons systems ready for the fight (when they are needed).

Reduce Hours to Maintain

Workers driving robots without scaffolding