



Warfighter Performance Department: Code 34

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HUMAN AND

BIOLOGICAL

SYSTEMS

Vision: Better Decisions.

Information Warfare & Future Conflict

Vision: Shaping & **Understanding Attitudes & Behaviors**

Intelligent & **Autonomous Systems**

Vision: Intelligent Autonomy To Enable Human-Machine Team As a Force Multiplier

Decision Sciences

Faster

Human Research Protection Program

Vision: Preserve the rights and welfare of human subjects in Naval- supported research

Human Performance

Vision: Win in Extreme **Environments**

Medical

Vision: Assured Warfighter Health, Survivability, & Recovery

Manpower, Personnel, **Training, & Education**

Vision: Outthink, Outfight Any **Adversary**

Biocentric Technologies

Vision: Naval Innovation Driven By **Biological Principles**



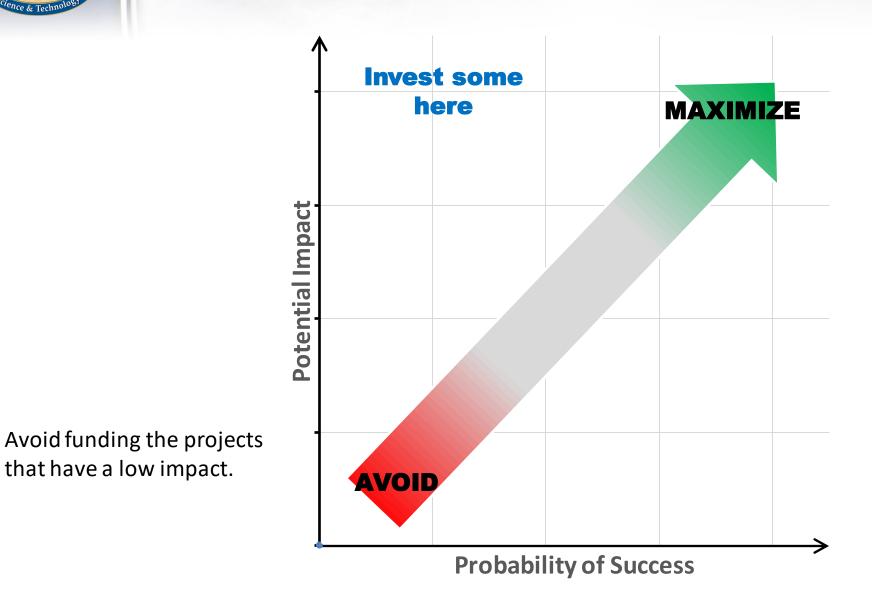
How we conceptualize potential impact





that have a low impact.

Some of the ways we balance our portfolio

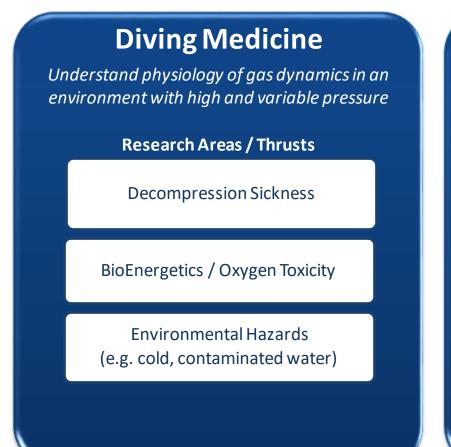


Maximize the number of projects we fund that have a high probability of success and a high potential impact.



Warfighter Performance (Code 34) Undersea Medicine and Performance Research Program

Program Goal: Develop novel approaches to undersea biomedical issues to **operate deeper, longer, safer, and cheaper** in the undersea environment.





Note: Funding is not equally divided among thrusts.

Funding levels shift between thrusts to balance needs / opportunities while maintaining a stable and enduring foundation of research.



Charge to the Committee

Given our limited budget, we must be highly selective on what we fund and are seeking input to help us do that:

- 1. Determine the highest priority of research to fund for the Navy in the area of undersea medicine and performance.
- 2. Identify knowledge gaps and potential payoff for filling which gaps first. What level of investment would be needed?
- 3. Are there "low hanging fruit" that we're missing?
 - Where can we make a short-term investment and get a big return quickly?

Funding considerations

- 1. Potential impact to the Navy
- 2. Stakeholder driven need; supporting requirements
- 3. Current and future S&T gaps
- 4. Collaborations / external investments
- 5. Balanced portfolio composition
 - Revolutionary, high-risk S&T that may not payoff vs. incremental, low-risk advancements likely to make an impact
 - Near vs. long-term impact and ROI
 - Opportunities to lead, leverage, enable RDT&E