



# SpringBoard

Maximizing Technology Transfer Opportunities for DOD

DEPARTMENT OF DEFENSE PARTNERSHIP INTERMEDIARY

Multimillion-dollar projects offer opportunities for DoD technologies in the energy, mining, transportation, aerospace, environmental, and forest products industries. Maximizing the benefits of being in Alaska, the SpringBoard team creates technology transfer opportunities for Department of Defense laboratories and the private sector anywhere in the nation. Working with key national industrial sectors that have significant footprints in our region, we determine the current and developing innovation needs and discover collaborative technology transfer partnership opportunities.

TECHNOLOGY TRANSFER

## Marine

### SpringBoard's Focus on the Marine Sector

- Alaska has more coastline than the rest of the United States combined
- Alaska fisheries average over \$11 billion per year and account for nearly 40 percent of the dollar value of fish and seafood landed in the United States
- The seasonal cruise industry injects \$1.35 billion into the Alaska economy each year
- Marine debris presents a significant environmental challenge



PHOTO: MICHAEL PENN

With more than 35,000 miles of mostly uninhabited, roadless coastline, Alaska's ocean and inland waterways support the largest array of commercial fisheries in North America and serve as major international, interstate and intrastate transportation routes for cargo and passengers.

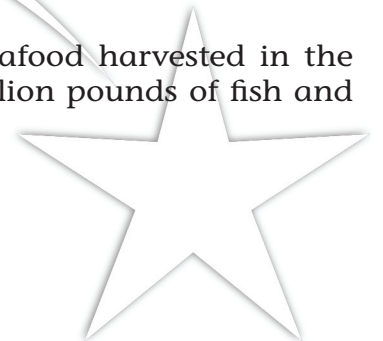
More than 60 percent of the commercial seafood harvested in the United States comes from Alaska—over five billion pounds of fish and shellfish annually.



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Alaska also leads the nation in identifying and responding to environmental risks associated with marine transportation. The state has spurred the cruise industry in particular to develop and install new technologies for reducing waste, and in 2006 Alaska voters passed the only state law in the country to require vessels to meet water quality standards at the point of discharge.

The combined factors of Alaska's high volume of marine traffic and the pattern of ocean currents result in vast quantities of marine debris on the state's shores. In addition, remote coastal communities that lack road connections have inadequate means of waste disposal, leading to further impacts on the marine environment.

## Marine Sector Technology Needs



PHOTO: MICHAEL PENN

### Fishing/Seafood Processing

- Fishing gear modifications to reduce unwanted by-catch
- Smart trawls aimed at reducing environmental impacts
- Fish behavior research relative to changing environmental conditions
- Sterilization processes to produce better and more varied field rations for soldiers

### Cruise Industry

- Application of land-based technologies to the marine environment
- Wastewater treatment systems that can consistently meet long-term effluent limits for ammonia, copper, nickel, and zinc

### Marine Debris

- Biodegradable plastics
- State-of-the-art plastics disposal technologies
- Management and disposal technologies for retired and derelict fishing gear



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