

Acquisition Directorate

Research & Development Center

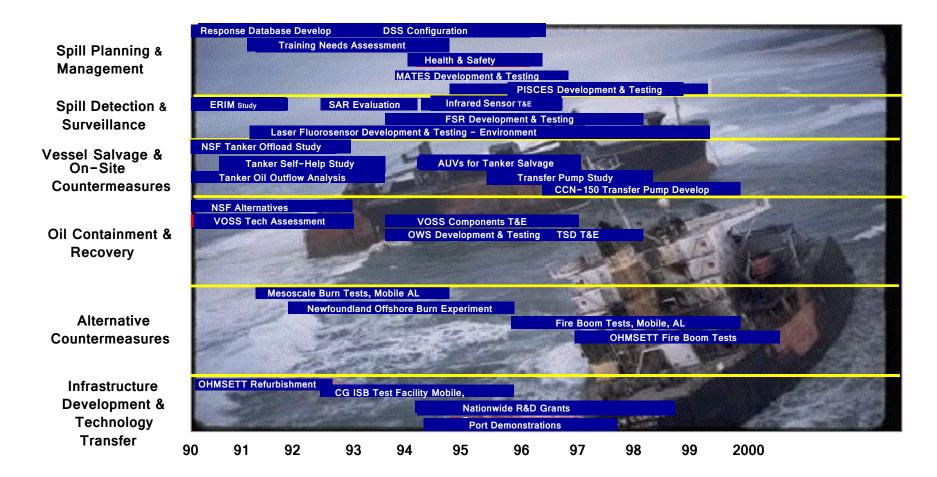
Mitigation Research

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RDC | Kurt Hansen (UNCLAS) Marine Technology Society Tech Surge – Oil Spill Mitigation February 5, 2018



RDT&E Funded Projects Using OSLTF 1990-1999

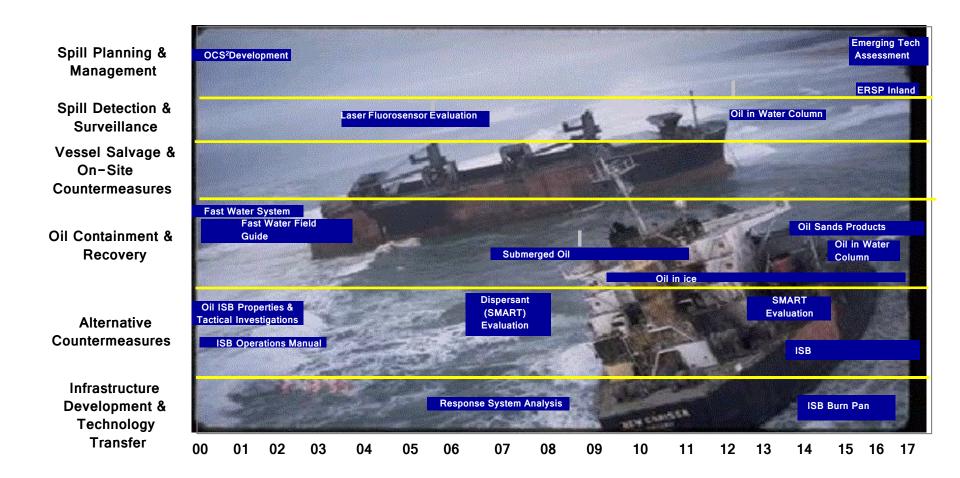


Wide Variety of Products Were Developed for CG use



UNCLASS/R&D Center

RDT&E Funded Projects 2000-Present





Testing and Demonstrations (Applied Research in the Field)

JMTF, Mobile AL Galveston, TX Ohmsett Sa Facility Great Lakes





BSEE

UNCLASS/R&D Center

Recent Efforts

CG RDC

- Response to Oil-in-Ice
- Response to Oil Sands Products
- Response to Submerged and Sunken Oil (in water column and on bottom) http://www.dtic.mil/dtic/search/tr/tr.html

Bureau of Safety and Environmental Enforcement

- Multiple in-situ burn projects
 - Increasing efficiency
 - Measuring efficiency
- Tagging oil in ice
- **RFID** with heave/pitch/roll sensors
- Recovery sensors (in-line)

https://www.bsee.gov/what-we-do/research/oil-spill-preparedness/oil-spill-response-research



Improvements Needed (Operational)

Mechanical Recovery

- Sensors to improve automation
 - Skimmer Performance (thickness, throughput, oil level in storage)
 - Oil/water analysis
- Detect and recover simultaneously (sonar, laser fluorometer or laser scanning, etc)
- Finding oil in sand/silt

In-situ Burning

- Sensors in fire
- Sensors on boom

Dispersants

- Sensors for tracking plums in near-real time
- Comparison of surface versus subsurface movement
- Remote Long Range Monitoring



Questions

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