

# Overall CRRC Mission

- Develop new approaches to spill response and restoration through research/synthesis of information
- Serve as a resource for ORR and NOAA
- Serve as a hub for spill research, development, and technical transfer
  - Oil spill community (e.g., Regional Response Teams, National and International R&D efforts, multi-organizational partnerships)

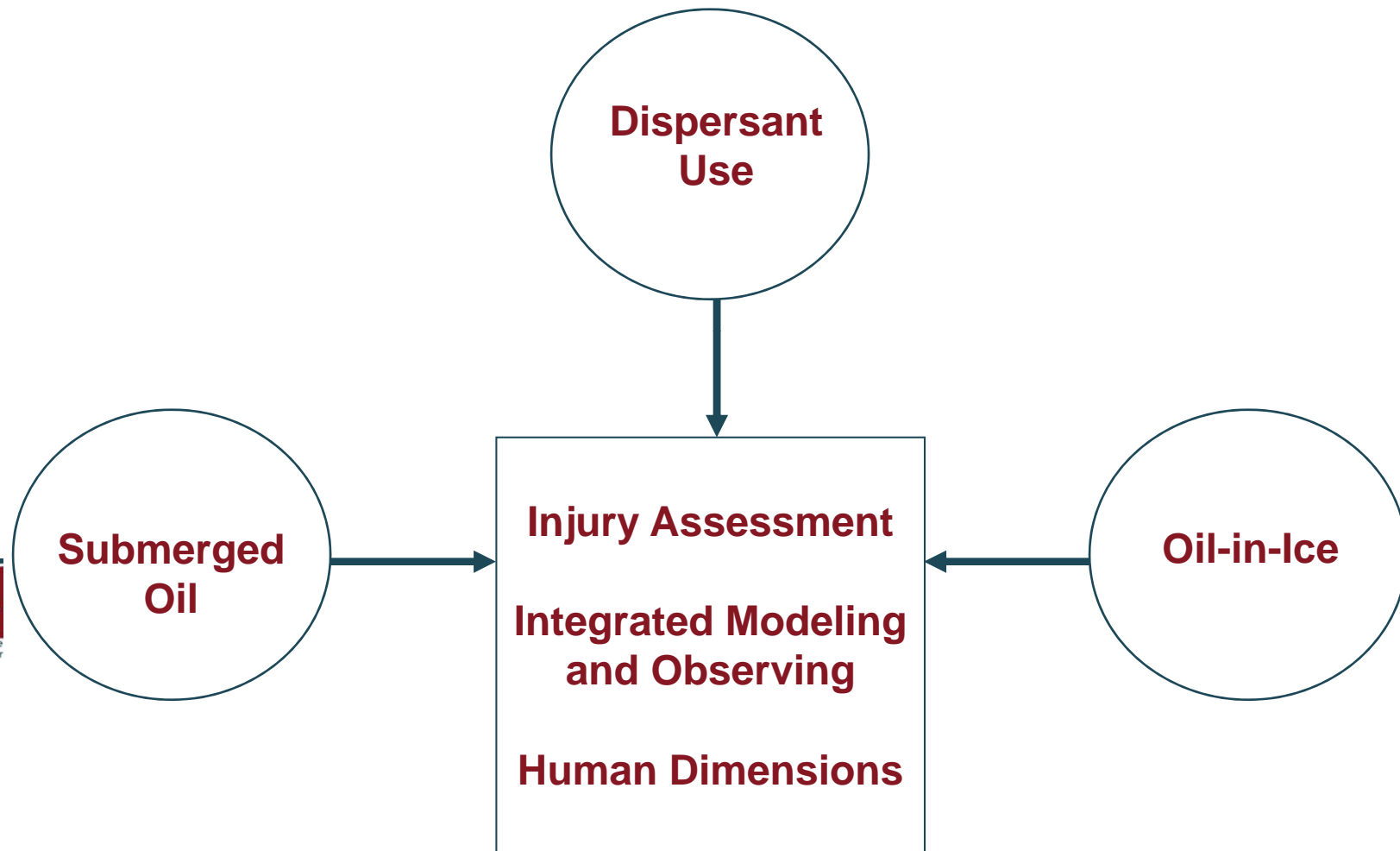


# CRRC's Strategic Plan

- 3-5 year horizon starting in 2007
- Three topics of CRRC focus
  - Dispersant use
  - Submerged oil
  - Oil-in-Ice
- Within each topic, three areas of emphasis
  - Injury Assessment
  - Integrated Modeling and Ocean Observing
  - Human Dimensions



# Focus Topics



# Efficacy/Effects of Dispersant Use

- Dispersant-related issues CRRC focus since inception
  - NRC Report - 2005
  - Annual RFP topic
  - Sept 2005 Workshop
  - CRRC leads Dispersants Working Group (DWG)
- Dispersants emphasis continues because of:
  - Continued DWG efforts pending US Coast Guard (USCG) near-shore dispersant requirements in Spring 2007
  - Questions remain



# Dispersants Initiative

- NRC report on dispersants efficacy and effects recommended:
  - Integration of research plans
  - Need for peer-reviewed information and environmentally-meaningful studies
  - CRRC's mission to address national issues related to spills
    - Act as a hub for oil spill research
    - Foster collaboration



# Coordinated Dispersants Initiative

- July 2005: CRRC and NOAA convened meeting of U.S. funding entities: USEPA, MMS, USCG, TXGLO, OSRI, LA OSRADP, CAOSPR, API and other Industry reps
- Unanimous agreement to participate in integrated research plan
  - Formed Dispersants Working Group (DWG) in Fall 2005, with expanded membership
  - Expanded in 2006 to include international funding entities



# Dispersants Workshops

- CRRC Workshop on Sept 20-21, 2005
  - Outcome of workshop = report of research needs, RFP topics and brief descriptions
  - DWG members use these as basis for their RFPs
- February 1-2, 2007: Dispersants Research Forum in New Jersey, USA
  - DWG PIs presenting current research
  - Including international participation
  - DWG will meet to determine which research needs have been addressed and what remains to be answered



# Matrix of Current Dispersed Oil Research

- Organized by topic areas identified in CRRC workshop report: “R&D Needs for Making Decisions Regarding Dispersing Oil.”
- Funding entities provided data for the matrix
- Includes project title/PIs, coverage of research topic, completion date, funding, and manuscripts/contact information
- Demonstrates impressive, collaborative effort in filling research gaps





# Major Topic Areas

- 1) Efficacy 1: Chemical parameters
- 2) Efficacy 2: Operational & hydrodynamic parameters
- 3) Efficacy 3: Modeling integration of chemical, operational & hydrodynamic parameters
- 4) Effects 1: Fate of oil and dispersed oil in the water column & other habitats
- 5) Effects 2: Realistic Exposure Regimes/Toxicity Testing
- 6) Effects 3: Integration to improve short & long-term predictions of effects



# Forum Agenda

- Thursday:
  - Effects of dispersing oil
  - Fate of dispersing oil
- Friday:
  - Efficacy of dispersing oil
  - Cold-water dispersant use
  - Panel Discussion of ongoing and future dispersant research



# Panel Discussion

- 1) Efficacy 1: Chemical parameters (Daling - SINTEF)
- 2) Efficacy 2: Operational & hydrodynamic parameters (Hansen - USCG)
- 3) Efficacy 3: Modeling integration of chemical, operational & hydrodynamic parameters (Venosa - EPA)
- 4) Effects 1: Fate of oil and dispersed oil in the water column & other habitats (Clark - API/ExxonMobil)
- 5) Effects 2: Realistic Exposure Regimes/Toxicity Testing (Sowby - CA OSPR)
- 6) Effects 3: Integration to improve short & long-term predictions of effects (Scholz - NOAA)
- 7) Overview/Summary - (Saupe - CI RCAC/OSRI and Hollebhone - EC)



# Next Steps

- Dispersant Working Group meets after Forum
- Determine which research needs have been addressed and what remains to be answered
- Discussions on strategies for future collaborations/research
- All presentations and summary of DWG meeting will be posted at:
  - [www.crrc.unh.edu/dwg](http://www.crrc.unh.edu/dwg)



# Coastal Response Research Center

[www.crrc.unh.edu](http://www.crrc.unh.edu)



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