**Maritime Beam Control Technology**

**Technology Challenges**
- Tracking maritime targets in high clutter ocean environment: solar glint, high sea states, white caps, intermittent contact
- Fine pointing laser beam in high dynamic maritime environment with atmospheric turbulence
- Aimpoint maintenance on high-maneuvering target
- Atmospheric turbulence compensation in maritime environment
- Operation in maritime environment

**Navy DE Program**
- Leveraging Current Efforts in Beam Control Technology
  - High Energy Laser, Low Aspect Target Tracking (HEL-LATT) Demo at White Sands
    - Acquisition, tracking and aimpoint selection/maintenance AIM-9X Tracker
  - Maritime Testbed
    - APT Function
    - ATM Turbulence Compensation
    - Maritime Imaging
    - High Velocity Target Tracking

**Test & Evaluation**
- D&I
  - Incoherent Beam Combining Demo in FY09
  - Land Based Demo in FY10
  - Maritime Demo in FY12
- INP Phase 1
  - Fab and Test, Demo in Lab in FY14
  - Demo at Maritime Site in FY14
  - Barge Integration and Demo in FY15