

*DoD Corrosion
Prevention and Control*

**DoD Maintenance
Symposium**

October 2006



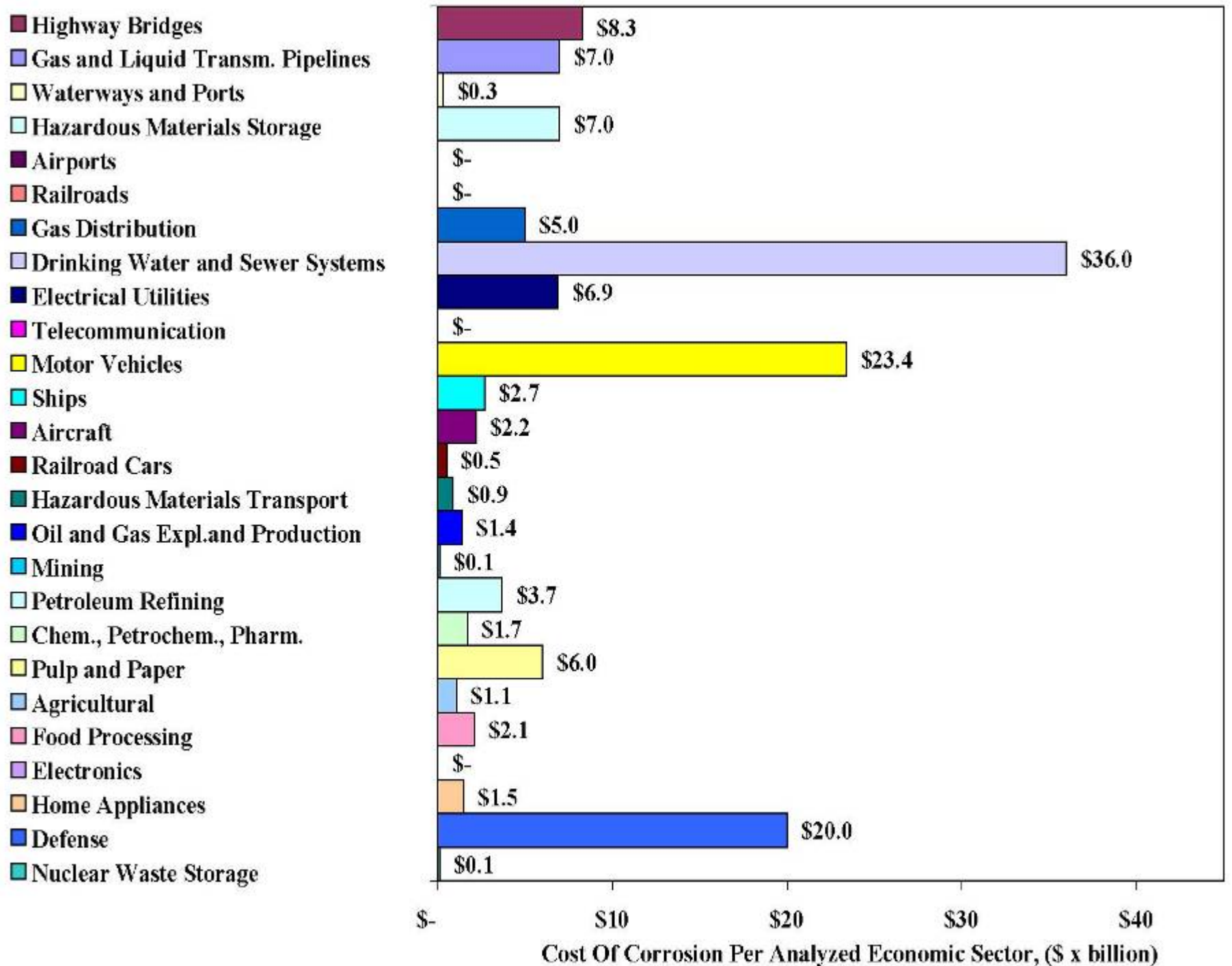
\$276 Billion

The United States Cost of Corrosion Study



SIXTY YEARS
of SERVICE
1943 - 2003

ANACE[®]
INTERNATIONAL
THE CORROSION SOCIETY



The Law

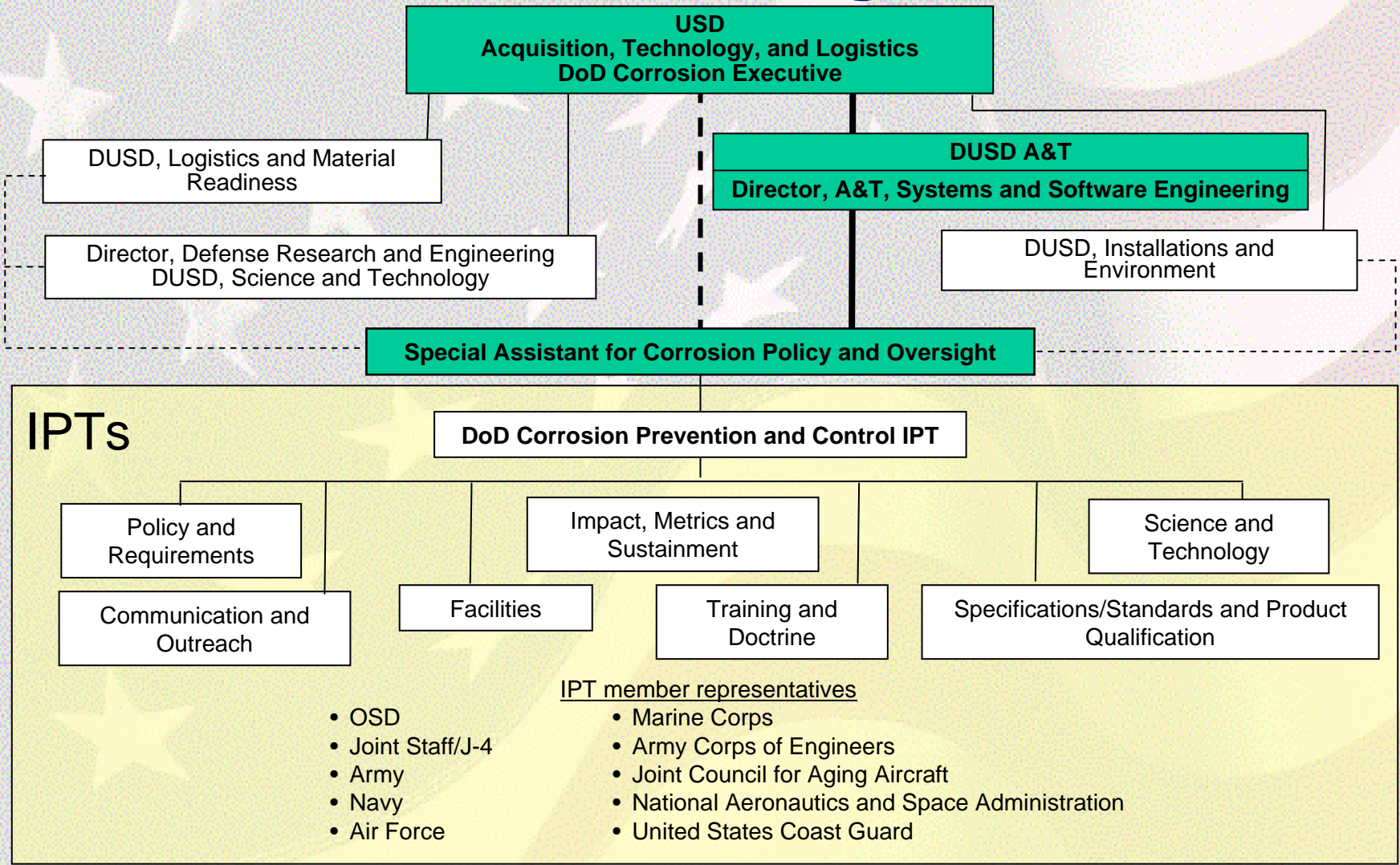
***Public Law 107-314 Sec: 1067 [portions codified in 10 U.S.C. 2228]:
Prevention and mitigation of corrosion of military infrastructure and
equipment requires that:***

- **DoD designate a responsible official or organization**
- **DoD develop a long-term corrosion strategy to include**
 - **Expansion of emphasis on corrosion prevention & mitigation**
 - **Uniform application of requirements and criteria for the testing and certification of new corrosion prevention technologies within common materiel, infrastructure, or operational groupings**
 - **Implementation of programs to collect and share information on corrosion within the DoD**
 - **Establishment of a coordinated R&D program with transition plans**

Strategy to include policy guidance & assessment of funding and personnel resources required



DoD Corrosion Organization



Strategic Plan

Roadmap to Transcend Traditional Corrosion Control

- Provides Strategic Direction – vision, mission, policy, strategies and objectives
- Articulates Management Strategy
 - Roles and responsibilities
 - Planning requirements
 - Planning process
- Includes Appendices
 - Action plans and roadmaps for each WIPT
 - Project selection and management guidance
 - Reference information on the law, policies, metrics and IPT Charter



Office of the Secretary of Defense

REPORT TO CONGRESS

Department of Defense

Long-Term Strategy to Reduce Corrosion and the Effects of Corrosion on the Military Equipment and Infrastructure of the Department of Defense



December 2003

Prepared by the
Principal Deputy Under Secretary of Defense
(Acquisition, Technology and Logistics)

Download from
www.DoDcorrosionexchange.org



FY05 Project Selection

- 66 Projects Submitted – 29 Projects Selected
- Projects selected based on established criteria
 - Joint emphasis
 - Less than two year performance period
 - New technology
 - Matching/complementary funds
 - ROI based on OMB guidelines
- \$27M funded
 - \$17.4M for 26 projects
 - \$9.6M for CPC activities in Specs & Standards, Training, and Policy Implementation



FY 06 Project Selection

- **Weapon Systems:**
 - 14 Projects
 - OSD \$4.1M and Service \$3.7M
- **Facilities:**
 - 15 Projects
 - OSD \$5.7M and Service \$6.8M
- **Categories:**
 - Coatings & Corrosion Prevention Compounds (13 projects) 45%
 - Non-Destructive Inspection (2) 7%
 - Diagnostics, Prognostics, and Monitoring (2) 7%
 - Prediction, Modeling, and Supporting technologies (1) 3%
 - Maintenance Technologies and Practices (11) 38%



Projected Savings from FY05 & FY06 Projects

Total Equipment and Facilities

Year	Army	Navy	Air Force	Total
2006	1,676,166	27,228,296	99,398,356	128,302,817
2007	19,391,417	32,051,365	106,522,461	157,965,243
2008	14,919,697	14,244,403	127,124,321	156,288,421
2009	16,689,844	15,932,345	128,689,127	161,311,317
2010	19,010,367	16,861,318	128,457,655	164,329,339
2011	30,187,069	21,608,976	128,298,278	180,094,323
2012	25,237,313	41,964,369	128,066,805	195,268,488
2013	20,686,582	22,509,656	128,298,278	171,494,516



USD(AT&L) Corrosion Policy

- Policy set in 12 November 2003 AT&L Memo
- Early stages of Acquisition provide best chance for impacting design
- Corrosion requirements should be addressed by Decision Authorities at every level.
- Corrosion will be address at all DABS



DFARS Ruling

Acquisition Plans – Corrosion Protection and Mitigation

- Notice of change states that ruling adds corrosion prevention and mitigation to the areas that agencies must address in acquisition plans. This change implements Section 1067 of the National Defense Authorization Act for Fiscal Year 2003, which requires DoD to prevent and mitigate corrosion during the design, acquisition, and maintenance of military equipment.
- DFARS 207.105(b)(13)(ii) states that logistics considerations in the plan of action portion of every acquisition plan will “[also discuss corrosion prevention and mitigation plans]”

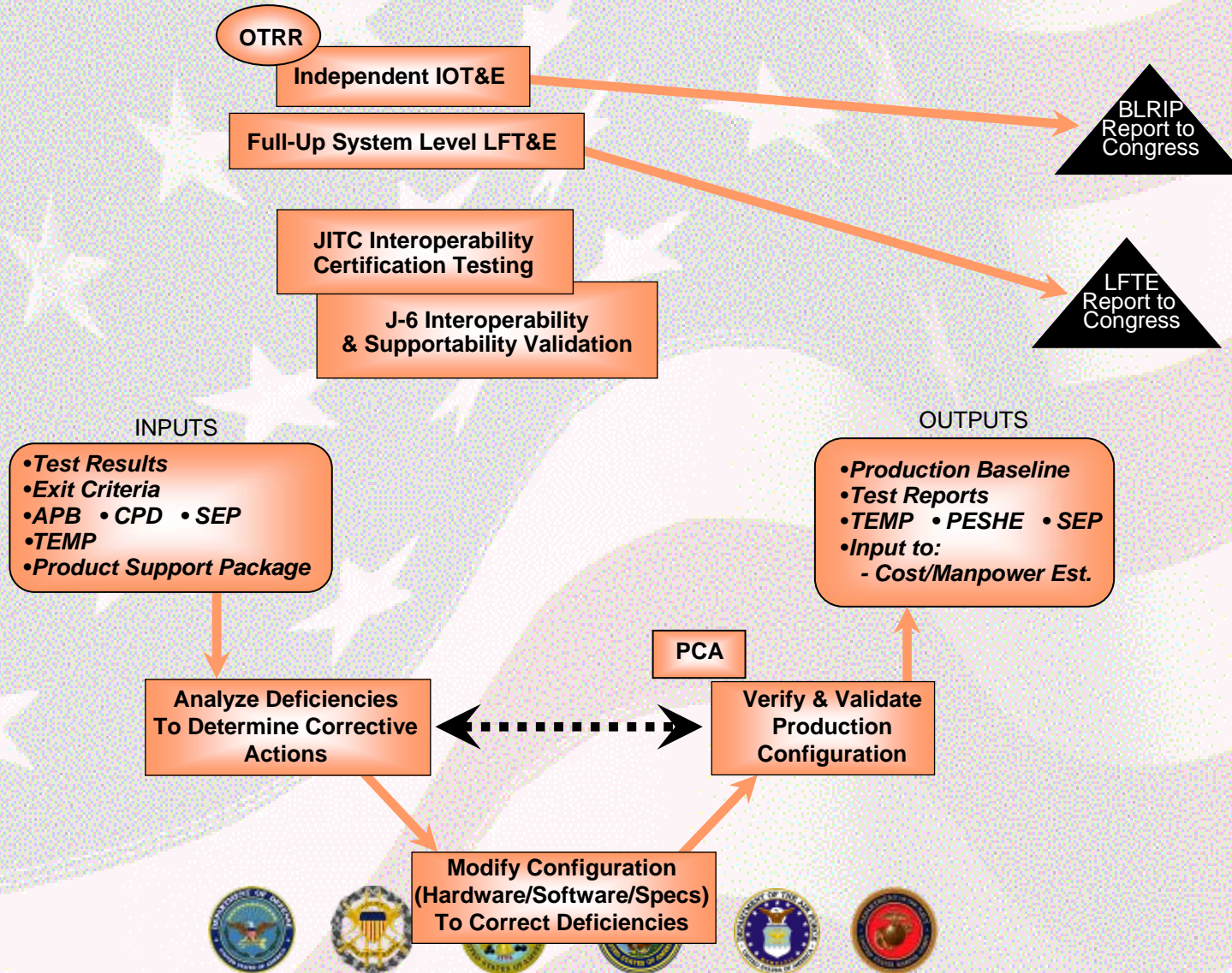


Corrosion Prevention and Control Planning

- Corrosion Prevention and Control Plan Who drafts the Plan—PM or Contractor?
- Who approves the plan: PM, Contractor, Service Corrosion office, OSD
- What is the nature of the minimum compliance?
 - Establish a Corrosion Prevention Advisory Team (CPAT)
 - Ensure the CPAT is integrated into the management decision processes.



Production and Deployment Phase



Operations and Support Phase

