



Air Frame WIPT

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Deputy Chief





Background

- AASS Disband 2006-2008 Timeframe
- Air Force AGE Aircraft not Funded 2007
- AFI 21-105
 - Corrosion Prevention & Advisory Boards
 - Technical Orders
 - Air Force Corrosion and Control Conference
- Office of Secretary of Defense
 - Specific Corrosion Initiative
 - Support WIPTs to Address AF Issues



Background con't

- Air Force Led Formation of Airframe WIPT
 - Common Airframe Corrosion Issues and Technologies
- Development of R&D Roadmap
 - Weapon Systems
 - Academia & Industry
 - AFRL WG
- ALCs and Field Units





Air Frame WIPTs

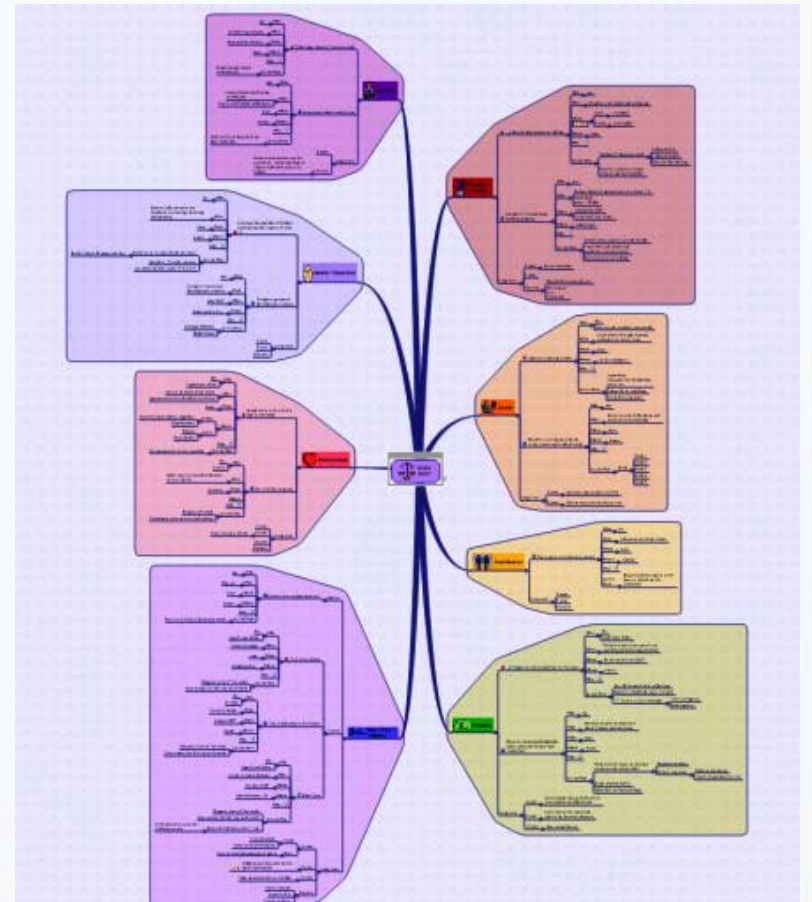
- Air Force
 - Lisa Farrier
 - Amanda Gentry
 - Joe Leone
 - AFCPCO – Carl Perazzola
- Navy
 - Craig Matzdorf
 - Bill Nickerson
- Coast Guard
 - Steve Smith
- Army
 - Steve Carr





Goals

- Leverage Resources
- Collaboration of Knowledge
- Standardization of Processes
- Educate from Lessons Learned
- Encourage Corrosion Research & Development
- Transition Technology



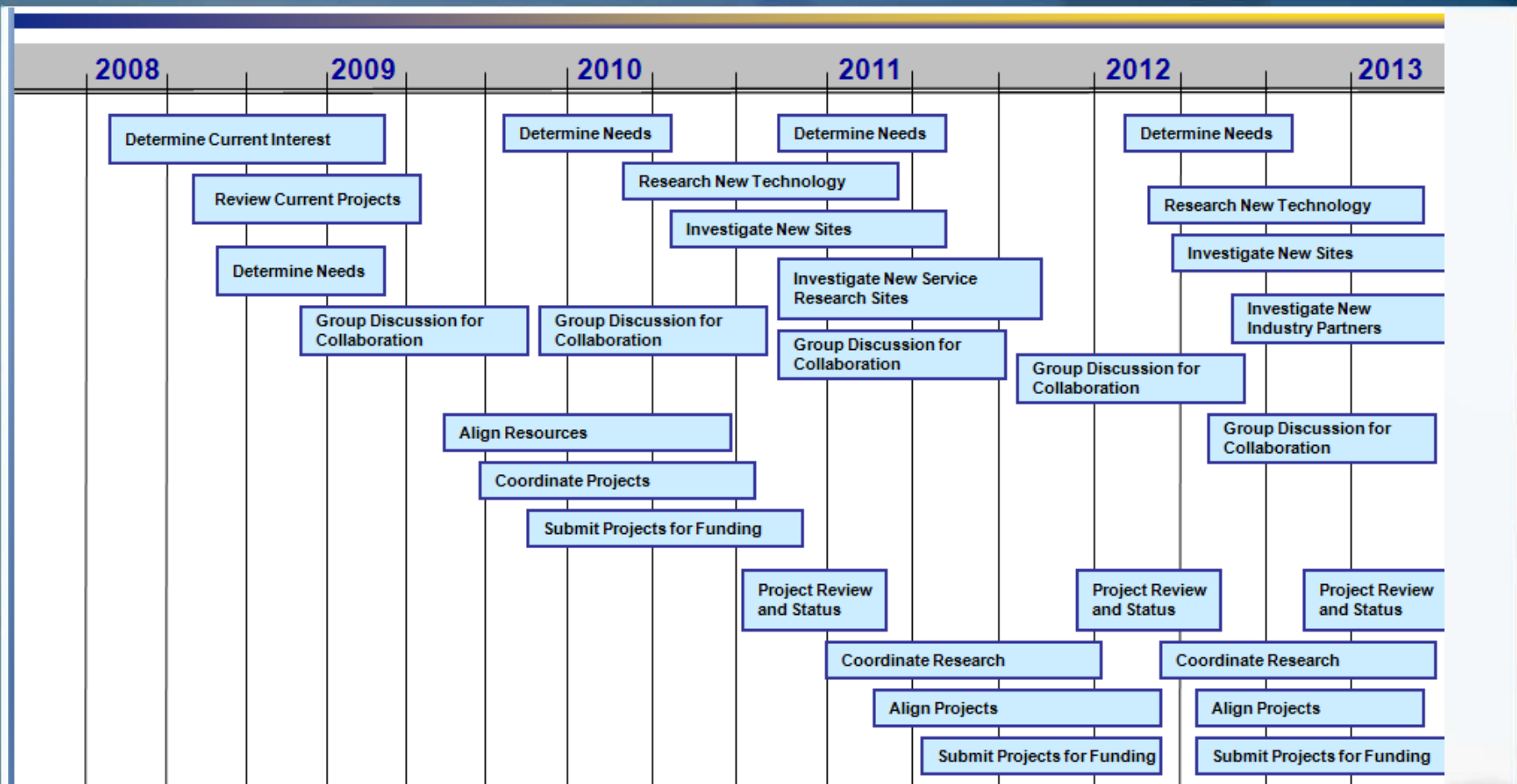


WIPT Bridge Gap



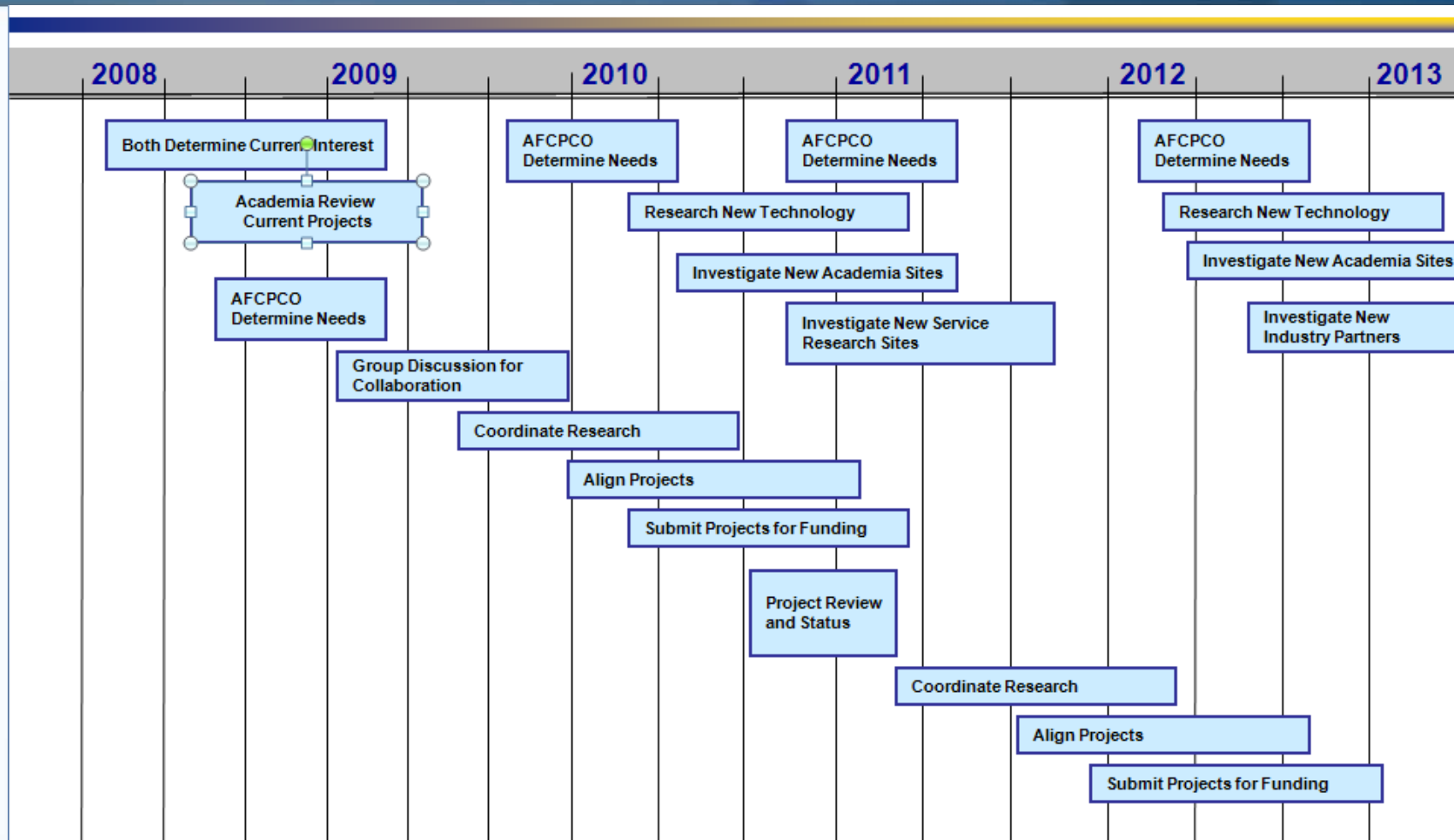


WIPT Roadmap





Academic Roadmap





Academia Contacts

- South Dakota University
- University of South Dakota
- University of Minnesota
- Iowa State University
- North Dakota State University
- South Dakota School of Mines & Technology
- University of Texas
- University of Akron
- University of Oklahoma
- Ohio State
- Georgia Institute of Technology
- University of South Florida
- Fort Valley State University



Universal Projects

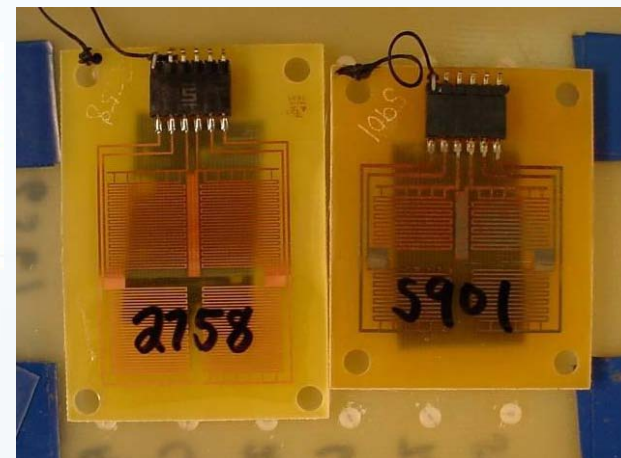
- Corrosion Sensors

- Migrate to Fleet
- Hidden Areas
- PDM Benefit



- Hexavalent Chromium Replacement

- Increased Environmental Regulations
- Increased Occupational Regulations



- Replacing Magnesium in Structural Components

- Maintenance Practices

- Sheltering
- Dehumidification
- Wash/Rinse





Research Direction

- Primers
 - Adhesion Promoters
 - Corrosion Resistant
 - Corrosion Detection
- Topcoats
 - Chromium Replacement
 - Nanoparticles Leaching of Corrosion Inhibition
 - Hydrophobic Coating
- Avionics
- Corrosion Detection and Monitoring





Air Force Benefits

- Wash/Rinse Schedules
- ISO Maintenance
- Extended Schedules for Coating Removal
- Improve Environmental, Safety, Health conditions
- Advance Mission Readiness
- Increase Cycle Life
- Expand Communication





Summary

- Recently Started
- Next Meeting at Pax River in April
- Bottom line: Synergism by Working Together



Questions