Ogden Air Logistics Center



DEPOT OF THE FUTURE

IMPLEMENTATION

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Implementation Constraints/Opportunities



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Constraints

- Lead time for equipment
- Funding for equipment
- Installed base of equipment
- Capability view vs separate equipment and facilities
- The Depot of 2020 will have most of the equipment today's depot has

Opportunities

- Partnerships Integration of capabilities and strengths
- DoD Depots Integration of capabilities
- The successful Depot of 2020 will be more integrated

Examples Of Implementation

- IFDIS
- DMT
- HVOF
- Laser De-paint
- Rapid Prototype



Intermittent Fault Detection and Isolation System



- What IFDIS detects and precisely isolates intermittent connectivity problems in LRU chassis
- How Funded Partnership with Supply Chain, Depot MX, and Industry
- Results F-16 MLPRF (Radar System LRU)
 - Recovered 118 "unrepairable" units (\$36M)
 - Intermittence detected in 68% of IFDIS tested MLPRFs
 - Increased MTBF from 289 hours to 729 hours (\$4M/yr)
 - Improves mission effectiveness, operational readiness, and reduces field maintenance (priceless)
- The Future Expanded Applications



Dual Mode Transmitter (DMT) Public Private Partnership



- What Partnership With Lockheed Morristown To Repair Dual Mode Transmitters At OO-ALC Through Direct Commercial Sales
 - First direct commercial sales partnership within the OO-ALC
- How Funded Revenue Based On Sales
- Results
 - Increased production hours to offset fixed AF costs
 - Potential for second source of parts
 - Potential for engineering support
 - Improved repair capability for foreign military customers
- The Future Consider Additional Partnerships



High Velocity Oxygen Fuel (HVOF) – Thermal Spray



- What Process For Depositing Hard Coatings On Metal Components To Improve Wear resistance
- How Funded Hill AFB has 6 operational booths
 - Three purchased with transformational dollars
 - One purchased with pollution prevention funds from HQ, one purchased with CMXG funds, one provided by Boeing in anticipation of C-17 workload
- Results
 - Reduce the amount of hexavalent chrome usage
 - 40% of exterior surface chrome plating has been transitioned to HVOF
 - Reduces process time from three days to one day
- The Future 3" Inside Diameter Capability



Laser De-Paint



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- What Removal Of Paint Using An Automated Laser System
- How Funded Internal Depot Mx Funded
- Results
 - F-16 Radome

Reduced chemical waste stream from 15 Gallons Hazwaste to

1 pint of soot

Processing time reduced from 19 hours to 3 hours

- The Future
 - F-22 and B-2 components
 - Whole aircraft





Rapid Prototype



- What Build 1-off or Small Run Parts Rapidly
 - Build to fit/print to meet time critical needs
 - Integrates modeling, part printing, and manufacturing capabilities
- How Funded Internal Depot Mx
- Results
 - A-10 Speed Brake reverse engineered
 - F-16 "Bathtub" doubler from plaster mock-up
- The Future
 - Improve modeling to production integration to reduce part delivery time



Conclusion



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- We Have Most Of The Equipment We Will Have In 2020
 - Funding and time to field are constraints
- We Need To Leverage Industry Partnerships To Maximize The Effectiveness Of Our Capabilities
 - Leverage Industry Core Competencies
 - · Lean, efficiency studies, maintenance, minor upgrades
 - Defer fixed costs over more work
- We Need To Leverage Existing DoD Capabilities Before Investing In Redundant Capabilities

BOTTOM LINE – BETTER USE WHAT WE (DoD) HAVE INVEST IN CAPABILITIES THAT WILL HAVE A SIGNIFICANT IMPACT!