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EWIS I

“REALIZATION”

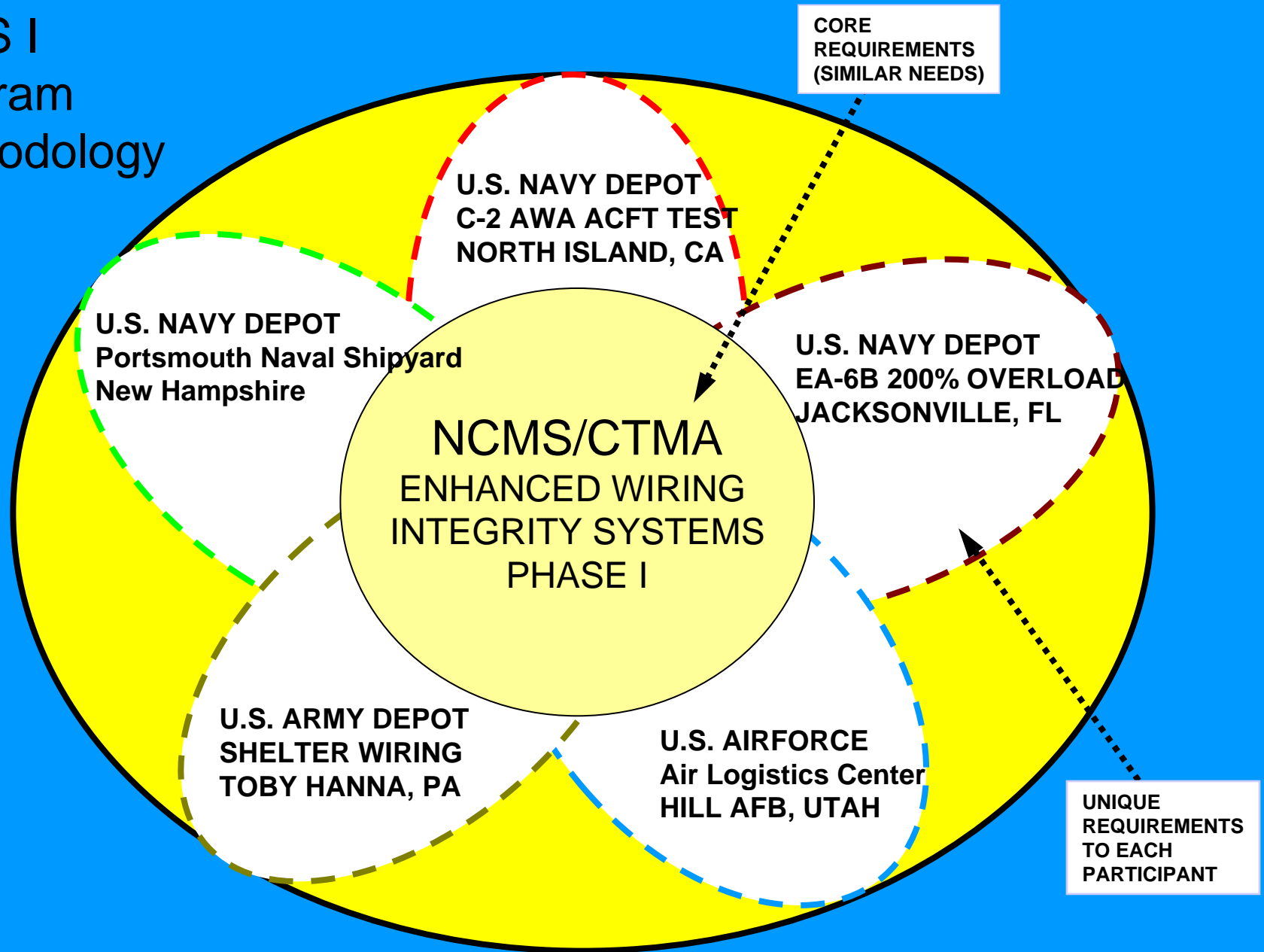
**A Demonstration of
Equipment, Software and
Processes for Improving
Electrical Integrity**

EWIS I OBJECTIVE

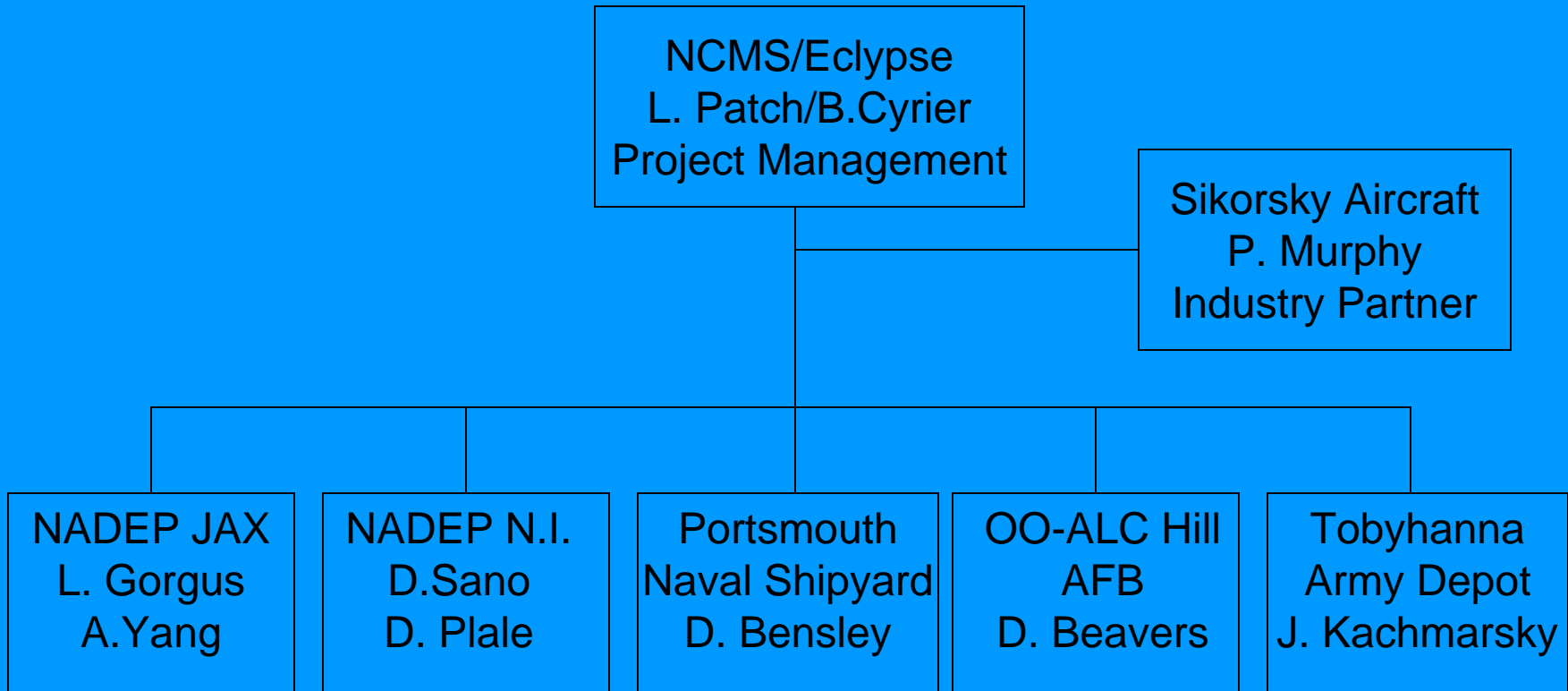
“To Reduce Costs and Time Associated in Troubleshooting and Repairing Complex Wiring Systems”



EWIS I Program Methodology



EWIS I Program Organization





FRC SW North Island



Modular design for Full Aircraft Testing

Hill Air Force Base



Rugged Portable EDA and
Components

MIL-STD-810, Method 511 for
Explosive Atmosphere



Portsmouth Naval Shipyard



Relay Test
Fixture



Portable EDA



FRC SE Jacksonville



EA-6B Circuit Breaker Panel Testing



Portable EDA and Programmable Load Bank



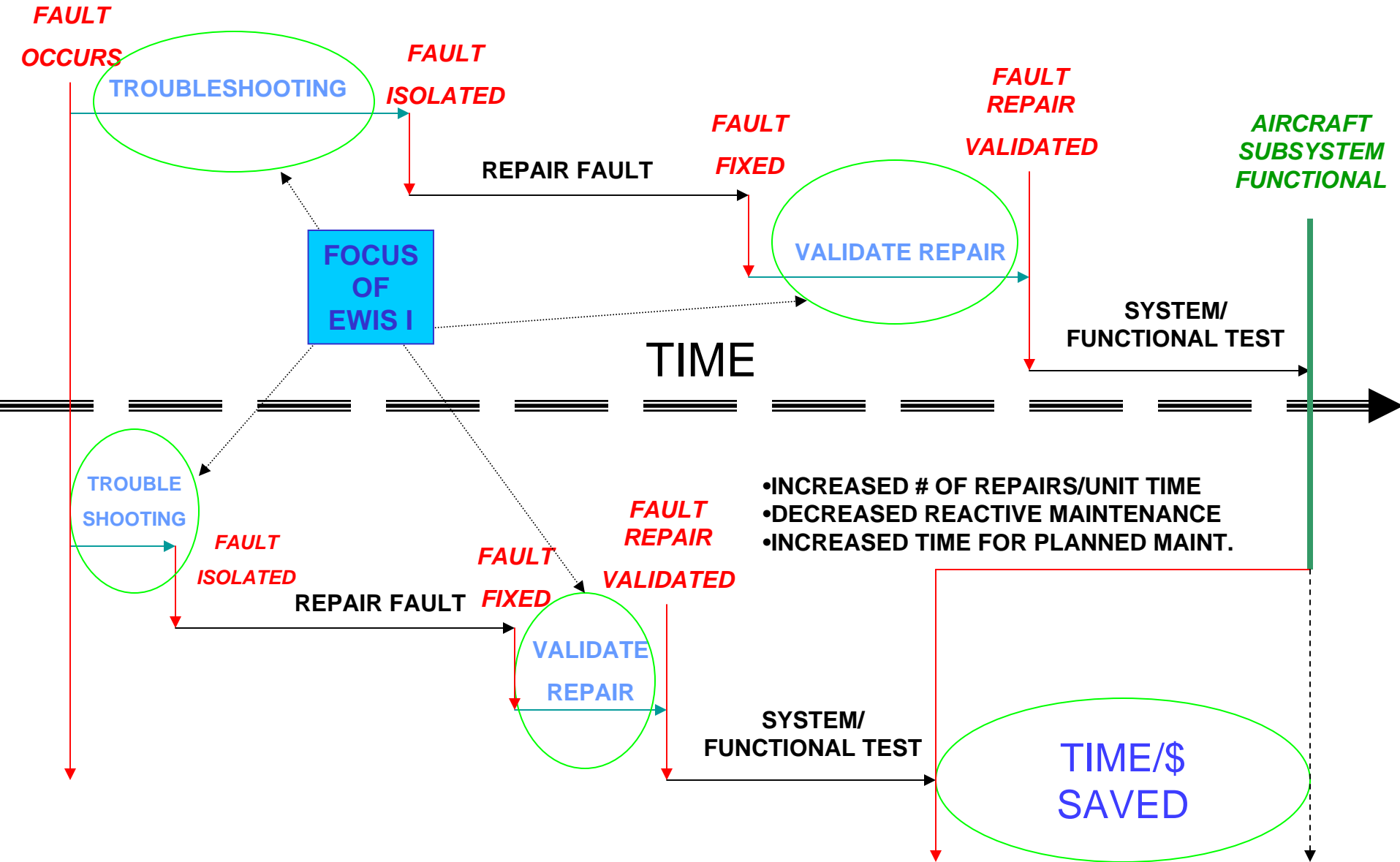
Tobyhanna Army Depot



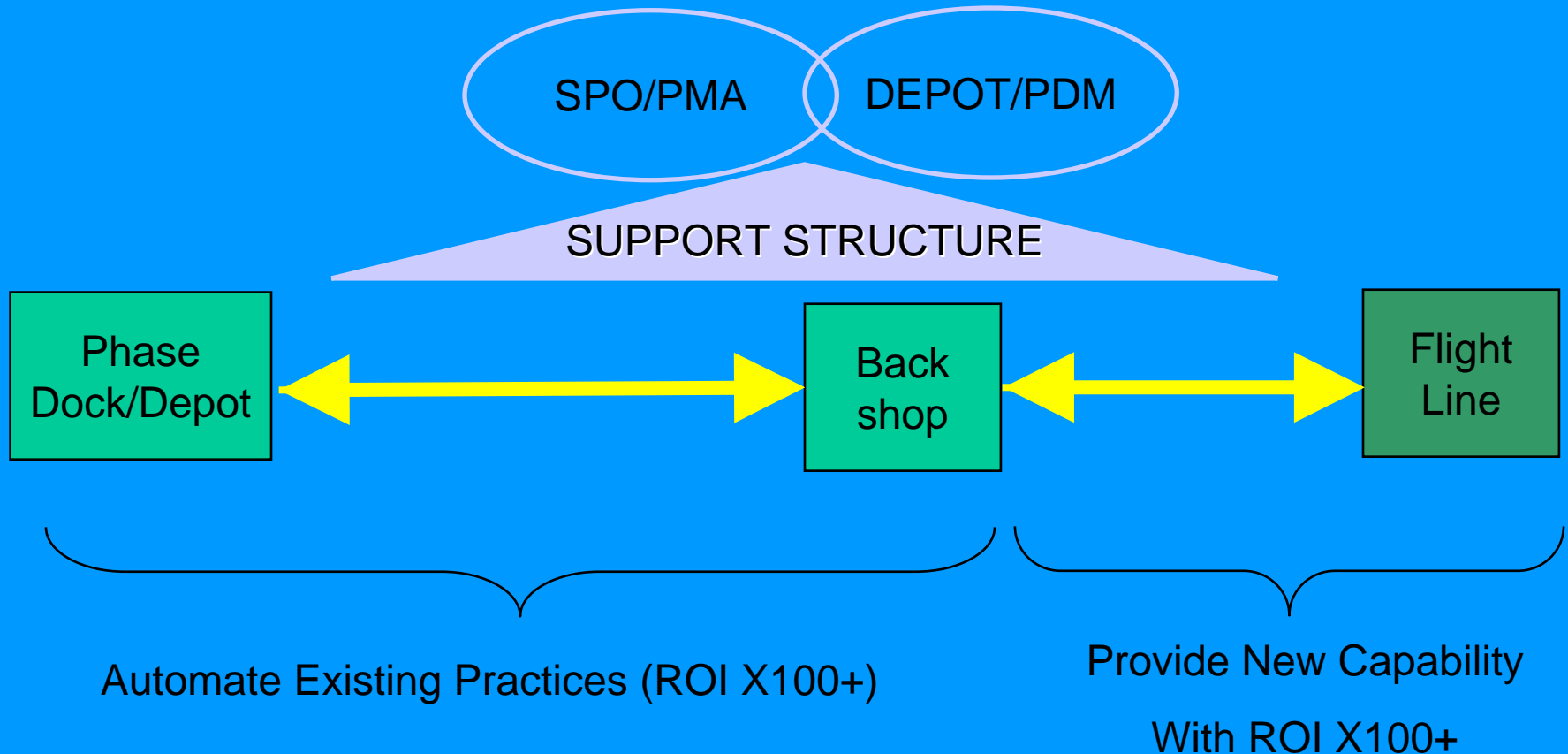
High Density Back Planes
in Mobile Shelters



Focus of EWIS I



EWIS Implemented Into Weapons Systems Maintenance



BOTTOM LINE = Increased Mission Readiness

KEY ELEMENTS

- 1) New Technology, NASA KSC Patented SWR Fault Location
- 2) New processes and with existing technologies
- 3) Ability to be deployed
- 4) Major cycle time reduction
- 5) Significant reliability improvement
- 6) Configuration control (weapons systems)
- 7) Cost reduction for many elements
- 8) Common equipment
- 9) Ease of use



Benefits to Eclipse from the Program

- Exposure of our Technology
- Feedback Loop
- Improvements under the four-year program
- Cost Share \$ for effort that needs to be accomplished anyhow
- Spin-off opportunities (*a very pleasant bi-product of the program*)

COLLABORATION



**ADD UP ALL ELEMENTS AND IT
EQUALS.....**



**Defense Manufacturing
Excellence Award 2006**

Spin-Off Example – 4th Fighter Wing Maintenance Group (MXG)



Winner: 2005 USAF Chief of Staff Excellence Award

U.S. Army Contract Award – Battle Damage and Repair (BDAR) kit



USAALS



Spin-Off Example – Battle Damage and Repair (BDAR) kit



USAALS



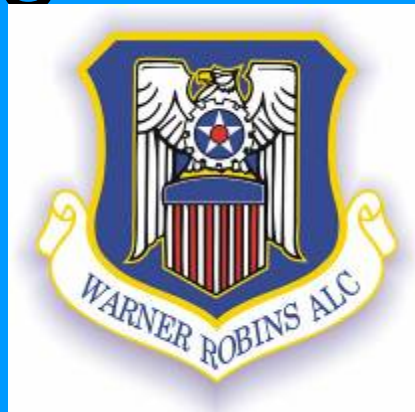
Eclipse Awarded Contract for the Joint Services Automatic Wire Testing Set (AWTS)

- Joint USN NAVAIR and USAF
- NAVAIR Lakehurst is Contracting Authority – N68335-08-D-0009
- Competitive Small Business Set-Aside
- IDIQ **\$23+M**, 5-Year

So What Is Next?



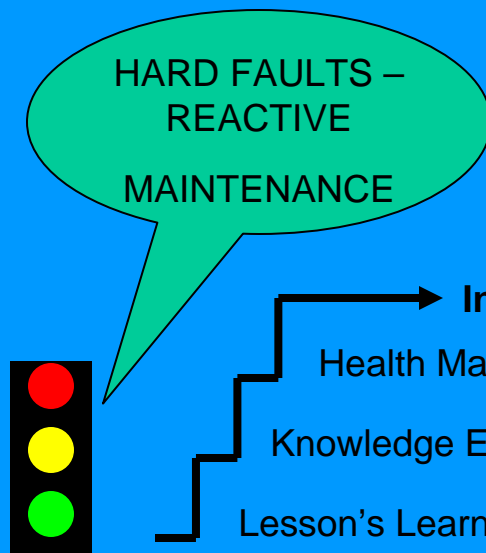
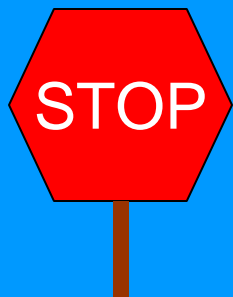
EWIS II – “The Culture Shift” Knowledge Enhancement



EWIS II Technical Approach

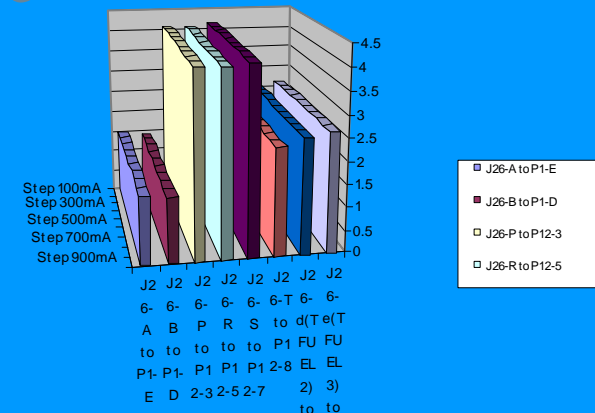
- EWIS Phase I Program demonstrated the benefit that can be realized by effective wire integrity testing for maintenance
- EWIS Phase II will focus on providing training of inspection test protocols and processes for all maintenance levels for the EWIS technology

EWIS I



EWIS II

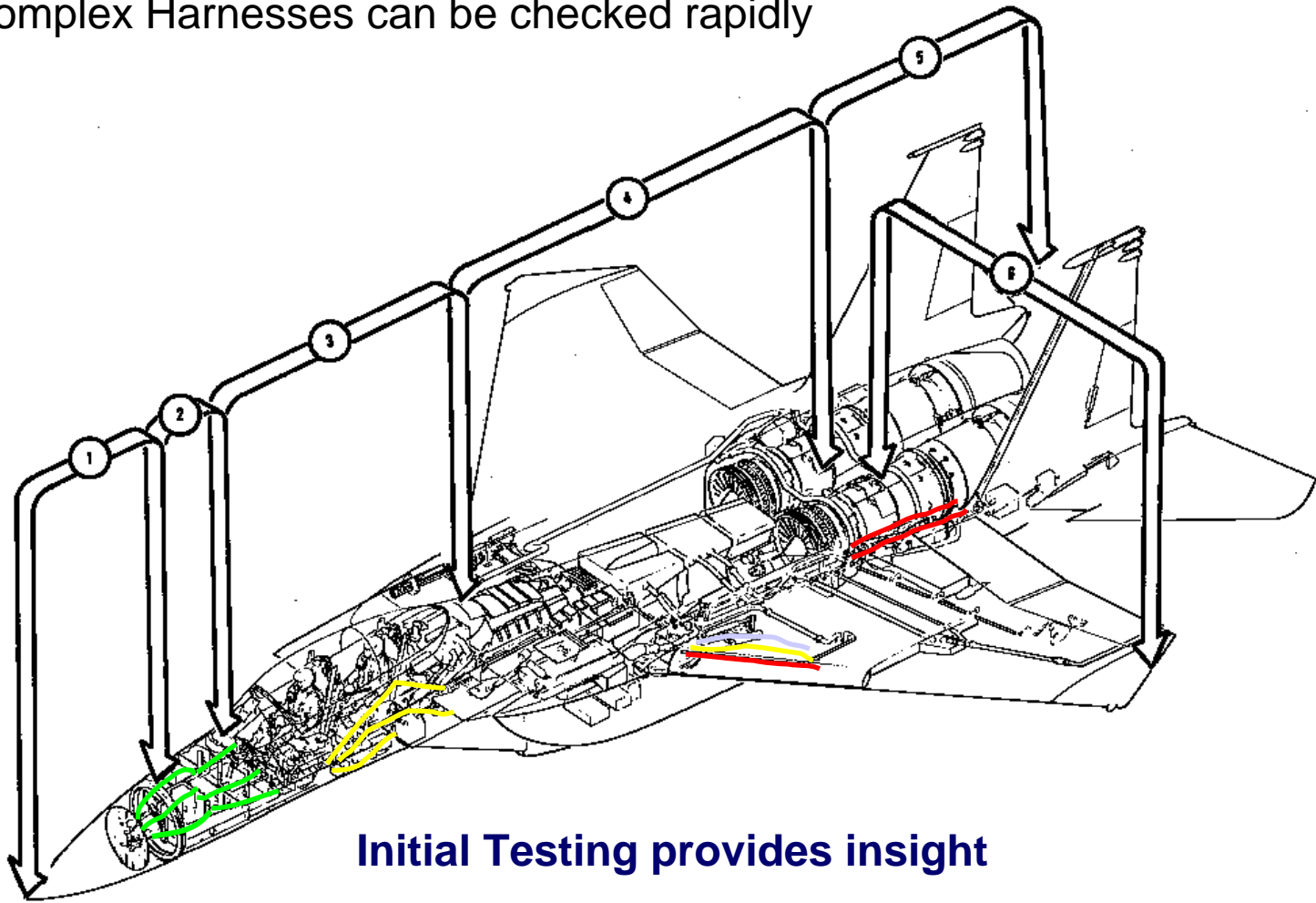
Training



EWIS II Technical Approach (Cont)

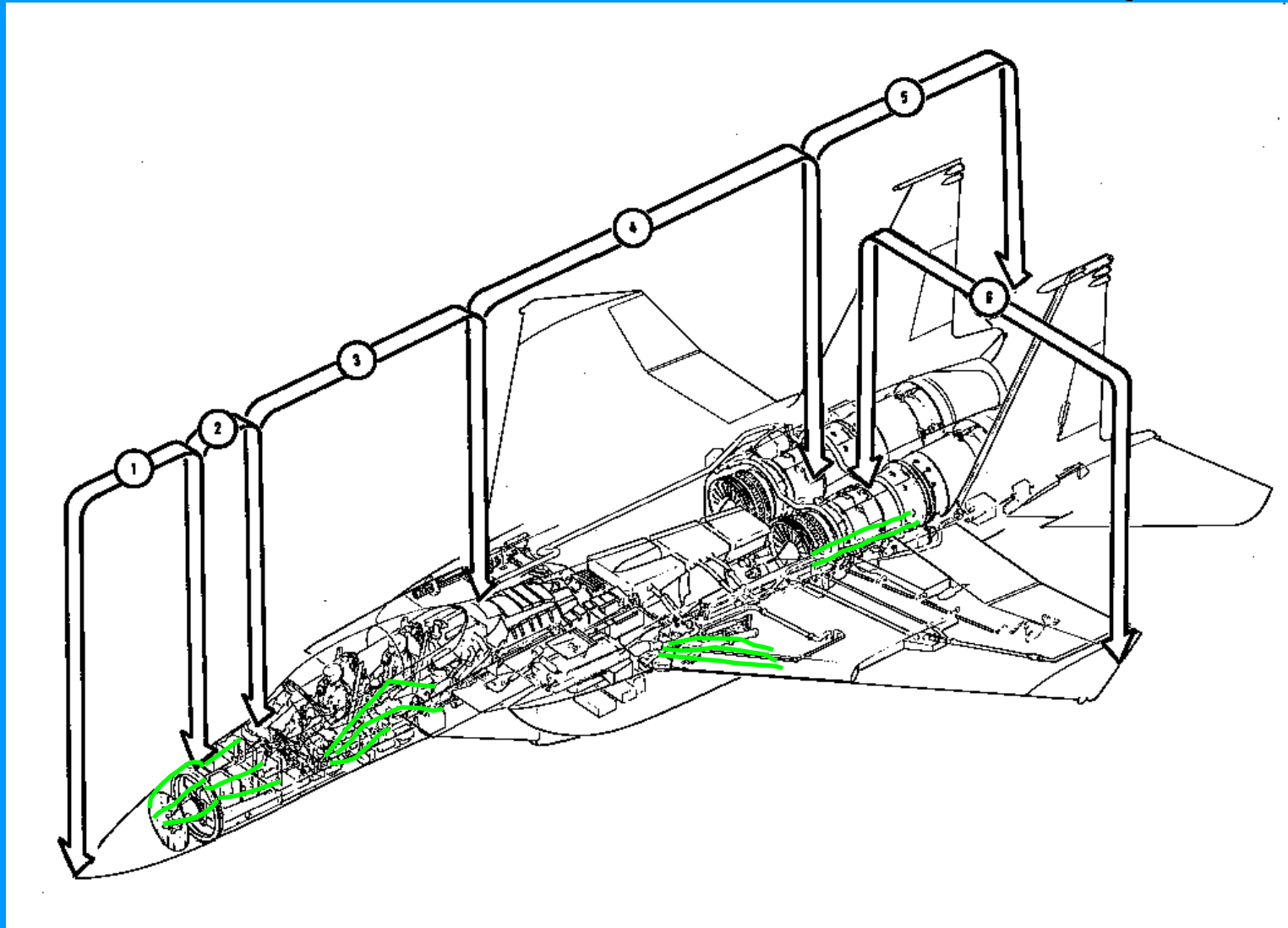
- Establishing proper methodology for an effective wiring health monitoring and maintenance program that will provide early insight into degradation of complex wiring
- Remember Phase I “Lessons Learned”
- Includes Additional Wiring Maintenance hardware and software tools

Complex Harnesses can be checked rapidly

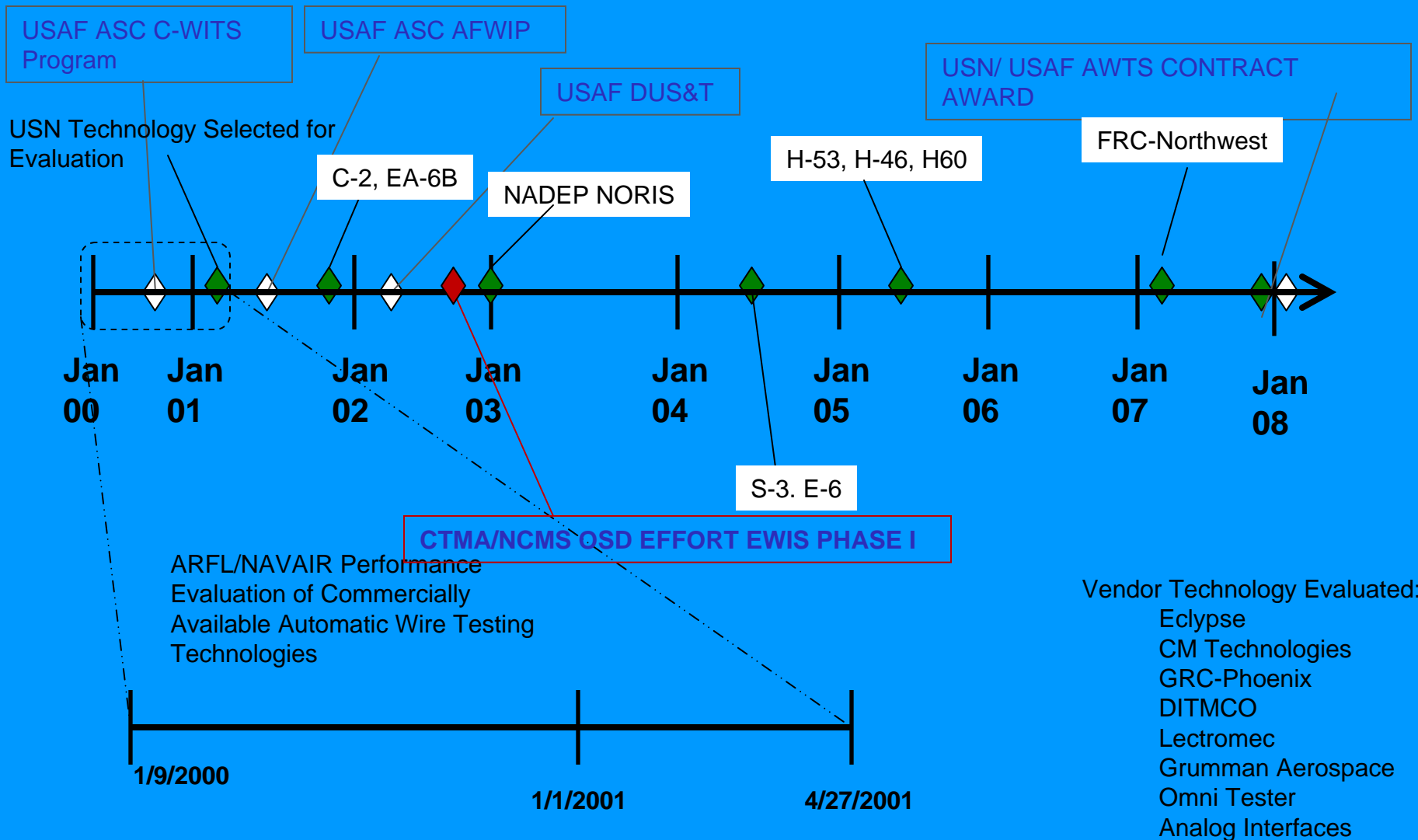


Initial Testing provides insight

Real Aircraft Interconnect Health Improved!



Timeline





SUMMARY

- Eclypse would like to invite any of the great minds from the organizations in this room to participate in EWIS II
- We understand the benefit as an Industry Partner in collaborative efforts
- We shook their world with EWIS I
- We look forward to facilitating “Training and Proactive Maintenance Inspections” with EWIS II
- Thank our Sponsor at OSD and Dr. Chuck Ryan, Lee Patch and the entire CTMA/NCMS staff for their support over the last 4 years
- CTMA/NCMS works!



CONCLUSION

- Since the primary focus of EWIS II is training, the team will promote training throughout the two year program.
- One very successful training integration program has been recognized by the U.S. Army during the first EWIS program. It is important to notice this success and apply it as necessary to the other team members.