

# Advanced NDE

“Accelerating the transition of new technologies into systems and products will be crucial to the Department of Defense’s development of a lighter, more flexible fighting force.” -The National Academies



**THE GOAL:**  
RAPID INSERTION  
OF NEW  
TECHNOLOGY TO:

- ▶ Expand platform capabilities
- ▶ Extend service life
- ▶ Improve performance
- ▶ Increase reliability
- ▶ Reduce operating costs

## THE SOLUTION: Advanced Nondestructive Evaluation (NDE)

Reduces cycle time through use of cost effective performance validation methods



Improves time to deployment



Reduces costs by minimizing prototype production and destructive testing

## THE METHODS: NDE Technologies

- ▶ Advanced Phased Array Ultrasonics
- ▶ Advanced Eddy Current
- ▶ X-ray Computed Tomography
- ▶ Computer Modeling for Ultrasonics, Eddy Current and X-ray
- ▶ Conventional Ultrasonic and Eddy Current
- ▶ Microwave
- ▶ Thermography



**About EWI** EWI is at the forefront of advanced nondestructive evaluation and inspection techniques. Innovative NDE techniques and inspection procedures developed at EWI have been implemented to improve the quality, reliability and capability of new manufacturing processes across the government enterprise and industry.