



**Unisphere Inc.**  
**Tomorrow's Technology Today**

**NDIA 29<sup>th</sup> Environmental and Energy Symposium**

*Commercialization of Technologies  
to Lower Defense Costs*

**Richmond, Virginia**  
**April 7-10 2003**

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# *Key Army Personnel*



- Program sponsored by Mr. Ray Fatz, Deputy Assistant Secretary of the Army for Environment, Safety and Occupational Health
  - Program Director, Mr. Joseph Vallone, Director for Technology
  - Program Manager – Mr. Hany Zaghoul, Construction Engineering Research Laboratory
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# *Program Description*



- CT/LDC program utilizes a three phase approach to:
    - Identify emerging dual-use technologies
    - Perform in-depth market, technical and economic assessments
    - Calculate potential to lower defense costs
    - Demonstrate/validate technologies for DoD/Commercial stakeholders
    - Develop and execute business strategies for product commercialization
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# *Technical Focus Areas*



- Environmental compliance, conservation, pollution prevention, and restoration
- Occupational safety and health
- Technologies with potential to lower defense costs



# *Technology Selection Criteria*



- Committed military stakeholder
- Dual use (military and civilian) product potential
- Prototype or near prototype stage of development

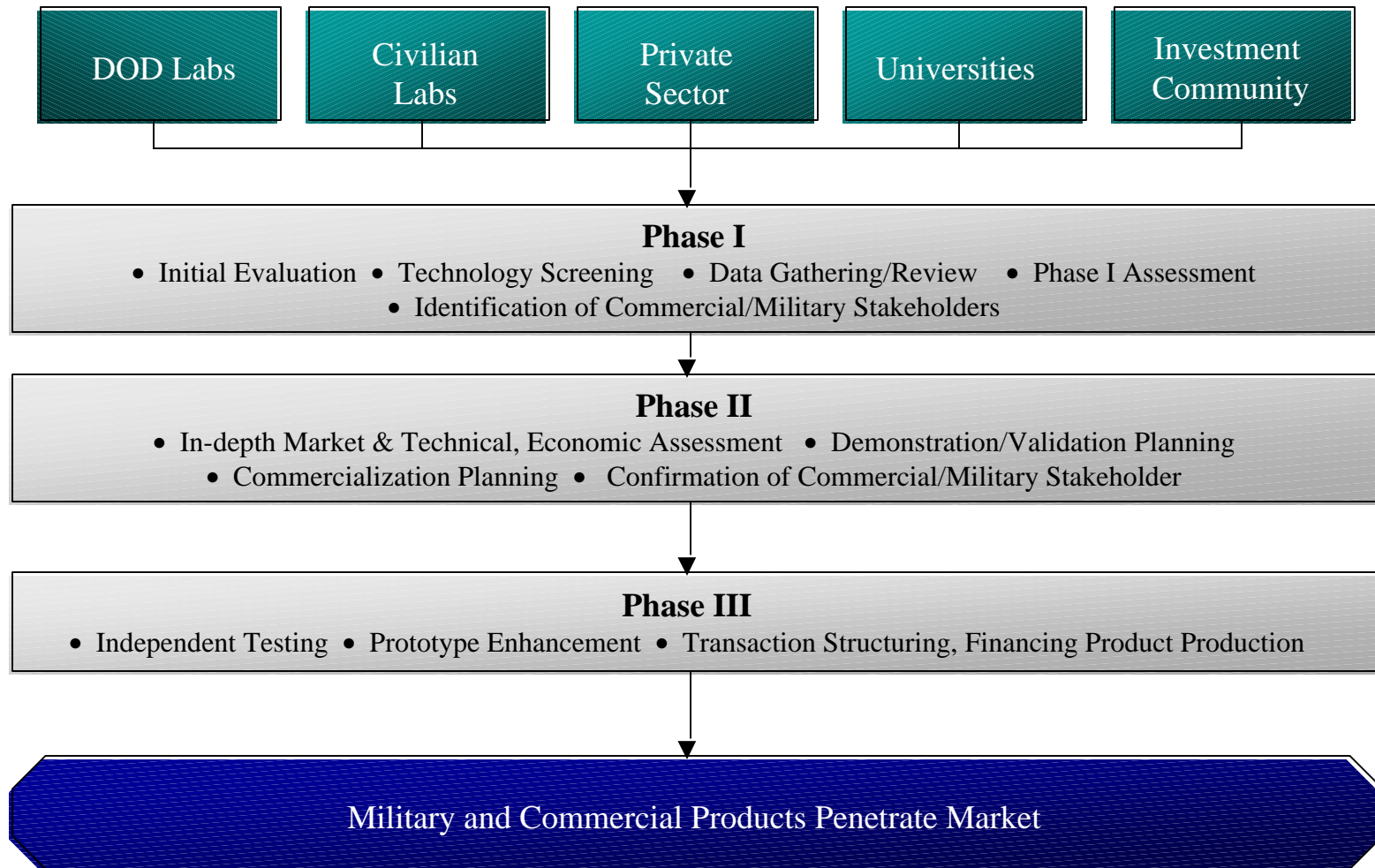


# *CT/LDC Program Services*

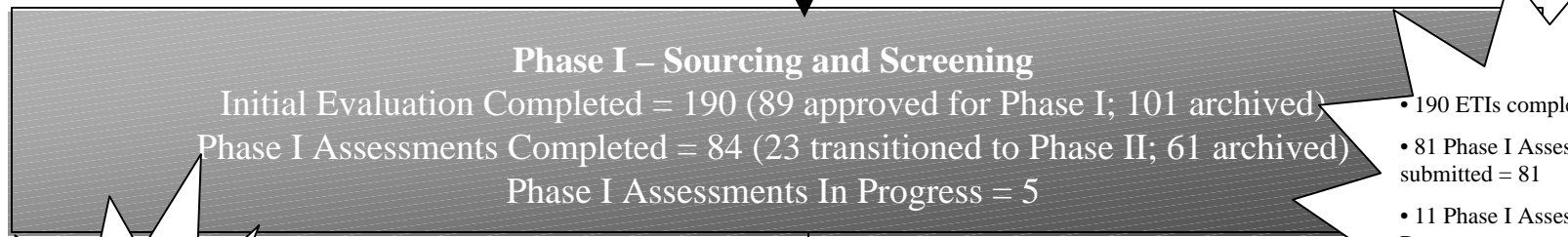


- Technology sourcing/scouting
  - Technical and market assessments
  - Economic Analyses
  - Prototype development or enhancement
  - Demonstration/validation
  - Business strategy development/execution
  - Potential Developmental funding
  - Assistance with production financing
  - Management assistance as necessary
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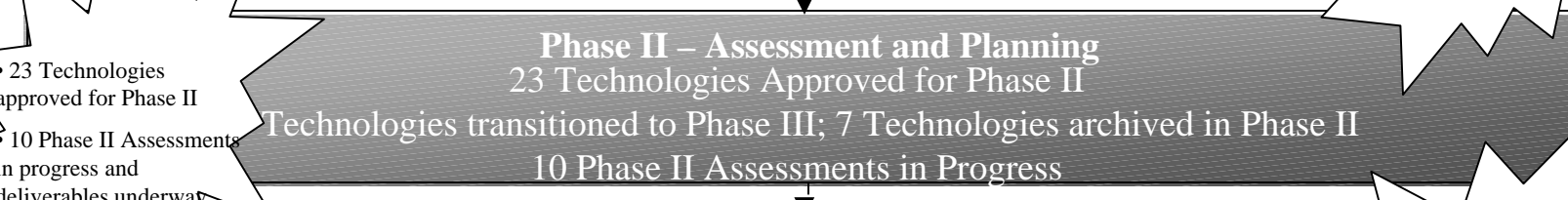
# CT/LDC Process



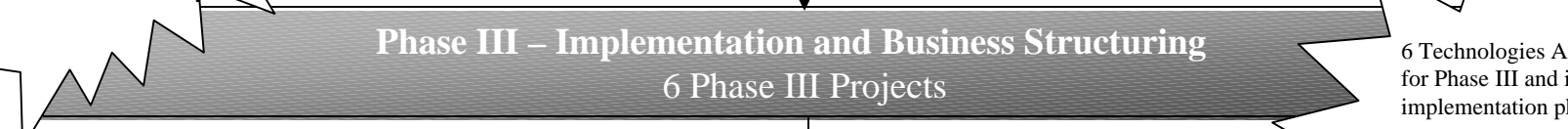
# CT/LDC Process



- 190 ETIs completed
- 81 Phase I Assessments submitted = 81
- 11 Phase I Assessments in Progress



- 23 Technologies approved for Phase II
- 10 Phase II Assessments in progress and deliverables underway



- 6 Technologies Approved for Phase III and in implementation phase

**Military and Commercial Products Penetrate Market**



# *CT/LDC Program Results*



- Assisted DARPA funded piezoelectric fiber manufacturer penetrate commercial sports market
  - Developed dem/val process to explore feasibility of inserting fiber in combat boot to generate power for soldier
  - Provided technical and business assistance to position rapid concrete repair company for \$2 million investment
  - Funded smart wiring concept that can save Navy \$64.8 million
  - Funding demonstration/validation of Ground Penetrating Imaging Radar technology for underground utility mapping of army construction site and uxo detection and identification
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