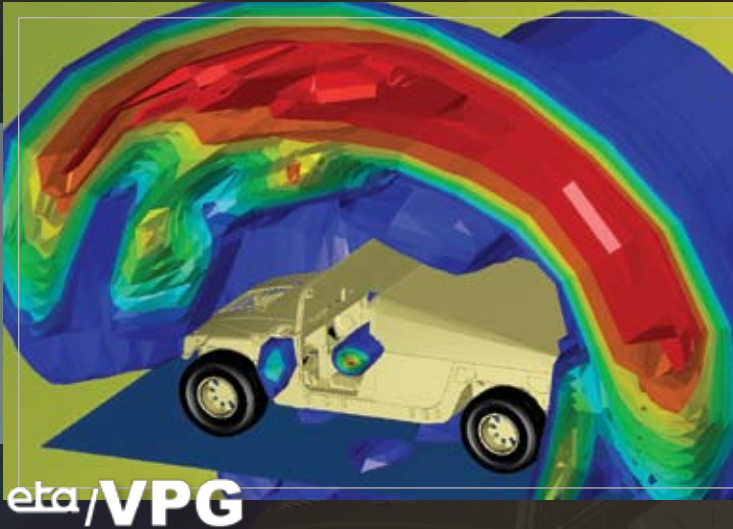


# MAKE AN **IMPACT**



## **Advanced Engineering Services & Software for Military Product Development**

ETA's advanced engineering team expertly designs & virtually tests military vehicles & significantly impacts existing product performance.

Using its own FE modeling suite, VPG, ETA engineers accurately simulate and analyze blasts, crew survivability, combat vehicle safety, structural integrity, extreme road surfaces and more. In addition, ETA's complete die system simulation solution, DYNIFORM, provides accurate metalforming and production analyses.

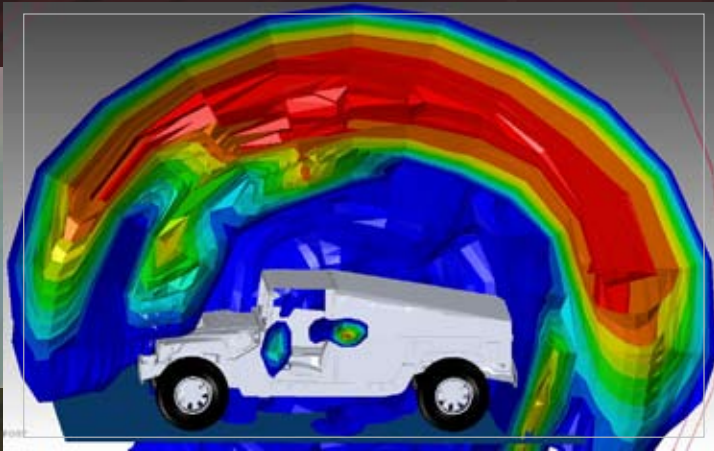
ETA provides substantial results for mass & cost reduction, while solving impact & safety-related concerns.



- Design & Virtual Testing
- Combat Vehicle Safety
- Crew Protection
- Shock & Impact Analysis
- Blast Simulation
- Reliability Analysis
- Extreme Road Surfaces
- Structural Integrity
- Metalforming Analysis
- Production Support

*ETA is an EEO/AAP Employer*

ETA, Inc. • 1133 E. Maple Rd, Suite 200 • Troy, MI 48083  
(248) 729-3010 • [www.eta.com](http://www.eta.com) • [sales@eta.com](mailto:sales@eta.com)



eta/VPG

### **Design & Virtual Testing**

ETA's team expertly engineers and analyzes military products & vehicles from the component level, all the way up to the complete system level using its advanced processes and tools.

### **Combat Vehicle Safety**

Using VPG simulations, ETA can accurately predict how a vehicle will respond to events during combat and can significantly improve the safety of military vehicles.

### **Crew Protection**

There is nothing more important than crew safety. Using VPG simulations, ETA's team can predict how well a vehicle will protect the crew inside and can provide solutions to improve vehicle safety.

### **Shock & Impact Analysis**

Using VPG, the engineer can create a series of accurate drop, shock, vibration and pressure simulations to determine effects on the final product.

### **Blast Simulation**

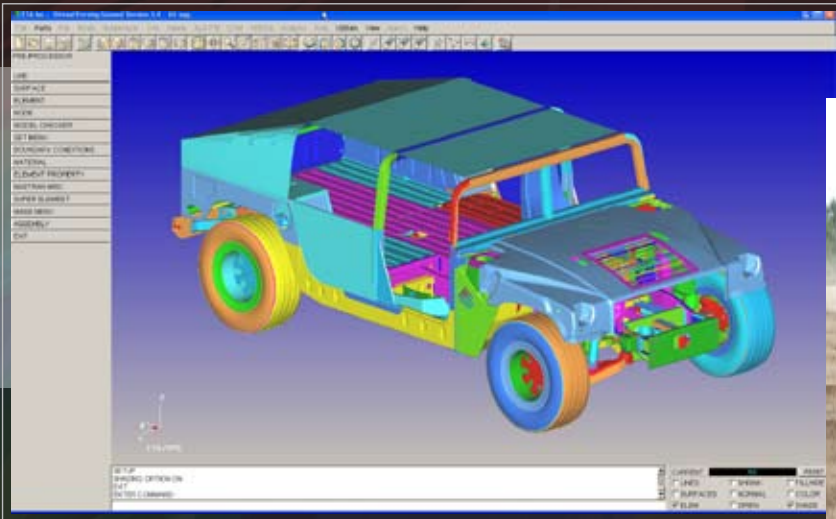
VPG's advanced ALE/FSI module allows the engineer to create advanced ALE and SPH simulations and automatically creates ALE mesh zones and explosive pressure sources.



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## Advanced Engineering Services & Software for Military Product Development



### Reliability Analysis

ETA's team can expertly analyze road loads and predict structural component durability with road surfaces using VPG simulations.

### Extreme Road Surfaces

Military vehicles are not commonly on typical road surfaces. VPG allows the engineer to simulate and analyze effects of extreme road surfaces and create vehicles which perform better in these conditions.

### Structural Integrity

Using VPG, ETA's team can accurately predict and evaluate the structure's strength and durability using implicit and explicit solutions.

### Metalforming Analysis

ETA's cutting-edge software package, DYNIFORM, provides an accurate formability analysis. It can also assist with cost estimation, die face design, and metalforming production processes.

### Production Support

ETA offers unique expertise dealing with manufacturing process simulation and offers consulting services to help streamline the organization's methods, improving efficiency.

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