### GVPM Track & Suspension Overview

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**Challenges we have:**
- Delivering lightweight, survivable, durable track systems with common architectures
- Modular advanced suspension systems, with energy regeneration, and Electronic Stability Control
- Durable, fire resistant elastomer components

**Solutions we are investigating:**
- Reduce running gear system level weights, reduce rolling resistance of track
- Improve platform stability and mobility across all terrain conditions
- Utilize Elastomer Improvement Laboratory to formulate and test advanced track materials

**Where we need your help:**
- Identify opportunities to reduce track system weight, reduce rolling resistance, and optimize presently fielded designs for commonality
- Increase efficiencies of energy regenerative suspensions, and integrate advanced preview sensing to suspension control algorithms
- Develop fire resistant, durable elastomers, advance the integration of nano materials in elastomer formulations
Projects
Current & Future

- Reduce track system weight, increase off-road stability and performance
- Develop common track architectures, reduce rolling resistance, increase platform agility, stability and mobility
- Increase track system durability and fire resistance
Laboratory Capability
Current & Future

Current Capability

- EIP Laboratory
  - Characterization / Performance Testing
  - Life Cycle Testing
  - Failure Analysis

Future Capability

- EIP Laboratory +
  - Full Pitch Test Machine
  - Trailer Test Rig
  - Elastomer Material Formulation
  - Material → Component → System Testing

EIP
Elastomer Improvement Program

Elastomer Roadmap