ELECTRIC and fuel cell VEHICLES FOR MILITARY APPLICATIONS

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Why does the military need electric or Fuel Cell vehicles?

✓ Stealth
✓ Speed
✓ Reduced Thermal Signature
✓ Torque
✓ External Power Source
✓ Zero Emissions
Hybrid vs. electric vs. hydrogen fuel cell?

Commercial Development Path

Toyota Prius → Tesla Model 3 → Hyundai Nexo

Military Development Path


We are here!
Military Challenges with electric and fuel cell vehicles

- Range/Range Anxiety
- Charging / Speed
- Hydrogen Fueling
- Military Logistics
“Every ground and rotary wing vehicle that the Army produces from now on … every single one of them, the base requirement is it has to be manned and unmanned, either autonomous or semi-autonomous,”

Army Chief of Staff Gen. Mark Milley

✓ Hybrid (Now)
✓ Electric Powertrains (Future)
✓ Fuel Cell/Electric (Future)
✓ DOD Experimentation
✓ Securely Connect to IOT
✓ Autonomous Vehicles
✓ Manned/Unmanned
QUESTIONS?