

All-in-one Infrastructure Maintenance Vehicle

Features:

- Autonomous and semi-autonomous
- EV chassis option

Modules:

- Seal asphalt cracks (Active Phase II)
- Replace pavement joints (Completed Phase I)
- Maintain airfield lights (Completed Phase I)
- Remove rubber buildup on runway (Completed Phase I)
- More to come!



What

Module 1: Seal Asphalt Cracks

Only robotic pavement maintenance solution on the market

- Can be used 24/7
- Up to 2x the speed of a 'trained' crew
- Reduces # of workers needed
- Workers not in harm's way

Original Prototype



Updated Concept

Why

DoD

Recruitment Challenges

Army and Air Force leaders estimated they'll miss their FY 2023 goal by 10,000, while Navy leaders expect to be short by 6,000

Sustainability Goals

Many branches of the DoD have mandates in place for GhG reductions and the use of all-electric non-tactical vehicles (NTVs)



Commercial

The construction industry is facing a labor shortage and must hire an additional 545,000 workers this year beyond its typical pace

The construction industry accounts for 38% of CO2 emissions globally, while acts like the IIJA and IRA are providing record funding to improve



Where

Initial target market:

Global Airport Services

- CAGR of 16.8%
- \$97 billion in 2022
- \$290 billion by 2029

Commercial Partners



Gov Partners

