



Team Lunexus

# DoE E-SCRAP Challenge: Solar Cell Recycling



## Problem / Opportunity

- PV Recycling must improve
  - Landfill concern / public perception
  - Helps solve supply constraints
  - Necessary for circularizing high growth economy
- Recycling currently uses 2 approaches:
  - Thermochemical, resulting in toxic waste stream
  - Electromechanical (EM), with incomplete separation
- Better eddy current separation can improve the EM approach to make material recovery more economical



## Team Lunexus Solution

- New eddy current approach to separate smaller particles of metals from silicates
  - INCUBATE: Market Analysis, LCA Impact
  - PROTOTYPE: Design & Prototyping
  - DEMONSTRATE: Beta Test at recycler

