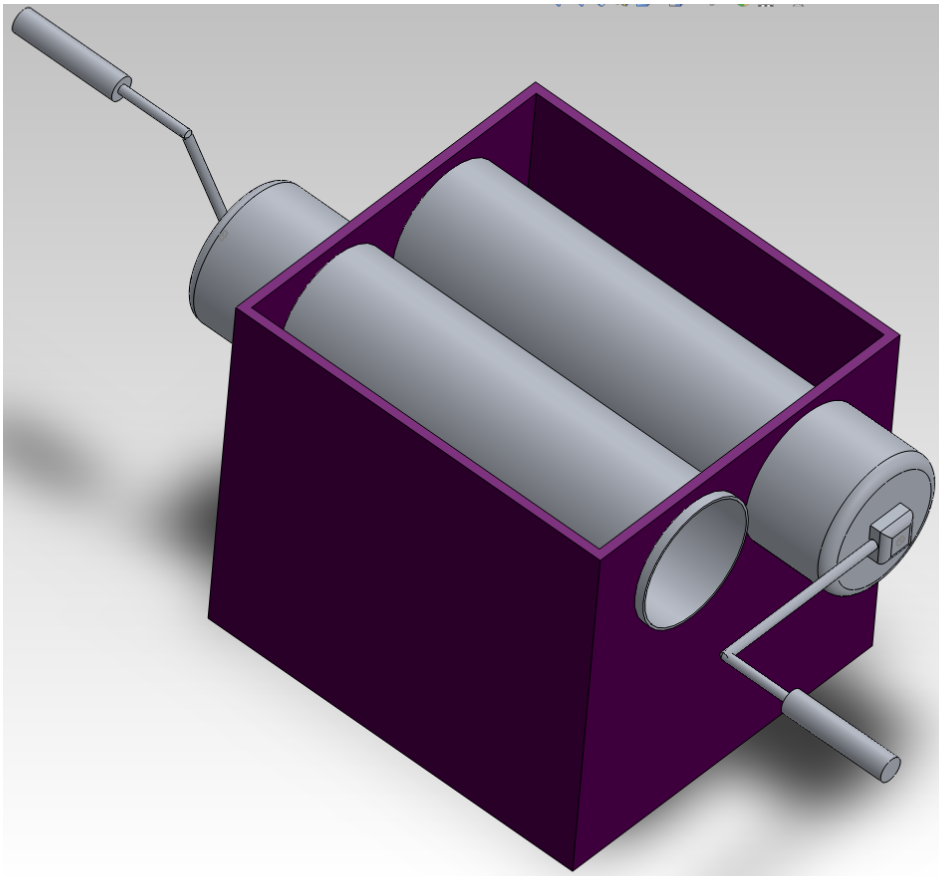


# Crusher Trike

Purple A

# Technical Sketch Model



Power:

Operated by one  
person

Speed:

# bottles per day

Desired Capacity:

~200 lbs per load

# Technical Sketch Model Demo



# Benchmarking

- Metro Pedal Power
  - No compaction
  - 300-400lbs with electric assist
  - \$4200-5600, customizable
- Collection Truck
  - Expensive, diesel powered
  - Limited by terrain
  - Carries 4000lbs;



# Market

- Targets: Nicaragua, Nigeria, India
- El Rama, Nicaragua
  - Waste collection tax revenue: \$4,000
  - Waste collection expenditure: \$21,000
  - 15-20% of waste is plastic bottles
- Current wastepicker wage: <\$127/month
  - Pick up 70 kg bags; 6-8 bags/week
  - Squeezing bottles is significant effort

# Customer Needs

- Provides desired technology for existing organizations
  - Wecyclers
  - Recycling in Nicaragua
- Collects and compacts simultaneously
  - Low cost
  - Time efficient
- Easily replaceable components for low-tech municipalities

# Next Steps

- User testing on various terrains
- Develop pedal powered system
- Develop shredder system