## WRECS

Waste / Recycling / Environment / Cleaning / System

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### **The Problem**

- Consumers not recycling
- No resources for recycling in rural areas
- Dumping trash into oceans
- The filling of landfills
- Most trash can't decompose quickly

The Bottom Line Is:

### **TOO MUCH TRASH**





### **Our Idea**

- Ideas to help solve too much garbage
- 2. Narrow it Down
- 3. We made a final decision... .... ....

### A Garbage to Recycling Sorting Machine



### **The Product**

- Sorts garbage from the average consumer
- Puts it into different recycling bins
- Bins dump into truck trailers that take them to recycling plants



# What can it sort to be recycled?

#### Plastics

We can sort plastic film and hard plastics together

#### Papers

Newspapers, magazines, and office paper can all be recycled.

#### Liquids

We will dry up the liquids and use them as compost

#### Metal

Most metals, metalic and non-metalic can be melted down and reused

#### Cardboard

The cardboard can be broken down and shipped off.

#### Glass

Can be melted down and reused. If glass is broken into little enough pieces it can't be recycled.

#### Electronics

All sorts of electronic parts can be reused.

#### Waste

There is also things that can't be recycled whatsoever, such as styrofoam



### **Materials**

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Stainless Steel (Body) Titanium (Blades)

Chemical Composition Cameras will also be made out of titanium





### Cost

The total estimated cost is about 1.1 million dollars



### Scale

## 1:50

- 1 centimeter on the model equals 50 centimeters in real life
- The top would be 5 ½ meters
- We did it all in the metric system





### Our Tinkercad Designs



## Our Iterations

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### Solving our problem

- Get rid of garbage issues
- Send all the garbage to Salt Lake City
  - Program called Renewology turns plastics into Diesel Fuel
- Can be used nationwide rural areas



### **Impacting Natural** Resources

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- Helps water pollution Saving animals Slows down landfill filling •





https://spark.adob e.com/page/uAtC fEZISRNpF/







### 3rd Place





### Student's Choice

FABSLAM 3D Design & Fabrication Easterni (daho Storlent Showcase) STUDENTS' CHOICE WRECs

DIGITAL HARDON DELEMENTION

# Any Questions?

Thanks!