

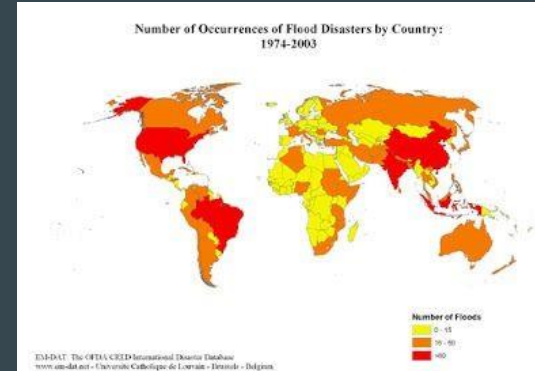
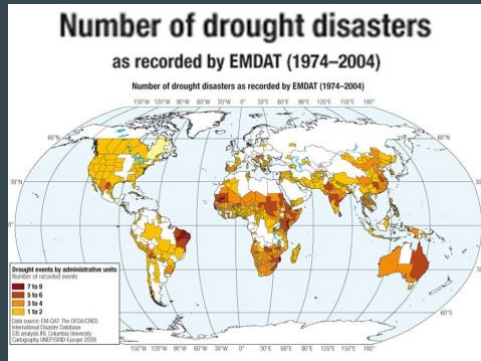
# The Tiny Dam Foundation



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# Problem

- Droughts in different countries: Ethiopia, Sudan, India, China, etc.
- Excessive flooding
- Bad irrigation systems
- High costs of standard dams(especially in third world countries)
  - The Hoover Dam cost \$49 Million Dollars (\$760 Million Dollars today)
  - Non-federal dams cost \$60.70 billion
- Irrigation problems in 3rd world countries
- High losses of crops due to flooding of agricultural lands

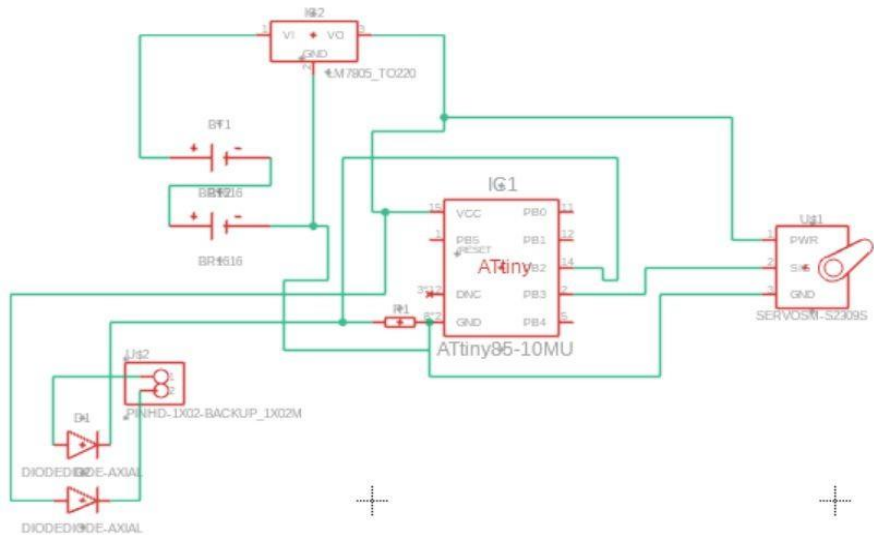
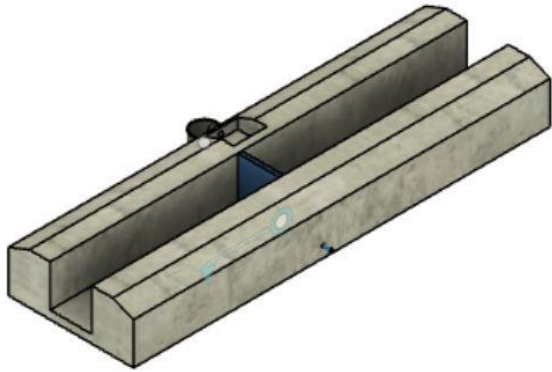


## How Might We?

How might we create a better dam for resource-less countries so that it can act as a reservoir and so that it can protect against flooding.

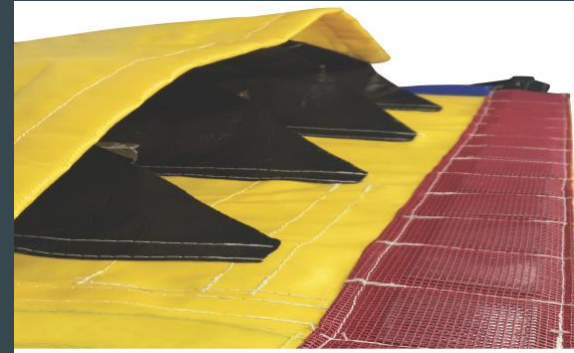
# Product

- Our idea is to build a dam that also works as a reservoir.
- It will help with conserving water during droughts and it will also help prevent floods.
- By conserving water it could help with irrigation and better irrigation means that you can get more produce.
- The idea is that we have a dam with a door that goes up and down and it uses information from sensors to pick up information
- During floods, the sensor would collect the water and keep it as a reservoir for droughts
- It gets its energy from the sun by using solar panels and it creates electricity for it to keep running.
  - No battery, oil, or other resources requiring humans to help
- The base is made out of concrete



# Why our product is better

- We want to make our dam affordable for countries all over the world
- Making our product affordable is important to us because we want other countries to be able to afford this product
- Unlike other portable dams, ours will be affordable and won't need require anyone to control it
- Other portable dams can be heavy and be made from materials that aren't good for the environment
  - Quick Dam from Northern Tools is the made from polyethylene which aren't flame retardant
- They would be used only few times per year but ours would run on a daily basis to prepare for any situation.



## In the long run

- Our device will create a better irrigation system for countries and allowing for more produce to be made.
- The reservoir part will also collect water and it can be purified and made into drinkable water
- The device will also help prevent flooding disasters that destroy homes, crops, etc.