RainCube

Decentralized Water for Intelligent Urban Farming

Overview

Why do we need Raincube?
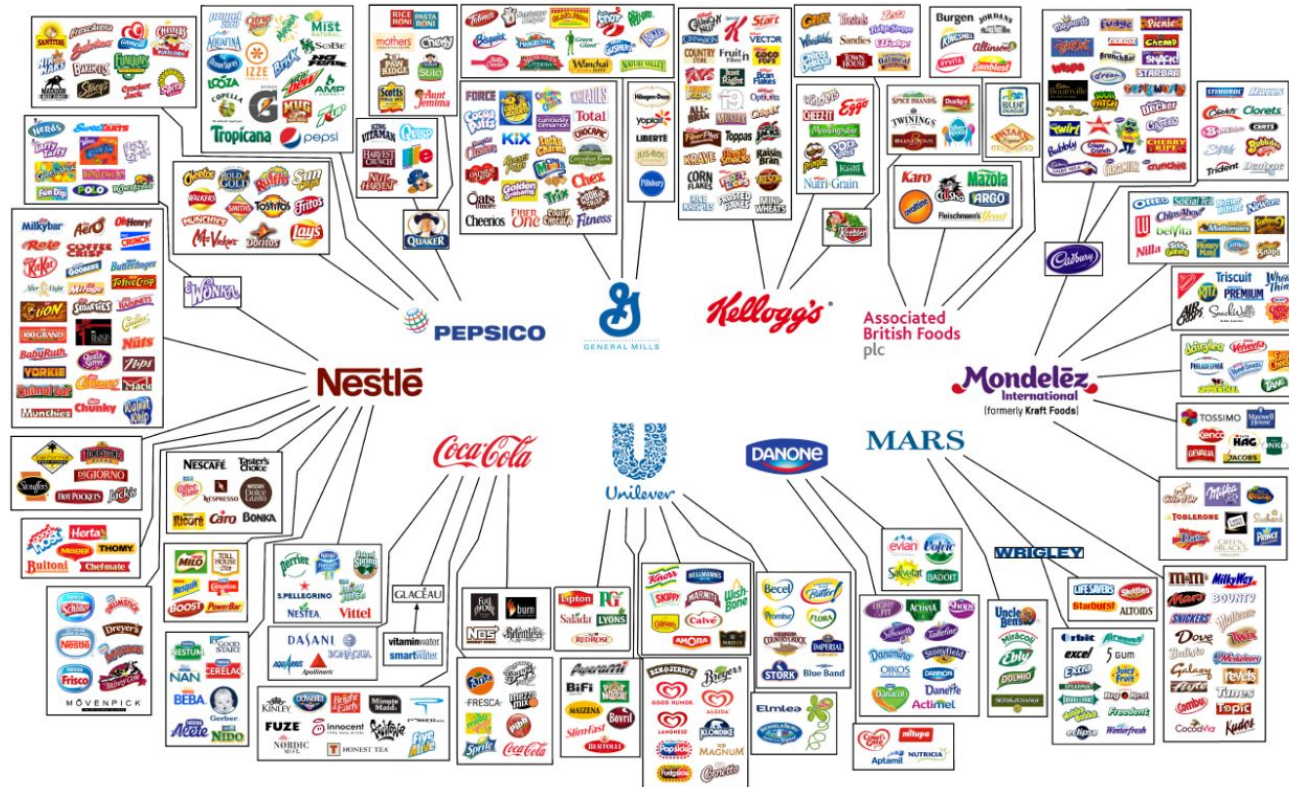
What is Raincube?

How does Raincube work?

When is Raincube?

Who is Raincube?

The Food Pyramid

Capitalism=Scarcity= Hunger, Homelessness, and Hate

Harvesting Harmony

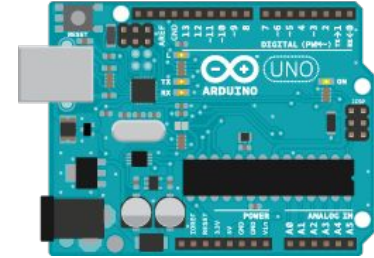# What is Raincube? IoT= Sensors + Actuators + Network + Computers + Humans

Float Switch

Ball Valve

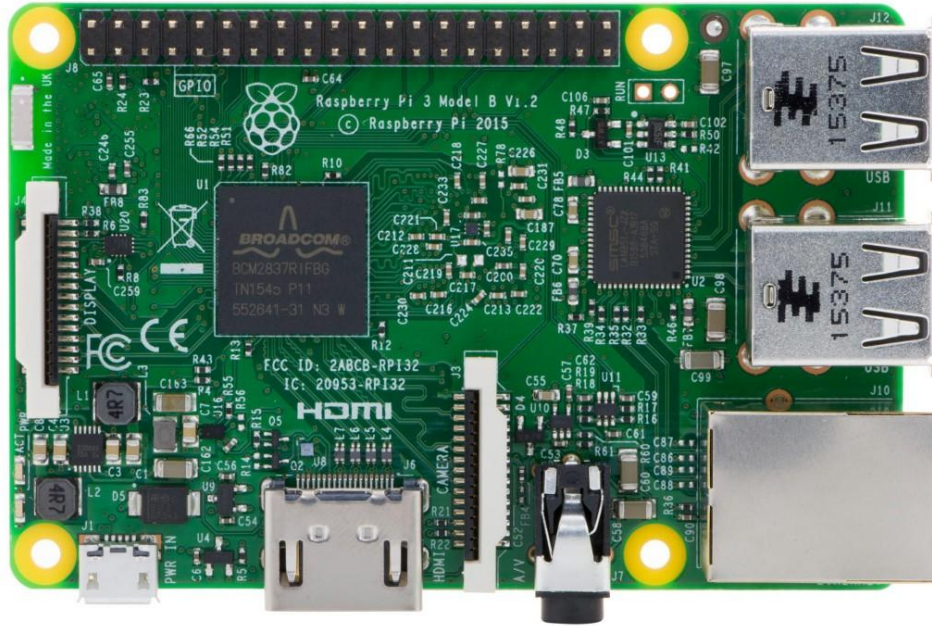275 Gallon Plastic Container
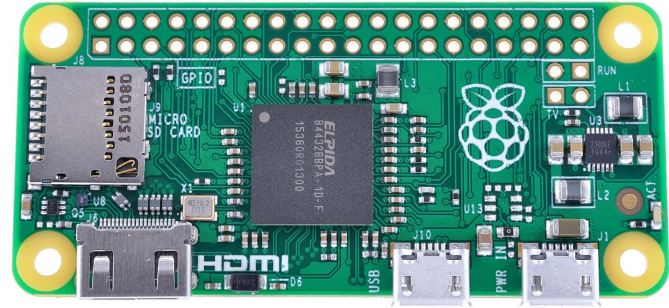

Arduino Microcontroller

Weather Data API

Two More Things about IoT

Raspberry Pi 3 = $35

Raspberry Pi Zero = $5

Where will the first Raincube be Installed?
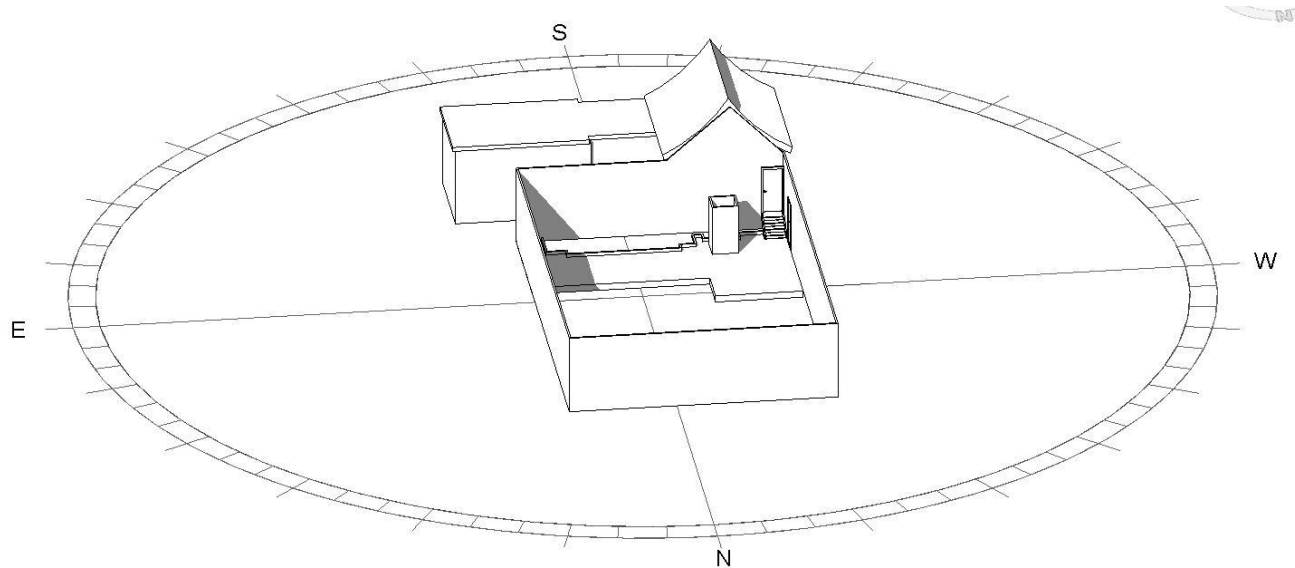
409 37th Ave NE St. Petersburg, FL

Total Roof Area- 726 square ft

Yearly Water Catchment Volume- 26,000 gallons

Can Water 200 sq ft of garden space

Rainwater Calculator= 1Sq ft x .6 x 1 inch of Rain= X gallons

Construction Steps

Retrofit a backyard into an edible garden with

1. -[Lasagna mulching](#)

2. -Gutter Renovation (Gutter Guard + First Flush)

3. -Rain Barrel Wrapping

4. -Raised bed garden

5. -Irrigation

6. -Planting

    Zone 1 carrots, eggplants, tomatoes, pepper, onions, basil, cucumbers, basil

    Zone 2 corn, beans, cucumbers, melons, parsley, peas, potatoes, pumpkin, squash, geranium.

7. -Computer Setup

8. -Test and monitor

Scaling Raincube

How Does Raincube go Global and Local?

- Zero Marginal Cost
- Agile and Small Batch Manufacturing (From Prototype to Product)
- Smart Contracts and Web3
- International Demo Sites

You Don't Sell Hardware any more. You give it away for free.

The Product is Production. Profit from Food > House Mortgage

Who is Raincube?

Open Source Modular Platform

RainCube Installer Certification

Creative Commons License to incentivize propagation.

e.g. Food Profit Split= Homeowner 75% Service Worker 15% Installer 10%

Stats

FUEL
+250

When is Raincube?

5 Week RainCube Installer Certification

Feb 29 Rainwater Workshop

Mar 5 Install Day 1- Gutters and RainCube

Mar 12 Install Day 2- Irrigation and Raised Beds

Mar 19 Install Day 3- Planting and Computer Installation and Testing

Mar 26 Graduation Party

Weekly Office Hours at Greentech Meetup