Ideas for RG Machine

Building Start Zone as CID with three shutes that will lead to other areas.

We can maybe build a home for the marbles in the form of a farm where food is grown and kept. Where people will pick up the balls from and then put it into the CID area.

Ribhav Dhingra

Creating a home for the marbles is a great idea. I feel like this should be separate from the marble run though, so we don't over-complicate things. A separate marble dispenser: could dispense 3x marbles when you press a button

Susanne Duman

Then- One of the marbe runs will be a never ending marble run or a perpetual motion machine that will be kickstarted by the marble striking it.

This will be labelled R2Gs hyperlocal composting

Ribhav Dhingra

A longer marble run will be the composting. This needs to have a positive end as well relatively. We can maybe use

Ribhav Dhingra

The 3D Printed Marble Machine #3 by Tullo

Hey guys, this is my Marbles Machine #3 - Inspiration by Kinetic Sculpture artist Philip...

thingiverse.com

Marble Run Alternating Diverter by LMCharlie1983

Here is a video of the marble run: https://youtu.be/Ln1-Ln3Ln_Ys This mar...

thingiverse.com

Hilbert Curve Marble Run by mwdds

Hilbert Curves https://en.wikipedia.org/wiki/Hilbert_...

thingiverse.com

Marble ramp DIY (marble run) by simdoy

DIY Marble Ramp With this design you can build endless unbelievable...

thingiverse.com

Marble Run Collection by mwdwms

This is a collection of all of the marble run pieces put together. Feel free to...

thingiverse.com

GREENHOUSE GAS CALCULATION[1]

Greenhouse Gas Emissions = D x W x EF

D = The **distance** your shipment has traveled (in miles or kilometers)

W = The **weight** or amount of your shipment (in pounds, kilograms or tons when data is available, or volume metrics such as number of twenty-foot equivalent unit [TEUs])

EF = The mode's specific **emissions factor**.

garbage truck- 26,000-30,000lbs

22.38lb of co2 per gallon
gt burns 20 gallons of diesel fuel

Home Base (CID)

Ribhav Dhingra

Dust bins - 3D printed, car bins, HAPE marble run

Susanne Duman

Marbles

Susanne Duman

Centerpiece with three chutes (spiral down into a rotating "lazy susan")

Susanne Duman

methane bubble

Balloons

GHG emission: 0.01034 metric tons of co2

GHG emission: 0.0167 metric tons of co2

GHG emission: 6.7386 metric tons of CO_2

Path to landfill

Susanne Duman

Marble

7.6 miles

South transfer station

11.1 miles

Seattle Interbay Yard

330 miles

Landfill- a pot w soil, dominoes keep piling up columbia ridge landfill, arlington oregon- 330 miles away, 114 years of capcity

Theertha Shetty

GHG emission: 0.01294 metric tons of co2

GHG emission: 0.00094 metric tons of co2

Path to city composting site

Susanne Duman

Marble

7.6 miles

South transfer station

31.7 miles

Cedar Grove

GHG emission: 0.14365775 metric tons of co2

56.3 miles

LENZ Enterprises

Lenz Enterprises processes food waste into compost for Seattle;
takes about 120-150 days from waste to finished compost

Susanne Duman

https://www.youtube.com/watch?v=NqAmpm9fi7w

Susanne Duman

Union Pacific Argo Yard

Truck > Seattle Transfer Station > compacted and put into containers > containers put on train > train goes to Arlington OR (Columbia Ridge Landfill) > take containers off the rail onto trucks > trucks to landfill >

Susanne Duman

Lenz Enterprises processes food waste into compost for Seattle;
takes about 120-150 days from waste to finished compost

Susanne Duman

https://www.seattle.gov/documents/Departments/SPU/Services/Garbage/NTSbrochure.pdf

Susanne Duman

https://www.nwnewsnetwork.org/economy-business-finance-and-labor/2017-09-21/competing-for-your-trash-the-huge-hidden-landfills-of-the-columbia-river-gorge

Theertha Shetty