



# FOODVERSE

## FOODVERSE 2050

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G A M E   D E S I G N

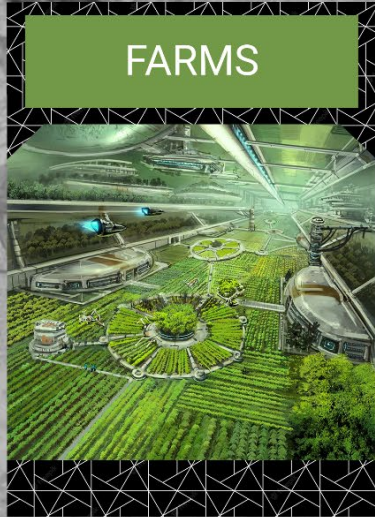
A narrative game design related to the SDG Goal 2 - Zero Hunger, where I used storyboard for world building of the future and imagine a world of hunger. The player who participates, plays the role of a politician, who eventually becomes a character in my story, has to answer questions related to food wastage and recycling/ reusing food. The answers lead them to their political personality and finally the kind of world that they would end up creating.

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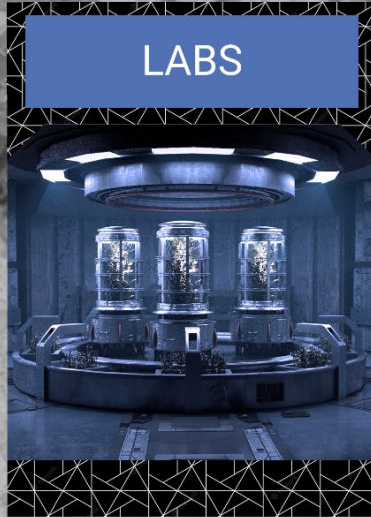
You are in 2050!

The world is facing food shortage due to harsh weather conditions, scarcity of water. Food is the new currency. The world has adopted sustainable practices at every stage of food production to reduce the food loss/ waste.

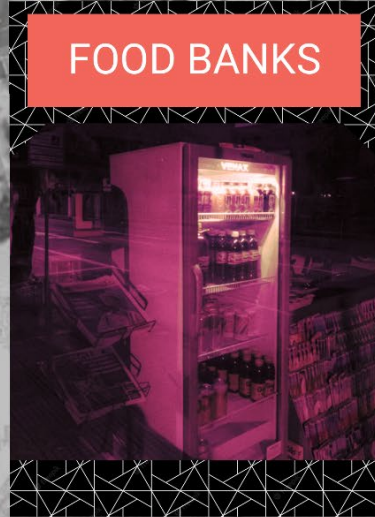
## FARMS



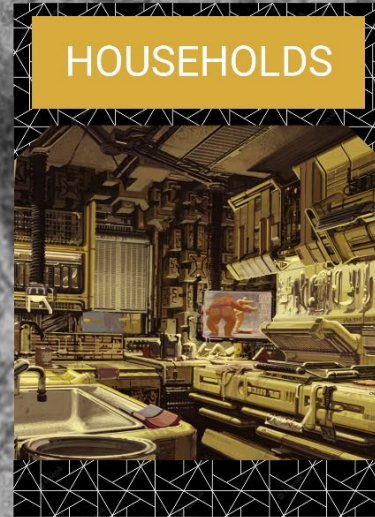
## LABS



## FOOD BANKS



## HOUSEHOLDS



Vertical Agriculture was adopted to increase food production and expand as the world's population has exceeded 9 billion. Vertical farms where farmers can grow indoors year-round by controlling light, temperature, water, and oftentimes carbon dioxide levels as well. Producing fresh greens and vegetables close to the growing urban populations could help meet growing global food demands in an environmentally responsible and sustainable way by reducing distribution chains to offer lower emissions, providing higher-nutrient produce, and drastically reducing water usage and runoff. There is an extensive use of Drones at the farms.

DRONES

Agricultural sprawl – which covered a much wider area – was the greatest threat to the natural world. Every hectare of land used by farming was a hectare not used for wildlife and complex living systems, which pushed the world into new reality. Most of the food comes neither from animals nor plants, but from unicellular life. The food grown at farm is processed at the labs, made into smart food and distributed around. All farming except fruit and vegetable production has been replaced by fermenting; brewing microbes through precision fermentation. It means to multiply particular micro-organisms, to produce particular products, in labs.

ROBOTS

Food is distributed to people in equal quantities. They need to be collected at the Food banks, which have vending machines that have automated the process of food distribution. The smart vending machines, tend to scan people, identify the nutrients deficient and customize smart food for a balanced diet. The exploration of alternative foodscapes to re-localizing food in contrast with agro-industrial globalization and its environmental, economic and social unsustainability has contributed with speculations on what has been called "survival food". Researchers have explored new or overlooked sources of nutrition to respond to climate change constraints.

iOT

Household Smart kitchens are also designed to reduce the food wastage, save energy and time. Their main purpose is to be sustainable and efficient. They are a combination of electronics, careful design and environmentally-friendly elements. The cabinet and storage space has been reduced to make sure there is no over-consumption or wastage of food. The food discard system has also been designed to make sure the organic matter is composted and converted back to energy. AI tends to predict the menu/ give smart recipes with the ingredients available and crossing food wastage limit for a household, has to face serious consequences.

AI

# INTRO TO WORLD

Giving a glimpse of the world of 2050, where there is scarcity of food, and food is the new currency.



Cover

You are in 2050!  
The world is facing food shortage due to harsh weather conditions, scarcity of water. Food is the new currency. The world has adopted sustainable practices at every stage of food production to reduce the food loss/ wastage.

FARMS	LABS	FOOD BANKS	HOUSEHOLDS
Vertical Agriculture was adopted to increase food production and demand as the world's population has exceeded 9 billion. Vertical farms where farmers can grow indoors year-round by controlling light, temperature, water, and other environmental levels as well. Producing fresh greens and vegetables close to the growing urban population could help meet growing global food demands in an environmentally responsible and sustainable way by reducing distribution chains to offer lower emissions, providing higher nutrient produce, and drastically reducing water usage and fossil. There is an extensive use of Drones at the farms.	Agricultural sprawl - which covered a much wider area - into the planet as the world's population has exceeded 9 billion. Vertical farms where farmers can grow indoors year-round by controlling light, temperature, water, and other environmental levels as well. Producing fresh greens and vegetables close to the growing urban population could help meet growing global food demands in an environmentally responsible and sustainable way by reducing distribution chains to offer lower emissions, providing higher nutrient produce, and drastically reducing water usage and fossil. There is an extensive use of Drones at the farms.	Food is distributed to people in equal quantities. They need to be collected at the food banks, which have vending machines that have automated the process of food distribution. The smart vending machines, tend to scan people, identify the nutrients deficient and customize smart food for a balanced diet. The expansion of alternative foodspaces to re-localizing food in contrast with agricultural production and its environmental, economic and social unsustainability has coincided with populations on what has been called "swamp food". Researchers have explored new or overlooked sources of nutrition to respond to climate change constraints.	Household Smart kitchens are also designed to reduce the food wastage, save energy and time. They may propose to be sustainable and efficient. They are a combination of electronic smart design and environmentally friendly elements. The cabinet and storage space that has been reduced to make use there is to offer smart options or wastage of food. The food discard system has also been designed to make sure the organic matter is composted and converted back to energy. AI tends to predict the recipe, give smart recipes with the ingredients available and crossing food wastage test for a household, but to face serious consequences.
DRONES	ROBOTS	IOT	AI

Introduction

People love their food and use it to move water. They eat it. They use it to move water. They eat it. They use it to move water. They eat it. They use it to move water.

People love white space in buildings & designs but not in the fridge or the plates. Why?

How can you think of the food packaging materials to be recycled and generate lesser waste?

What's your opinion about monoculture food? Do you think it would lead to an apocalyptic or a dystopian food situation?

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Opinion cards

SOCIETY DECLINES	SOCIETY PROSPERS
PLAUSIBLE FUTURES	

Plausible world mat

What kind of actions would you take against food wastage at households?

You have identified that meat production consumes more resources. What would you do?

What would you do about food wastage at farms?

What kind of food dispensing system would you like to follow to reduce food wastage?

What kind of actions would you take against food wastage at households?

Question cards

What kind of food dispensing system would you like to follow to reduce food wastage? Prepare a universal food chart and distribute the same from the banks. Allow the residents to pick their food based on the slot machine system. Smart food to be given based on the scan results of the person. Categorize certain foods that consume resources as premium and sell.	What would you do about food wastage at farms? Introduce farm robots despite the outcome of it is monoculture food. Lab-grown farming culture of the food to reduce wastage of resources. Reinforce Barter system for resources. Bring a balance between cereals and fruits/vegetables to bring down the cost.
You have identified that meat production consumes more resources. What would you do? Enforce Vegan food. Alternative self-sustaining process for rearing the cattle. Impose taxes and increase the price of meat.	What kind of actions would you take against food wastage at households? Cut down on luxurious food/ Ration the food for the household. Portion the food and distribute them equally. Include a pet in each household to feed excess food waste. Tax the residents for the quantity of food wasted.

Player mat

# Question cards



Question cards – One question card from each sector and the answers get you points.

# Personality cards

## CAPITALIST

As A capitalist, you believe in a political system in which property, business, and industry are controlled by private owners rather than by the state, with the purpose of making a profit. You give individuals the freedom to choose the products they desire. You incentivise the individuals to be rich and encourage innovations. You also rely on technology to solve problems.

## DICTATOR

“The Dictator” specifies that you prefer to take strict action against food wastage. You tried to prevent the food wastage, and you are capable of taking a lead on innovation. You dedicate your resources to research and development which can lead to fast advancements in a number of fields. You are the most efficient politician when it comes to effective responses during emergency situations.

## SOCIALIST

As a Socialist, you believe that the means of production, distribution, and exchange of food should be owned or regulated by the community as a whole. You try to implement a stressed equality among the society. You give greater choices for the individuals. There is Social stability and improved infrastructure under your rule in your territory.

## POPULIST

As a Populist, you strive to appeal to ordinary people who feel that their concerns are disregarded by established elite groups. The poor people of your territory are going to be benefitted by you as the their leader. You'd help in increasing the income and decreasing the difference between each class of the society. You'd think of redistributing the food within the society and feed the poor.

# World cards

## COLLAPSE

As a Capitalist, you'd drive the world to collapse, where both the society and the food security collapses. The choice based on economy creates a larger inequality. The world is prone to "noom and bust" in economic cycles. It tends to lead to a large inequality. The society collapses due to lack of freedom of speech and economic freedom. The lack of incentive to strive for more demotivates individuals.

## DISCIPLINE

As a Dictator, you'd create a world of discipline, where food security can be established. The world of discipline that you create shall have a deterrent effect on crime, can lead to a world of innovation.

But the world that you create might lead to isolationism of the culture and nation. The restriction of personal rights may lead to a decline of society and create disinterest within society.

## GROWTH

As a Socialist, you'd end up creating a world of growth, where both society and the food situation prospers. All members share benefits. Those who cannot contribute are also allowed to participate. Each person's survival needs are met. There is equal distribution of wealth and no discrimination of socio-economic classes.

## BUSINESS AS USUAL

As a Populist, your world would be, Business as Usual. The society prospers but the food situation gets worse. There is a lot of wastage of resources under your lead leadership. The government may be in power, but the solutions proposed are temporary in terms of food security and not sustainable.

# Opinion cards

Most of fresh produce often goes rotten in the fridge. How could you design a fridge that encourages people to change their behaviour and reduces food waste?

How can you think of the food packaging material to be recycled and generate lesser waste?

What's your opinion about monoculture food? Do you think it would lead to an utopian or a dystopian food situation?

Do you think the present food situation is Dystopian/ Utopian?

People often fill their kettles with more water than needed. Over filling means energy is wasted when boiling excess water. How can a kettle be designed to reduce excess waste?

People love white space in buildings & designs but not in the fridge or the plates. Why?

How do you think consumption of fresh fruits and vegetables and dairy products can be made more affordable and less perishable?

In 3D printed food, the consumer becomes the farmer and harvests the product before consumption. Creativity is the limit. Any thoughts?

# Testing

