

## Metaflora Transcript

00:00:00:00 - 00:00:13:01

Unknown

Expected to reach 8 million inhabitants by 20.

00:00:13:03 - 00:00:35:02

Unknown

With a forever aging and growing population, Melbourne is expected to reach 8 million inhabitants by 2050. Moving into the future, we are expecting to feed more people with significantly less resources. It is estimated that plague waste in Australia is 30 to 50% of total waste in hospitals globally. The world waste. One third of all food produced, which is around 1.3 billion tonnes of food.

00:00:35:04 - 00:00:59:14

Unknown

This food creates dangerous and toxic gases in our landfills. Water scarcity threatens the food of the community. The world loses 12 million acres of productive agricultural land each year due to drought and desertification. Our concept metaphor looks at eliminating food wastage in hospitals through creating more efficient food practices, reducing the amount of malnutrition and food satisfaction in patients.

00:00:59:16 - 00:01:12:20

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The year 2030. Can you imagine a world where organic food is grown onsite in hospitals and your daily nutrition is able to be absorbed through your skin?

00:01:12:22 - 00:01:38:24

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Welcome to metaphor. Metaphor is a hydroponic modular farm that utilizes a decontaminated plant waste from its patients to then create compost that is further refined into a nutrient rich spray which allows for extreme growth rates of organic produce. Metaphor itself comes in two sizes, the smallest with a floor standing at 1.2 meters in diameter and has the capability to yield 40 crops at any one given moment.

00:01:39:01 - 00:02:01:24

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The larger metaphor, standing at 6.4 meters in diameter, has the potential of yielding 160 crops at any one time. Some technologies that are in the farm rings themselves. Each human, which controls and monitors sensors like the data center environmental sensor, which creates the optimal environment for crop growth with the gem picks. Three Sensing contamination or errors in the system.

00:02:02:01 - 00:02:28:05

Unknown

The farm is then harvested and maintained by drones that through AI and partnered with root Pfluger and activist three Sun Technologies that have the capacity to predict and analyze the

anticipated production and malfunction of metaphor. Through adapting our concepts to an inner-city hospital context, we were able to determine the maximum yield in the most restricted of spaces, providing us with the insights about solutions potential along with in context, perspectives and feedback.

00:02:28:09 - 00:03:02:23

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Metaphor is produced is harvested and provided to the kitchen where they can prepare patients meals. Uneaten food is utilized to create more crops or renewable energies through anaerobic digestion. Also, providing the hospital with selecting biogas is also reduced. Welcome to metaphor. Metaphor is a transdermal patch filled with nano encapsulated biodegradable nanoparticles. These particles are activated via the use of infrared technology through the heating of silver metallic nanoparticles, which in turn deliver the appropriate amount of nutrients acquired from metaphorically the patient.

00:03:03:00 - 00:03:35:11

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Metaphor contains two key products a patch and the nutrient read a flash activator. Nurses throughout hospitals are able to apply and activate these patches in an efficient manner for their patients, allowing those in hospitals to be effectively provided with the nutrients they require to recover at a faster rate. Partnering with group IQ is Fluker and a generalized. These certain technologies allow the patch to administer the correct dosage to each individual user, also mitigating adverse reactions to our transdermal patch.

00:03:35:13 - 00:04:11:14

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Many picks in conjunction with our device metaphor is able to read the patient's current nutrient levels, releasing the appropriate amount they need mitigating the rate of malnourishment in mosquitoes. The patch itself is made of medical grade silicon, which is sterilized and revitalized with nutrients once depleted and to get the most used out of each patch.