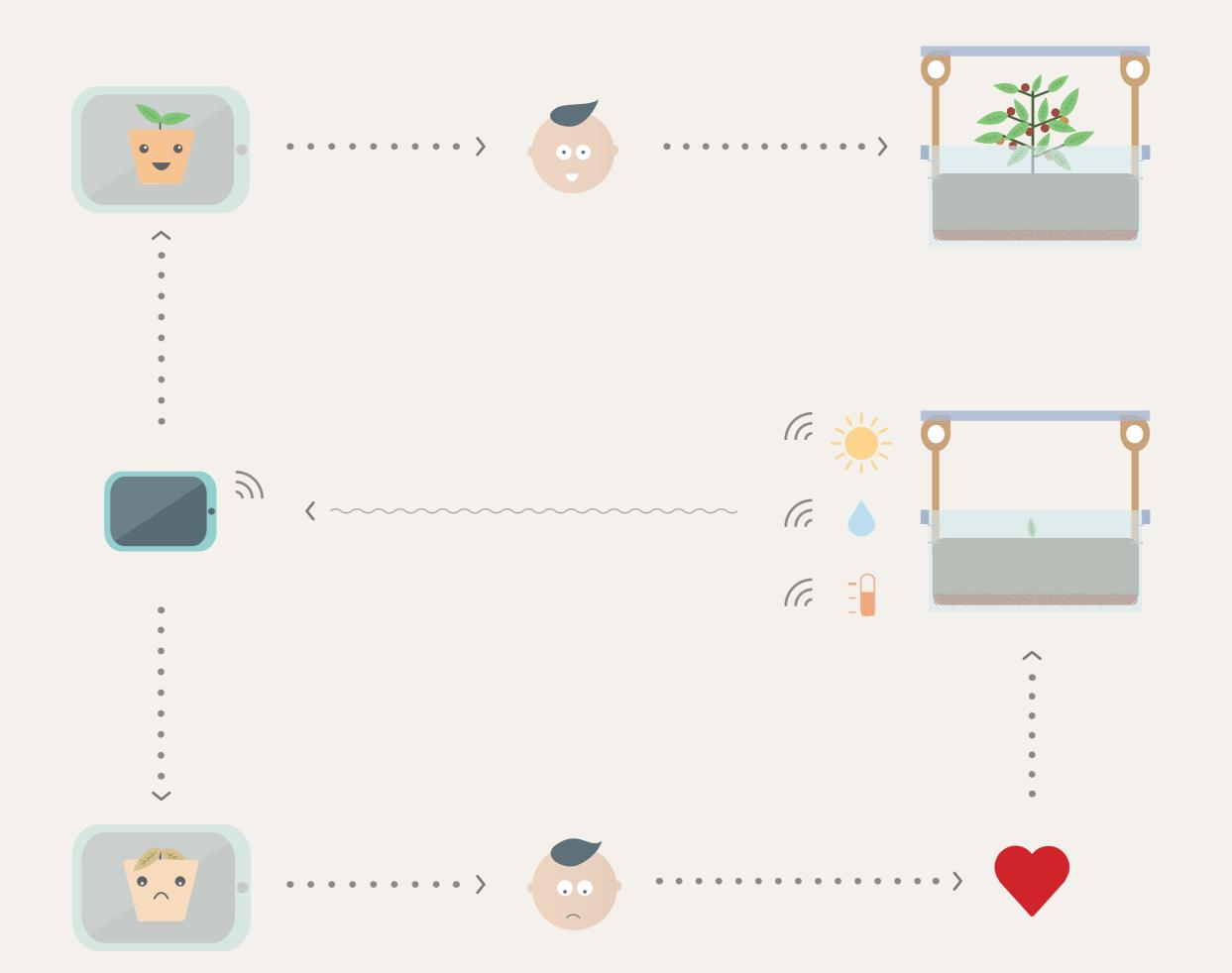
GRÜT

An interactive gardening kit for kids

A solution for food waste

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Team Members	With Special Thanks to	Research Question	Keywords			
Ilaria Zonda Jarmal Martis	lain Kettles	How can a digital application, connected to sensors	food waste, food cycle, sensors, data			
Evelien Al	Gijs Gootjes	change consumer attitude towards food waste?	transparency, awareness, urban farming, gardening, diy			
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INTERACTION FLOW



ABSTRACT

In this poster we propose the concept Grut, a sensor kit connected to a digital application that helps children grow their own plants.

By making it easier for children to grow their own plants we hope that more children in the city will come in contact

CONTEXT

In Holland, 31% of edible food is wasted (Circle Economy, 2014) by the consumer attitude (FoodDrinkEurope, 2014).

To put this into perspective, in 2013, the Dutch consumer has wasted a

Passy, R., Morris, M., Reid, F.

Impact of school gardening on children

CONCLUSION

As a solution to this social issue we propose Grut, which makes it easier for children to grow their own plants. Based on our research we have concluded that children who are more active in gardening, grow up with a better sense of responsibility towards

FUTURE ITERATIONS

Currently we have a basic prototype of the application. In the future we want to work further on the topics listed below

• Making the website responsive

Acquire a database with the conditions for

with homegrown food and as adults, make	total of approximately 2.5 billion euros	the enivornment.	each plant
more conscious choices regarding their food	(Rijksoverheid).	•	•
consumption and in turn reduce food waste.	The resources that have been put into	The solution consits of a sensor kit, a	Flesh out the checklists and advices
	growing the food are also wasted,	box (optional) and an app.	•
The sensors are attached to the soil near	which in turn has an impact on the	The sensors measure the condition of	• Experience a full cycle of the plant with the
the plant and send data to a database. The	environment. (Circle Economy, 2014)	the plant (water, light & temperature)	application to iron out bugs
app determines the condition of the plant		and send this data to the app.	•
based on the data that the sensors gather.	Research has shown that by attending	The app then evaluates the data and	Develop the personality of the avatar
Depending on the condition of the plant, the	school gardens, children gain more	gives the child feedback and advice	•
app will give the child advice on how to best	respect, knowledge and appreciation	how to properly take care of his plant.	Explore the possibilities to involve food
take care of his plant.	for nature and food (Passy, Morris,	• •	waste more
	Reid).	•	•
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