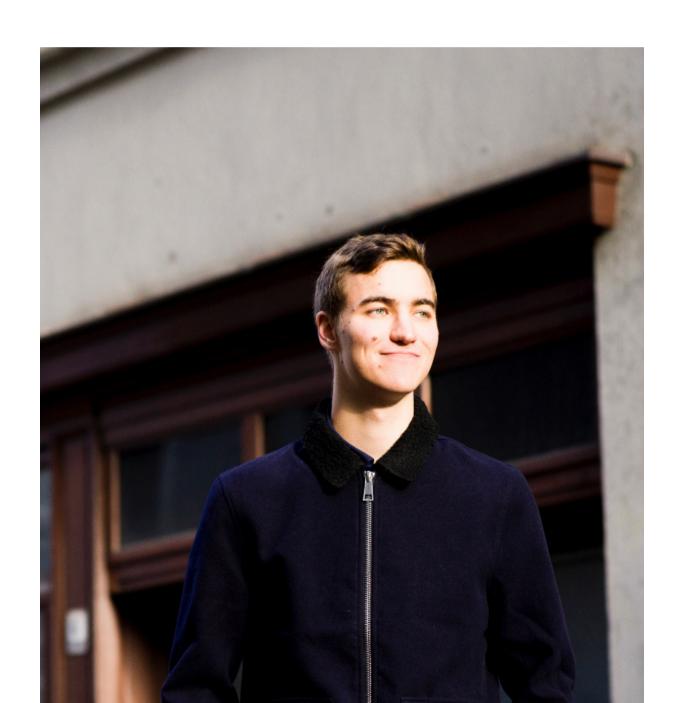
Using Gamification to Teach Youth

About E-waste

Hi! Icons and illustrations from Icons8

ERIK TOBIAS LEIRVIK



Welcome!

I'm Tobias, a full-time Informatics and design student at the University of Oslo and a part-time developer. Our group Zero consists of me, Rameen Khan and Synne Gåseidnes Thorsen. Together we are creating a game to teach youth about e-waste.



Nordic International Support Foundation

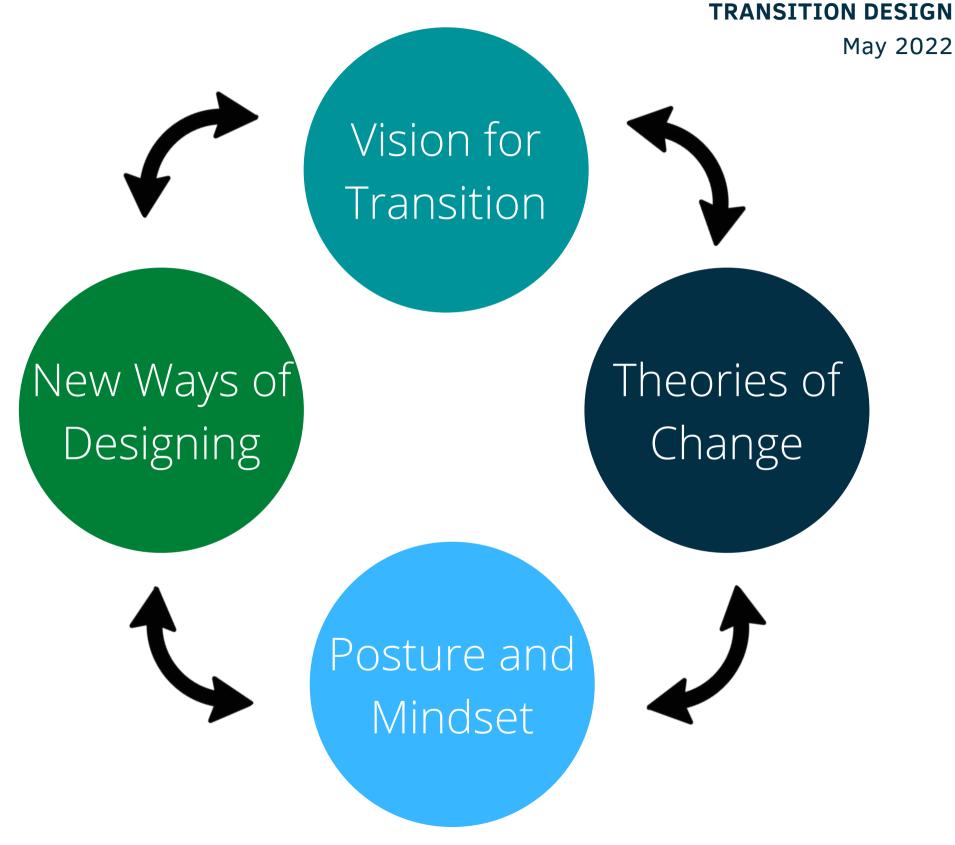
We are working with NIS
to create an interactive
installation which will
feature at an exhibition in
Norway

Our Vision

Our project aims to use gamification to teach youth about e-waste. The goal is to inspire and engage social, economic, industrial and technological stakeholders towards sustainable change in behaviour. The project will be displayed as a part of an exhibition in Norway, but we hope that it may live on beyond the scope of the exhibition and start a broader conversation about e-waste amongst youth.

May 2022

How Does This Relate to Transition Design?



Transition design framework











TRANSITION DESIGN
May 2022











5 GENDER EQUALITY











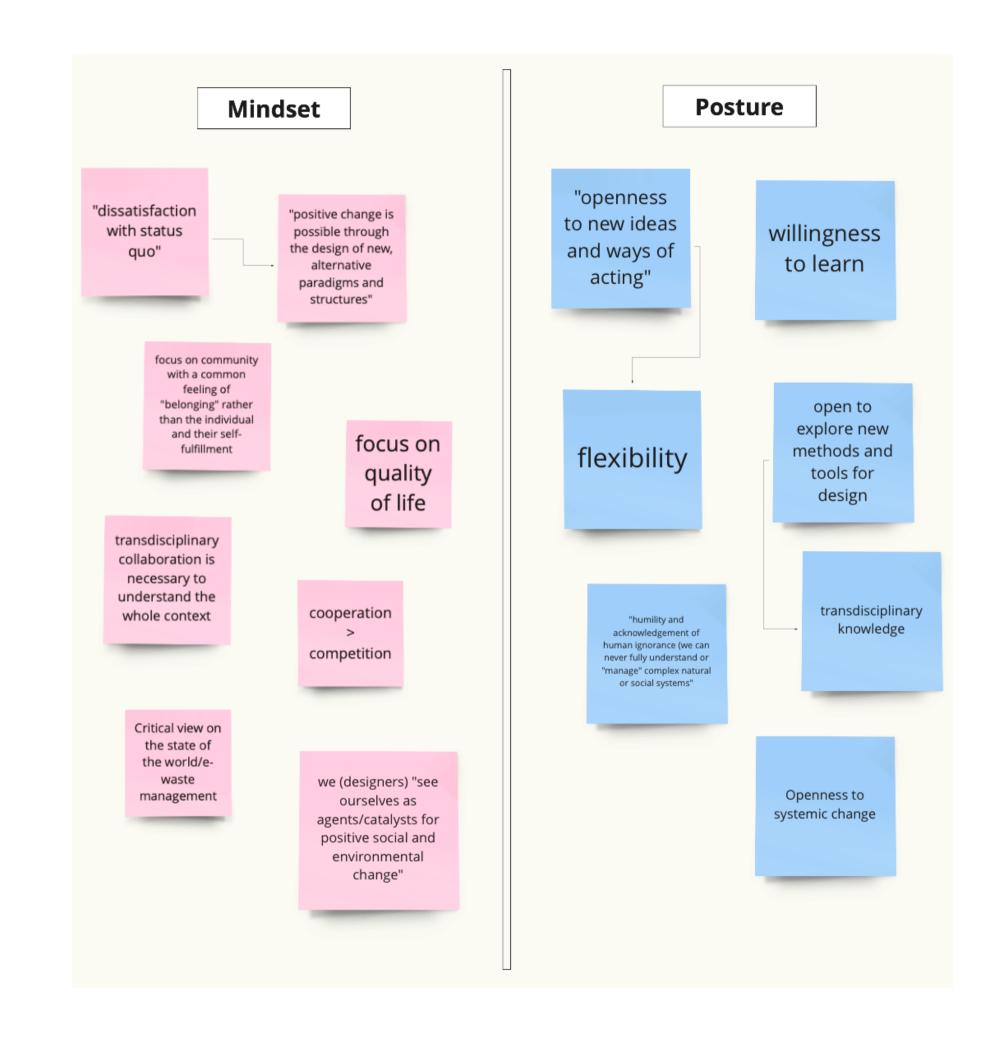




TRANSITION DESIGN

May 2022

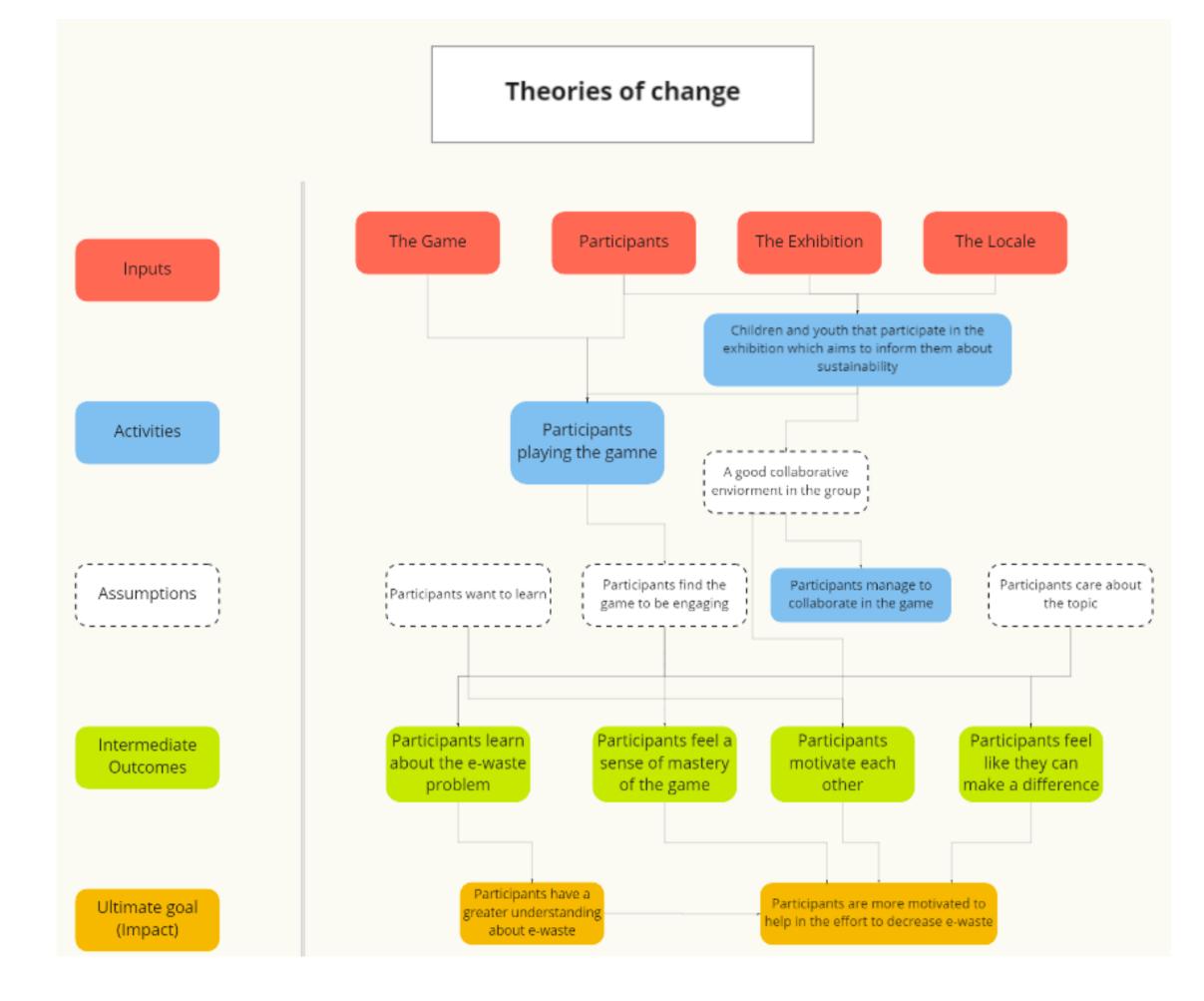
Mindset and Posture



TRANSITION DESIGN

May 2022

Defining Our Theory of Change



May 2022

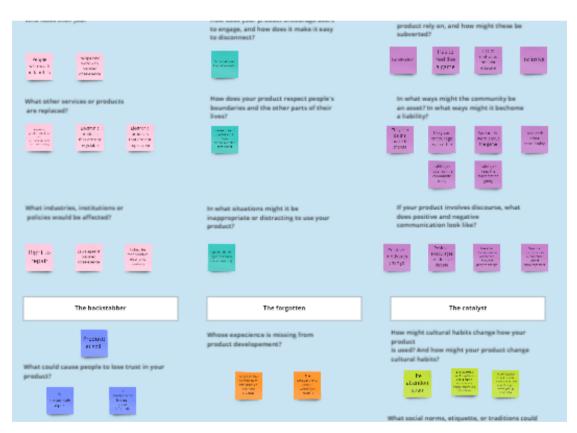
Speculative Design

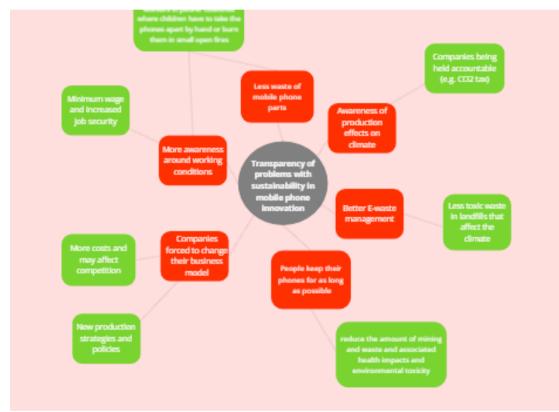
How might be instead of How might we

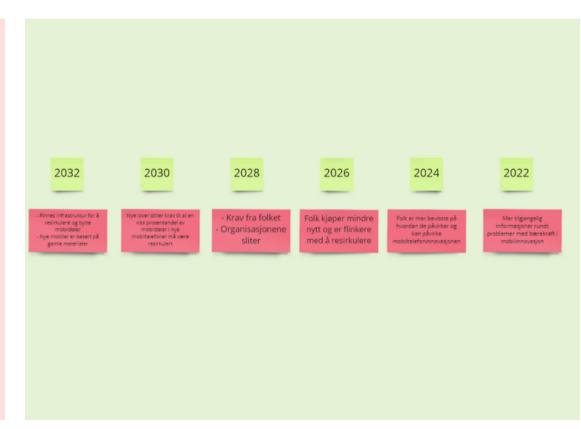
Double Diamond of Speculative Design



Workshops







Tarot Cards

- possible impacts and outcomes of what we create
- Specific open questions

Future Wheel

- Direct and indirect future consequences of future development
- The bigger picture

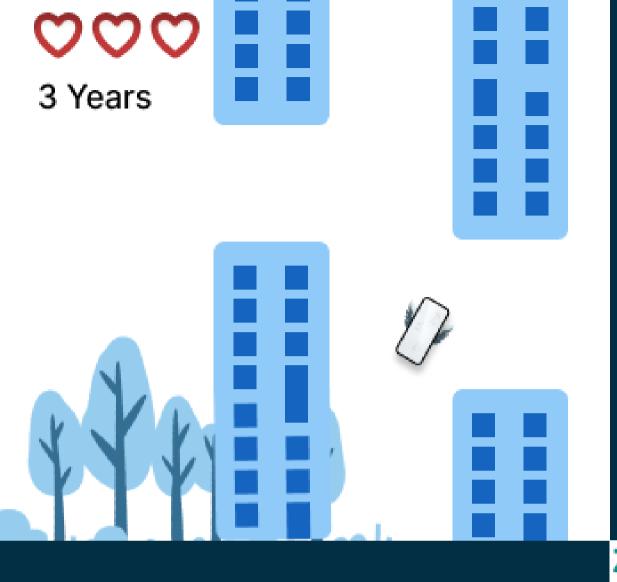
Backcasting

- "planning the future"
- strategic steps and necessary actions

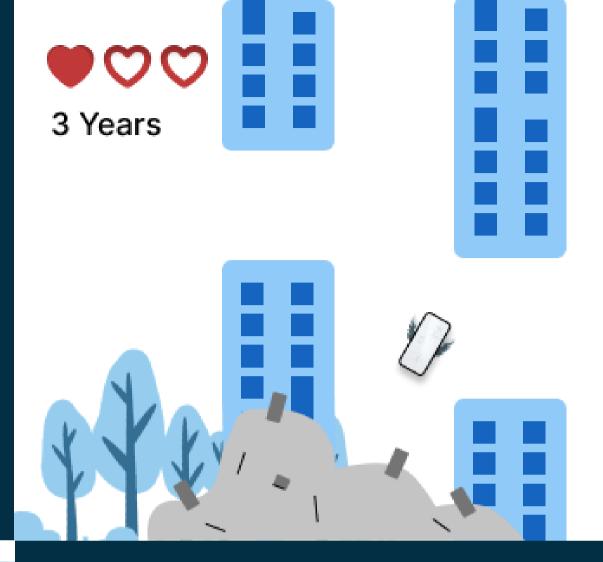
Expert Interview

Through an interview with an expert and researching within the field of e-waste we came to a handful of conclusions.

- The most sustainable phone you own, is the one in your pocket
- Recycling should only happen once reuse and repair are no longer possible (for optimal sustainability)
- A lot of energy is used in the assembly of mobile phones
- Only the most valuable parts of the phone (like gold) are usually recycled
- Companies conduct a lot of greenwashing



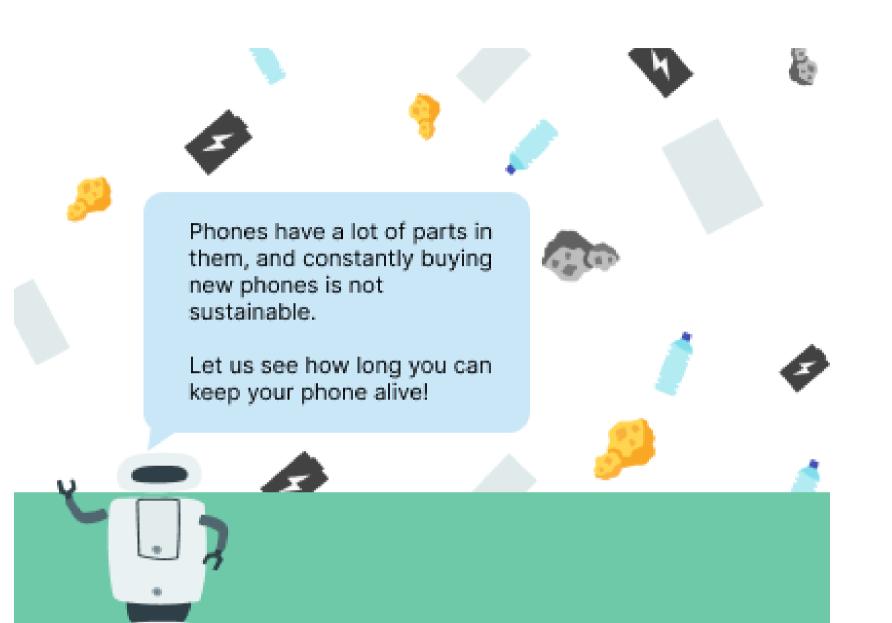
Informing youth about how much Co2 is produced from mobile phones



Gamification through a known format to combine learning with play



Visualising e-waste and making it a gameplay mechanic



Zero The Robot

Your friendly neighbourhood sustainability robot. Zero guides players through the game, and serves them with some facts along the way



ZER









Ceramics ca.20%

Phones are mostly made up of these three materials. Some are more valuable than others. Some are recycled and some are unfortunately not



Teaching

Our goal is to use gamification to teach youth how they may through changing their habits contribute to a more sustainable society

Starting a Broader Conversation About E-waste

Through our game we want to start a conversation. We hope that our game will make our players talk amongst themselves and others about e-waste, and reflect on how they may contribute to a more sustainable world through their phones.

Thank You For Listening!

