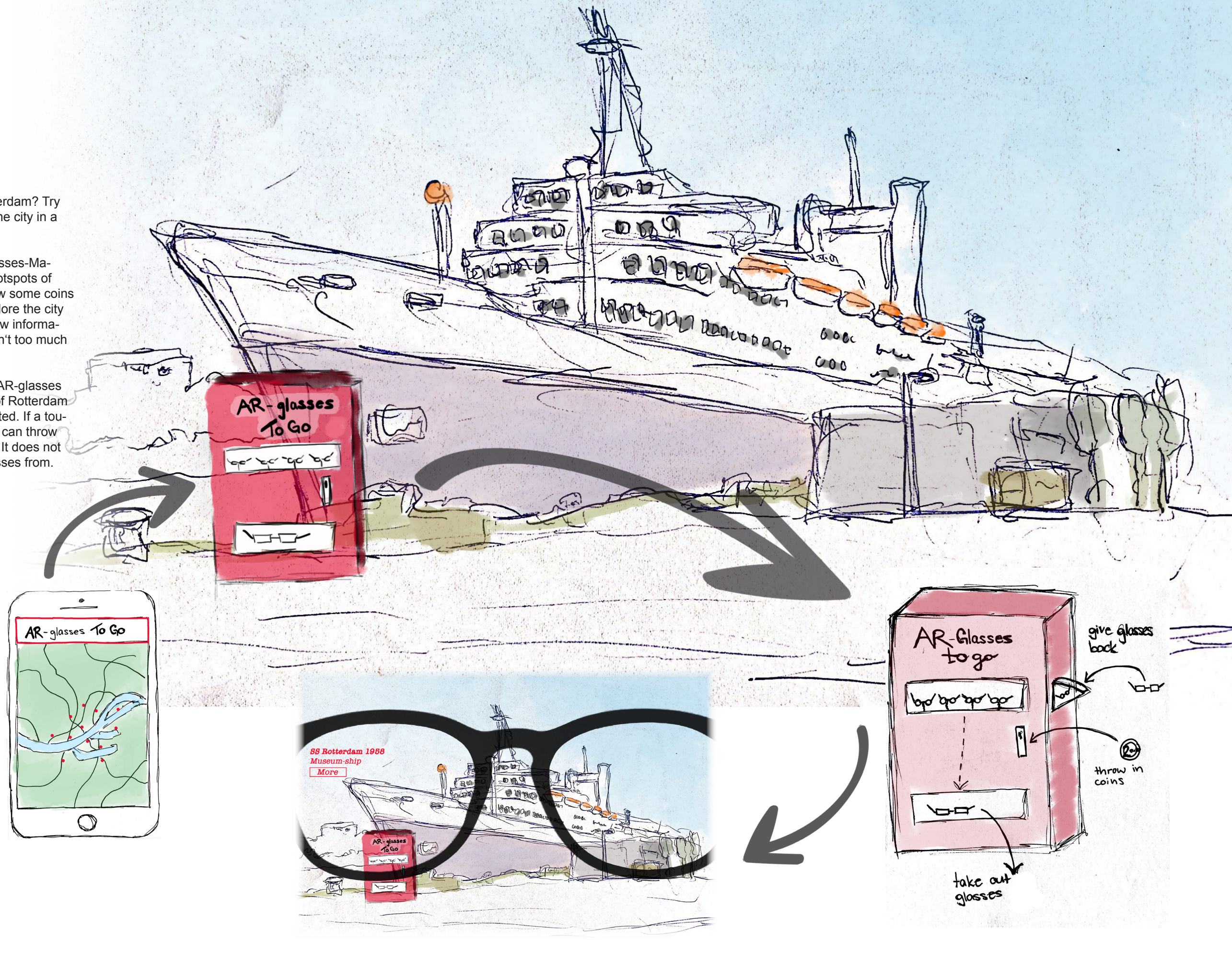


AR-glasses *to go*

Do you want to get to know the city of Rotterdam? Try out the AR-Glasses to go and experience the city in a new exciting and informative way!

My idea for the city of Rotterdam is AR-Glasses-Machines, which would be distributed at the hotspots of Rotterdam. Tourists and residents can throw some coins in the machine to get AR-Glasses and explore the city in a different way. The glasses will only show informations about tourist features, so that there isn't too much information showed on the glasses.

To find the machines, people can use the „AR-glasses to go“ - App. This App displays a city map of Rotterdam with marks of where the machines are located. If a tourist is done with the special sightseeing, he can throw the glasses back into one of the machines. It does not have to be the same one as he got the glasses from.



Nicole Toth

Rotterdam - The smart city

Over the last few years Rotterdam has been working hard to become a sustainable, resilient and livable city. One of the biggest issues in Rotterdam is the water. Due to climate change and heavy rain, the city is often flooded and is literally about to drown. New ideas must be generated.

Innovation: The self-supporting „islands“ in Maashaven

The city needs new living areas on the water. The first floating quarter with floating homes, schools, coworking spaces, gardens and coffés will be located in Maashaven, a port connecting a wealthy coast area with a poorer one in the south. Each floating „island“ is resting on pillars during normal water level and floats like a ships hull when the water level is high. Each „island“ consists of a building, which is equipped with solar panels, windmills and a small garden to grow its own fruits and vegetables.

Mobility: Public transport in the air.

Building floating living areas is not enough. Also the public transport needs to be reinvented and shifted into the air. The city needs air train tracks to ease growing traffic congestion, reduce pollution and most of all assure mobility at any time, especially when the city is flood. The cutting-edge technology of air trains comprises high-rise tracks (with built in solar panels) and „hanging trains“ which feature all-electric motorized (by using its solar energy) suspended trains which will “cruise” among Rotterdam’s skyscrapers.

Information: The Augmented Reality App.

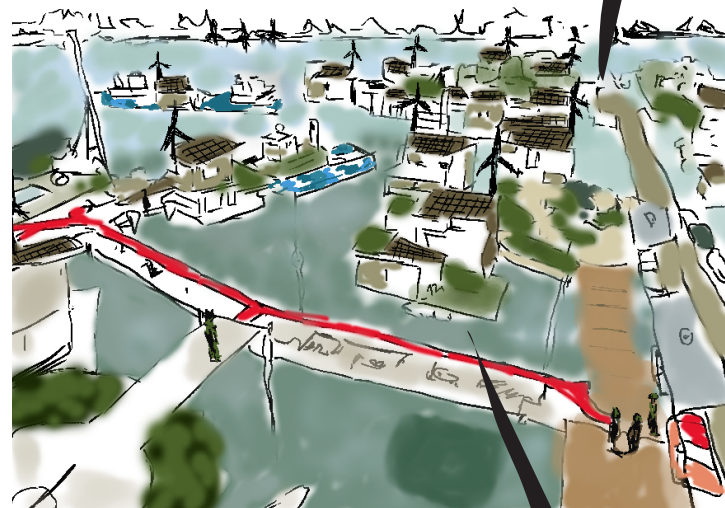
Rotterdam’s project’s must be spread. Awareness of what is going on in the city and what kind of projects have been and will be realised, should be raised among the residents and also visitors. Therefore a visual and more attractive communication is needed. With the new RotterdamSmartCity AR App each project will be explained virtually on a mobile device. A map of where to find them, will be provided within the App.



New floating quarter
Between „poor“ and „rich“ - Let's connect!



MAASHAVEN



Floating quarter with self-supporting „islands“ in Maashaven

Floating „island“

Normal water level: resting on pillars

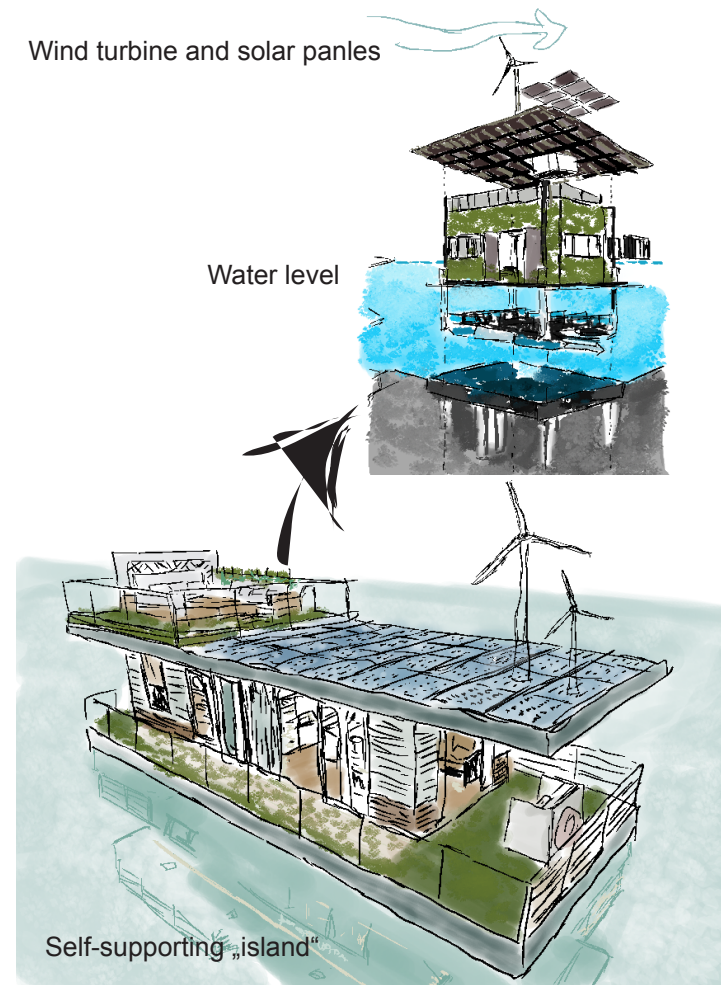


High water level: floating like a ships hull

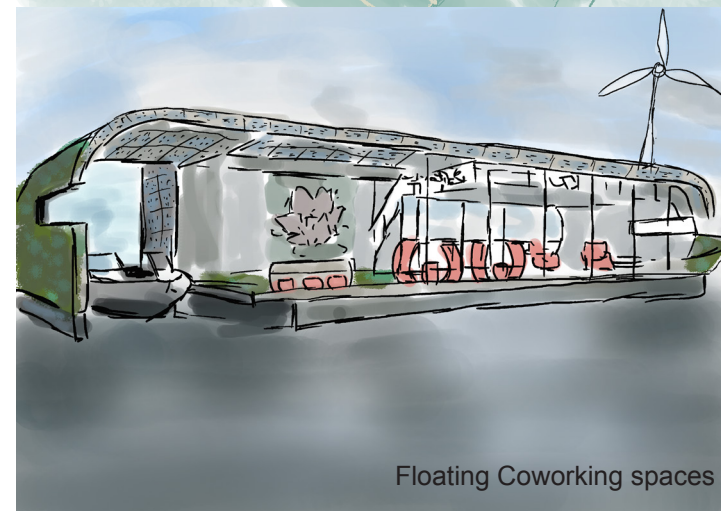


Wind turbine and solar panles

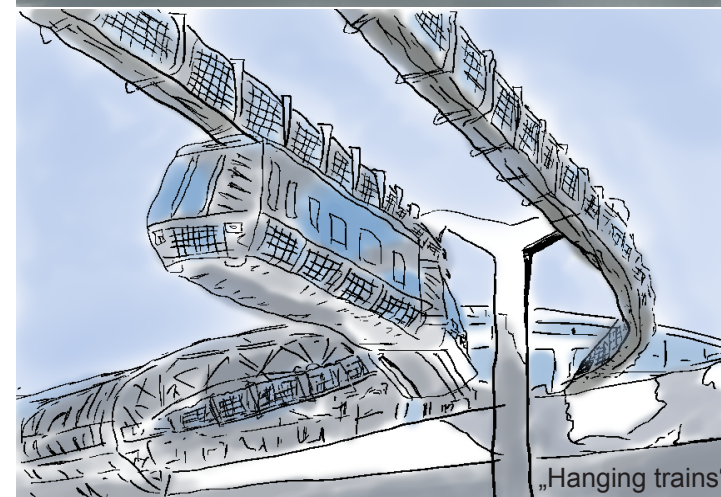
Water level



Self-supporting „island“

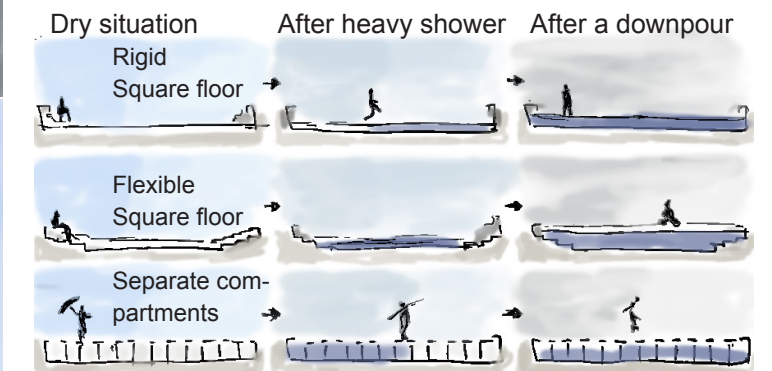
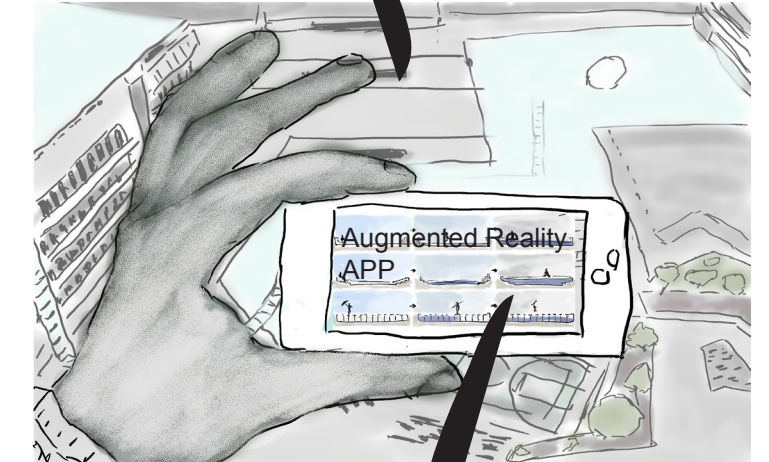
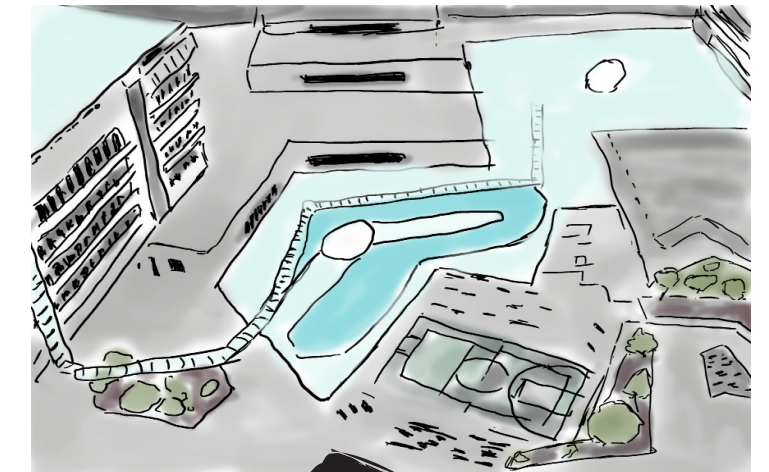


Floating Coworking spaces



„Hanging trains“

Water square Benthemplein



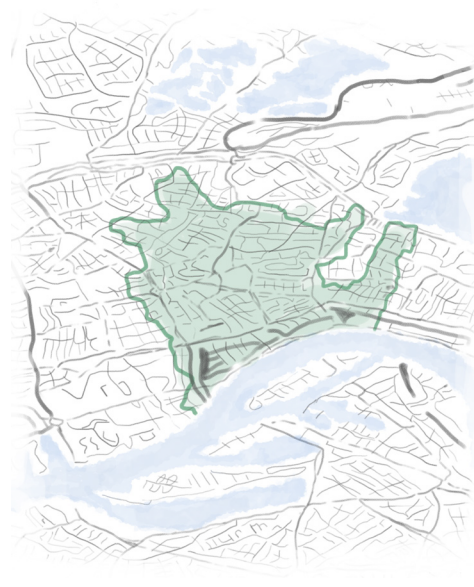
App: Explaining how the watersquare works with Augmented Reality

Nostalgia

For a time you have never known

Historic Rotterdam was full of life until the German Air Force leveled it to the ground. 80 percent of the historic old town went up in flames.

In my time in Rotterdam, I noticed that there are almost no old buildings. It is very modern and I missed the history of the city After World War II a modern town was built up from scratch. But it became a city in which it's history is no longer visible. My idea is to make an application that uses the power of augmented reality and takes you back into the year of 1940. It puts locals as well as tourists in the middle of Rotterdam before World War II. Rotterdam can be viewed in lifelike 3D before the destruction from World War II. Using your phone as an augmented reality viewfinder. You can check out how the buildings and atmosphere looked like back then and learn about the history of Rotterdam.



The green area was completely destroyed.



The app works quite simply, if you are interested in a building or an environment and you want to see what it looked like before the World War II. Open the app, hold camera on it and it will be displayed in 3D in the original state of 1940.



It shows the view from the bridge at the Oostmolenwerf before World War II and how it looks like today.

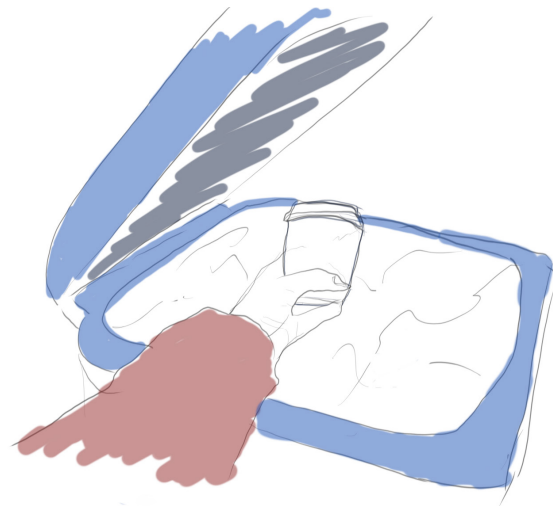
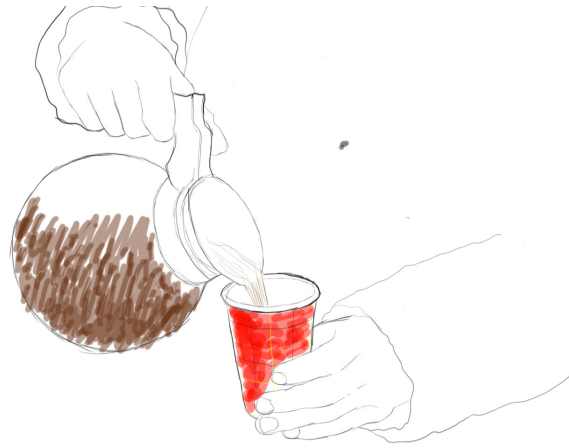


Zero Waste Cup

Every year, more than 25 billion paper cups are used. That's over 10 million trees cut down and 400 million pounds of garbage produced. Most paper cups are used for drinking a coffee to go. Even in our school, everyone drinks his coffee in a paper cup and throws it away after 10 minutes.

We all know that this is not sustainable, but no one is bringing his own cup. We are either too lazy or we just forget it. Imagine if coffee was served in a reusable cup throughout the whole city. It doesn't matter where you get the coffee, everyone uses the same cups and you can bring it back wherever you want. There would be a deposit of 5€ for the cup and you can either bring it back or keep it forever :)

That way there was no need for paper cups anymore and we would produce way less garbage.



choose to reuse!

over 10 million trees are cut
down every year to produce
paper cups alone...

My idea is ...

to create a living space that promotes a strong community and focuses on sharing instead of owning. As Rotterdam's population is growing, the question rises where everyone should go. In order to be mindful of our space around us, we have to start moving closer together.

Within younger people it is common to move out to a shared living space - that is where we gain our first experiences when it comes to a household. Why not take all the generations together and build big shared houses, where people can connect and share not only deep connections but costs and amenities? Every person or family in this house rents a basic room with a bedroom, bathroom and minimalistic kitchen - this room will be used privately. Distributed around the big house, the residents will find spacious, cozy, inspiring spaces like a kitchen, a library, a workspace, a cultural space (e.g. with concerts/parties) and a gym/swimming pool... All costs can be shared and can be kept cheap, as there is a lot of residents.

As inspiration how this house could look, I thought of the „Witte Huis“ as it is a skyscraper but still looks like a habitable, welcoming building. Just make it the

WITTE HUIS 2.0



I ENJOY THE SPIRIT OF YOUNGER PEOPLE AND SHARING MY PASSION FOR LITERATURE.

Mark, 67



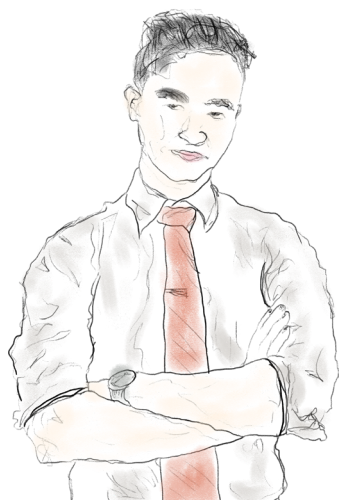
IN A BIG KITCHEN I CAN SHARE MY CULTURAL BACKGROUND THROUGH THE THING THAT EVERYONE LOVES THE MOST: FOOD MADE WITH LOVE

Shadia, 47



MY OFFICE IS JUST A TWO MINUTE WALK AWAY AND IT'S COZY & INSPIRING.

Thijs, 26

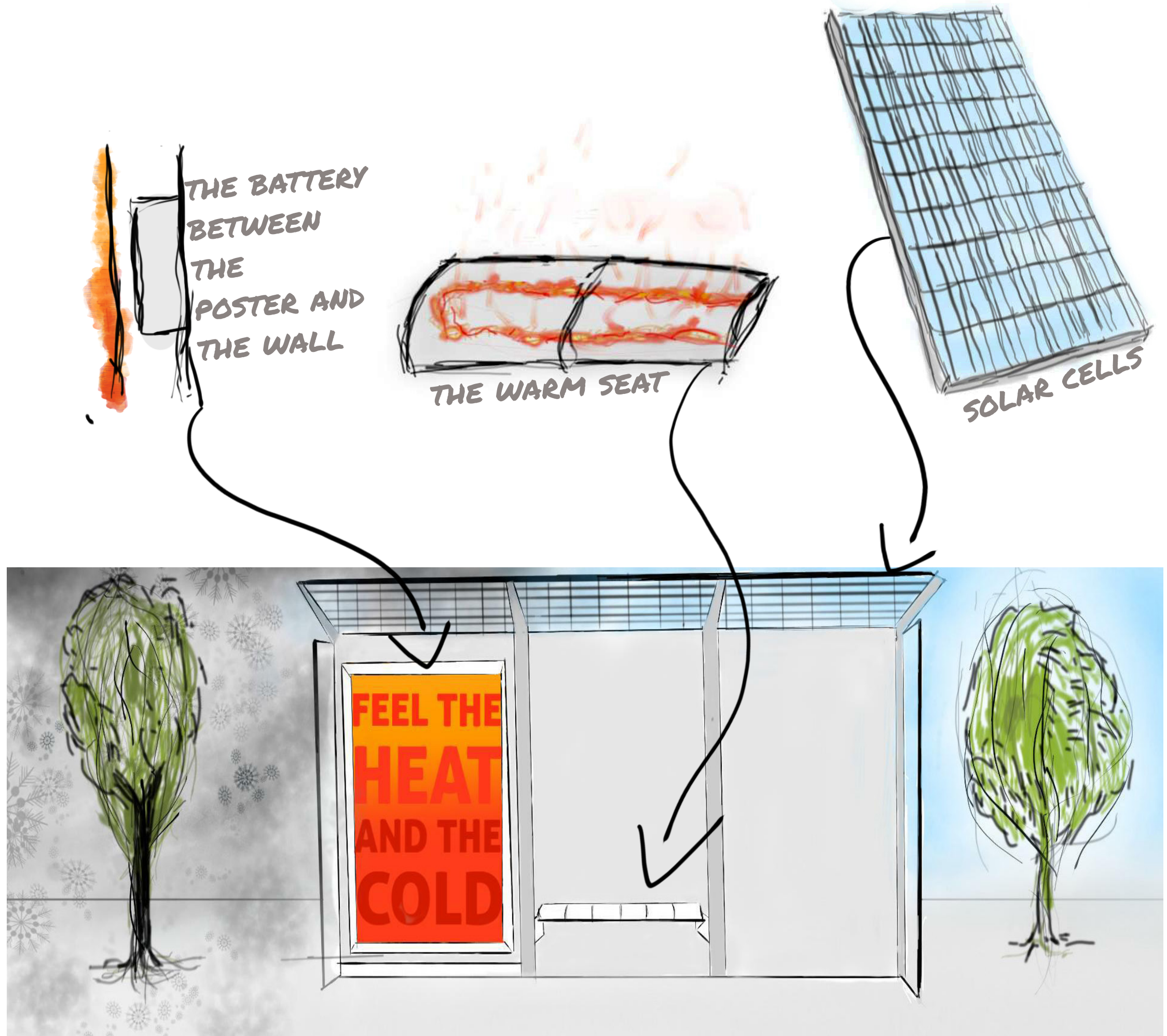


The cosy BUS STATION

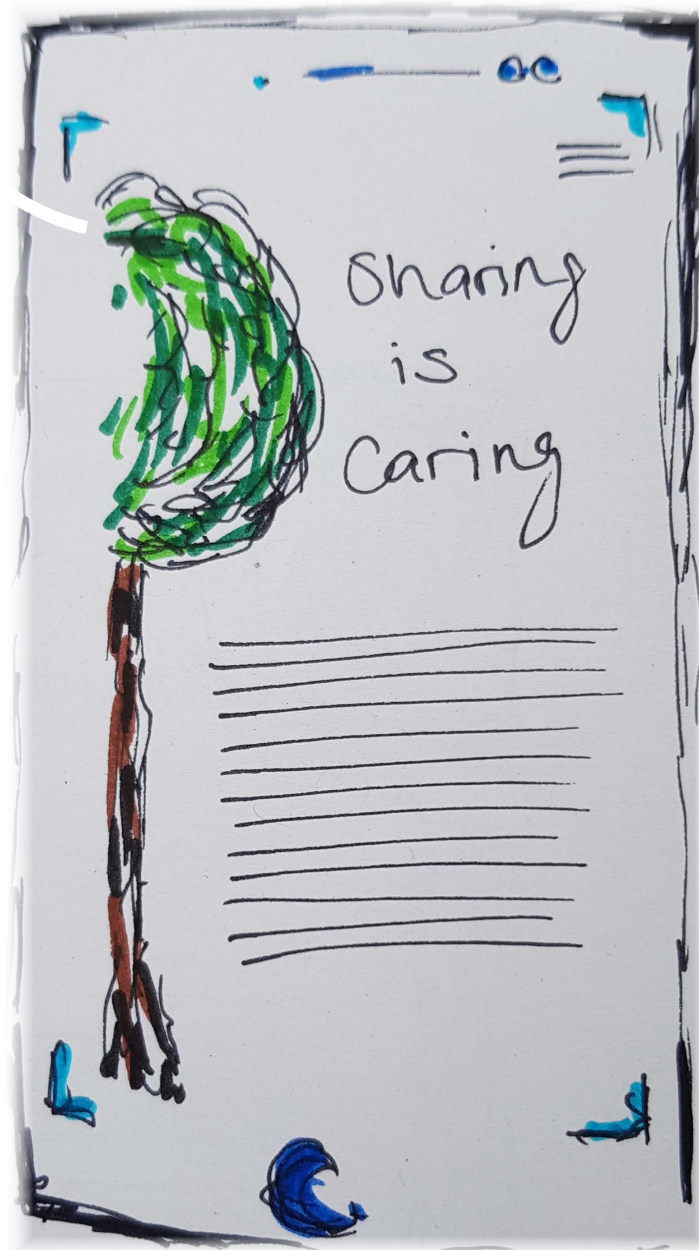
Have you ever felt too cold while you were waiting for the bus? Yes? Then you will like my idea.

Freezing cold, windy and rainy, that's often the weather in the city of Rotterdam. Instead of taking the own comfortable car you can wait at the cosy and warm bus station. It includes a seat which heats up by itself. That means when the sun is shining the solar cells save the energy of the sun in the battery between the poster and the wall of the bus station. The seat has integrated sensors. As soon as you sit down on the bench it will automatically warm up. When you leave the seat it will turn off by itself.

While waiting for the bus the people start to communicate with each other. So that promotes the interaction of the population in Rotterdam.



Sharing is Caring



My idea is...

... to create an app, with which the work in the urban gardens can be shared and organised. In the larger cities it's hard to find a place to do gardening. That's why there are gardens from „Sharing is Caring“. spread all over the city. If you like gardening, but you don't have an own garden or a place, where you can execute your hobby, you can go on the „Sharing is Caring“-app. On there, you see, where all the gardens in the city are and when there are free slots, in which noone is looking after the garden. Also on the app you see what is planted and which beds are free to plant something. If a veggie or a fruit is ready to pick, you can also see this on your app. You as well can go to pick the veggies or fruit, no matter if you planted it or not. The whole point of „Sharing is Caring“ is, to



My Idea is „The Flower Power Bus“

How can we educate children about herbs and flowers in a simple and practical way?

Starting off

How often do I have to water a sunflower? Should I put tomatoes in the sunlight or in the shadow? Or simply said: How do I not kill a plant?

These are questions I ask myself - and I'm an adult. It would have been nicer to know about these things from an early age on. Not only for the knowledge but also for the environment. I think we should teach kids how to take care of plants, because the future lays in their hands. That's why I came up with the idea of the „Flower Power Bus“. All you need for that is a recycled Bus.

How it works

The Buses stand on school grounds. Inside the buses, students can attend workshops to learn about plant care.

On the roof of the bus there are flowerbeds. With those, the students can immediately put into practice what they have learned.

About the flowerbeds

Rotterdam is windy. Therefore, it is important to protect the plants from excessive wind. This protection is ensured by windshields made of wood.

Even for heavy rain, there is a solution: With a wooden board you can tilt the flower bed so that the water can drain off and flow through a pipe. With this water you can water the plants again, when it is time.

