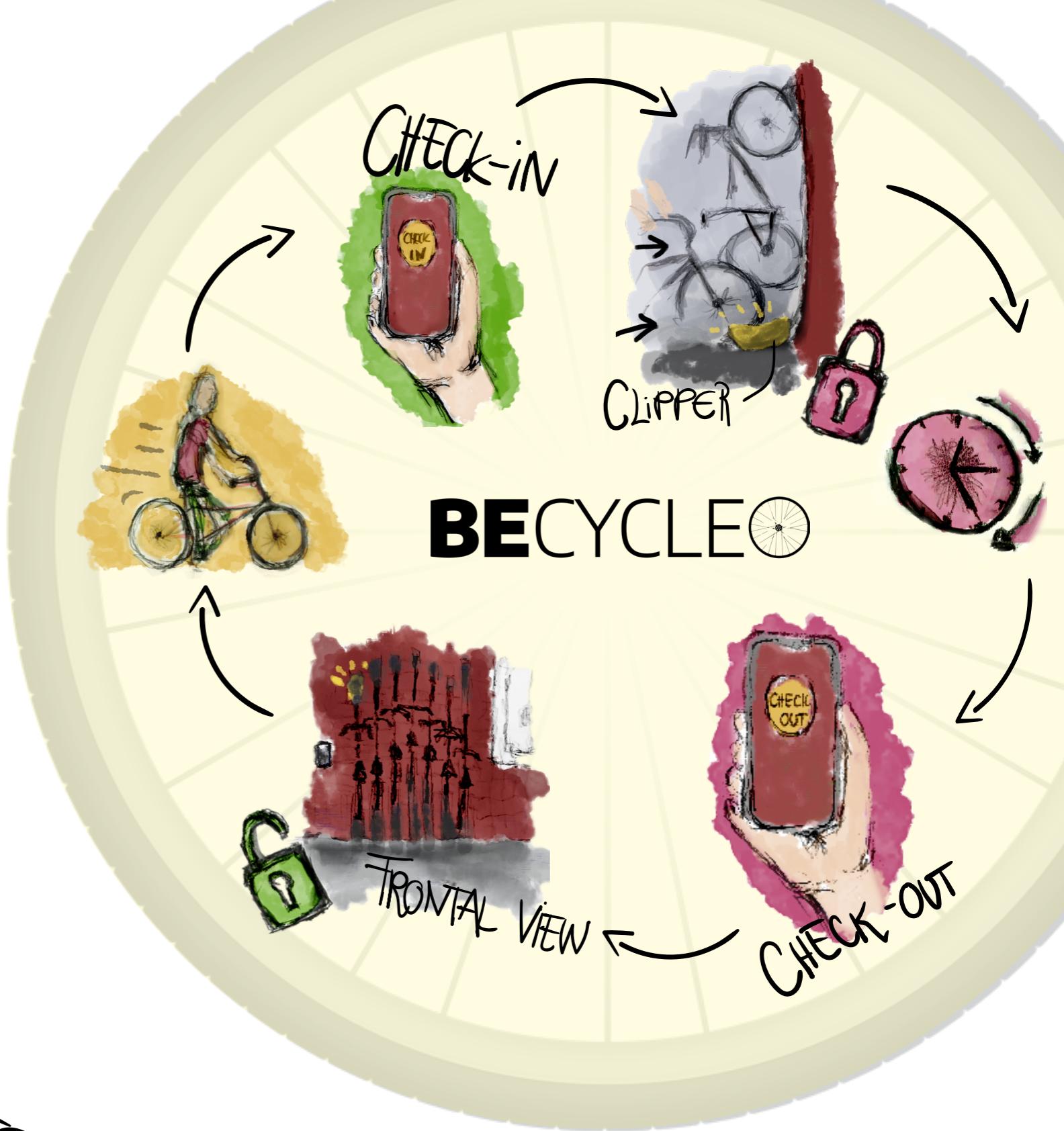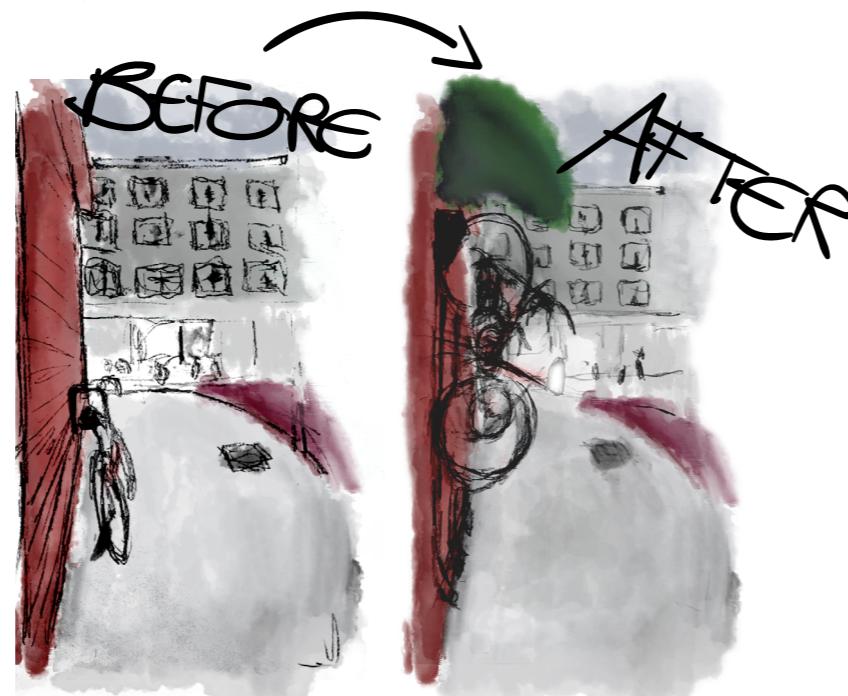Delia Schafer

## My idea is ...

..to have better bicycle-storage in Rotterdam. Nowadays the bicycles are all laying around in the city and sometimes they even hinder pedestrians or worse, the emergency services.

There are a number of factors involved in solving this problem. The vehicles need to be located in a secure and weatherproof environment, which should also be in a central, practical place.

While searching for useful places for the project I stumbled upon some empty, bale walls, which would be the best venue for this project.

My idea is to build a rail system, which allows the bicyclist to clip his bike in. Storing your bike is only possible if you're checked in through the BECYCLE-App. As soon as the system receives the check-in information, a clamp will appear and a light will go on. The customer can now clip his bike in and the system will then hang up the bicycle against the wall under a canopy. The canopy protects the bikes against bad weather.

The "check-out" works pretty much the same way as the "check-in". As soon as the the request to get your bike back takes place in the app, the light above the rail will go on and the bicycle will be delivered to the end of the rail. The bicyclist will just have to clip it out and can ride away.



BEFORE AFTER



CHECK-IN

CLIPPER

**BE**CYCLE

FRONTAL VIEW

CHECK-OUT



MMP StudyWeek 2019 Rotterdam 6.-10.5.2019
SKETCHCITY
Project
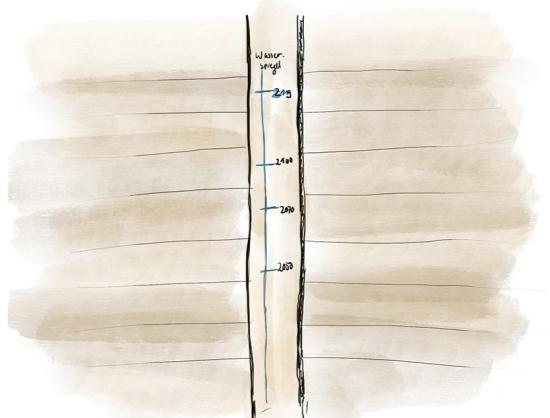
Hannah Scharnagl

# PROJECT IVY

While in summer many of Rotterdam's streets and alleys are lined with green trees, in winter they shed their leaves and everything is left grey. So new evergreen vegetation is needed.
I want to combine the idea of revegetating the city with raising awareness for another serious issue: the rising sea level.
Rotterdam will be directly affected by this problem. We don't know how yet, but it is quite possible the city will need different solutions for building houses.

I want to build several small treehouses in different central locations in Rotterdam. With solar panels peeping of the treetops they will be self sustaining. They can be rented with an app as a small coworking space or meeting room for small groups of people.
The interior will hold several information stations that inform about different issues concerning the problem like e.g. a scale that illustrates how high the water level will be in 50, 100, or 200 years if nothing is done against it.
The exterior walls will be vegetated with evergreen plants like ivy so that they provide green oases in winter.

Idea by Ananda Schmidt

# Thank God we have Luchtsingel!

**No more missed calls from your boyfriend or late food deliverys - Thank you charging station Luchtsingel!**

Since Rotterdam is looking for new sustainable energy sources, I thought why not use the most powerfull enery source in this world?

I noticed that the Luchtsingel bridge is a very frequented spot in the middle of Rotterdam. E-bikes meet pedestrians and they have one thing incomen - They need electricity to work. Bikes need it to get started and humans need it for all electronic devices.

Just around the corner at the Park Pompenburg I spoted a food curier meeting area where all food delivery guys wait for their next delivery order which they transport by E-bike. So why not charge their bikes benief the circle of the Luchtsingel bridge while waiting?
Also can the citizens charge their electronic devices at the charching station. No worries, their belongings won't be stolen, they will be locked in recycled lockers made out of old containers which only can be opended with a personal pin.

How to generate so much energy for a whole city? Easy, use the sun. With solarpanels placed in the circle of the bridge the energy will be stored and direcly used. Should there be a slow day and there is lots of enery left, then this energy could be donatet to schools or other public institutes. No sunny days in Rotterdam? Thats also not a problem, the solarpanels should work like batteries and storage all the generated energy.
With my idea bordem is turned into usefull energy. Citizens can for a coffe near by while their phones are being charged.

Thanks to you sun, there won't be any missed calls anymore and hungry bellys will be filled fast than before.
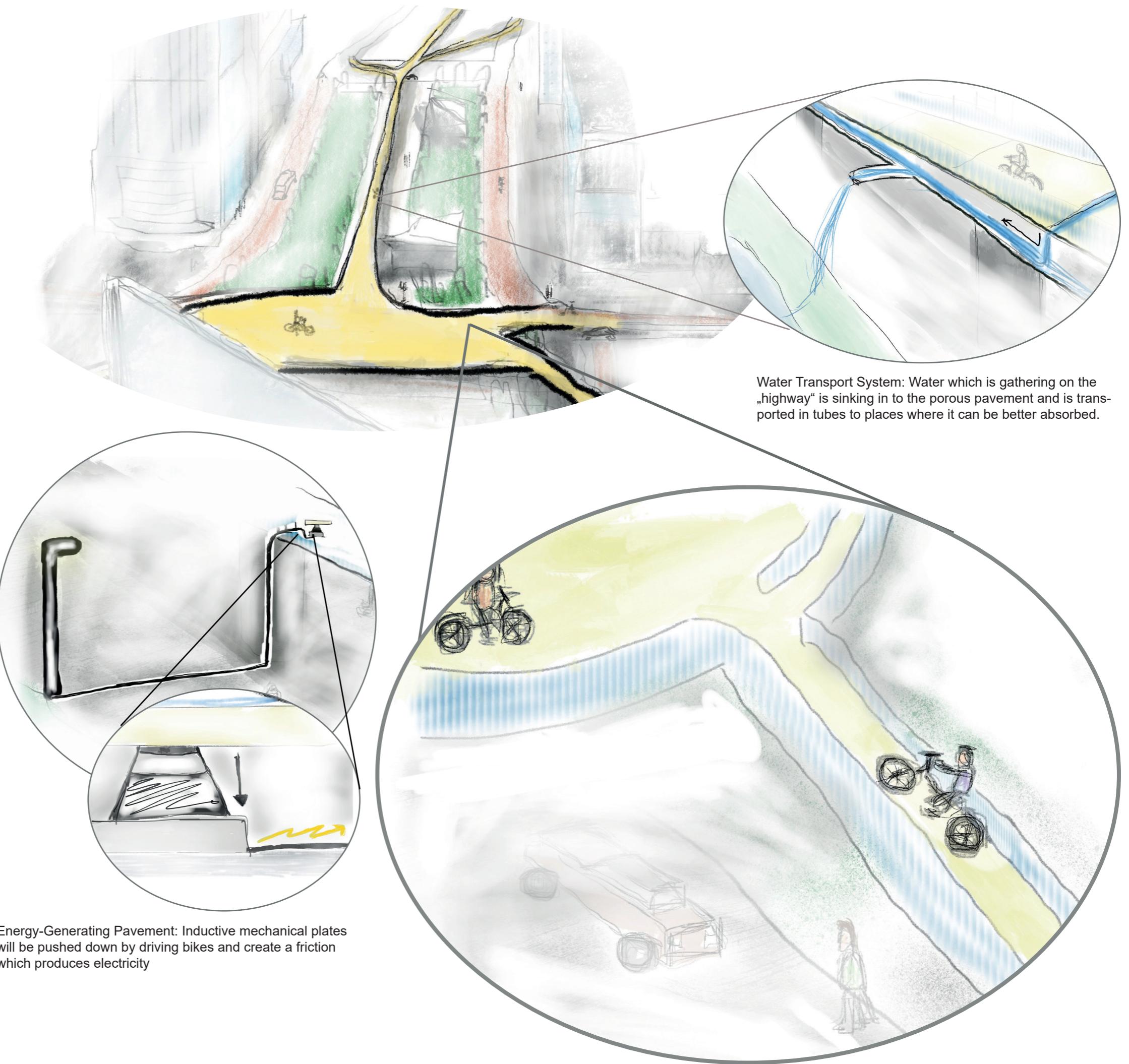
I HATE MY JOB

Solar panels

Battery

LOCKERS

Konstantin Schmidt

# Bicycles OFF Streets

Bicycles are the main mode of transport in Rotterdam. That's the reason why they do not belong on the streets.

To move by bicycle is the smart way to get around in Rotterdam and thousands of inhabitants and tourists use it. The city already has an enormous amount of bicycle lines, but they are next to roads and pathways, so bicyclists must get along with car traffic and pedestrians. That can be stressful and dangerous for all road users. Especially on important streets like "Westersingel" and other central streets are several tricky crossings and dangerous street parts where bicyclists must drive next to cars on a narrow street. Driving by bike should be rewarded with a "highway" for bikes only. "Bikes OFF Streets" is all about that. Elevated bike lines in the city centre make traffic safer for everyone. At the same time bicyclists get even faster from A to B without bothering about pedestrians or cars.

Certainly, everything as eco-friendly as possible. The "highway" uses new technology and is equipped with Energy-Generating Pavement, which produces electricity that is used to power streetlamps and other things. The pavement is also porous and lets rainwater sink below the surface where it is gathered and will be transported to parts of the city where it can be better absorbed by the ground.

So, lets be clever and get the bikes OFF the streets.



Water Transport System: Water which is gathering on the „highway" is sinking in to the porous pavement and is transported in tubes to places where it can be better absorbed.



Energy-Generating Pavement: Inductive mechanical plates will be pushed down by driving bikes and create a friction which produces electricity
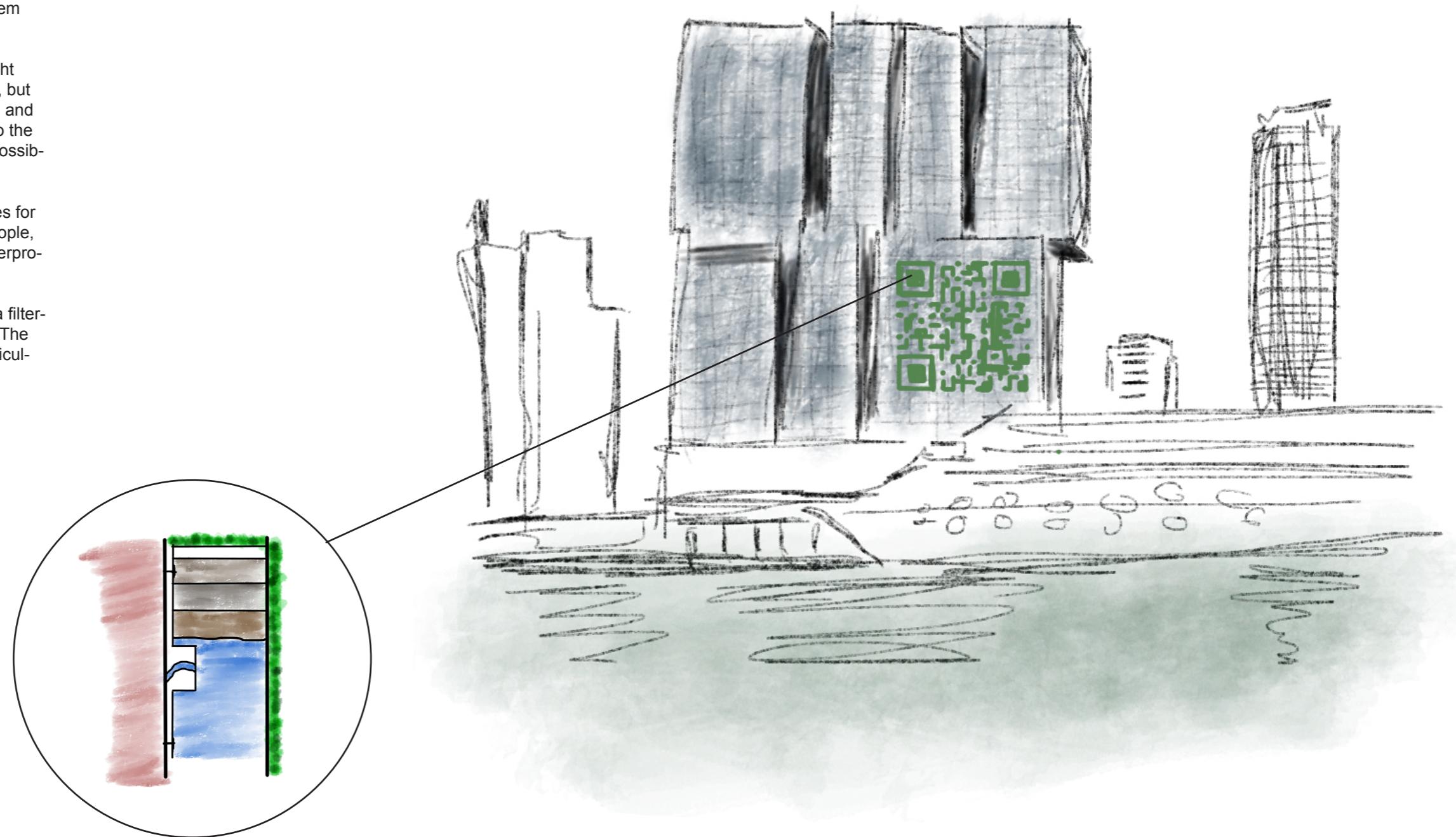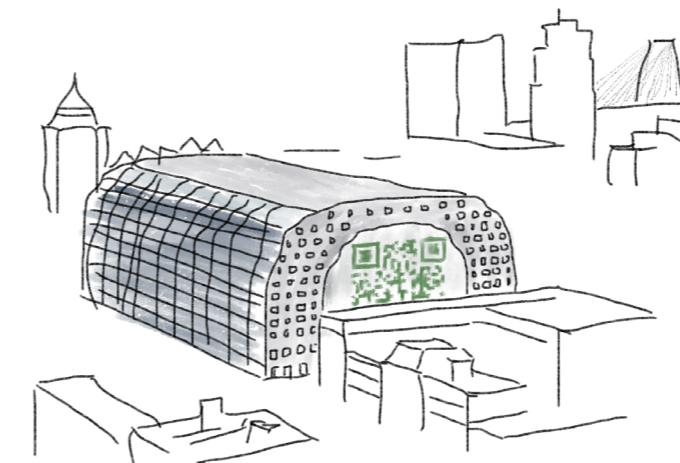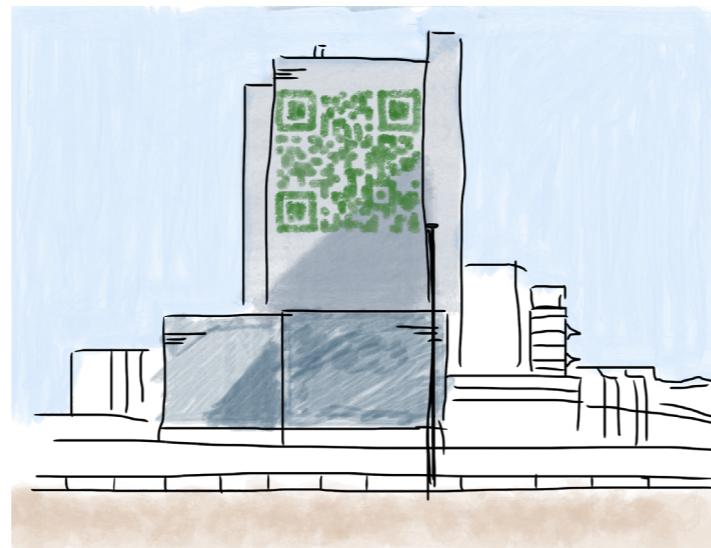
Nicola Spescha

# QR for the City

Five years ago I was sitting in school making my maturity in direction design. We had to do a project, where we put art in public places. At this time, QR- Codes were not as present as they were later on. However, i then had the idea to use QR- Codes not only as informative things, they can be some kind of art also.

That's how my idea for Sketchcity came up. I want to put QR- Codes on big buildings and empty faces of buildings. First, i thought about different Streetartists to design them but this wasn't what i wantet to achieve.

So I went back to the city, it was a rainy day, and thought about the problems, Rotterdam has. I realy like the city, but especially when its raining, everything looks pretty cold and sad. So i want to bring some colour, especialy green, to the city and let the inhabitants feel a bit better. And that's possible, if you put huge QR- Codes made out of moss.

They should, on one side, look good and bring brightnes for the whole city, on the other side, they should inform people, as soon as they scan the code, about Rotterdam's waterproblems and difficult situation.

As an extra, a rainwater tank is also implementet with a filtersystem between the wall of the building and the moss. The water which is collectet there, then can be used for agriculture near the building or to flush toilets for example.

# Ashtrays for a

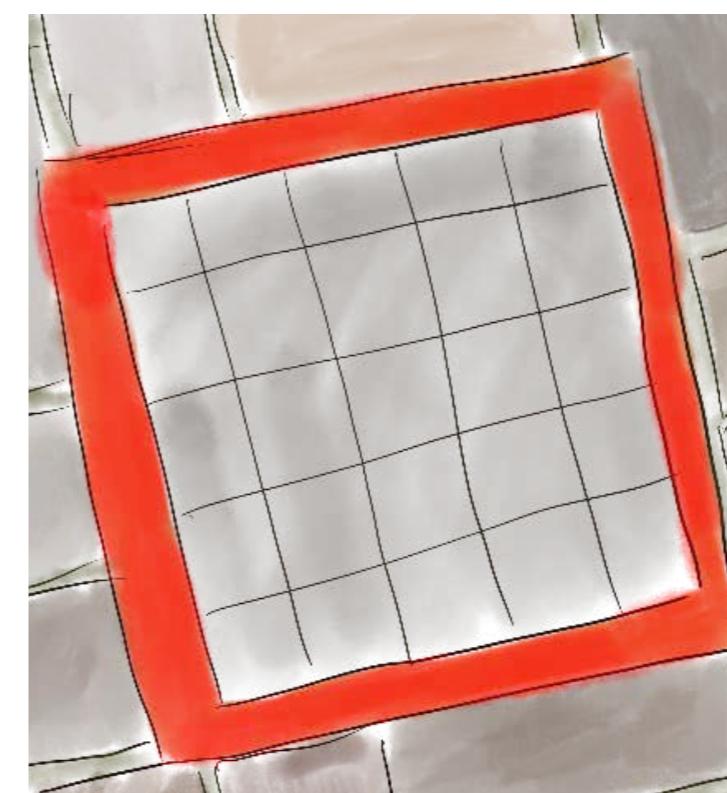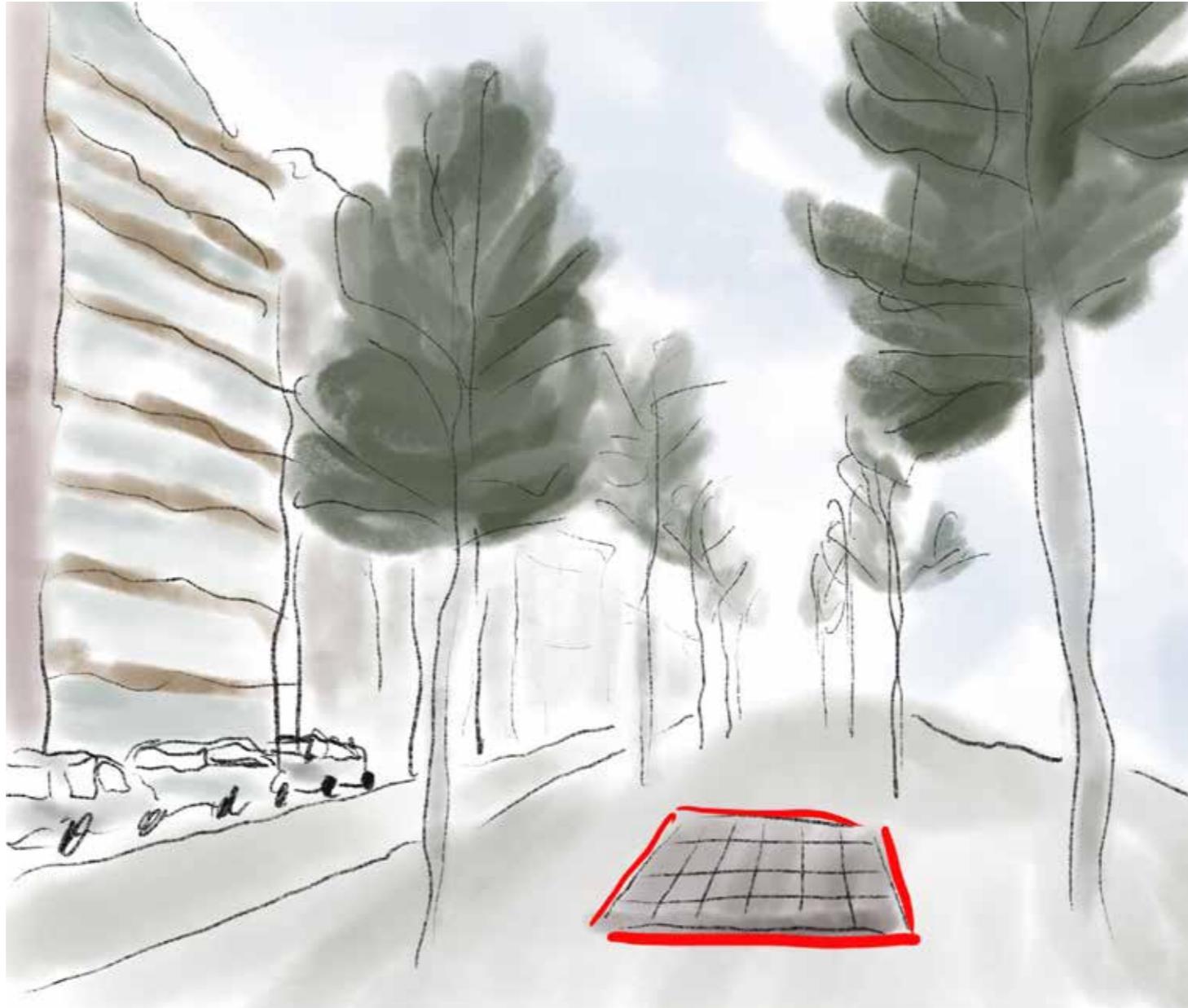# better world

*Demian Spescha*

On our planet there are 1.1 billion smokers. The cigarettes are often threw on the floor. Mostly because there are no ashtrays when you need. This is a problem that we are not that aware of as we maybe should.

Rotterdam has it's ashtrays in the ground. A very nice idea. I never saw this before. But there is still a problem. The ashtrays are very small and it's difficult to throw cigarettes in it because the grid ist too small. So there are a lot of cigarettes around.

I think Rotterdam could be a role model for other big cities. But the idea has to be better.

My idea is to improve these ashtrays and bring the idea to other cities around the world. The ashtrays have to be bigger than these in Rotterdam. Also the grid is bigger that you better can throw cigarettes. You can recognize the ashtrays because of the red lights around it. There is also an underground system where the cigarettes are collected and taken away by the street cleaner to the waste collection point of the city.

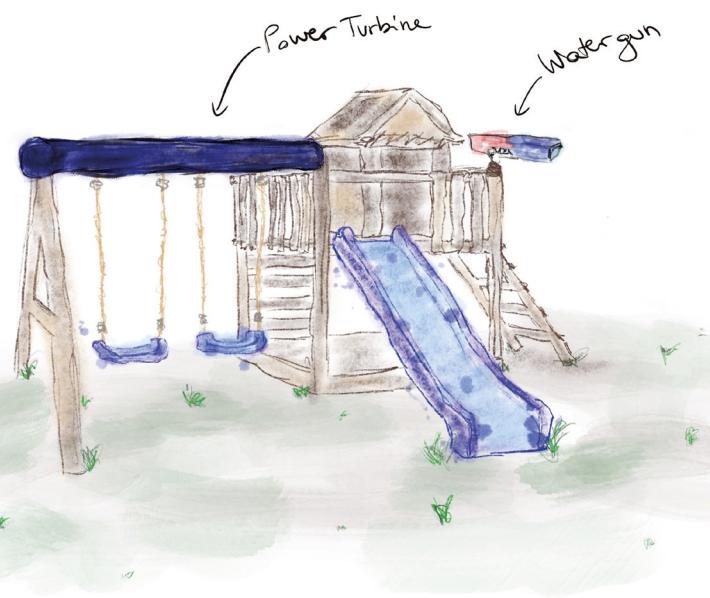This idea should help the world to be a cleaner and better place.

# My Idea is ...

**How can we teach the future generation being more sustainable when handling with the given resources, in a city like Rotterdam?**

My project is about improving children's behavior towards nature. If we want a future, where society knows how to deal with the given resources in an efficient way, we have to start from the beginning. That means to form a certain attitude among the children. We have to teach them, how to interact with nature.
That this realization can take place, I thought to create new Kindergartens all over Rotterdam. Kindergartens 2.0 have improved infrastructure and surroundings.

There will be ivy on the top and side of the walls, to add some greens and plants.
There will be moss on the rooftop all around and beside the solar panels.This will provide to store water.
There will be a vegetable patch and a flower patch to add green and enable the better penetration of water during the heavy rains into the ground.

There will be solar panels on the rooftop. When the sun is out, they will produce electricity. In the cold season, when the sun won't be out all day, the children will create by themselves the missing part of electricity. This will happen all the time the children go out to play.

The first way they can produce energy is with a sophisticated swing.
Just swinging on it, will boost the power turbine on the top and generate the needed electricity.
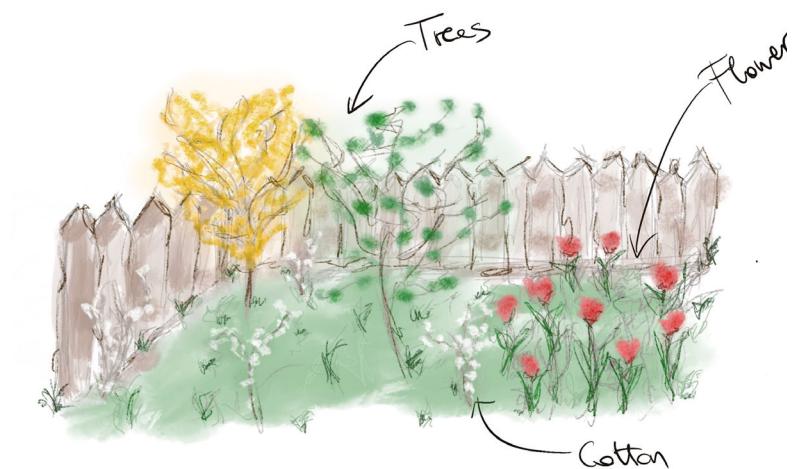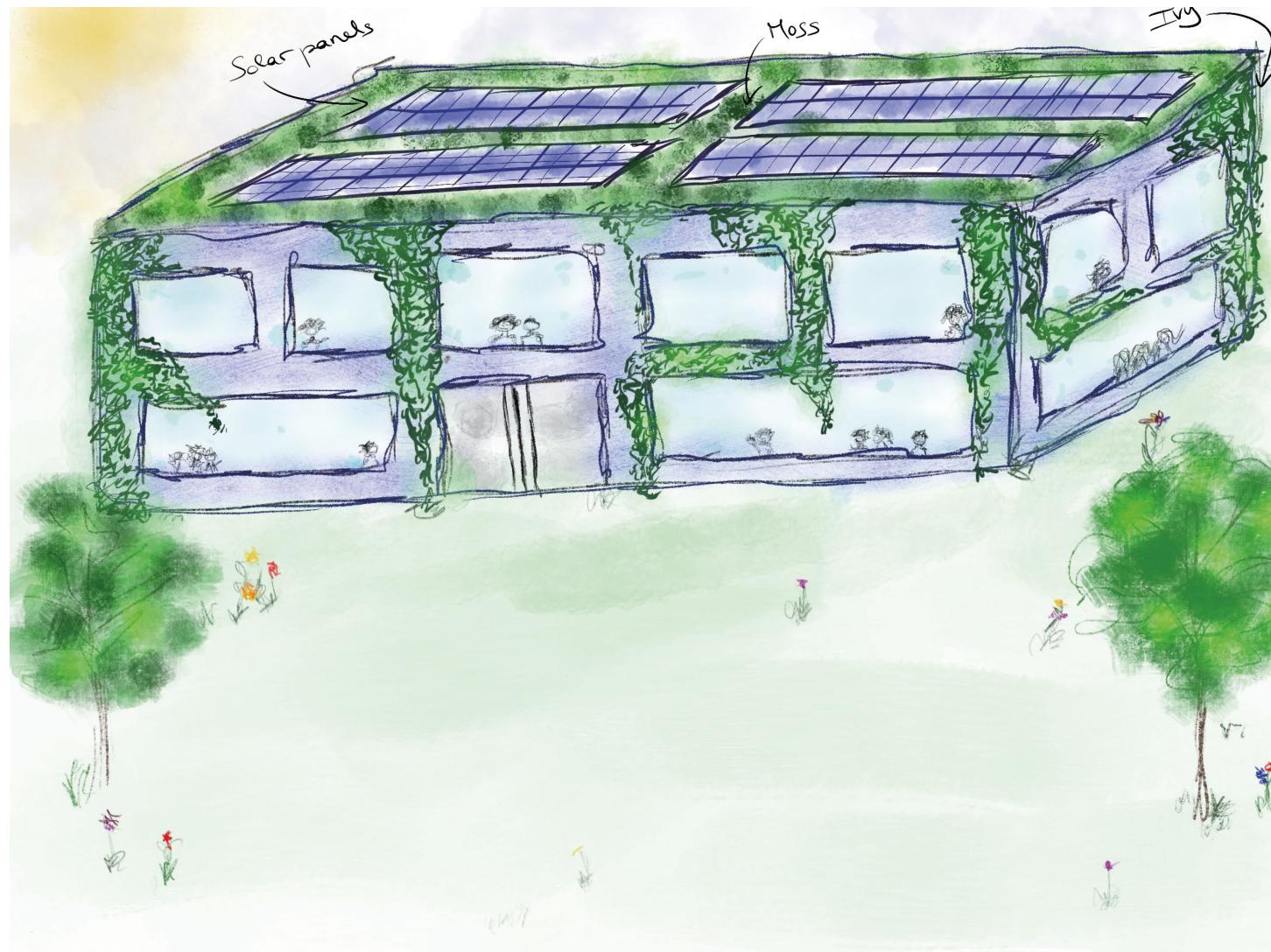The second way could be with water games. All around the playground, there will be many storages for water.
The water is collected when the rain falls in tubes standing vertically. The rain will generate a flood inside the tubes that will be transformed in electricity and the water will be repumped up and be used to pour the plants, vegetation and garden.

Everything will be combined with fun, pleasure and learnings. The repumped water from the ground will be flooded through the water guns and used for pouring and playing.

The games on the playground will all be created out of old and recycled woods and objects. This teaches to be resilient and always reuse the things that we have and not throw them away.

My aim is to implement this project looking forward to everybody's future. In the stage of childhood, it is important to form, teach and direct the children in the right way. The only right way is SUSTAINABILITY.

*Nature is our precious good, take care of it!*

*Life is a wave, catch (sketch) it!*

*Angelina Lara Sigrist*