BIKE PARKING PROJECT 2013

liro RISTOLA, Laura SCHWARTZBERG, Anni KUNNAS, Iris DEVAIS

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CYCLING IN KIVISTO

T BITE FOR A BETTER LIFE

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THE SUMMARY

THE BRIEF

Introduction.

THE CHALLENGE

The project aim.

OUR DESIGN SOLUTION

A bike for a better life.

THE CONCEPT

Context & urban connections.

PROJECT DEVELOPMENT

Sketches, mock-ups, 3D, logo.

FUTURE DEVELOPMENT

Signage, routes, budget.

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THE Brief

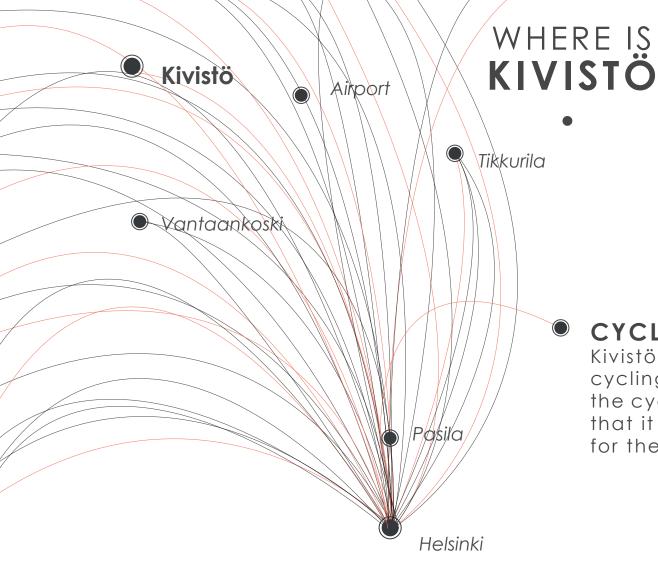
As we all know it is very hard to find a nice and **safe bike parking** place when needed.

The same problem exists in communal bike storage. That is why more than **50%** of bike owners do not feel it is safe and practical to ride bikes in their **everyday lives**.

What are cyclists needs for a parking area and are they willing to pay for a safer bike parking ?







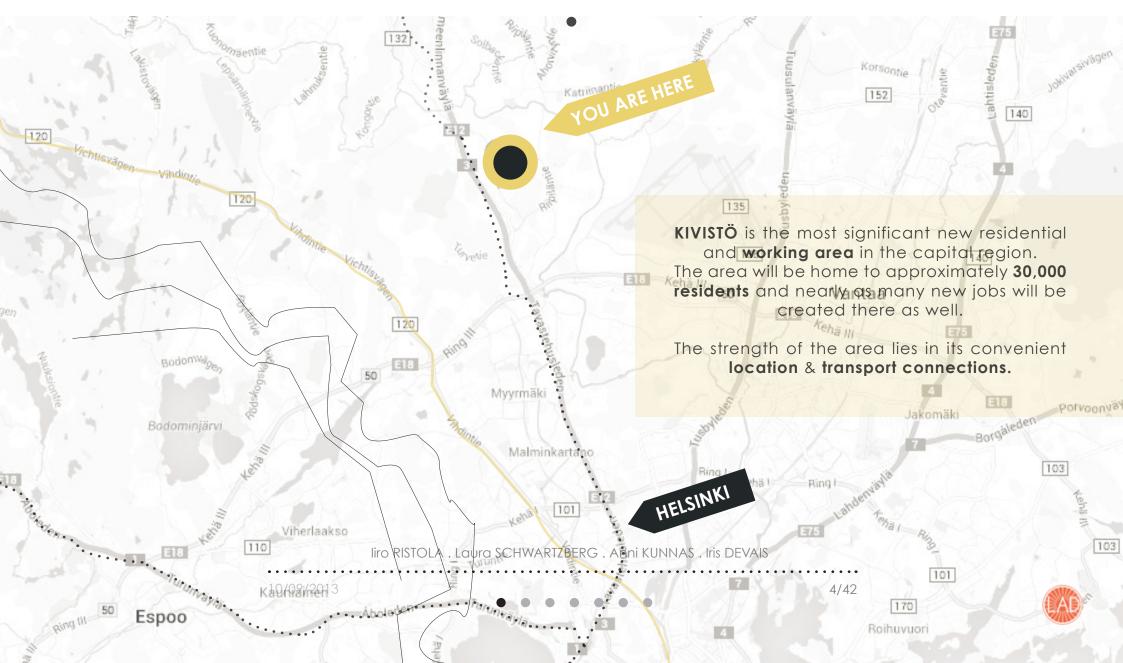


Kivistö is planned and will be executed as a cycling neighbourhood. The aim is to make the cycling conditions so attractive and safe that it becomes the most convenient option for the best part of the journeys.





CONTEXT & CITY SCALE



KIVISTÖ - VANTAA HOUSING FAIR 2015

THE THEME OF THE FAIR IS A SAFE & SMOOTH EVERYDAY LIFE



COLORS

Every building is intended to represent its form and singularity through its individual colour.

ART

Art must be a part of all the architectural and environmental design.

NATURE

Kivistö-housing fair area is sourrounded by nature due to its location in the middle of four parks.

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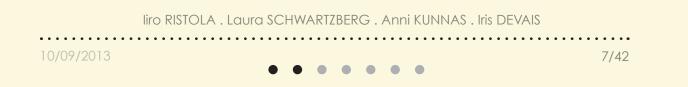


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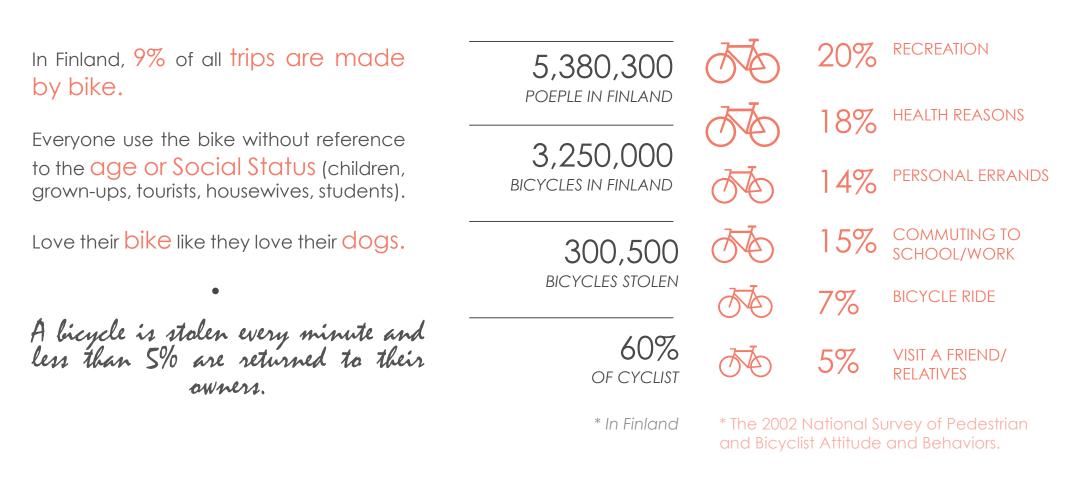
THE DESIGN CHALLENGE

How to make bicycle parking more **convenient**, **safe**, **intelligent** and **attractive** for people to use in a cycling neighbourhood?





ANALYSIS OF THE CHALLENGE









UNDERSTANDING THE USERS IN THE STREET



The jogger



The cyclist



The skateboarder



The dogwalker



The shoppers



The tourists



The mother & kids



The food breakers



The students



The workers



The disabled people



The picnic people

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BIKE PARKS & RACKS **OBSERVATION**



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EXISTING STREET ENVIRONMENT

9 QUALITY CRITERIA FOR THE CYCLIST LANDSCAPE.

PROTECTION



Protection from traffic + accidents. Wide sidewalks. Vegetation delimitation



COMFORT

OPPORTUNITIES

Opportunities to walk. Wide sidewalks No corners for accessibility: « design for all »



Lighting See everything even it's dark. LED lights

DELIGHT



Protection from crime + violence. Camera / guards Strong locker system



Opportunities to stand & stay. « Living space »



Art & exhibition Artistic sculpture Develop the design innovation.



Protection from unpleasant sensory experience. Shelter / roof. Lockers



Opportunities to sit & talk. Seats / chairs Table



Colours Love of life Dynamism Easy to see & locate



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BIKE PARKS & RACKS

During this cycling tour, we have noticed that there was **no organization** in the city.

Indeed, the bikes are **dropped off** anywhere onto the **sign-posts** or in **improvised** parkings.

There is a need to have **reserved parks bikes** for cyclists in **strategic spots** and to create colourful **landmarks** near the parking bike, easy to find for people.

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OUR DESIGN

Create an **architectural structure** and concept that respects the values of Kivistö area neighborhood.

The bike parking spots are **green areas** with functionnal bike racks and they will be situated in strategic spots nearby public **transportation**.

Our goal is that people use their **bike** for a better **life!**





BIKE PARKING

Observations & possibilities

POSSIBILITIES

PROBLEMS

LACK OF SPACE NEXT TO THE STOPS.

BIKES ARE NOT ALLOWED TO TRANSPORT IN BUS AND TRAMS.

BIKES ARE ONLY **ALLOWED TO TRANSPORT IN SUBWAY AND TRAIN**, BUT ONLY A FEW RACKS PER VEHICLE.

THERE IS USUALLY AN **INSIDE BICYCLE GARAGE** IN THE APARTMENT BUILDINGS, BUT THERE MIGHT BE **LACK OF OUTSIDE PARKING SPACE** DURING THE MOST POPULAR CYCLING SEASON. NEAR BY THE **PUBLIC TRANPORTATIONS** (PEOPLE LIKE TO COMBINE PUBLIC TRANSPORTATION AND CYCLING)

> NEED OF EASILY **MOVABLE** PARKING SYSTEM

NEAR BY THE **EVENT AREAS** (SUCH AS FESTIVALS, CITY EVENTS, EXCHIBITIONS ETC.)

YARDS OF THE **RESIDENTIAL AREAS** AND SERVICES

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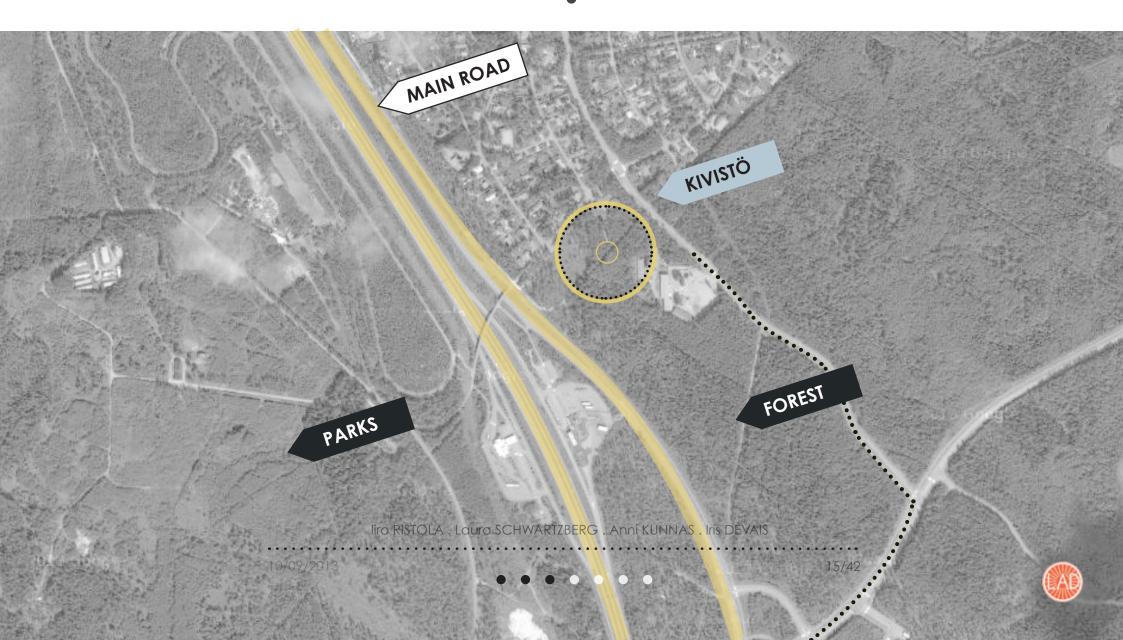
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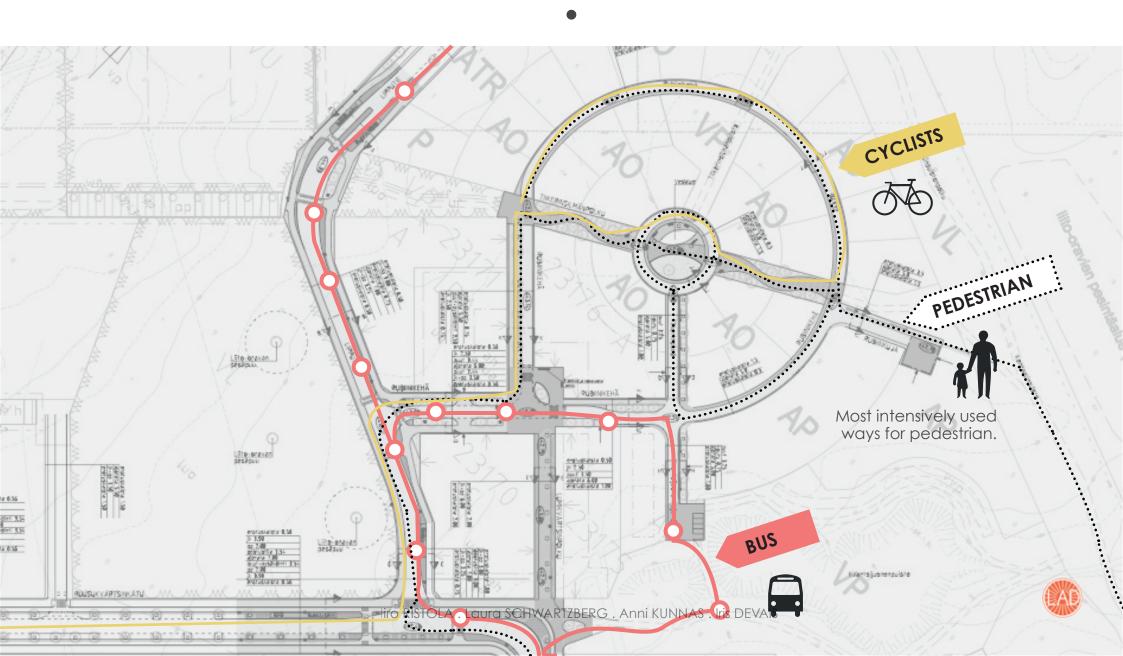












THE CONCEPT



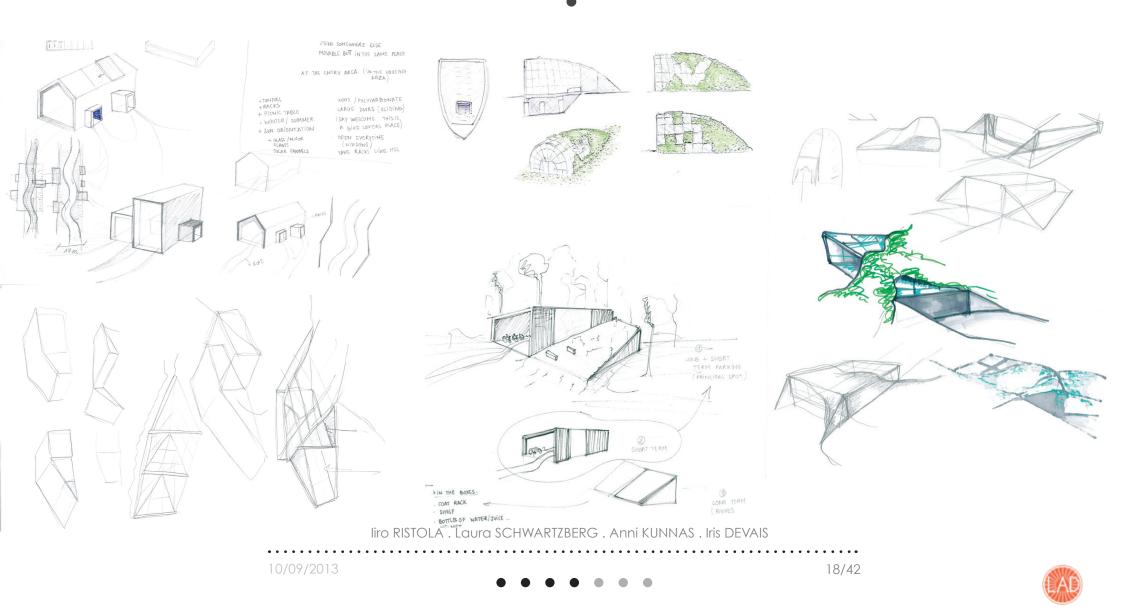
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THE CONCEPT DRAWINGS & IDEAS



AN AREA FOR **A BETTER LIFE**

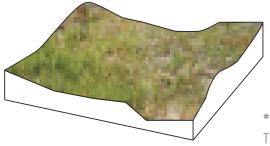


SHORT TERM BOX

Main door can be operated with travel card.

LONG TERM BOX

The deposit boxes can be operated with the travel card.



***FEW OPTIONS**

The structure can be scaled. Only long-term parking, short-term parking or both options.





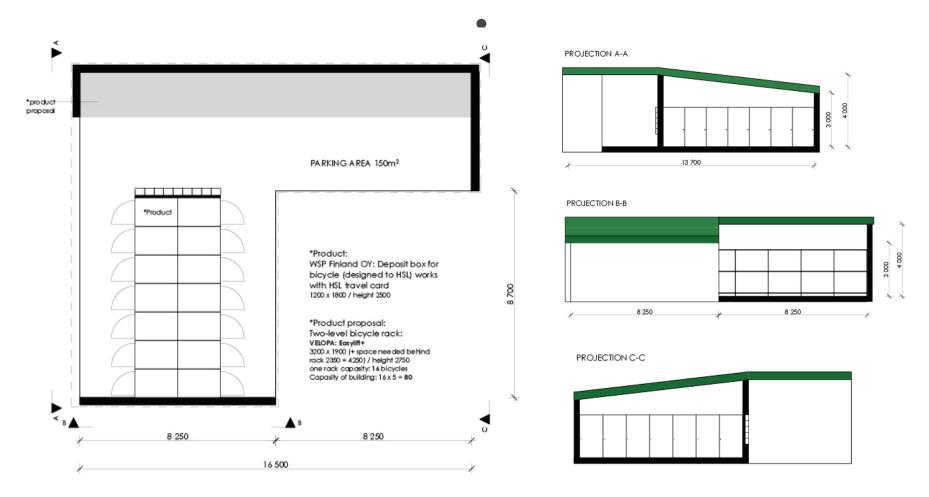
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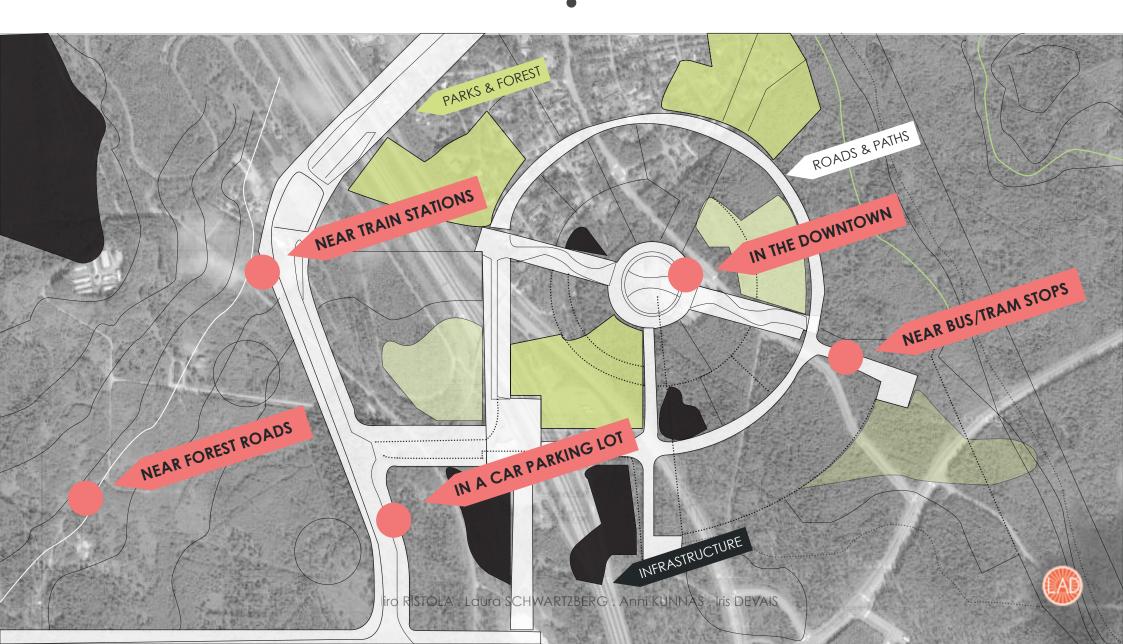
THE PRINCIPAL **STRUCTURE**

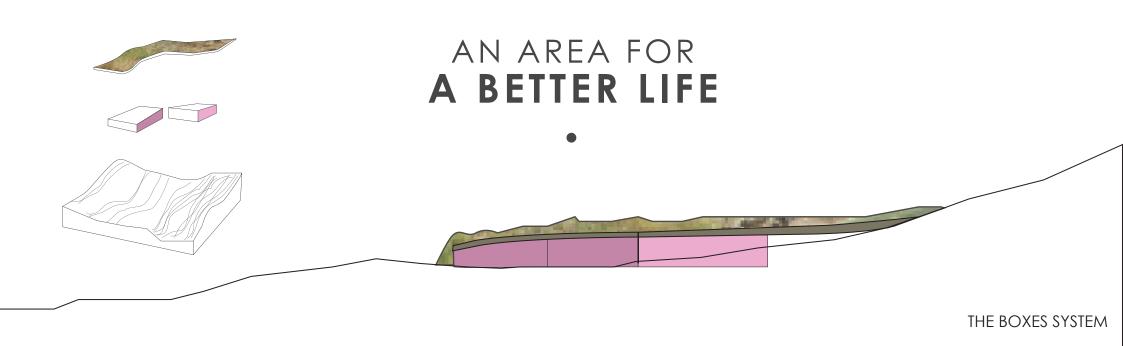


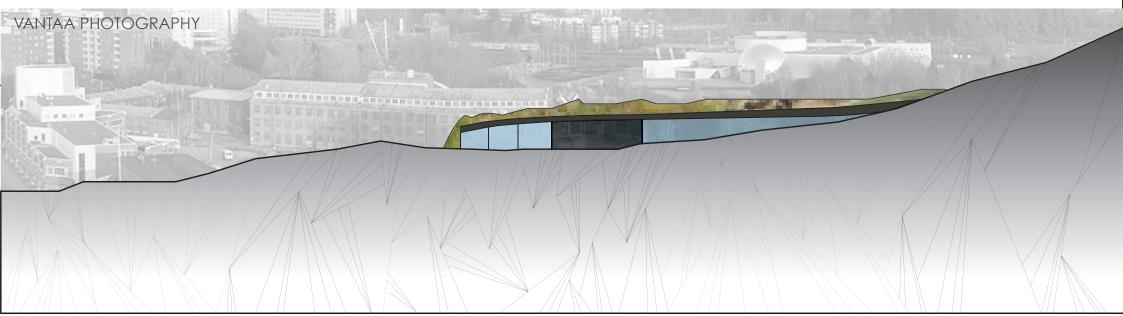




THE IMPLENTATION OF THE PROJECT







LONGITUDINAL SECTION



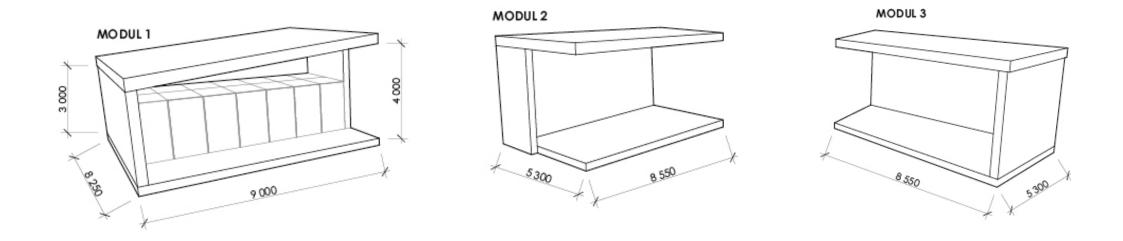
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AN AREA FOR **A BETTER LIFE**



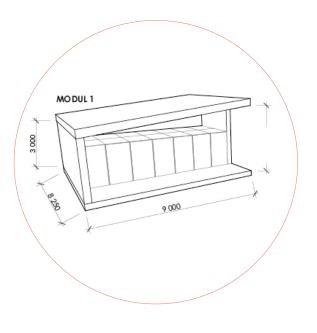
INTERIOR PERSPECTIVE

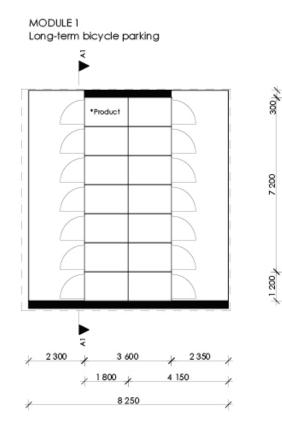




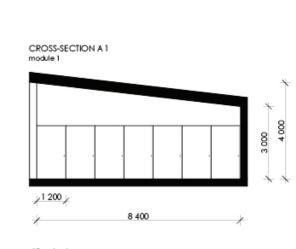








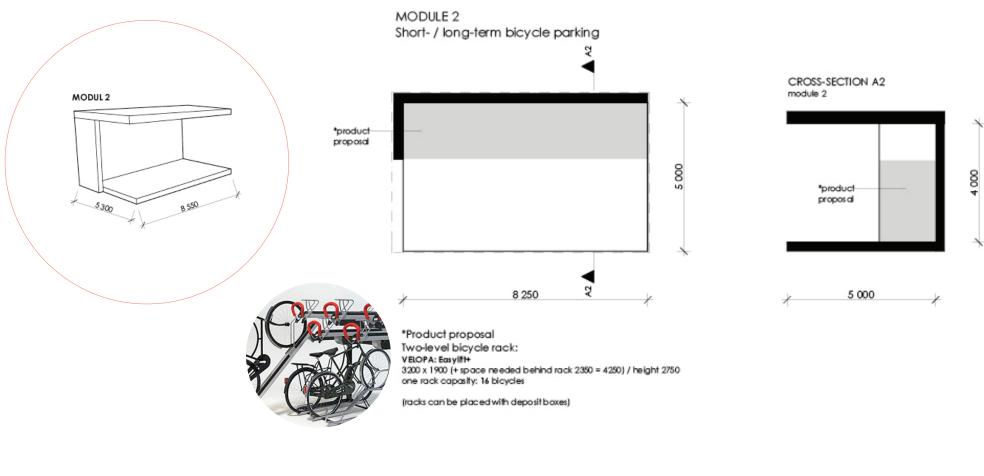
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*Product WSP Finland OY: Deposit box for bicycle (designed to HSL) works with HSL travel card 1200x 1800 / height 2500



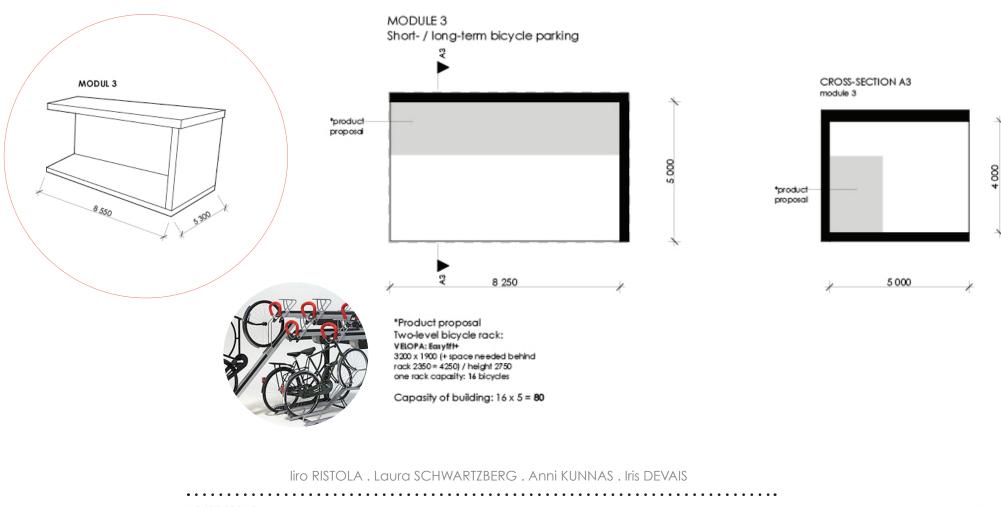




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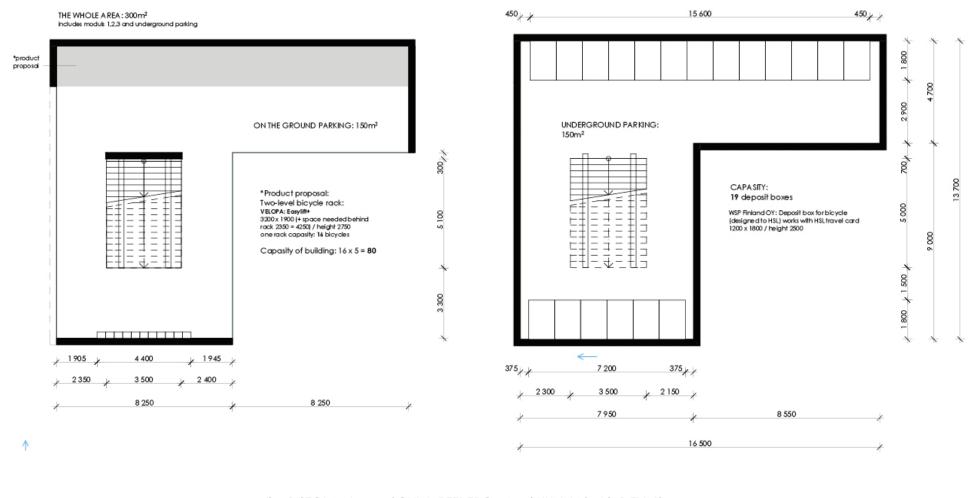
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IN THE EXISTING ARCHITECTURE



UNDERGROUND & ON THE GROUND **POSSIBILITIES**



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BIKE PARKING AREA







POSSIBLITIES OF THE CONCEPT

INCREASE SAFETY: APPROPRIATE LIGHTING, FUNCTIONAL LOCKING SYSTEM, CENTRAL LOCATION

> LOGO SO IT'S EASY TO RECOGNIZE.

SITUATED WHERE EVER YOU WANT - CAN BE SCALED A CONVERTIBLE OPTION TO THE PLACES WHERE MOSTLY NEEDED:

NEAR TRAIN STATIONS, SERVICES, EVENT AREAS, RESIDENTIAL AREAS ETC.

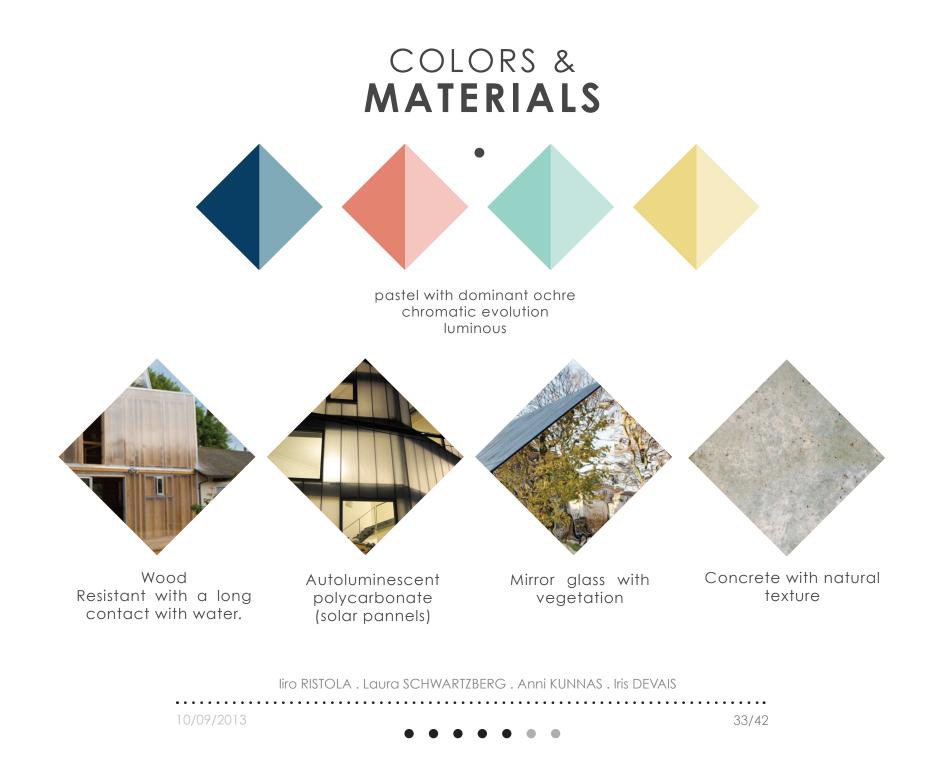
EASY TO USE IN WINTER TIME AS IT PROTECTS BICYCLES FROM SNOW AND RAIN. POSSIBLE TO EQUIP WITH A REGULAR BIKE RACKS OR SINGLE BIKE DEPOSIT BOXES OR BOTH OF THEM.

MAP AND PUBLIC TRANSPORTATION SCHEDULE SCREENS AS A EXTRA SERVICE.

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PLANTS & SEASONS



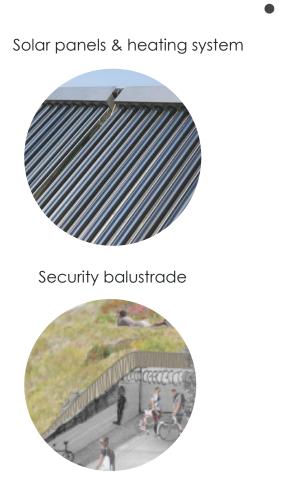
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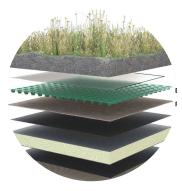
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TECHNICAL **DETAILS**







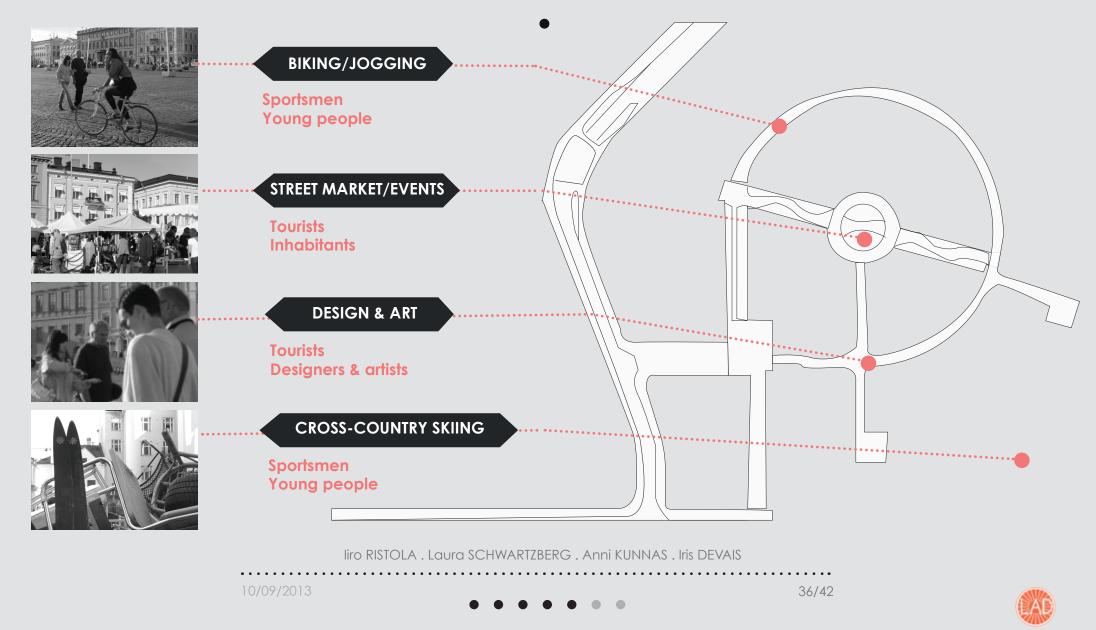
LED light system



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POTENTIAL **ACTIVITIES**



THE GRAPHIC LOGO DESIGN



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THE GRAPHIC LOGO DESIGN



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THE BUDGET ESTIMATION

RUSKEA WOOD



6,55 € per square meter

GREEN ROOF



200 € per square meter





THANK YOU FOR YOUR ATTENTION!

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FINAL TIME TABLE

WEEK 38

Draw the shape of the structure. Decision of the materials and colors. Make sketches & perspectives of our parking bike.

WEEK 39

Determine precisely the shape of the parking Understand the green roof use and systems. Photomontages of the structure and 3D mock-up.

WEEK 40

3D mock-up and layouts. Photomontages & illustration of the daytime (winter, spring...)

WEEK 41

Finalization of the project & lay-out of the presentation.

Creation of a A0 poster.

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BIBLIOGRAPHY & REFERENCES

IMAGES

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RESEARCH

http://vantaainnovation.fi/en/welcome-to-vantaa/ http://www.greenroofs.org http://www.green-roof.be/fr/accueil/

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