





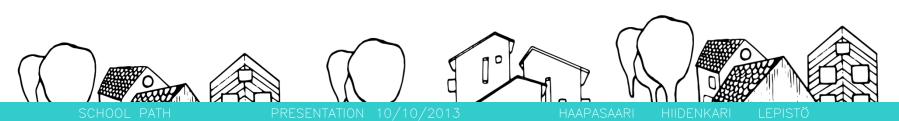
WORKGROUP

JENNY HAAPASAARI PEPPI HIIDENKARI SONJA LEPISTÖ

industrial design

industrial design

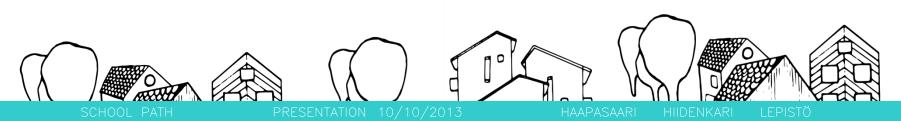
interior design





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part I SCHOOL PATH CONCEPT

- concept introduction
- 2 need for a school path?
 - themes

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- goals
- 5 community & social aspect
- 6 target group





DEMAND

NEED FOR A SCHOOL PATH DESIGN?

The base for this project was to study what had been done about the school path topic previously. In **Koulupolkumanuaali** and **Draamatyöpaja muotoilijoiden käytössä Marja-Vantaan koulupolulla** we found a checklist and elements for a safe school path. Also we learned about children's fears and hopes for a schoolpath.

City planning can acknowldge these fears and hopes and find solutions for them.





SCHOOL PATH

CONCEPT

School path is a service designed for primary schools in Kivistö which guarantees a safe and comfortable way to school all year round. School path focuses on a bicycle path, but can also be combined with a pedestrian lane.

In the school path children are priority but it's for the whole community to use.

The concept includes the means to form an optimal school path and the physical elements that it's build of.





10/10/2013



GOALS

PRIMARY

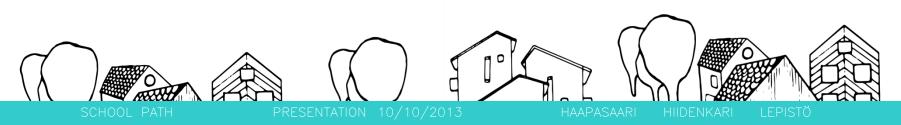
SCHOOL PATH NETWORK FOR KIVISTÖ SAFE AND OPTIMAL ROUTING DEFINING SCHOOL PATH ELEMENTS MULTIFUNCTIONAL AND FLEXIBLE RECOGNISEABLE AND GRAPHICAL LOOK

SECONDARY

TRAFFIC AWARENESS EDUCATION

CO-OPERATING WITH SCHOOL PATH: SAFETY AND INFROMING – GROUP

ADDITIONAL SERVICES





KEY THEMES

MULTI-FUNCTION

The path is designed in a way that allows it to be **modified easily**. Concept works even if some elements are left out or edited.

Path must be **multifunctional** to serve most of the community.

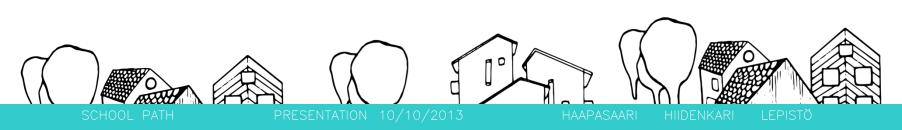
KEYWORDS

EMOTIONAL

Community Experience Independence Visual Unique Memories Inspiring

LOGICAL

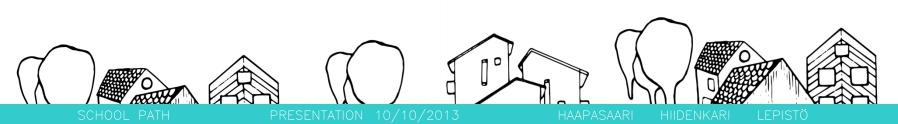
Functional Safe Year-round Reachable Adaptable Easy to maintain Simple



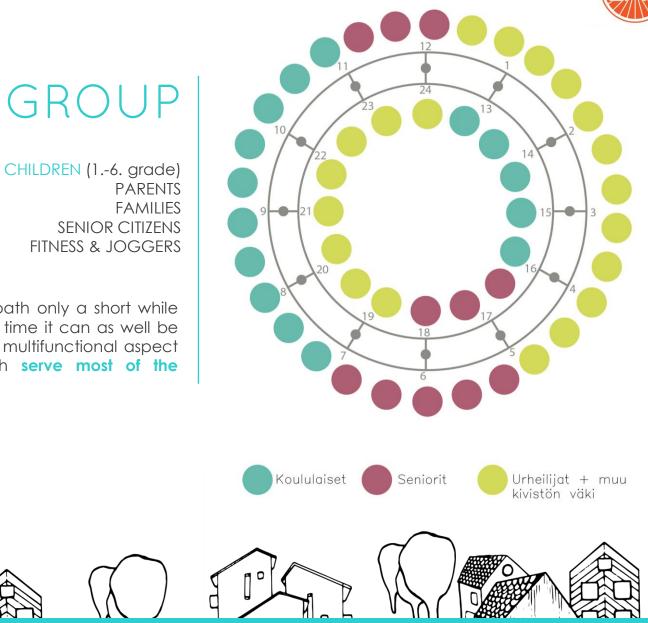


COMMUNITY & SOCIAL ASPECT

- Promoting **regional identity** with having something unique and local.
- School path is one tool to teach children to live according to **sustainable development** values.
- For public health reasons it's profitable to accustom children to excercise and travel short distances by walking and cycling at a young age.
- School path would partially preserve the small town spirit by creating a safe and nature favoring enviroment.







TARGET GROUP

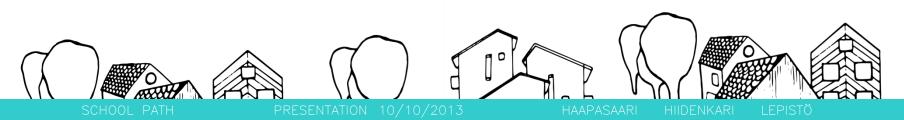
SCHOOL CHILDREN (1.-6. grade)

School children need the path only a short while during the day. Rest of the time it can as well be used by others too. For the multifunctional aspect we have made the path serve most of the community.



part II SCHOOL PATH ELEMENTS

- materials
 shelter
 crossing
 under- & overpass
 - lightening
- 6 path categories



5



MATERIALS

Built-in heating system integrated in the path keeps the path clear of ice and snow.

- Might inspire to cycle to school in winter also.
- Comes cheap in time; Sanding and salting ground costs a lot and isn't good for enviroment.
- Other pedestrians f.ex senior citizens could also benefit from the safe and well maintained path

For the path's coating we use **Acrylotex** which is designed for use on asphalt and concrete surfaces.

- Durable and slip resistant surface.
- Much more permanent than paint.

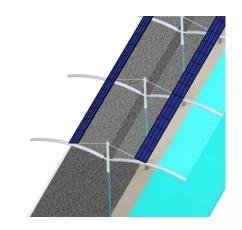




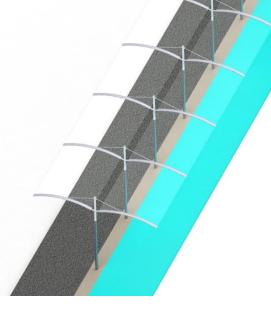


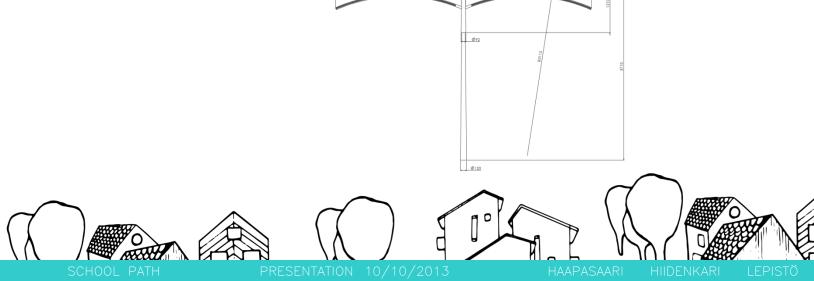
shelter

- The roof is bended **polycarbonate** plate.
- Shelter functions as an element separating pedestrian and cycle lanes. Also it indicates where the **main route** goes.
- Material is recycled aluminum.
- The ligtening works with **solar panels** placed on the the roof.



Ø 68

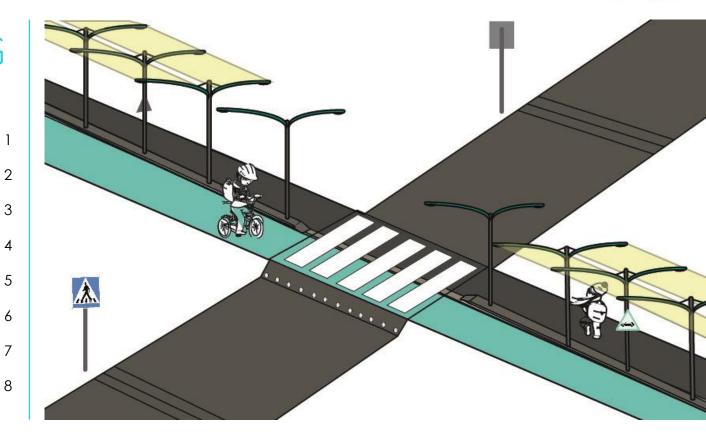


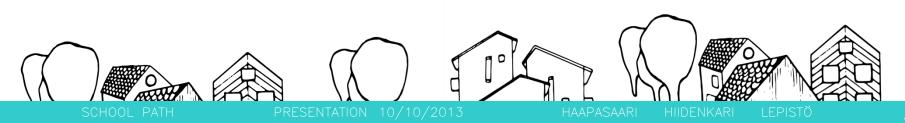




CROSSING

elevated crossing area	1
speed bump, rumble strip	2
speed limit 30km/h	3
visibility	4
Välkky, PoLED, SeeMe	5
SignFlash, Levelite	
safety island	7
traffic lights (+ cyclists own light)	8





underpass

- Approachable and comfortable.
- Intensive lightening.
- Visually interesting and memorable.
- Children would take part in improving and generating ideas for the tunnels.

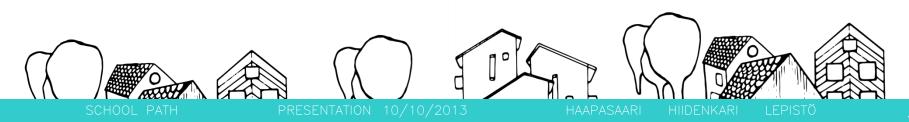


overpass



- If possible, in dangerous crossings there should be light overpass. To increase children's sense of safety, the structure could be tubular.
- There are few overpasses already in the school path. In these cases, road surface and other details continue same way as the basic path.





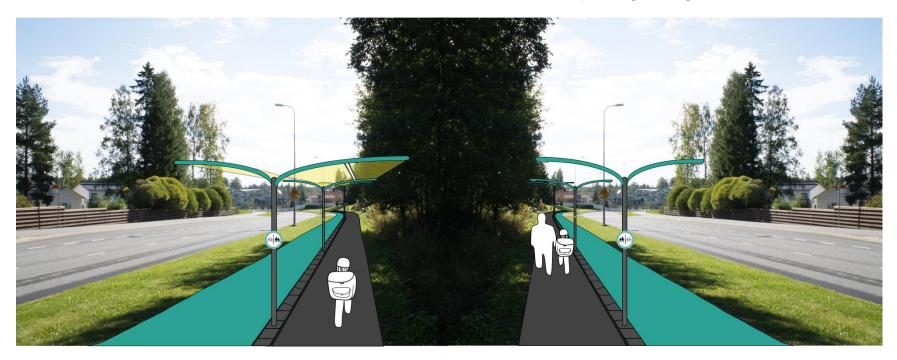
LIGHTENING



Integrated LED lights lenghtwise of the path. Solar panels on the roof.

LIGHTENING POLE

Streetslights, with theme color paint. Same shape as the shelters profile to keep the lightening cohesive.







CYCLIST MEASURES

cyclists

• Lane width is between 2,25 m and 2,50 m.

pedestrians

• The pedestrian lane should be wide enough for **a** stroller and a parent attending their kid to pass each other.



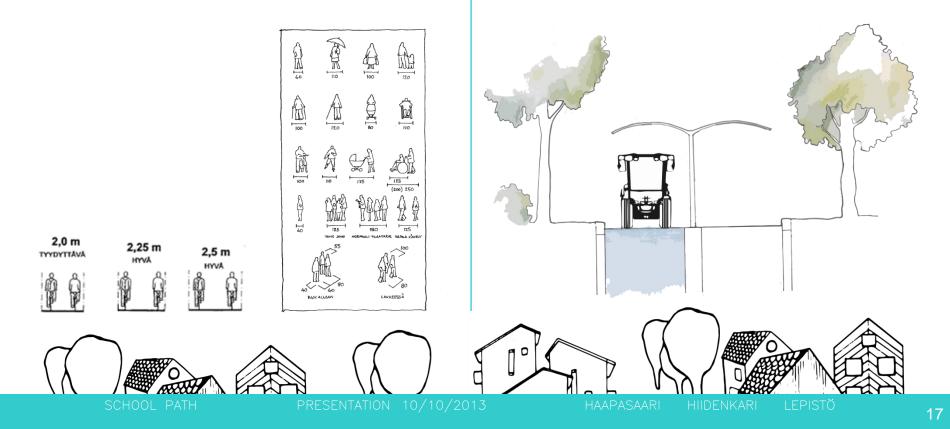


maintenance category K1

plowing equipment —



well timed maintenance	
removal of snow, ice and slush	2
prevent slipperiness	3
own responsibility of cycling equipment	

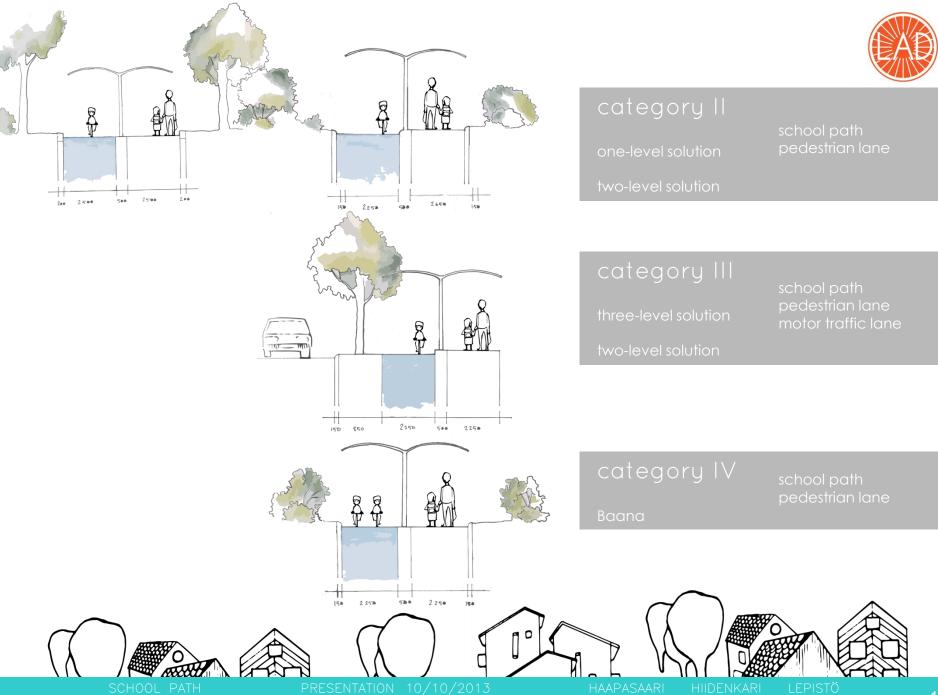




PATH CATEGORIES

category I	school path integrated in an existing sidewalk
category II	school path + pedestrian lane
category III	school path + pedestrian lane + motor traffic lane
category IV	school path baana

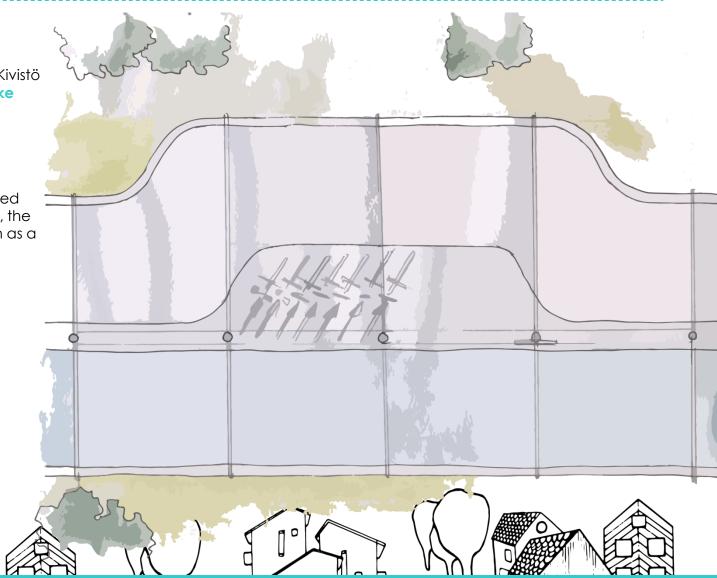






bike parking & cycling schoolbus stop

- Near the schools and Kivistö station there will be bike parking in a widened separation lane.
- When a bench and fixed bike pump are added, the area can also function as a stop for the cycling or walking schoolbus.





part III SCHOOL PATH NETWORK

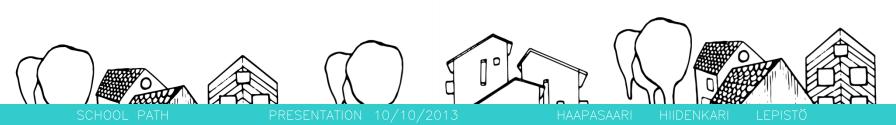
- optimal route
 - maps

1

2

3

signage





OPTIMAL ROUTE

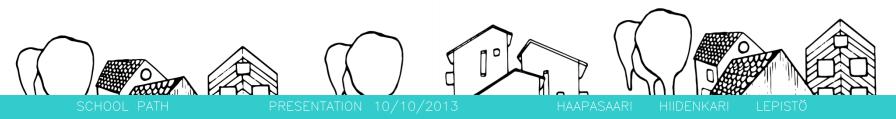
SCHOOL PATH: DEFINING ELEMENTS

LOCATIONS

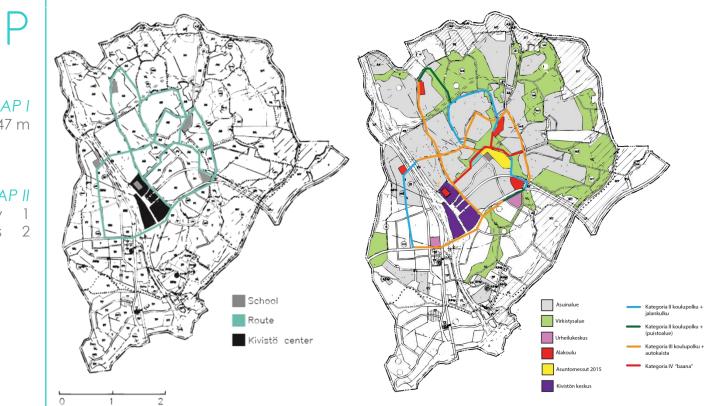
schools hobbies after school activities playgrounds sports field & hall church library Kivistö station bus terminal

GEOGRAPHICAL

childrens residential areas & dividing to local schools uphills number of crossings motor traffic







M A P

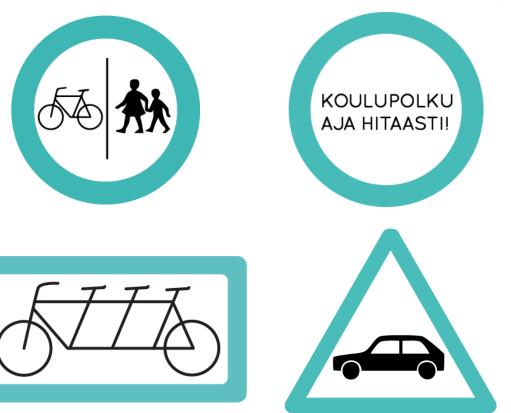
MAPI simplified map 16,847 m

MAP II

- route by category
 - key locations

D





SIGNAGE

school path sign

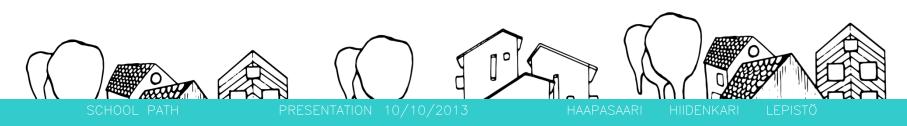
1

2

3

4

- cycling schoolbus
- approaching crossing
- sign for other cyclists





SIGNAGE

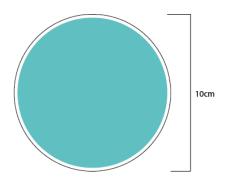
general signage style

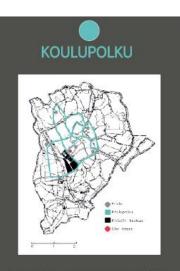
4

6

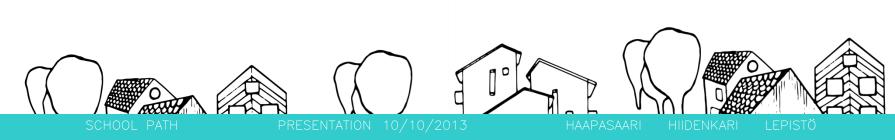
- sticker, reflective edge 5
- infoboard







Kisistin koulupoliku on turvalinen reiti päästä kouluun, nin taivella kun kosallailin reituun sinteitu turvaamaan myös vaaralliset senyliykset. Poluus voivat myös käytää muutkin kivistön ihmiset, aaimatkis lerikkipolikuna pähmeän alustamaa arakata. Eenkin taivella sukeminen on vaivaotarot, sallä maaitammisto kalaa helgoon liikkumisen kakilla Koulupolun pituus on yheennis 1,0947 mentiä. Yhteisyössä Martopolia ami, Luby. EUn tuiki. Seura arkoosiat





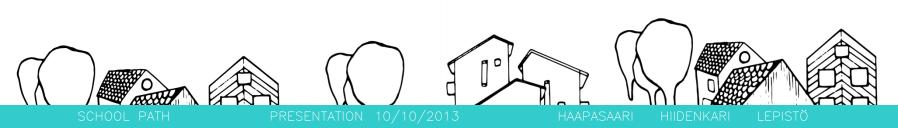
part IV HOUSING FAIR VANTAA 2015

route

1

4

- 2 school path guide for art
- 3 path category
 - lightening



HOUSING FAIR ROUTE

Easy to reach. Direct connection to several local schools, train station, sports, parks and after school activities.

listo center



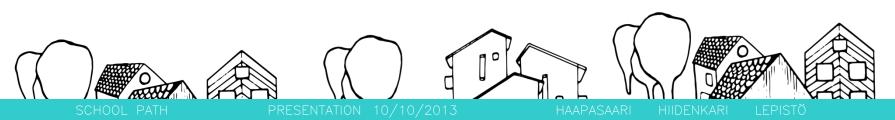
SCHOOL PATH GUIDE FOR ART

children's participation

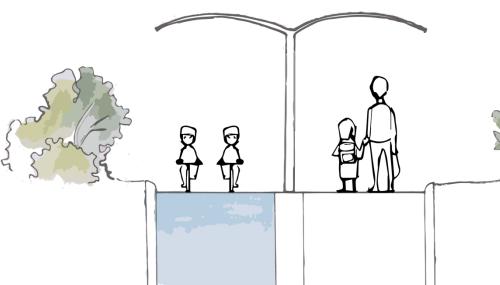
School paths guide for art aims to **involve local children** in the art making process.

When children are allowed to get involved in designing and creating their school path enviroment they feel it as their own. **Sense of ownership** helps them to feel more safe and proud of their path.

Themes are nature, metals, stones and wood.







path category IV

- 2,25 m wide lanes & tiling
- Shelter with integrated lighting
- Year-round; heating system
- Easy to maintain in winter



pinwheel tiling

Pinwheel tiling is a non-periodic tiling.

Following the stone theme of the area, the path passin by housing fair will have a decorative tiling with multiple stone types.





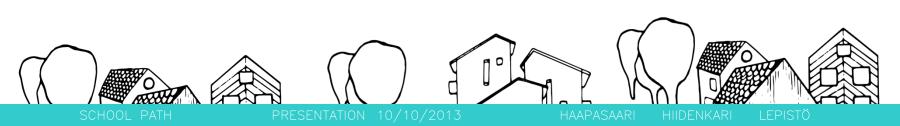


tunnels & archs

School path will have short tunnels made with different materials. F.ex.

corten steel	1
recycled wood	2

trees or plants 3





corten steel

recycled wood

trees & plants





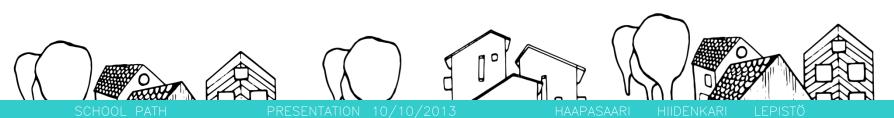




lightening for tunnels

Fagerhult: Tall pollar Corten steel

color, warm yellow 3000-4000K

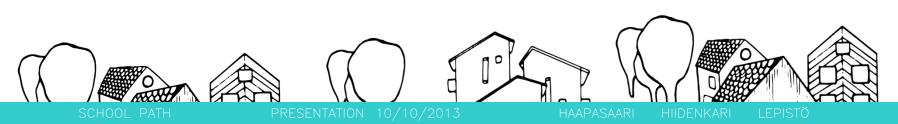




part V ¹ SUMMARY ²

summary

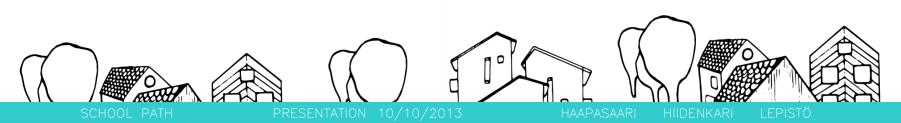
meetings with Vantaa representatives





SUMMARY

- Accessibility is good for all local children as **way to school is** less than 3 kilometers by bike.
- School path brings **unique value** to the new Kivistö area.
- The path **emphazises sense of community**. It most benefits families and senior citizens.
- Childrens exercising and daily movement increases thank to the school path; path is good for winter cycling and no remarkable uphills. Also safe and comfortable tunnels, crossings and separating lanes between traffic eliminate the need for children to be afraid of their most common fears.
- Path elements are easy to recognize so children don't get lost.

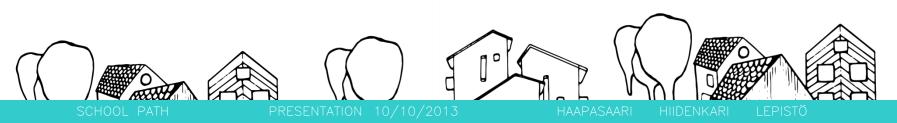


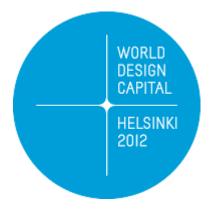


MEETINGS WITH VANTAA REPRESENTATIVES

- **26 / 9** meeting with Lea Varpanen, Director of planning for Kivistö.
- 9 / 10 second meeting with Lea and 18 Vantaa representatives.
- 1 housing Fair as a school path pilot Kivistö school – housing fair – Kannisto school
- 2 the signage is easy to use in short timespan
- 3 could work as much more siplified elements













European Union European Regional Development Fund



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PRESENTATION 10/10/201

haapasaari hiide