

# Collaborative planning and design as a bridge towards children's cultural learning and active citizenship

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EDRA 39

*Linking Differences/ Defining Actions –  
Asumiendo Diferencias/ Definiendo  
Acciones*

Friday, May 30th



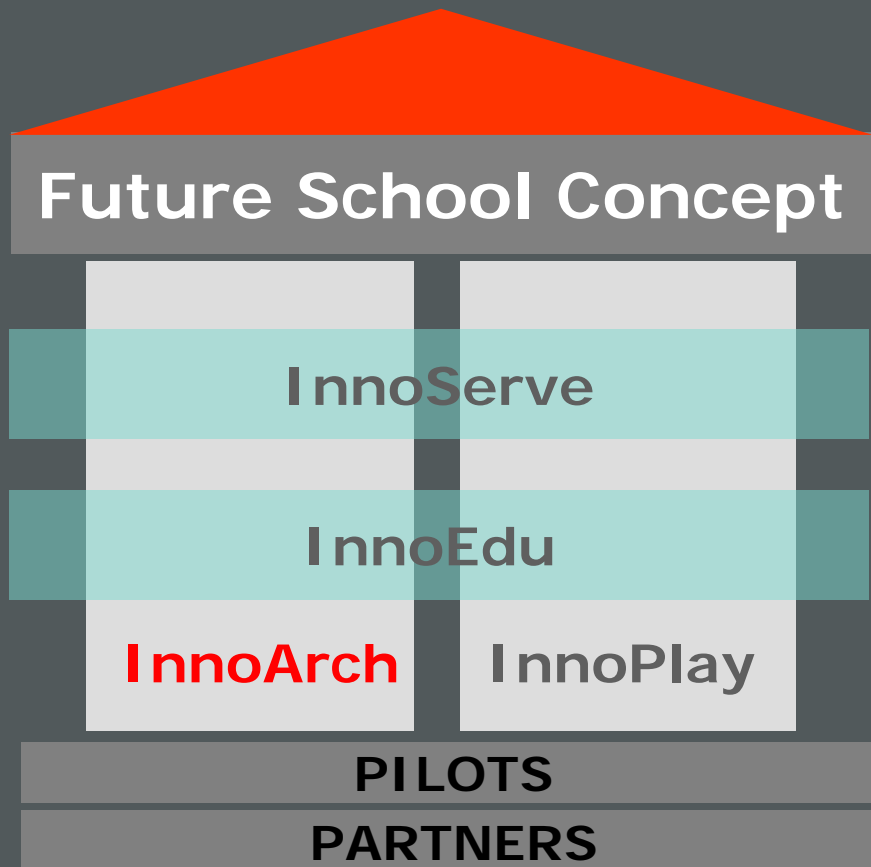
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Department of Architecture

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# InnoSchool

1.1.2007-30.6.2008 & 1.9.2008-28.2.2010



## InnoSchool consortium:

Helsinki University of Technology,  
Department of Computer Science  
and Engineering, SimLab

University of Helsinki, Faculty of  
Behavioral Sciences, Center for  
Research on Teaching

**Helsinki University of Technology,  
Department of Architecture**

University of Lapland, Rovaniemi,  
Faculty of Education, Centre for  
Media Pedagogy



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Department of Architecture  
InnoArch: Aija Staffans & Helena Teräväinen



# InnoArch

## Places and Spaces for Learning

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2007

2008

Indoor Studies

Field Study in Arabia School,  
Architectural Space Analysis

Usability Analysis  
in Arabia School

Field Study in Stanford Loft:  
A Design project

Arkki Childrens' Workshops  
Case Opinmäki Pilot School

Observing the Planning and Design Process of Opinmäki

19 Schools in Finland,  
Space & Usability Analysis (separately funded)

"The Intensity of Space"  
Spatial experiences of the  
school house

Usability Report of the  
school house (users' view)

"Creative Spaces":  
Qualities for the PjBLL;  
Teamwork supportive space

Children's participation &  
"New School Typologies"

Improvements in  
Peda&Arch interaction  
in a practical design process

Improvements in  
dimensioning the school

Outdoor Studies

Children as Environment  
Agents CEA: Field Study ...  
Arabia School

Field Study in  
Muurola

Field Study in  
Jakomäki

Kuninkaantie 5 Schools:  
Project and Teacher Collaboration

"Meaningful Places in Students'  
Every Day Environment"  
TSL supportive  
environmental qualities  
(children's view)

TSL supportive  
environmental qualities  
(teachers's view)

- **Sub-study 1:** Children as Environmental Agents (CEA) in Helsinki and in Rovaniemi
- **Sub-study 2:** Collaborative Workshops at Arkki School





## Theoretical background

**What?**

- **Spatial thinking**
  - Human geography, space experience, identity of space (Tuan, Relph)
  - Multisensory spaces (Vodvarka & Molnar, Marks)
  - Environmental psychology: affordances (Gibson), perceived quality

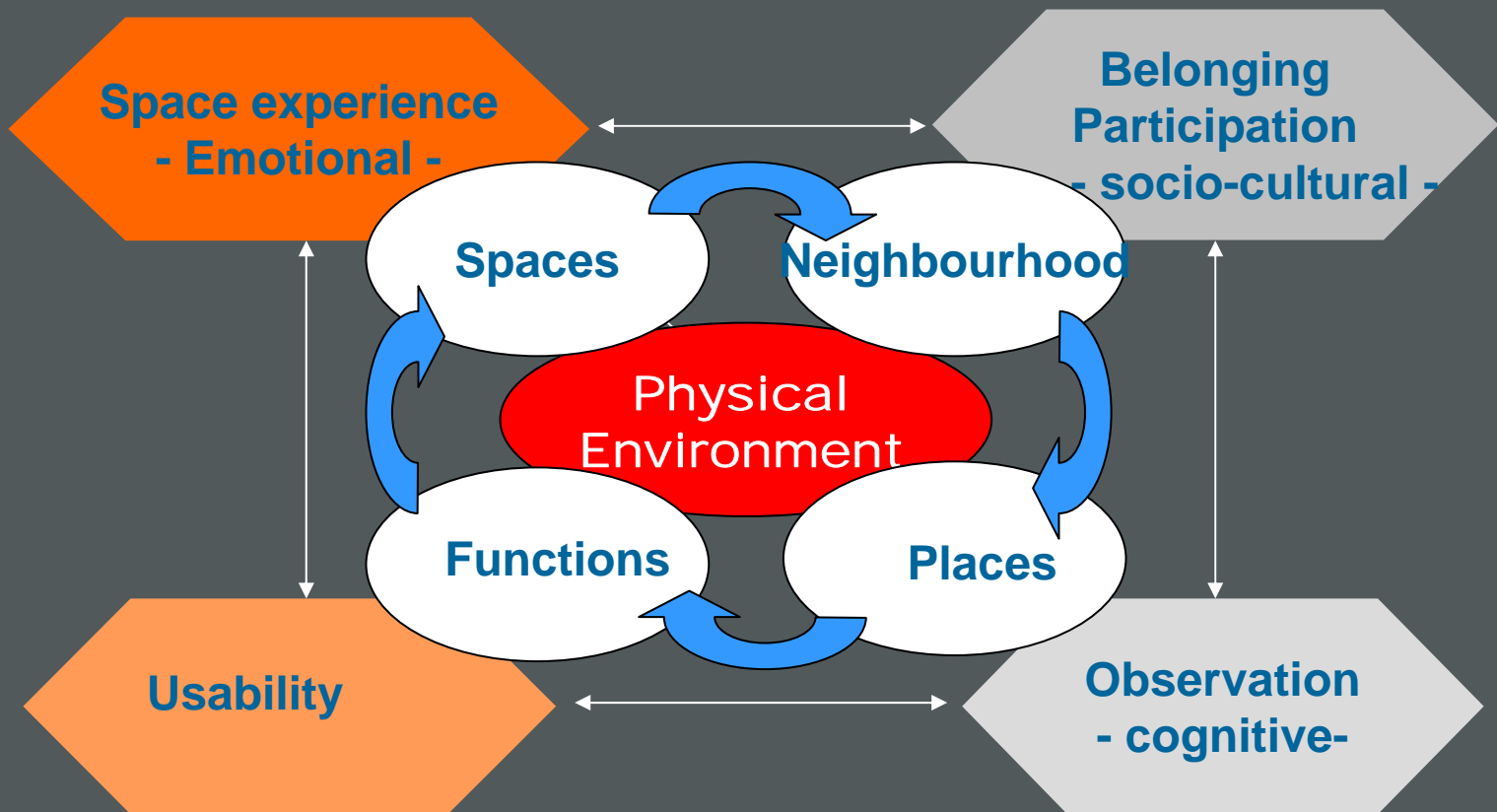
**How?**

- **Process thinking**
  - Communicative/transactive planning (Friedmann)
  - Collaborative planning & design (Healey etc.)



## Research Frame and Focus Areas

### *Space & Experience*



*"Place & mapping"*





## Presentation of two sub-studies

### Research Questions here

*1. How/ In what ways can the collaborative planning and design process with children act as a tool for active citizenship and cultural learning for children?*

*2. How/ In what ways does children's environmental local knowledge enrich urban planning?*

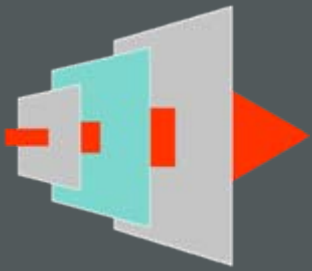


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In this Edra paper we present

- **Sub-study 1:**  
**Children as Environmental  
Agents (CEA)**  
**in Helsinki and in Rovaniemi**





Asking children about their perceptions, experiences and movement in the neighbourhood



**1) City of Helsinki:  
Arabia 05-2007 and  
Jakomäki 12-2007**

**2) City of Rovaniemi:  
Muurola 11-2007**

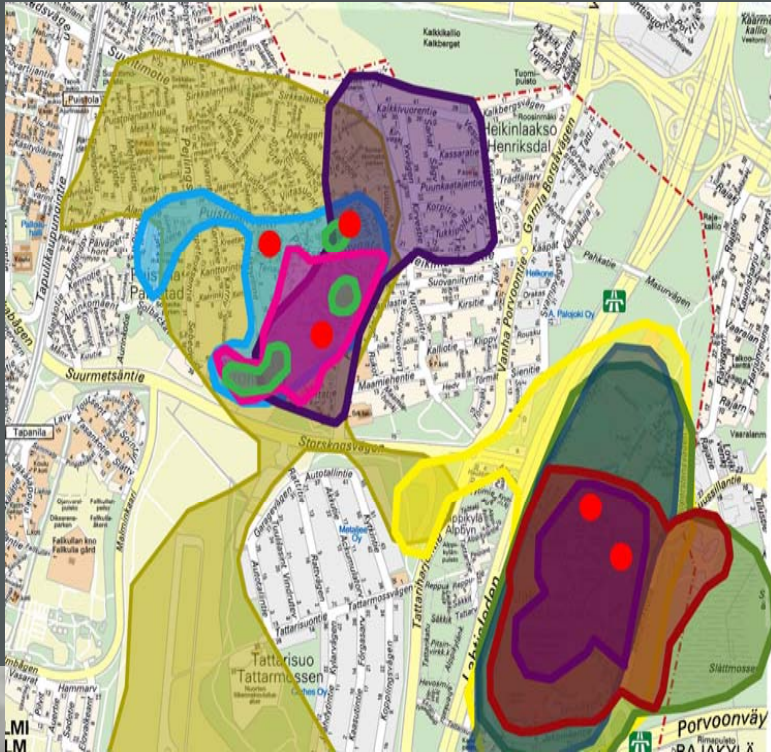


**1. Mind mapping**

**2. Mobile mapping**

**3. Interview**

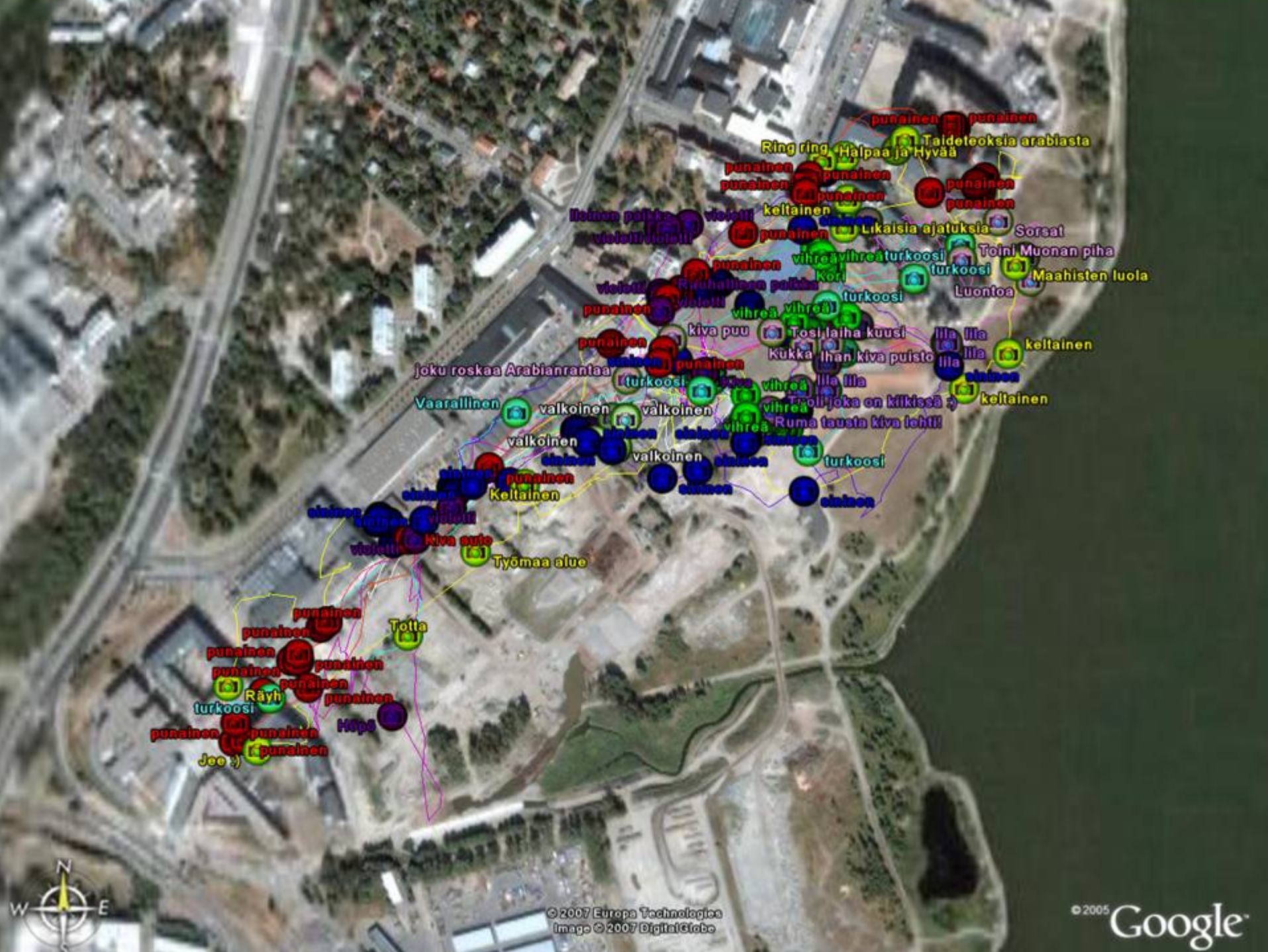
# InnoArch Outdoor Studies



Neighbourhood level environmental study  
by using mobile phone,  
GPS logger,  
Brieftec Binder software and  
GIS applications (Google Earth)









# Details...



# Pets and animals...





# Unique hobbies and important elements of everyday life...



# Social gathering e.g. shopping malls...



# Web-based tools in urban development context

- ▶ Local planning and design forums
- ▶ Local development forums
- ▶ Web-inquiries
- ▶ SoftGIS methods
- ▶ Using also children's local knowledge
- ▶ Children seen as stakeholders and participants







# Kuninkaantien koulufoorumi

Etusivu Koulut Koulutyöt **Kartta**

Voit hakea kartalle koulutöitä projektien nimillä tai merkitä omia kommenttejasi Kommentoi -työkalulla.

Hae kartalle

Etsi osoite

## Koulutyöt

- ☐ Hylätyt paikat - Unohdetut maisemat
- ☐ Liikkuen loikkien
- ☐ Jakomäki-Puistola ennen ja nyt
- ☐ Tiedän paikan armahan

## Koulut

- ☐ Jakomäen ala-aste
- ☐ Jakomäen yläaste
- ☐ Nurkkatien koulu
- ☐ Puistolan peruskoulu
- ☐ Puistolan ala-aste

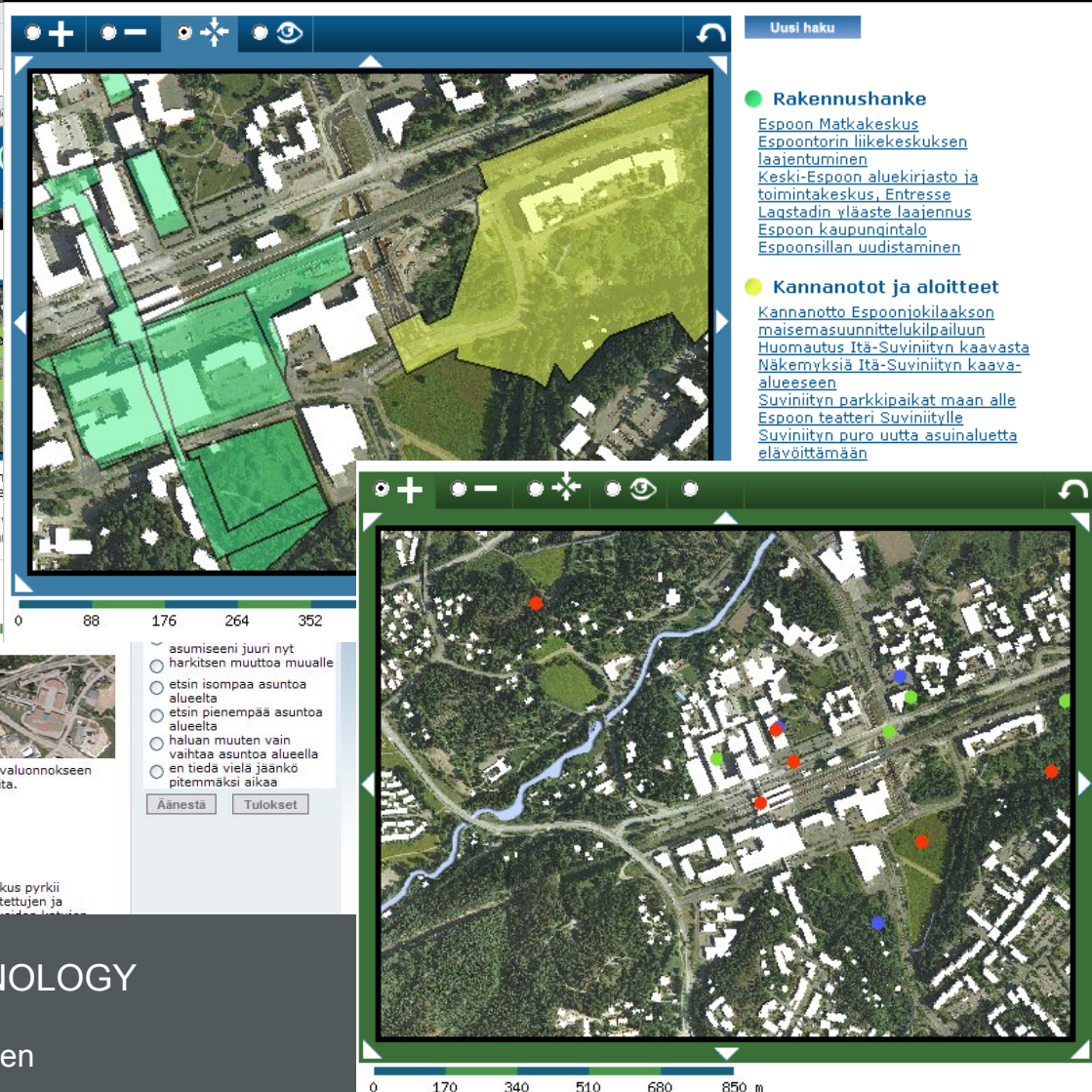
## Kommentit

- ☐ Kommentit
- ☐ Kehittämisehdotukset

Hae kartalle >







- **Sub-study 2: Collaborative Workshops at Arkki School**



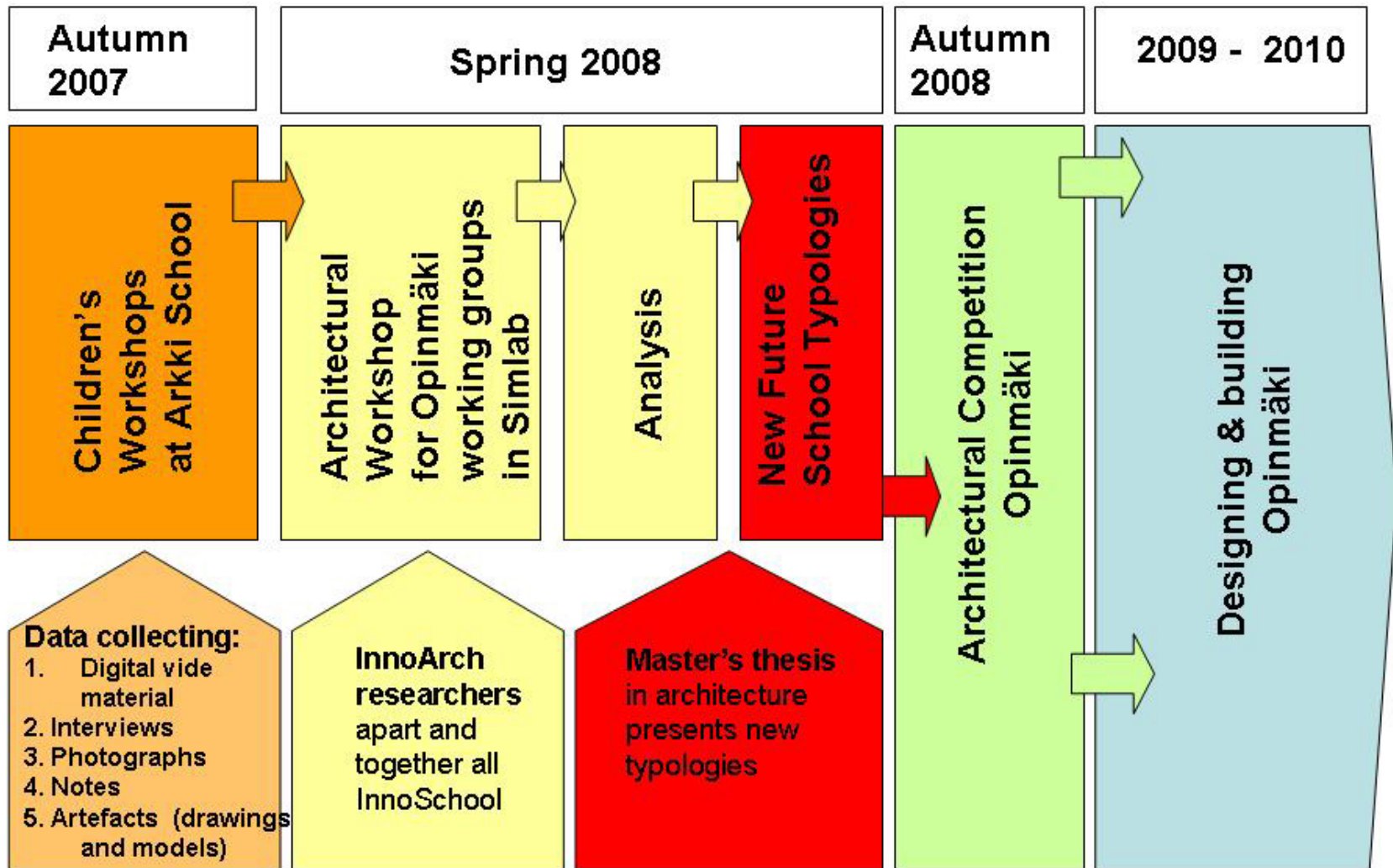
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## Sub-study 2

- **Arkki workshops in autumn 2007**, children in ages 11-18 working together / Documented in photographs and video tapes; Ideas will be utilized in programming the **Opinmäki architectural competition**
- **Arkki= Architectural School for Children and Youth**



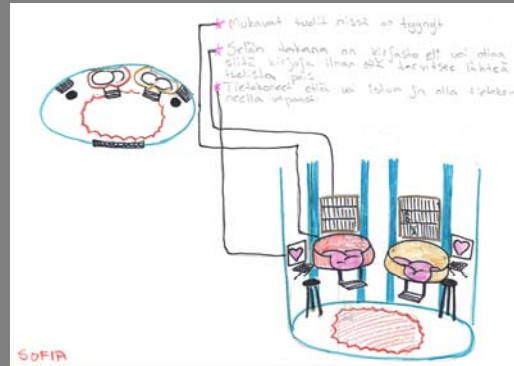




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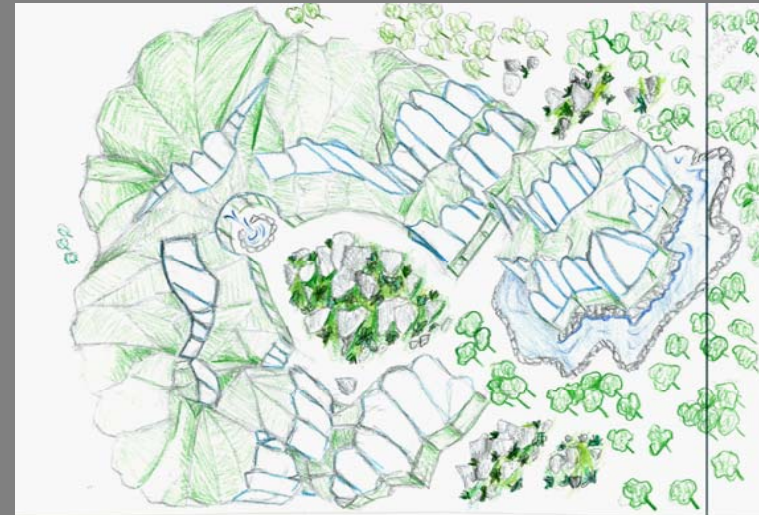
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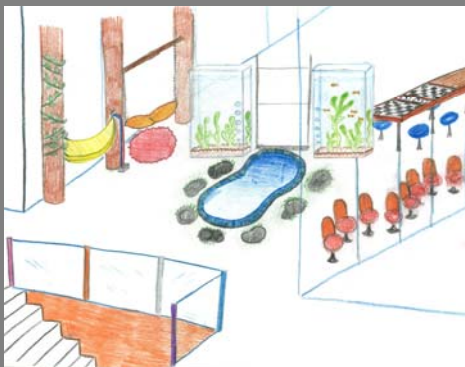
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<b>4. workshop</b>	30.10. & 31.10.	Meeting points and routes	Entrance and centre halls and all the other big halls like for physical education and feasts. Currents of people.
<b>5.workshop</b>	6.11. & 7.11	The outside environment of the school	Students were longing after nature: and works of art. Places to stay were cosy and peaceful, bordered by green belts. Many seats. Water in many different elements: ponds, rivers with bridges, falling waters. Plants to see and eat. Different surfaces, different materials, labyrinths, various levels: staircases, ramps etc. Roofs as playgrounds and gardens.
<b>6. workshop</b>	13.11. & 14.11.	The future curriculum and the new subjects. Specific spaces.	Future subjects: physics-astronomy, design (art, craft and mathematics), technology, architecture, medicine and so called “multi creativity”.

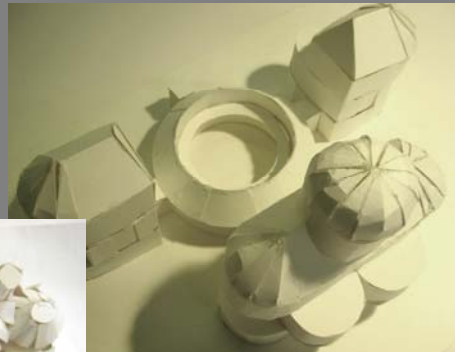
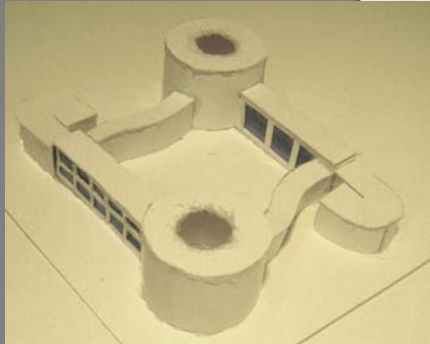


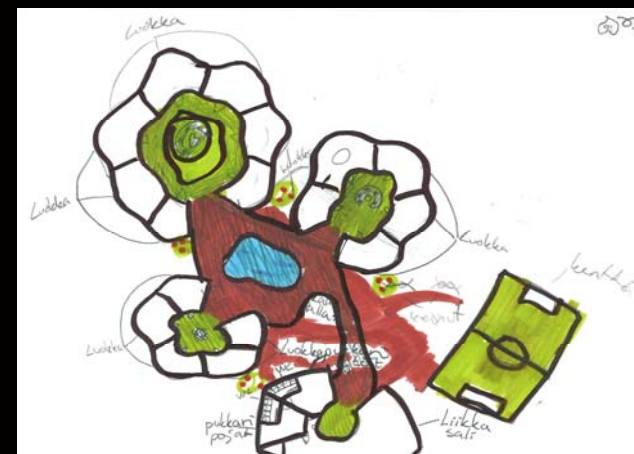
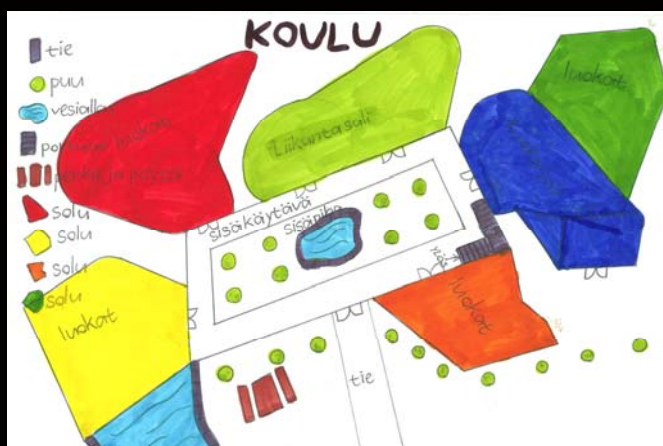
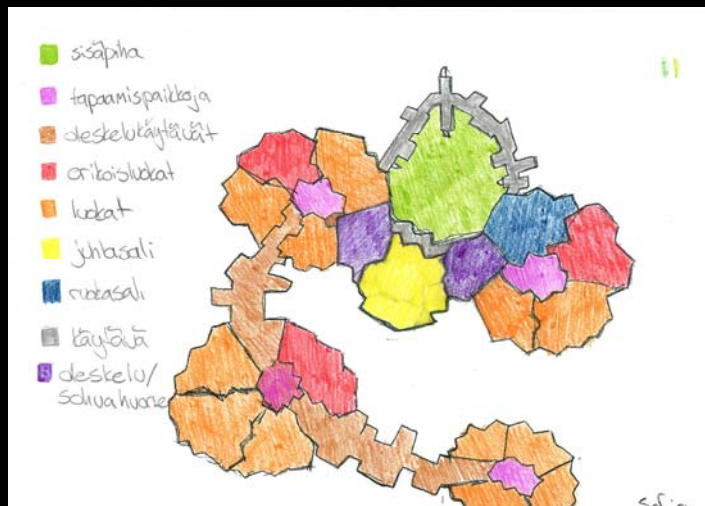
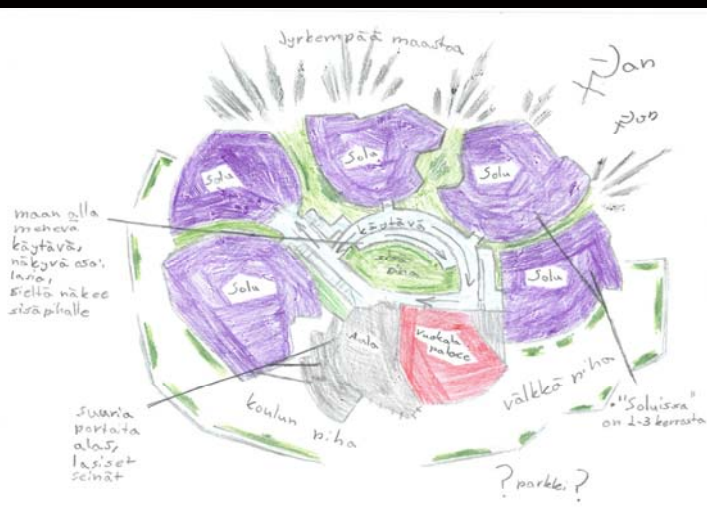
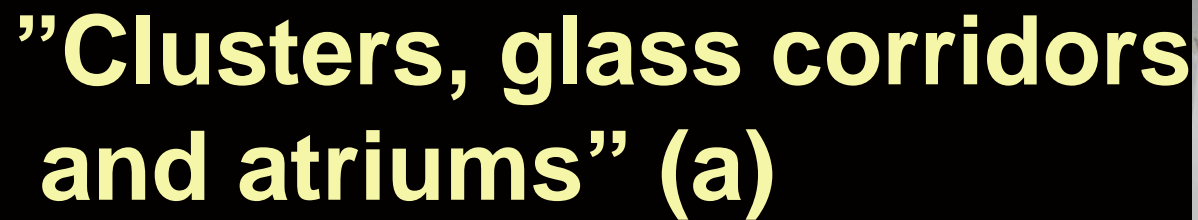
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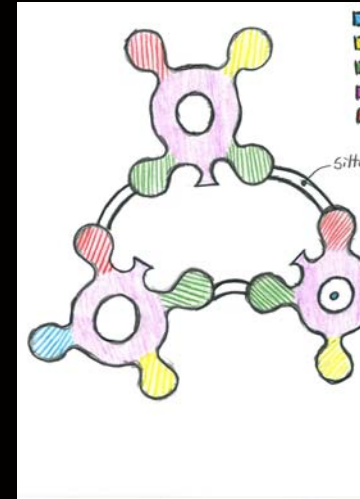
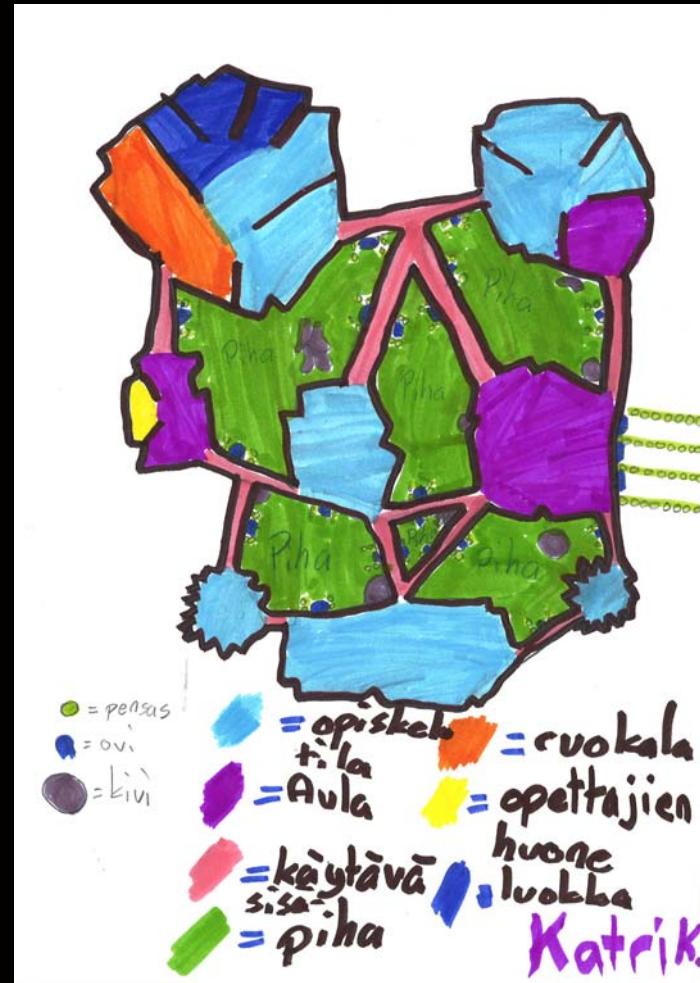
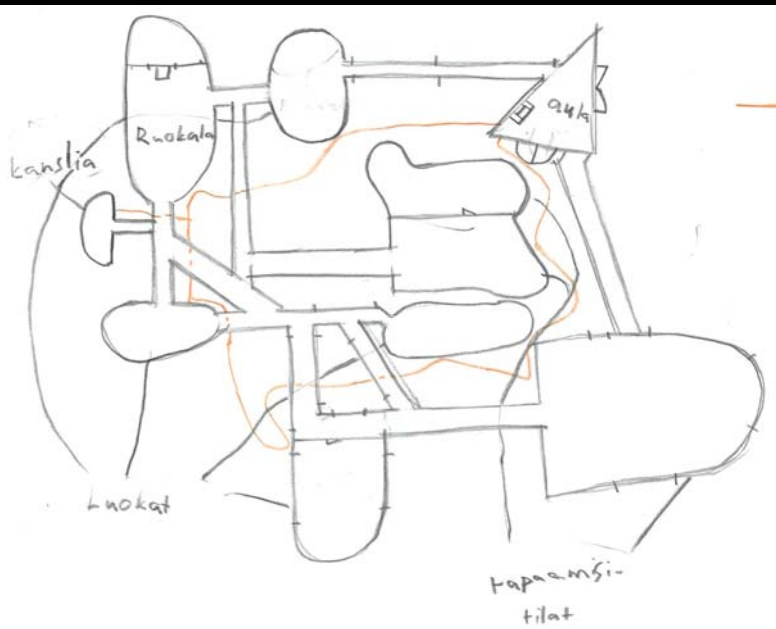
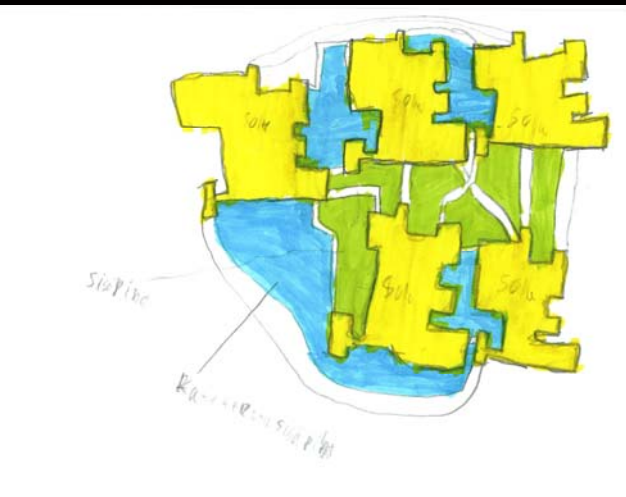
# Arkki Workshops schedule 4

<b>10. workshop</b>	11.12. & 12.12.,	modelling the school house. Photographing the models.	Stairs like Guggenheim's, rhythm like Reima Pietilä's. A lot of greenery and water. Pilotism. Bridges between houses on pillars. Multi-shaped buildings. Houses resembling rocky stones. Many interesting roof windows. Steps with lawn. Shelters and sun awnings. Round buildings divided in sectors etc.
<b>Seminar at Arkki School</b>	19.12.	Discussion about all topics and creations together with parents	A huge amount of fantastic drawings and models. The overall picture was cleared up to, when everything was repeated and analysed together. The students (pupils) had again opportunity to explain their solutions to the audience.



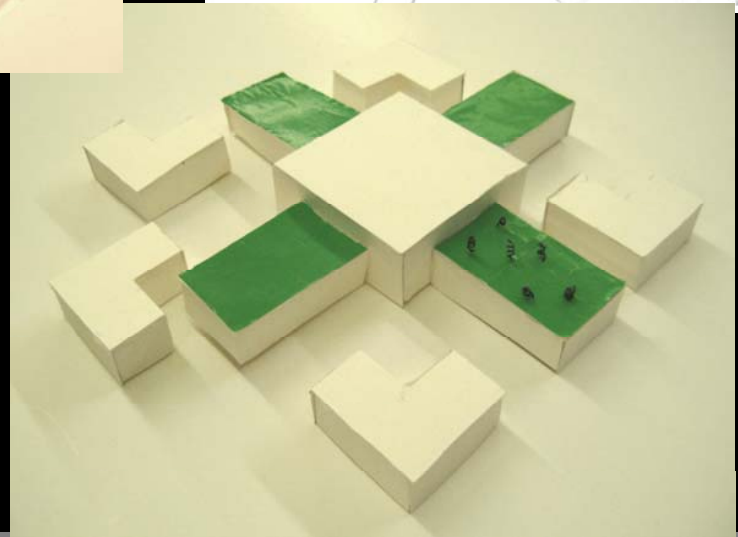
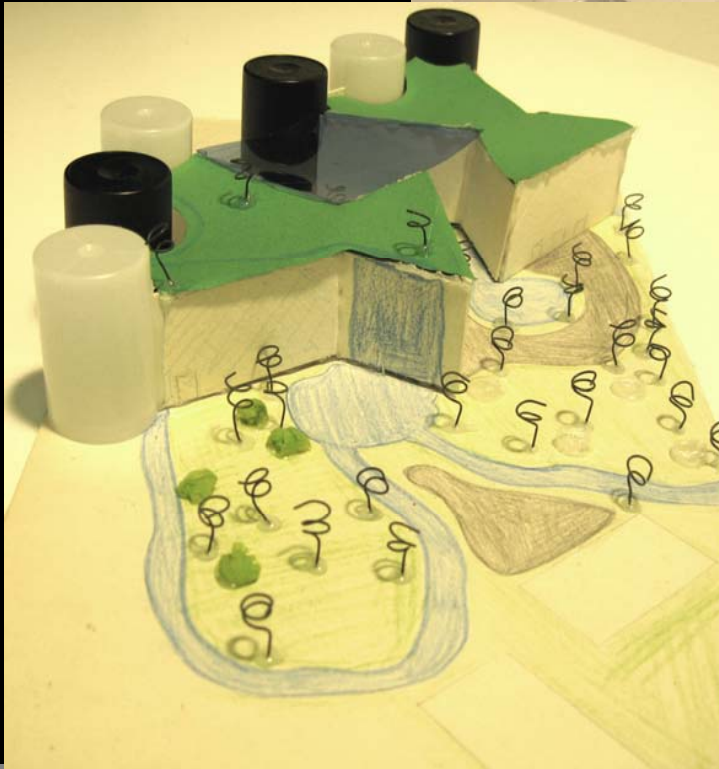
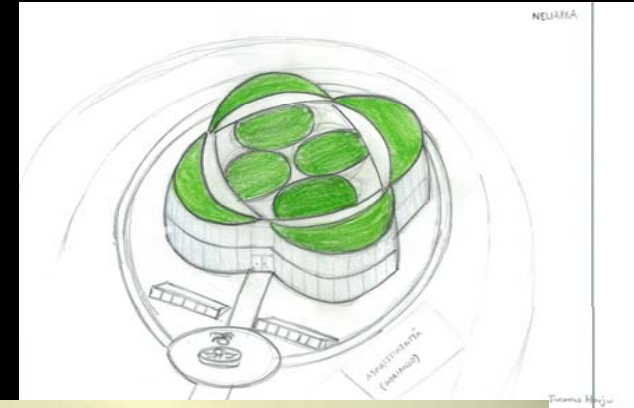


# "Clusters and bridges" (b)





# "Roof garden/ courtyard as roof" (c)



## The preliminary analyses of the methods used in Arkki School workshops indicate usability at least on two different levels:

- 1) Video taping useful “in making notes” of what and how children described their ideas and drawings for the future school. This would not have been possible by analyzing only the pictures students created. The possibility of documenting their speech, of listening to their intentions and explanations, and of reviewing this material several times in different groups, has turned out to be fruitful.
- 2) The TSL (teaching studying learning) method used at Arkki School and generally in Finnish architectural and environmental education for children has its ground in “learning by doing” (John Dewey) and also experiential and reflecting learning, as well (see Kolb 1984).
- Hence it was extremely important to give each student a chance to present his/her own work; while explaining they also learned to clear their thinking and to know their rights as members of society. This is very important when raising children’s epistemic agency.

-

**And what then?  
Next phase...**

# Breaking boundaries through collaborative and mediating spaces

## Theme

## Expected Results

**Schools as Platforms of Services and Well-being in Their Communities**



**Developing collaborative planning methods for the school with stakeholders in all user and age groups**

**Schools as Multifaceted Learning Environments**



**Qualities for collaborative and mediating spaces for TSL processes**

**Schools as Integrators for Learning Resources and Networks**



**Local forums as mediators between the neighbourhood and the school; international collaboration**

**Schools as Platforms for Life-wide and Life-long Learning**



**Collaboration, mediation and sustainability guiding the planning process of the school**

*Thank You!*

**Happy to answer any questions  
and have some conversation...**



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