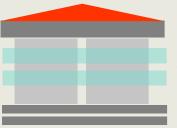


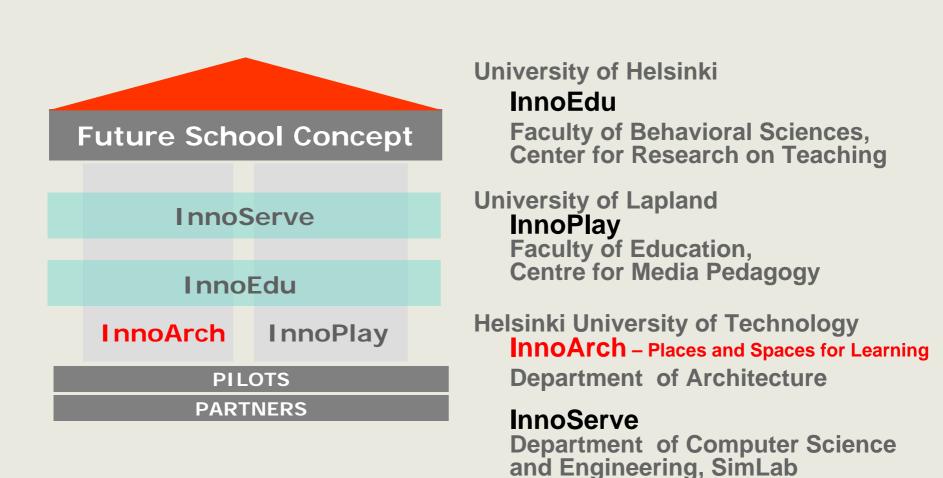
Grasping the Future

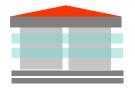


2.10.2008 Aija Staffans Helsinki University of Technology Department of Architecture

InnoSchool

Innovations in Architecture, Education, Playful Learning and Services 2007-2010





InnoSchool Consortium

Research

Helsinki University of Technology

University of Helsinki

University of Lapland

Stanford University

University of California, Santa Barbara (UCSB)

Industrial Partners

Cramo Finland Elisa Lappset Group Ltd. Martela Group Microsoft

Municipalities

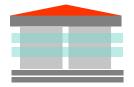
City of Espoo City of Helsinki City of Rovaniemi

Dissemination Partners

National Board of Education Finnish Forest Industries Federation

Funding

Partners (20%) Tekes – Finnish Funding Agency for Technology and Innovations (80%)



InnoEdu Research Frame

COLLABORATIVE PEDAGOGY

Students as knowledge creators

Reflections on architecture and urban planning?

TE as a lifelong continuity

OUT-OF SCHOOL LEARNING CONTEXTS

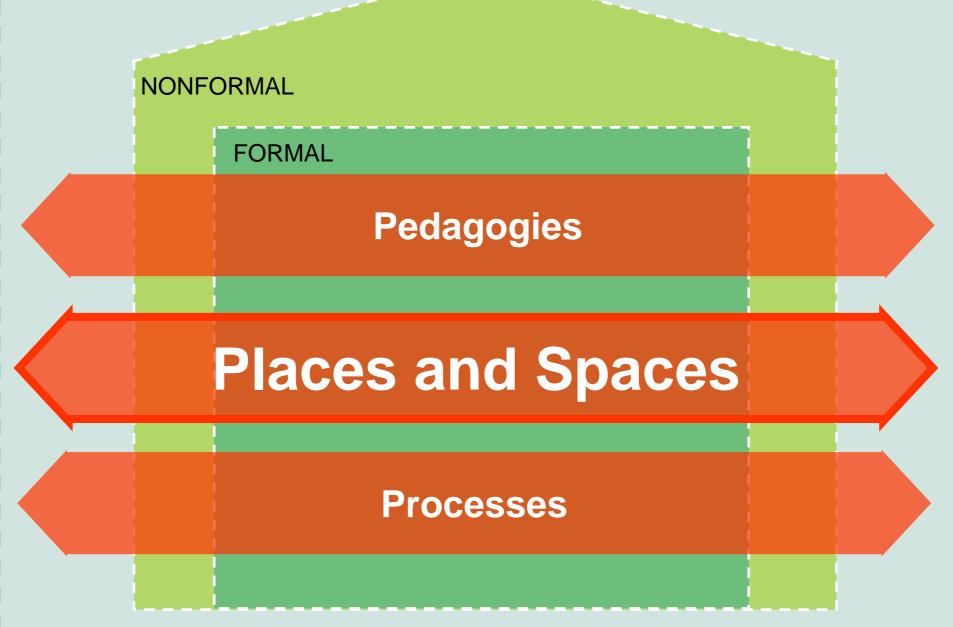
Integration to basic education

FLEXIBLE CURRICULUM

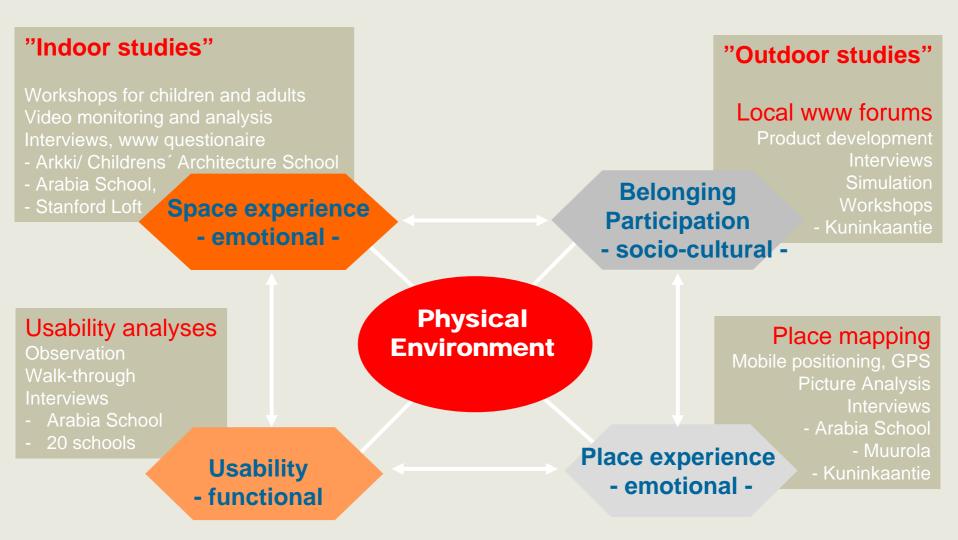
Redefining formal pedagogy

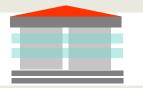
Project based integrative content











InnoArch as a Co-developer







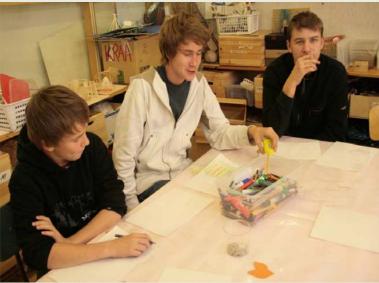
Opinmäki workshop 28.8.2008 for Espoo Educational Administrators

"Kick off for the planning process"

InnoArch as a Co-developer







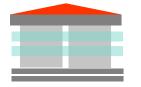
ARKKI workshops

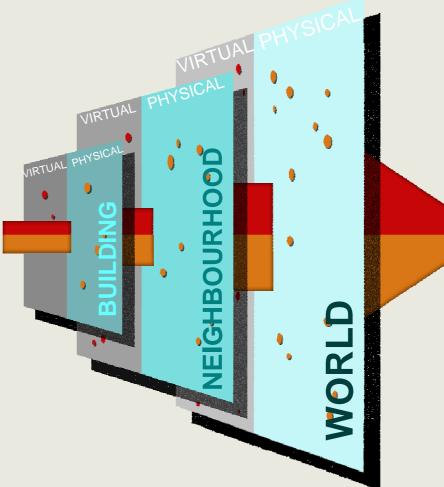
for children and young people in ages 11-18

Autum 2007

Arkki= Architectural School for Children and Youth

InnoArch Goals





Primary Goal: to deepen the understanding of the interrelationship between a spatial experience and a meaningful learning process (TSL)

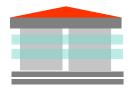
TSL* processes

Secondary Goal: to develop a collaborative, inquiry based planning and design process for the future school

* TSL= teaching, studing learning



The question of the class room? The question of the neighbourhood? The question of the virtual space?



The Question of Class Room?

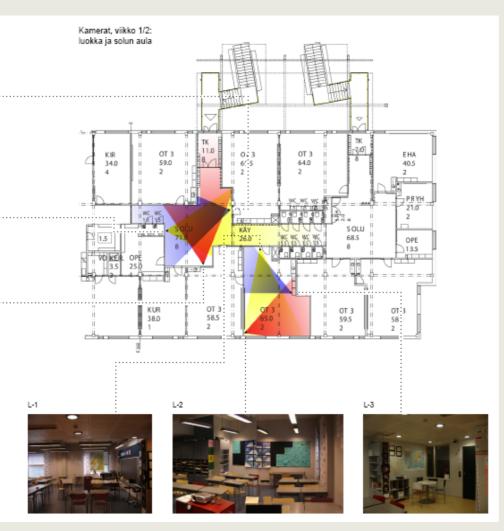
"Informal learning and the use of space?"

Mapping and monitoring the use of Arabia School together with InnoEdu





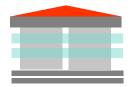




Class of 24 pupils Age 10 Video observation in the class room and in the lobby for one week

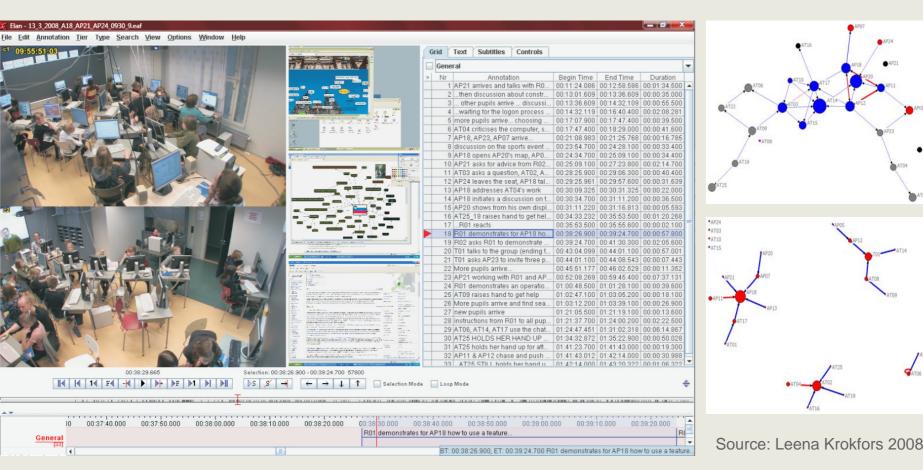
Mapping events in particular places in school house; identifying themes, actions and practices;

Developing videoenabled, evidence-based research methods; archiving, analysis and representing the film (Green&Skukauskaité 2007; Elan & Monty)

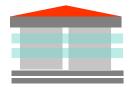


The Question of the Class Room?

InnoEdu Studies: Informal Episodes in Class Room



What is the connection between space and learning - evidence?



The Question of the Class Room?

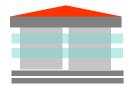


Higher Education in Stanford:

Multinational student teams working in a collaborative space called Loft What makes the learning experience so special?

What is the connection between space and learning - evidence?





Post Occupancy Evaluation in 19 Finnish School Buildings



USABILITY

Evaluating building performance and looking for **activity spots** outside formal teaching facilities Jukka Sulonen 2008

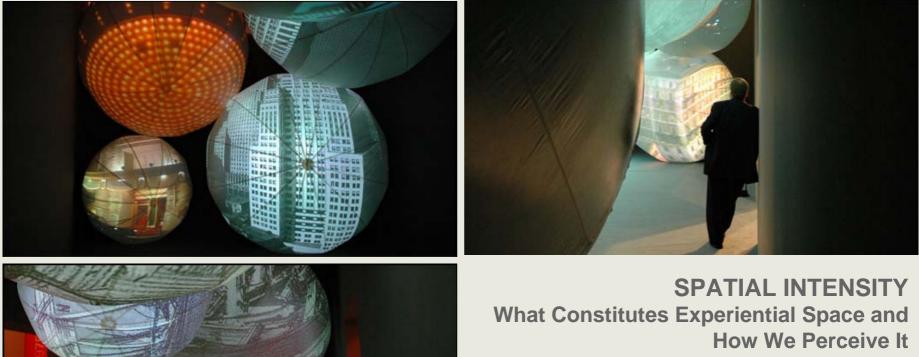






EXPERIENCE?

The Question of the Virtual Space?



Source: Imaginary Forces 2006 / Bubbles in the wine

Arvi Mäkitalo 2008

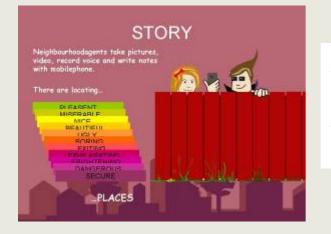
The Question of the Virtual Space?

Augmented reality - spatial flexibility in the learning environment?

Source: Imaginary Forces 2006 / Bubbles in the wir

The Question of the Neighbourhood?

Children as Environmental Agents in Helsinki and in Rovaniemi



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

1. Mind mapping

2. Mobile mapping

3. Interview

The Question of the Neighbourhood?



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

Source: Sirkku Huisko ja Reetta Hyvärinen 2008



Ring ring, Halpaa ja Hyvää keltainen vitro turkoosi Toini Muonan piha turkoosi Turkoosi Luontoa turkoosi 60 kiva puu (Tost leiha kuusi kukka Ihan kiva puisto IIIa Ille keltainen 0 Ma joku roskaa Arabianrantaa (turkoosi vibrea IIIa IIIa vibrea Vibrea an Militiacă șe Rollainen a Ruma tavata Liva Iolitii Vaarallinen ovalkoinen ovalkoinen valkoinen turkoosi valkoinen ettainen Tyomaa aluo

punalnos pun



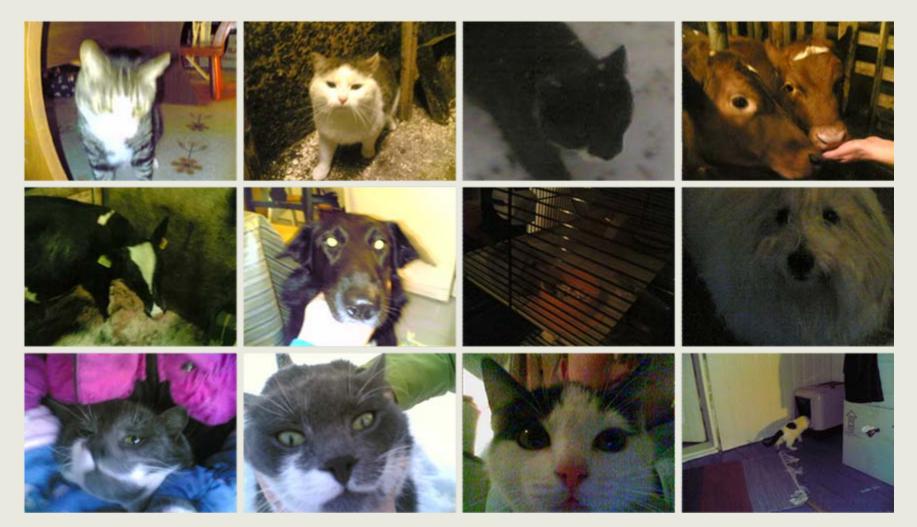
⊙ 2007 Europa Veelmologica Imago ⊙ 2007 Digital Ciebo



Details...



Pets and animals...



Unique hobbies and important elements of everyday life...



Social gathering e.g. shopping malls...





The Question of the Neighbourhood?

Kuninkaantie School Forum (www.koulufooru

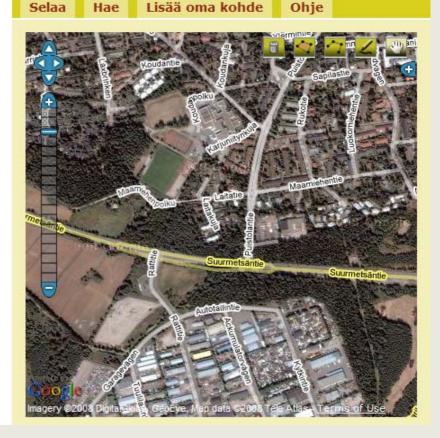
Luo Oma kohde

School Forum is

-a mediating virtual space between the school and the local community and

- a learning environment and publishing platform for project based TSL

5 schools, project groups in art, literature, physics, history



Sharing the School Forum with the Mesa School, Santa Barbara?

ae KINI



The Question of the Neighbourhood?

Espoo Opinmäki Learning Campus

Education: Place for 1450 students

- International School circa 470 students
- Finnish Comprehensive School circa 750 students
- Swedish Comprehensive School circa 230 students

Day care: Place for 120 children

- Day care in English: 1 group
- Day care in Finnish: 4 groups
- Day care in Swedish: 2 groups

A Learning Neighbourhood?

Ring ring, Halpaa ja Hyvää

keltainen

trea Ruma tausta kiva lohili

turkoosi

