

The **InnoSchool consortium project** researches and develops schools, with the goal to develop the Innovative School Concept. The project is divided into two subsequent parts: 01.1.2007–30.6.2008, and 1.7.2008–31.12.2009. The first part provides the basic theoretical and empirical foundations. The second, more applied part continues to develop the Future School Concept towards the global market.

The consortium considers schools as multidimensional, ICT-enhanced configurations of physical and virtual environments for life-wide and life-long learning. The four co-projects **InnoArch**, **InnoEdu**, **InnoPlay** and **InnoServe** research the schools from their own scientific areas: architecture and urban planning, education and pedagogy, playful learning environments, and service processes and innovation management. The synergy between the different co-projects is achieved through theoretical dialogue, and especially through empirical case and action research on the same pilot schools.

The Finnish partners in the first part of the InnoSchool project include:

- **The municipalities** that develop their schools: Cities of Espoo, Helsinki, and Rovaniemi;
- **The companies** that engage in business development within the Future School Concept: Cramo Instant, Elisa Oyj, Microsoft Finland, Martela Oy, and Lappset Group Ltd
- **The dissemination partners:** The National Board of Education and the Finnish Forest Industries Federation.

The InnoSchool consortium project is funded by Tekes and the participating municipalities, companies, and dissemination partners.

The InnoSchool consortium approaches the Future School through the framework of four key dimensions of learning across time, places and spaces.

## The Concept Design of InnoSchool



**Formal – informal.** Learning is achieved in various formal, informal and non-formal settings; during classes, on the playgrounds, at home, and during free-time. Learning is life-wide and lifelong. The Future Schools are integrators of formal, informal, and non-formal learning in the community.

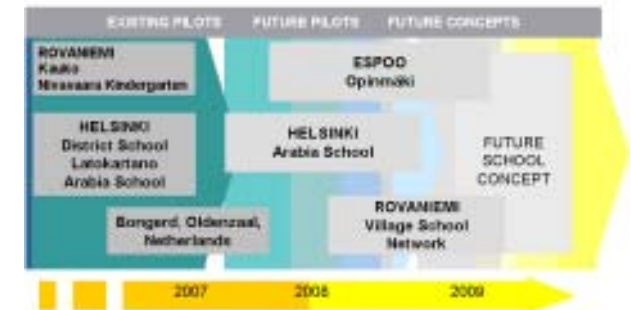
**Physical – virtual.** The Future School is an extended place and space of learning that incorporates the physical buildings and outdoor playgrounds, the virtual ICT-enhanced spaces, and mobility, i.e. learning while moving between the physical places.

**Distributed – integrated.** The integrated school model is based on the assumption of economic efficiency of big educational units. Distributed school models emphasize smaller and flexible educational units. These models bring different strengths and weaknesses for the Future School, and call for novel organizational forms and management processes.

**Local – global.** Traditionally, teaching, studying and learning have been to a great extent tied to local face-to-face communication in the classroom. However, with ICT, teachers as well as pupils communicate over the Internet and share and construct knowledge with their co-learners in global “knowledge communities”. The new ICT-enhanced schools support glocality, i.e. combining the local and the global in learning.

## Pilot Schools of InnoSchool

The InnoSchool project includes several pilot schools from the participating municipalities. These pilot schools include both existing and future schools.



## Expected results of InnoSchool

The final result of the InnoSchool project is the Future School Concept. It is the research-based set of recommendable models, practices, processes and structures, concerning the architecture, playful environments, education, and services, and the guiding principles how to combine them into successful configurations that best support learning in the Future School.

## Organization and resources

The InnoSchool consortium project is coordinated by D.Sc. (Tech.) Riitta Smeds, Professor of Business and Service Processes in Digital Networks, and director of SimLab, Helsinki University of Technology (TKK). The four co-projects and their leaders are the following:

### InnoArch: Places and Spaces for Learning

Professor (Acting), D.Sc.(Tech.) Aija Staffans and Project Manager, D.Sc.(Tech.) Helena Teräväinen, Helsinki University of Technology, Department of Architecture, Laboratory of Urban Planning and Design. Email: [aija.staffans@tkk.fi](mailto:aija.staffans@tkk.fi), [helena.teravainen@tkk.fi](mailto:helena.teravainen@tkk.fi)

### InnoEdu: Education with Innovation

Professor, PhD (Educ.) Leena Krokfors and professor, PhD (Educ.) Seppo Tella and Project Manager, M.A. (Educ.) Erja Vitikka, University of Helsinki Faculty of Behavioural Sciences, Department of Applied Sciences of Education. Email: [leena.krokfors@helsinki.fi](mailto:leena.krokfors@helsinki.fi), [seppo.tella@helsinki.fi](mailto:seppo.tella@helsinki.fi), [erja.vitikka@helsinki.fi](mailto:erja.vitikka@helsinki.fi)

### InnoPlay: Innovative Playful Learning Environments

Professor, D.Sc. (Educ.) Heli Ruokamo and Project Manager, M.A. (Educ.) Marjaana Kangas, University of Lapland, Faculty of Education, Centre for Media Pedagogy. Email: [heli.ruokamo@ulapland.fi](mailto:heli.ruokamo@ulapland.fi), [marjaana.kangas@ulapland.fi](mailto:marjaana.kangas@ulapland.fi)

### InnoServe: Service Innovations for the Future School

Professor, D.Sc. (Tech.) Riitta Smeds and Project Manager, Lic.Sc. (Tech.), M.A. (Educ.) Päivi Pöyry, Helsinki University of Technology, Department Computer Science and Engineering, Business Process Networks, SimLab. Email: [riitta.smeds@tkk.fi](mailto:riitta.smeds@tkk.fi), [paivi.t.poyry@tkk.fi](mailto:paivi.t.poyry@tkk.fi)

## International research collaboration

The InnoSchool consortium project collaborates during its first part intensively with the University of California, Santa Barbara (<http://www.ucsb.edu/>), and with Stanford University, Stanford Center for Innovations in Learning, SCIL (<http://scil.stanford.edu/>). Empirical results from the Finnish pilot schools are compared with international research through multidisciplinary qualitative analyses of video data recorded in the pilot schools and their environments applying the DIVER™ technology developed by SCIL.

The InnoSchool consortium is widely connected to the scientific networks of the co-project leaders, and will produce conference articles to NBE, AERA, EARLI, EDRA, NAR and IFIP. The results of the first part project will be presented in an international IFIP APMS conference in 2008, chaired by prof. Riitta Smeds.

## Domestic research collaboration

The InnoSchool project is the pilot project of Cicero Learning Network led by the University of Helsinki ([www.cicero.fi](http://www.cicero.fi)). Through the Cicero Learning Network, it will contribute importantly to the multidisciplinary research on learning.

### Project website:

<http://innoschool.tkk.fi>



# InnoSchool

## The Innovative School Concept for the Future

1. phase 1.1.2007 – 30.6.2008

