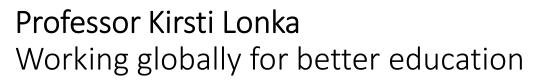
## Some reflections on Finnish schools and teacher education. The role of project based learning. Prof Kirsti Lonka

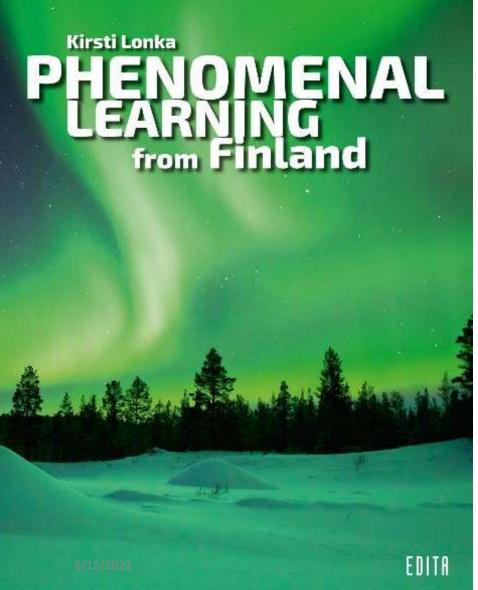
Twitter/IG @kirstilonka

kirstilonka.fi





- Kirsti Lonka is Professor of Educational Psychology at University of Helsinki, Finland, since 2005. She is Director of <u>Research Group of Educational Psychology</u>.
- You may see her citations on her Google Scholar profile and Web of Sciences
- Professional teacher trainer and a PhD in psychology. Founding member of Teachers' Academy (UH)
- Extraordinary Professor, Optentia Research Unit, North-West University, Vaal Triangle Campus, South Africa (2016-2022)
- Advisory Board Member of Graduate Institute of Digital Learning and Education, NTUST, Taipei (2015-)
- Current projects: digiconsumers.fi and growingmind.fi
- A popular keynote speaker around the world
- Author of *Phenomenal Learning from Finland* (Edita Publishing 2018), translated in many languages in 2020: Croatian, Korean, Thai, Spanish (Latin American Edition). Coming soon:
- Previously a Professor of Medical Education in Karolinska Institutet, Sweden and Honorary J.H. Bijtel professor of University Medical Centre Groningen, The Netherlands
- Member of United Nations Technology and Innovation Laboratory (UNTIL) Advisory Board, Education Sector in 2020-



## BY PROFESSOR KIRSTI LONKA!



THE BOOK WAS PUBLISHED IN ENGLISH 2018. Translated into many languages in 2020-2021, e.g. Spanish, Croatian, Korean, Thai, Chinese, Russian, Hindi



http://edita.editapublishing.fi/phenome nallearning



EDITA

# SUMMARY OF SOME BASIC FEATURES OF FINNISH TEACHERS AND TEACHER EDUCATION

- The level (MA) of teacher education has been highest in the world since 1970s, we are constantly developing our practices
- Attractive job: autonomous teachers, short school days, long holidays, relatively good salary, teachers are usually well-liked and respected
- The whole system is based on trust on the teachers and their high-quality education (no school inspections, schools put the national curriculum in practice)
- It is really difficult to get in, especially to class teacher programmes: 1500-2200 apply and only 120 are admitted in University of Helsinki (Ed Psych gets the best 20).
- Research-based teacher education: high-quality international research during the last 25 years -> Our Faculty of Education (Univ. of Helsinki) is now 22. in the world, and best in EU after Brexit (QS2021)

-> Many PhD candidates have a teacher education background

- Life long professional development
- TALIS2018: the problem in Finland that teachers are otherwise very good, but not very collaborative

# Move from traditional learning towards "Starbucks" culture.

Teachers and students of 21<sup>st</sup> Century have adopted digital technology and collaboration as a part of their own mental and social system. In the work place, people work in projects. Traditional spaces and practices are not longer serving their needs.









## What has happened during the last 25 years? From knowledge transmission into collaborative knowledge building.

7.6.96

#### Opiskelijoita käytetään kopiokoneina

VIERASKYNÄ



On tuhlausta käyttää opi

luikeita näkymi ppiskelijoide atteluun

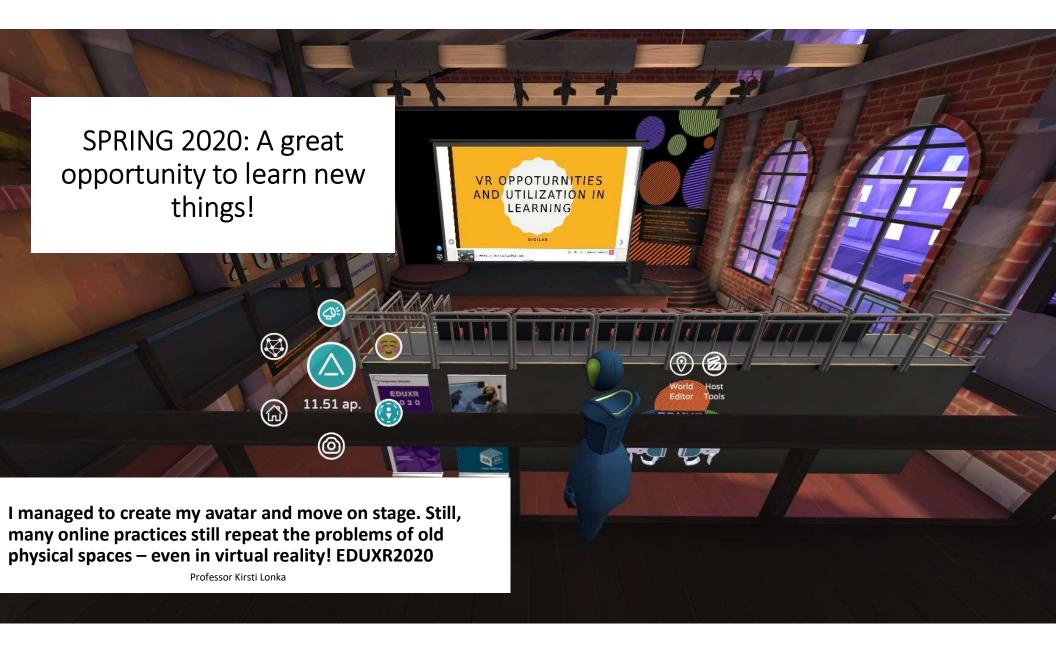


# Finnish schools?

- Student-centred approach, well-being, soft skills, teachers talk less than the students
- Low hierachy (power distance) in schools
- More process-oriented than product/performance oriented – No constant testing! No high stakes exams before the end of high school
- No dead ends during the academic career from preschool to university (no academic vs. vocational track)
- Schools decreasingly look like public spaces, they will be "cool" or homelike environments
- Trend: Ubiquitous digitalisation integrated to every aspect of space and all spaces can be modified on daily basis
- Schools differ from each other depending on the philosophy of each learning community











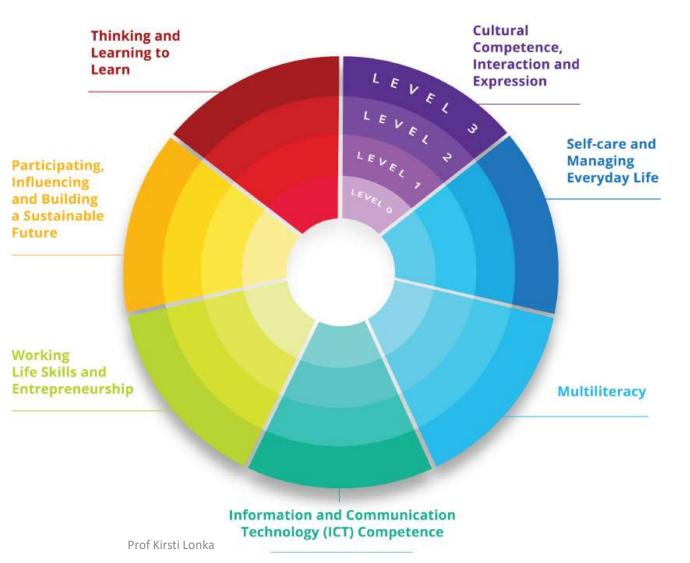
# Or can we move into new virtual/augmented worlds?

6/15/2021

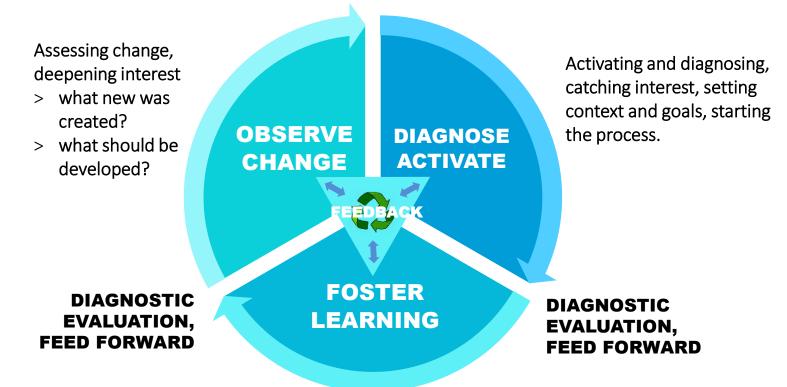
Prof. Kirsti Lonka

THE FINNISH 21ST CENTURY SKILLS integrated to the national K12 curriculum in addition to interdisciplinary (phenomenon-based) projects

The tool: Kirstilonka.fi /publications



#### ENGAGING LEARNING ENVIRONMENT (ELE) MODEL LONKA (2012; 2018) FOR PROJECT LEARNING THE GOAL, SUMMATIVE EVALUATION



Fostering the learning process and reflective thinking, maintaining interest, (face to face, P2P, virtually etc.), creating new knowledge or new practices

Copyright Kirsti Lonka 2018

## ENGAGING LEARNING ENVIRONMENT FOR FUTURE TEACHERS - MINERVA PLAZA

Integrates physical, social, virtual, mobile, pedagogical, and mental spaces of learning (Lonka, 2012)

Video by mikko.I.Halonen http://vimeo.Com/60818003

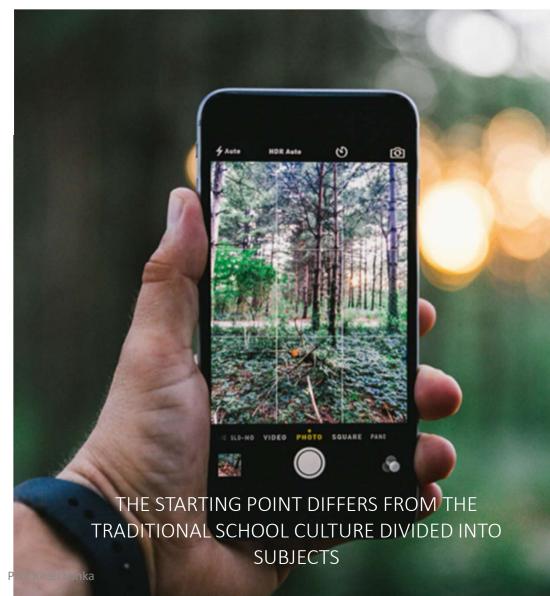
**SY** Sisäympäristö Indoor Environment

#### Typical of phenomenon-based learning (interdisciplinary projects) as a part of Finnish curriculum

1. Make use of THE NATURAL CURIOSITY of children and youth. Let them define the phenomenon. Not starting from individual subjects. There may be a given theme in the whole school, e.g. phenomena related to "forest"

2. **IMPORTANT FOR LEARNING 21ST CENTURY SKILLS** - what broad-based skills are included?

3. **THE PHENOMENA ARE STUDIED IN A HOLISTIC WAY.** - if possible, in their real authentic context. Only 1-2 projects per year. Most teaching still subject-matter based.



# Phenomenon-based, interactive and playful learning in teacher education

Arts, Handicrafts (textile & technical) Home economy, Sports & physical activity Music, Robotics Gamification, Animations, Playful learning, Latest technologies AR/VR



# Some challenges and solutions for Finnish teachers?

Our challenges in online learning at school

Kati Sormunen defended her thesis 29/5/2020 in science education. https://helda.helsinki.fi/handle/10138/314553

- In the future, we'll need to develop students' collaborative knowledge building with the help of digital devices and environments. Keeping up a community and socio-emotional learning is important in terms of mental health.
- In distance learning, the communication may be too teacher-centred or students study too much alone. Too often, digital devices are just addons, not a real part of learning. We need to develop new kind of pedagogy already in teacher training
- Using technology shall not change anything, if we are not developing new pedagogies and knowledge practices in teacher education.

### THE SEVEN MIRACLES OF FINNISH SCHOOLS

- I. BETTER RESULTS WITH LESS MONEY
- II. SHORT SCHOOL DAYS, LONG HOLIDAYS, AUTONOMOUS TEACHERS, PROVIDE AS GOOD RESULTS AS 12-HOUR DAYS IN EAST ASIA
- III. PLAYFUL LEARNING UNTIL THE AGE OF 7
- IV. TOP 5 RESULTS IN SCIENCE, EVEN THOUGH ARTS, MUSIC, HANDICRAFT, SPORTS AND HOME ECONOMY ARE MANDATORY
- V. INCLUSION: IN THE SAME CLASS, REFUGEES, SPECIAL NEEDS STUDENTS AND CHILDREN FROM ALL KINDS OF SOCIO-ECONOMIC STATUS
- VI. ONLY IN FINLAND TEENAGERS ARE AMONG TOP FIVE IN BOTH SCIENCE AND LIFE SATISFACTION (OECD2018)
- VII. DIGITAL LEAP, SCHOOL FUNDING CUTS, REFUGEE CRISIS AND NEW NATIONAL CURRICULUM AND STILL STRUGGLING WITH ALL THESE CHALLENGES!

# The Finnish approach to evaluation karvi.fi (FINEEC)

#### https://karvi.fi/app/uploads/2016/06/National-Plan-for-Education-Evaluations-2016-2019.pdf

The evaluations are organised with the purpose to

- 1. support the local, regional and national development and decisionmaking with regard to both the evaluation processes and the evaluation results;
- 2. improve the quality of education, the learning of the pupils and students and the work of the teaching staff; and
- 3. promote the attainment of the goals set for the renewal of the educational system and enhance the monitoring of the development of learning results.

# Here you can see that evaluation can be an engine for educational development, a dynamic tool for renewal.

#### WE DEVELOPED NEW ONLINE OR BLENDED ENVIRONMENTS FOR FINNISH TEACHERS AND FOR EDUCATION EXPORT

blogs.helsinki.fi/luovaope

# PHENOMENAL TEACHER EDUCATION

#luovaope

We created a platform for phenomenon-based learning for Finnish teachers UPDATED PEDAGOGY BASED ON ELE MODEL

#### 21st CENTURY SKILLSET

10111

We enhance teachers' understanding on what 21st century citizens need Blogs.helsinki.fi/luovaope (in Finnish with English Subtitles)



Student teachers create a phenomenon bank together

#### MODERN LEARNING ENVIRONMENTS

Copyright Kirsti Lonka 201

We utilize most up-to-date technologies to promote hybrid learning environments.

These are available internationally!

6/15/2021

# PHENOMENAL TEACHER TRAINING

Phenomenal Teacher Training Programme focuses on teachers' professional development. Participants will learn ideas behind modern evidence-based teaching methods and how to implement them in daily teaching.

The programme consists of several learning methods, including:

- Mini-lectures by professor Kirsti Lonka with specific learning objectives
- Webinars, workshops, constant online coaching and fast expert solutions
- Collaborative online participation with other teachers
- · Personal reflection and learning diary
- Designing new teaching practices and applying them with students in real life

The programme includes three online courses. If you are interested, please contact kimmo.karpijoki@hyplus.fi



Course 1:

#### Student-engaging Learning Practices

- ✓ Learn modern educational practices used by Finnish teacher trainers
- Maximise the number of interested and motivated students, who are truly engaged in learning



- ✓ Get the fundamental knowledge on how people learn
- ✓ Learn the essential elements of the human brain, memory, and learning that are relevant in designing high-impact instruction and teaching



Course 3:

Phenomenal Learning

- ✓ Learn what phenomenon-based learning is and how to design projects based on the idea
- ✓ Get tools on how to evaluate the readiness of implementing future skills

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