**LEARNING FUTURES**
– FUTURES OF LEARNING

8-9 June 2021, Online

**SESSION PROGRAMME**

The Main Conference Programme has been published at the webpages

https://futuresconference2021.com/

*Updated 31 May 2021*

**Tuesday 8th June**

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<td>WS: Experiencing words about futures</td>
<td>WS: Learning in complexity is walking a fine line: how anticipation for emergence can help us.</td>
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### Wednesday 9th June

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<td>Nature and environment in education: addressing sustainability and ecological pressures</td>
<td>Special Session – The future of learning, skills and work force in Finland until 2035</td>
<td>WS: Futures literacy for learning regions</td>
<td>WS: Learning Futures and the Role of the University in 2040</td>
<td>WS: A ‘new normal’? Applying a participatory CLA approach to examine metaphors and myths</td>
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<td>WS: Educating designers in designing futures – a workshop on teaching futures</td>
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Tuesday 8 JUNE 2021

Session I at 15:10-16:40

Rethinking Learning in Societal Transformations
Time: Tuesday 8 June at 15:10-16:40
Chair: Dr. Juha Kaskinen

The Learning Process in a Foresight Perspective
Tamás Gáspár
Budapest Business School, Hungary

Liquid Education
Fabienne Goux-Baudiment
ProGective, France

A personal reflection on learning and teaching futures studies
Christoph Keller
Aveniture GmbH, Germany

Futures research in learning and education
Time: Tuesday 8 June at 15:10-16:40
Chair: Dr. Maija Mäki

The Future of wellbeing in Higher Education
Lana Hiasat & Leilani Radaideh
aHigher Colleges of Technology, Dubai
bMaastricht University, The Netherlands

Education for Desirable Future: Collective Answers
Lidia Kremneva
Metaversity, Russia

Visions for Early Childhood Education and Care 2040. Foresight Process by Advisory Board on Early Childhood Education and Care
Anne Nieminen & Leena Jokinen
Finland Futures Research Centre, University of Turku

Food education
Pia Smeds
Natural Resources Institute Finland
Futures education and learning: pedagogy, skills and competences, forms of learning
Time: Tuesday 8 June at 15:10-16:40
Chair: Dr. Sofi Kurki

Design as part of the teaching of Future Studies: The Experience of the Latin American Voluntary Prospective Methodology and Design Schools
Fredy Vargas-Lama a & Alessandro Manetti b
a Center for Strategic Thinking and Foresight / Universidad Externado de Colombia, Colombia
b Istituto Europeo di Design, Spain

Designing desired futures
Minna Koskelo a & Anu Nousiainen b
a 11 Helsinki, Finland
b VTT, Finland

Learning from Yesterday’s Tomorrows: Extending the Futures Cone for Design Fiction
Anijo Mathew a, Shilpi Kumar b, Jessie Lujia Yu c & Rachel Huvard d
a American University of Sharjah, UAE
b Khoj Lab, U.S.A.
c IIT Institute of Design, U.S.A.

Co-creating Possible Futures of Light, beyond Lighting
Marco Bevolo a & Tapio Rosenius b
a Breda University of Applied Sciences, The Netherlands
b Lighting Design Collective and SKANDAL Technologies, Finland

Workshop: Experiencing words about futures
Time: Tuesday 8 June at 15:10-16:40
Facilitators: Mikko Dufva a & Tomi Slotte Dufva b
a The Finnish Innovation Fund Sitra, Finland
b Aalto University, Finland

Workshop: Learning in complexity is walking a fine line: how anticipation for emergence can help us
Time: Tuesday 8 June at 15:10-16:40
Facilitators: Loes Damhof, Elles Kazemier & Ramila Khafaji Zadeh
Hanse University of Applied Sciences, The Netherlands

Workshop: Futures start from within
Time: Wednesday 9 June at 13:40-15:00
Facilitators: Jussi Hölttä
Interbeing, Finland
Session II at 16:50-18:20

Rethinking learning in societal transformations
Time: Tuesday 8 June at 16:50-18:20
Chair: Dr. Petri Tapio

Rethinking Papert's Learning for Transformative Futures: An Autobiographical Research Approach
Amos Taylor
Finland Futures Research Centre, University of Turku, Finland

Identifying educators as brand ambassadors, designing the approach to mobilize them: a co-creative approach to inspire teachers to act as agents of change for environmental futures
Marco Bevolo\textsuperscript{a} & Jean-Oneli Blaise\textsuperscript{b}
\textsuperscript{a}Breda University of Applied Sciences, The Netherlands
\textsuperscript{b}Voice of the Youth St. Maarten, The Netherlands

Transposing Quantum Physics Determinants into Transformative Learning Solutions
Patrick Corsi
IKBM Spri, Belgium

Collaborative Foresight Network for Sustainability Development within Cruise Shipbuilding
Leena Jokinen\textsuperscript{a} & Tuire Palonen\textsuperscript{b}
\textsuperscript{a}Finland Futures Research Centre, University of Turku, Finland
\textsuperscript{b}University of Turku, Finland

Futures research in learning and education
Time: Tuesday 8 June at 16:50-18:20
Chair: Dr. Maria Höyssä

Participatory future-creating methods applied in university courses - example of the use of Foresight; Backcasting and Horizon Scanning
Judit Gáspár, Éva Hideg & Alexandra Köves
Corvinus University of Budapest, Hungary

Erasmus project Foresight, five universities working together for a desirable Future of Europe
Monica Veeger\textsuperscript{a}, Irati Agirreazkuenaga\textsuperscript{b}, Oguz Demir\textsuperscript{c}, Vilmos Vas\textsuperscript{d}, Ferenc Kiss\textsuperscript{e} & Gie Segers\textsuperscript{e}
\textsuperscript{a}Fontys University of Applied Sciences, The Netherlands
\textsuperscript{b}Universidad del Pais Vasco, Spain
\textsuperscript{c}Istanbul Ticaret Universitesi, Turkey
\textsuperscript{d}Budapest Metropolitan University, Hungary
\textsuperscript{e}KdG University for applied Sciences and Arts, Belgium

Foresight Skills for Education – Experiences and Future Prospects
Tarja Meristö & Jukka Laitinen
Laurea University of Applied Sciences / FuturesLab CoFi, Finland
Building a Competence Identity in IT-field
Leena Toivanen & Hanna Lahnalampi
Centria University of Applied Sciences, Finland

Research methods and theoretical approaches in futures studies
Time: Tuesday 8 June at 16:50-18:20
Chair: Dr. Burkhard Auffermann

What can be learnt from participatory food system scenario and vision literature?
Titta Tapiola & Vilja Varho
Natural Resources Institute (LUKE), Finland

Association of common megatrends and business strategies by Finnish dairy farmers
Susanna Lahnamäki-Kivelä & Tuomas Kuhmonen
Natural Resources Institute (LUKE), Finland

Farmers’ futures – a novel Delphi application combining qualitative and quantitative grassroots future views
Jaana Sorvali, Vilja Varho, Janne Kaseva & Pasi Rikkonen
Natural Resources Institute (LUKE), Finland

Taming the wild bunch – the role of moderation in mushroomers’ peer learning social media group
Minna Santaoja
Finland Futures Research Centre, University of Turku, Finland

Societal transformation beyond learning
Time: Tuesday 8 June at 16:50-18:20
Chair: Dr. Katriina Siivonen

Heritage futures as ways towards sustainability
Katriina Siivonen
Finland Futures Research Centre, University of Turku, Finland

Total heritage: learning futures of grasping the inherited present
Kastytis Rudokas, Indrė Gražulevičiūtė-Vilėniškė & Silvija Čižaitė-Rudokienė
Kaunas University of technology, Lithuania, Vytautas Magnus University, Faculty of Catholic Theology, Lithuania

Emergentist education and the opportunities of radical futurity
Susanna Barrineau, Laila Mendy & Anne-Kathrin Peters
Uppsala University, Sweden

Futures images - A systematic literature review
Marileena Mäkelä, Marjukka Parkkinen & Petri Tapio
Jyväskylä University, Finland, Finland Futures Research Centre, University of Turku, Finland
**Workshop: Futures Literacy and Organizational Leadership**
Time: Tuesday 8 June at 16:50-18:20
Facilitator: Deborah Schreiber
Brandman University, USA

**Workshop: Rethinking Futures – An exercise in speculation to (re)gain transformative spaces**
Time: Tuesday 8 June at 16:50-18:20
Facilitators: Wenzel Mehnert\(^a\) & Nele Fischer\(^b\)
\(^a\)University of Arts, Berlin, Germany
\(^b\)Berlin Ethics Lab, Technische Universität Berlin, Germany

**Workshop: Teach the Future, Update 2020**
Time: Tuesday 8 June at 16:50-18:20
Facilitators: Peter Bishop\(^a\) & Lourdes Rodriguez\(^b\)
\(^a\)Teach the Future, USA
\(^b\)Teach the Future, Spain

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**Session III at 18:30-20:00**

Research methods and theoretical approaches in futures studies
Time: Tuesday 8 June at 18:30-20:00
Chair: Dr. Veli Virmajoki

**The General Frame of Consistence as learning-based philosophy of scientific futures research**
Osmo Kuusi
Finland Futures Research Centre, University of Turku, Finland

**Meta-Cognitive Sensitivity in Disjunctive Reasoning for Intentional Imagery**
Peter Österberg
Department of Economics and Management, University of Helsinki, Finland

**Futures Consciousness increases resilience during crises: Experiences from the UK during the COVID-19 pandemic**
Sanna Ahvenharju\(^a\), Matti Minkkinen\(^a\), Fanny Lalot\(^b\), Dominic Abrams\(^b\)
\(^a\)Finland Futures Research Centre, University of Turku, Finland
\(^b\)School of Psychology, University of Kent, UK

**There was a strange stillness – auditory ambiences for imagining futures**
Learning as systemic capability: Learning regions and innovation systems
Time: Tuesday 8 June at 18:30-20:00
Chair: Leena Jokinen, Education Manager, Finland Futures Research Centre

Energizing Collaborative Industry-Academia Learning: A Present Case and Future Visions
Petri Kettunen¹, Janne Järvinen², Tommi Mikkonen¹ & Tomi Männistö¹
¹University of Helsinki, Department of Computer Science, Finland
²Legisperus, Espoo, Finland

Futures Literacy for TVET: Activity-Based Learning Model “Open Foresight Laboratory 3.0”
Tatiana Yakubovskaya
Tampere Vocational College Tredu, Finland
National Research Tomsk State University, Russia

Development of Future Capabilities in Alliances, Acquisitions and Mergers
Risto Sivonen
Turku School of Economics, University of Turku, Finland

Special Session: Futures Education in Finland: Case Studies
Time: Tuesday 8 June at 18:30-20:00
Facilitators: Sari Miettinen & Johanna Ollila
Finland Futures Research Centre, University of Turku, Finland

Workshop: Poetry as a Method for Futures Literacy: Verses of Longtermism
Time: Tuesday 8 June at 18:30-20:00
Facilitators: Anna Sacio-Szymańska¹⁰, Essi Silvonen¹⁰, Nick Balcom Raleigh¹⁰, Amos Taylor¹⁰, Noora Vähäkari¹⁰ & Solveig Zophoniasdottir¹⁰
¹⁰4CF Strategic Foresight, Warsaw, Poland
¹⁰Finland Futures Research Centre, University of Turku, Finland
¹⁰Climate-KIC, Denmark

Workshop: Education for the future: intergenerational collective thinking future labs to improve school strategy
Time: Tuesday 8 June at 18:30-20:00
Facilitator: Lidia Kremneva
Metaversity, Russia

Workshop: Anticipatory Systems and the Futures of Learning
Time: Tuesday 8 June at 18:30-20:00
Facilitator: Riel Miller
UNESCO, France
WEDNESDAY 9 JUNE 2021

Session IV at 12:10–13:30

Rethinking learning in societal transformations
Time: Wednesday 9 June at 12:10–13:30
Chair: Dr. Sari Puustinen

Four Cities, Four Speculations: Using Design Fiction to imagine New Urban Futures
Anijo Mathew
American University of Sharjah, UAE

Teaching Urban Sustainability Transitions and Futures: Pedagogical Hiccups Across Systems of Used-Futures
Idil Gaziulusoy
Aalto University, Finland

Landscape Architecture as a Transformative Force for Greener Cities Under Stress
Ana Jones
Finland Futures Research Centre, University of Turku, Finland

Learning to be prepared by imagining the future: the built environment context
Lassi Tähtinen, Anahita Rashidfarokhi & Saija Toivonen
Aalto University, Finland

Digitalisation of Learning Environments
Time: Wednesday 9 June at 12:10–13:30
Chair: Dr. Juha Kaskinen

Bringing the future of learning into classrooms: Robot-assisted language learning
Liisa Peura, Outi Veivo, Minna Maijala, Maarit Mutta and Marjut Johansson
School of Languages and Translation Studies, University of Turku, Finland

Analysing digital tools in future learning environments
Signe Juhl-Nørgaard\textsuperscript{a} & Thomas Sørensen\textsuperscript{b}
\textsuperscript{a}University of Helsinki, Finland
\textsuperscript{b}Edukat, Denmark

Artificial Intelligence Providing New Tools for Learners – a Finnish Case of the Innovation Ecosystem
Hannele Niemi & Päivi Kousa
University of Helsinki, Finland
Nature and environment in education: addressing sustainability and ecological pressures  
Time: Wednesday 9 June at 12:10–13:30  
Chair: Dr. Marileena Mäkelä

Futures literacy for deliberate whole system transformation  
Nick Balcom Raleigh, Riel Miller, Kim Riyong, Anna Sacio-Szymańska, Amos Taylor, Essi Silvonen, Noora Vähäkari & Beata Poteralska  
^aFinland Futures Research Centre, University of Turku, Finland  
^bUNESCO, France  
^cEIT Climate-KIC, Denmark  
^d4CF Strategic Foresight, Poland  
^eŁukasiewicz Research Network - Institute for Sustainable Technologies, Poland

Subjectification, transformative learning and futures literacy – rethinking education for sustainable development  
Erkka Laininen & Otto Tähkäpää  
^aOKKA Foundation for Teaching, Education and Personal Development, Finland  
^bTulevaisuuskoulu, Finland

The skills of the 4th industrial revolution at the service of sustainable development: The case of Spain and Latin America  
Fredy Vargas-Lama, Francisco Mojica, Francisco López-Segrera & Viviana Villarraga  
Center for Strategic Thinking and Foresight, Universidad Externado de Colombia

Special Session: The future of learning, skills and workforce in Finland until 2035  
Time: Wednesday 9 June at 12:10–13:30  
Facilitator: Jukka Vepsäläinen, EDUFI Finnish National Agency for Education

Introduction  
Jukka Vepsäläinen  
Senior advisor, FORESIGHT Team, EDUFI

The Delphi Process of the National Forum for Skills Anticipation  
Jukka Vepsäläinen  
Senior advisor, FORESIGHT Team, EDUFI

Anticipation of the skills needs and educational needs in Finland  
Kari Nyyssölä  
Head of FORESIGHT Team, EDUFI

Finnish schools and education government exploring complexity together  
Anneli Rautiainen & Paula Tyrväinen  
Innovation and Development, EDUFI
Workshop: Futures Literacy for Learning Regions
Time: Wednesday 9 June at 12:10-13:30
Facilitator: Tatiana Yakubovskaya
Tampere Vocational College Tredu, Finland
National Research Tomsk State University, Russia

Workshop: Learning Futures and the Role of the University in 2040
Time: Wednesday 9 June at 12:10-13:30
Facilitator: Maree Conway
Foresight Futures, Australia

Workshop: A ‘new normal’? Applying a participatory CLA approach to examine metaphors and myths
Time: Wednesday 9 June at 12:10-13:30
Facilitator: Joni Karjalainen
Finland Futures Research Centre, University of Turku, Finland

Session V at 13:40–15:00
Futures education and learning: pedagogy, skills and competences, forms of learning
Time: Wednesday 9 June at 13:40-15:00
Chair: Dr. Katriina Siivonen

Learning futures thinking via flipped learning – experiences with international forest science students
Teppo Hujala
School of Forest Sciences, University of Eastern Finland, Finland

Science education for developing students' futures thinking and agency
Antti Laherto & Tapio Rasa
University of Helsinki, Finland

It's all a game - Ready to play on the campus of the future?
Thomas Mengel
University of New Brunswick, Canada

The future of personalized education - The philosophical and practical problems to be solved
Hanna Willman-Iivarinen
Häme University of Applied Sciences, Finland
Special Session: Beyond Industry 4.0 Curriculum: Challenges of Multi-contextual Learning World
Time: Wednesday 9 June at 13:40-15:00
Facilitator: Jari Kaivo-oja, Mikkel Stein Knudsen & Theresa Lauraeus
Finland Futures Research Centre, University of Turku

Educating for futures of work with direct human-robot interaction: Insights on future skills needs based on a literature review of cobot literature
Mikkel Stein Knudsen, Jari Kaivo-oja & Theresa Lauraeus
Finland Futures Research Centre, University of Turku, Finland

Special Session: The role and benefits of learning futures orientation in the private sector
Time: Wednesday 9 June at 13:40-15:00
Chair: Dr. Sanna Ketonen-Oksi
Laurea University of Applied Sciences, Finland

Introduction to Theme
Sanna Ketonen-Oksi
Laurea University of Applied Sciences, Finland

Foresight in entrepreneurial opportunity
Ksenija Djuricic
EM Strasbourg Business School, France
Finland Futures Research Centre, University of Turku, Finland

Teaching future-oriented entrepreneurship in the age of digitization
Anna Sacio-Szymańska, Stefanie Ollenburg, Leonello Trivelli, Anna Kononiuk, Ibon Zugasti & Anna Pająk
4CF Strategic Foresight, Poland
Free University Berlin, Institut Futur, Germany
Pisa University, Italy
Bialystok University of Technology, Poland
Prospektiker, Spain
Łukasiewicz Research Network - Institute for Sustainable Technologies, Poland

Developing organisational futures orientation – a process of continuous learning and transforming
Sanna Ketonen-Oksi
Laurea University of Applied Sciences, Finland

Workshop: Changing Thinking Hats for Brain based Problem Solving
Time: Wednesday 9 June at 13:40–15:00
Facilitator: Vindhya Singh
Centre for Preparatory Studies, Sultan Qaboos University, Oman
Workshop: Facilitating Identity Work in Futures Literacy training programs
Time: Wednesday 9 June at 13:40-15:00
Facilitators: Petra H.M. Cremers & Jitske Gulmans
Hanze University of Applied Sciences, the Netherlands

Mastering Futures Literacy: Rethinking teaching in societal transformations
Elles Kazemier, Loes Damhof, Jitske Gulmans & Petra Cremers
Hanze University of Applied Science, The Netherlands

Workshop: Innovation Labs as Learning Platforms: Designing Future-oriented Strategies and Interventions for Accelerated Learning
Time: Wednesday 9 June at 13:40-15:00
Facilitators: Riikka Manninen & Heljä Franssila
Senate Properties, Finland

Session VI at 15:30–17:00

Learning as systemic capability: Learning regions and innovation systems
Time: Wednesday 9 June at 15:30–17:00
Chair: Dr. Jarmo Vehmas

Learning with off-grid solar energy in the Global South – market leapfrogging or strengthening the base?
Joni Karjalainen
Finland Futures Research Centre, University of Turku, Finland

Tourism and Futures: A “greensight” perspective into microentrepreneurship-based tourism in environmentally-sensitive areas: the case of Dota County in Costa Rica
Ana Jonesa & Daniel L. Avendaño b
aFinland Futures Research Centre, University of Turku, Finland
bUniversidad Nacional, Costa Rica

Data literacy as a systemic capability for European growth corridors
Ira Ahokasa, Helka Kalliomäki b & Nick Balcom Raleigh a
aFinland Futures Research Centre, University of Turku, Finland
bSchool of Management, University of Vaasa, Finland

Foresight model for understanding South Savo future skills needs
Antti Rajala & Hanna Kautiainen
South Savo Regional Council, Finland
Special Session: Sources and risks of digital transformation
Time:       Wednesday 9 June at 15:30–17:00
Chair:     Dr. Osmo Kuusi

Introduction to theme of the Session
Osmo Kuusi
Finland Futures Research Centre, University of Turku, Finland

The Transition from Artificial Narrow Intelligence to Artificial General intelligence will
change Learning and Education
Jerome C. Glenn
The Millennium Project, USA

Followed by comments and discussion by Osmo Kuusi

How can we learn from Nature to proactively procure the built environment as resilient
against crises? Bio-economy driving digital meanings society
Sirkka Heinonen
Finland Futures Research Centre, University of Turku, Finland

Technology Acceleration and the Future of Humanity in The Fourth Industrial Revolution
Felipe Arocena
Universidad de la República, Uruguay

Workshop: Introducing Futures Consciousness and testing the Futures
Consciousness Profile Database
Time:       Wednesday 9 June at 15:30–17:00
Facilitators: Sanna Ahvenharju, Matti Minkkinen & Martyn Richards
Finland Futures Research Centre, University of Turku, Finland

Workshop: Wabi Sabi Game - Experience to understand the transformation era
Time:       Wednesday 9 June at 15:30–17:00
Facilitators: Martijn Derksen, Harm van den Wijngaard & Anne Nabuurs
Fontys University of Applied Sciences, The Netherlands

Workshop: Riddle of the Spirit: Imaginative and multimodal pedagogy for
young children’s climate change education
Time:       Wednesday 9 June at 15:30–17:00
Facilitators: Chin-Chin Wong, Jenny Byman & Jenny Renlund
University of Helsinki, Finland

Workshop: Educating designers in designing futures – a workshop on teaching
futures
Time:       Wednesday 9 June at 15:30–17:00
Facilitator: Stefanie Ollenburg
Freie Universitaet Berlin, Germany
**Chaired Poster Session**

Time:  Wednesday 9 June at 17:15–18:15  
Chair:  Dr. Juha Kaskinen

**AI for all: Accessible and Inclusive AI in Future Educational Contexts**  
Tero Avellan  
Tampere University, Finland

**Middle School Futures Club: Serious-minded fun to build students’ futures literacy, critical thinking, and collaboration skills**  
Bes Baldwin, University of Houston Foresight, U.S.A

**Circular economy needs more comprehensive and inclusive status at Finnish universities of applied sciences**  
Kari Laasasenaho\(^a\), Risto Lauhanen\(^a\), Aino Voutilainen\(^b\), Tarja Moilanen\(^b\), Kirsi Knuuttila\(^b\), Jenni Suominen\(^c\), Piai Nurmi\(^c\), Sanna Tyni\(^c\) & Pentti Viluksela\(^a\)  
\(^a\)Seinäjoki University of Applied Sciences, Finland  
\(^b\)JAMK University of Applied Sciences, Finland  
\(^c\)Turku University of Applied Sciences, Finland  
\(^d\)Lapland University of Applied Sciences, Finland  
\(^e\)Metropolia University of Applied Sciences, Finland