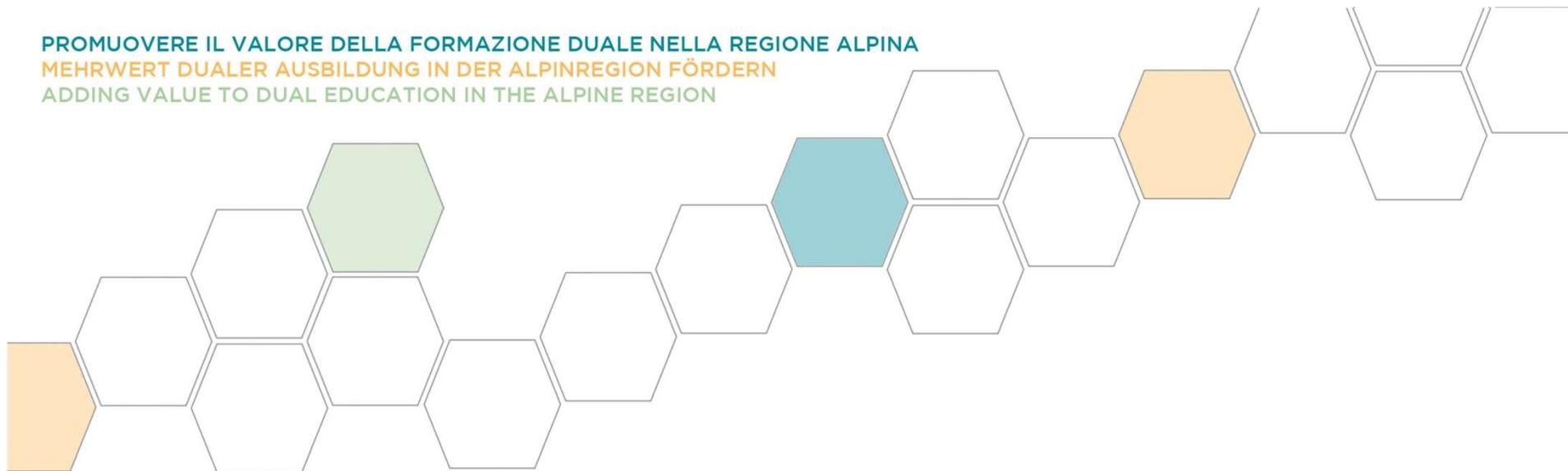


PROMUOVERE IL VALORE DELLA FORMAZIONE DUALE NELLA REGIONE ALPINA  
MEHRWERT DUALER AUSBILDUNG IN DER ALPINREGION FÖRDERN  
ADDING VALUE TO DUAL EDUCATION IN THE ALPINE REGION



# Futures Literacy - For education and skills

Markku Wilenius

Professor, UNESCO Chair in Learning Society & Futures of Education,  
University of Turku

**16.10.2019**

FONDAZIONE BRUNO KESSLER  
POVO (TRENTO) - ITALY

**3. FORUM**

della Formazione Duale nella Regione Alpina  
über die Duale Ausbildung in der Alpenregion  
on Dual Education in the Alpine Region





# *Anticipate Future Jobs on Alpine Remote Areas*



This project is co-financed (ARPAF funds) by the European Union

# Futures research over 20 years...



- Professor at Finland Futures Research Centre at the university of Turku
- Unesco chair in learning society and futures of education
- Senior Vice President/head of strategic research at Allianz SE / Munich, Germany from Dec 2007 to Nov 2009
- President of two foundations
- Partner in several start-up companies
- Member of the Club of Rome
- Books, articles, interviews, TV-programs...

# UNESCO Chair in Learning Society & Futures of Education 2016-2020



**Goal:** To make use of tools of futures research to eradicate global poverty and improve human well-being globally

**Means:** Research, education and development activities focusing on global capacity building for futures thinking (individual futures literacy)

**Outcome:** Individuals with higher level of futures literacy = more future literate society



United Nations  
Educational, Scientific and  
Cultural Organization



UNESCO Chair in Learning Society  
and Futures of Education,  
University of Turku, Finland



FINLAND FUTURES  
RESEARCH CENTRE

is one of the few  
university departments  
devoted to futures  
research in the world

FFRC is a department within the  
**Turku School of Economics** at  
the University of Turku

FFRC works with a  
**transdisciplinary approach** in an  
**international environment**

**FFRC's primary activities are:**

- Developing academic futures studies
- Critical interdisciplinary research
- High quality education
- Strategic and business foresight
- Producing insightful futures knowledge

All of FFRC's primary activities are  
**focused on the promotion of a**  
**sustainable future**  
that is economically efficient, socially  
secure, fair, and culturally  
representative of diverse global  
societies

# Education and Social Learning Initiatives

Degree and Training Programs



Professional Education and Organizational Learning



Futures Guidance Projects



UNESCO Chair and Transnational Education



# Master's Degree Program in Futures Studies



## Futures Studies is a Major subject at the Turku School of Economics

consisting of an international Master's Degree Programme in Futures Studies (120 ECTS credits) as well as post-graduate studies

The programme includes plenty of rehearsal, case-studies and real-life experiences in using futures research methodologies

These range from quantitative and qualitative methods to innovative and creative futures design techniques, establishing a **versatile toolkit for implementing foresight**

FFRC also coordinates a multidisciplinary **Sustainable Development Study Module** for the students of the University of Turku

# UNESCO Chair in Learning Society and Futures of Education



University of Turku has been granted a four-year Chair in Learning Society and Futures of Education (2016-2020) by the United Nations Educational, Scientific, and Cultural Organization

UNESCO Chairs build bridges between academic research, civil society, and political decision-making

The aim of the Chair is to **use the tools of futures research to eradicate global poverty** and improve human well-being in developing countries

This mission is carried out through **research, education and development** activities focusing on **global capacity building for futures thinking** (or futures literacy).



# WHY FUTURES STUDIES?



# IMPORTANCE OF FUTURES STUDIES

*"No wind is favorable to the one who does not know where he/she is heading for"*

Seneca 4 BC - 65 AD



**Action without a vision is purposeless.  
Vision without a strategy or action is useless.**



Turun yliopisto  
University of Turku

## PENTTI MALASKA, THE FOUNDING FATHER OF FINNISH FUTURES STUDIES

***“The only future threat we face is our own ignorance: there’s nothing we can do about what’s inevitable, but ignorance prevents us from recognizing this and on the other hand from doing what we could do to prevent what is preventable, or from doing what we could accomplish. For this reason and this reason only – to dispel ignorance – futures research has a legitimate place.”***





Turun yliopisto  
University of Turku

## MAIN TASK OF FUTURES STUDIES

- The main task is to empower social change by liberating our thinking about alternative futures
- The most important quest for futures studies is to investigate, invent and analyse *preferred*, aspirational futures

**Prof. Jim Dator**, University of Hawai'i  
Research Center for Futures Studies



# How do you use the future?



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University of Turku, Finland



UNIVERSITY  
OF TURKU

Futures literacy = The ability to use future in the present (Miller, R. 2018)

The decisions and actions **right now**

How to use future in the creative and critical way

Concepts, images and expectations about the **future**

Proactive futures  
mindset

# Futures Literacy

Resilience

## Cognitive Capacity

Systems thinking

Key trends and  
contingencies

Temporal thinking

Complexity thinking

## Emotional Capacity

Self-knowledge:  
feelings, expectations,  
attitudes

Emotional intelligence

Social awareness

Intuitive perception

## Active skills

Planetary living skills (me + the surrounding physical  
world)

Complexity skills (me + the surrounding societal  
structures)

Creativity skills (me + my inner world)

Empathy skills (me + the people around me)

# How do I teach futures literacy?

# Futures approach can be built in schools by

- **Using futures methodologies in different subjects**
  - In many topics (history, biology, social studies etc) future aspect is a subtopic of its own that can be deepened using futures education methods.
- **By creating a course of its own**
  - This course can give various approaches to future: technology, food, climate etc that are then collected under one umbrella.
- **By integrating futures approach to all activities in the school**
  - A deeper future orientation is connected to all teaching/learning curriculum in the school and to every pupil's individual study plan.



# How to teach futures literacy

## Objectives for futures learning

- Proactive stance towards future
- Personal resilience
- Understanding the changes at various levels
- One's own responsibility and goal for life
- Creative and critical attitude towards futuresiuteen
- |

## Teaching methods

- Futures images and vision
- Alternative scenarios
- Environmental scanning
- Virtual and physical games
- Artistic methods
- Stories, letters and narratives

## Examples of some topics

- Temporal dimensions: past-present-future
- The change dynamics
- Possible, probable and desired futures
- Self-reflection and finding own values
- Systems and complexity thinking
- Visionary knowledge and leadership

## Various approaches: individual, community, national, regional global, global



Micro  
Personal future



Meso  
The future of my community



Macro  
Global futures

## Lauttasaari secondary school

**Self-awareness:** Own time horizon,  
alternative pathways to future

**Sense of time:** The next episode in human  
history

**Health :** The conditions for good health in  
the future

**Geography:** Demographic change

**Biology:** genes

### Visitors and Visits

- Antti Merilehto on artificial intelligence
- Lauri Reuter on food
- Design-museum platform: California -  
Design freedom

*"I really learn a lot of new things  
and I gained new insights to my  
thinking. Course was extremely  
useful for me "*

A pupil of the class



# Porkkala secondary school

**History:** People's perceptions of future in different times (ie fears and opportunities)

**Social studies:** The of future in the societal decision making; the future of democracy.

**Art courses:** Future and technology in the art (paintings, movies and literature).

**New technologies:** prospects and threats

## **Academic futures studies**

### **Visits:**

- Parliamentary committee on future
- Finland Futures Research Centre

*"The course made me to think about future in the longer term and it changed my ideas about future more positive. This was really interesting course with a lot of new thoughts"*

-A pupil of the class



*Tulevaisuutta ei voi ennustaa,  
sitä ei ole ennalta määrätty, mutta siihen voi vaikuttaa.*



Kurssin opiskelijat vierailivat Turun yliopiston tulevaisuuden tutkimuskeskuksessa. Kuvassa opiskelijoiden lisäksi Laura Pouru ja professori Markku Wilenius Tulevaisuuden tutkimuskeskuksesta.

Mobile learning course on futures literacy in co-operation with mobile learning platform Funzi



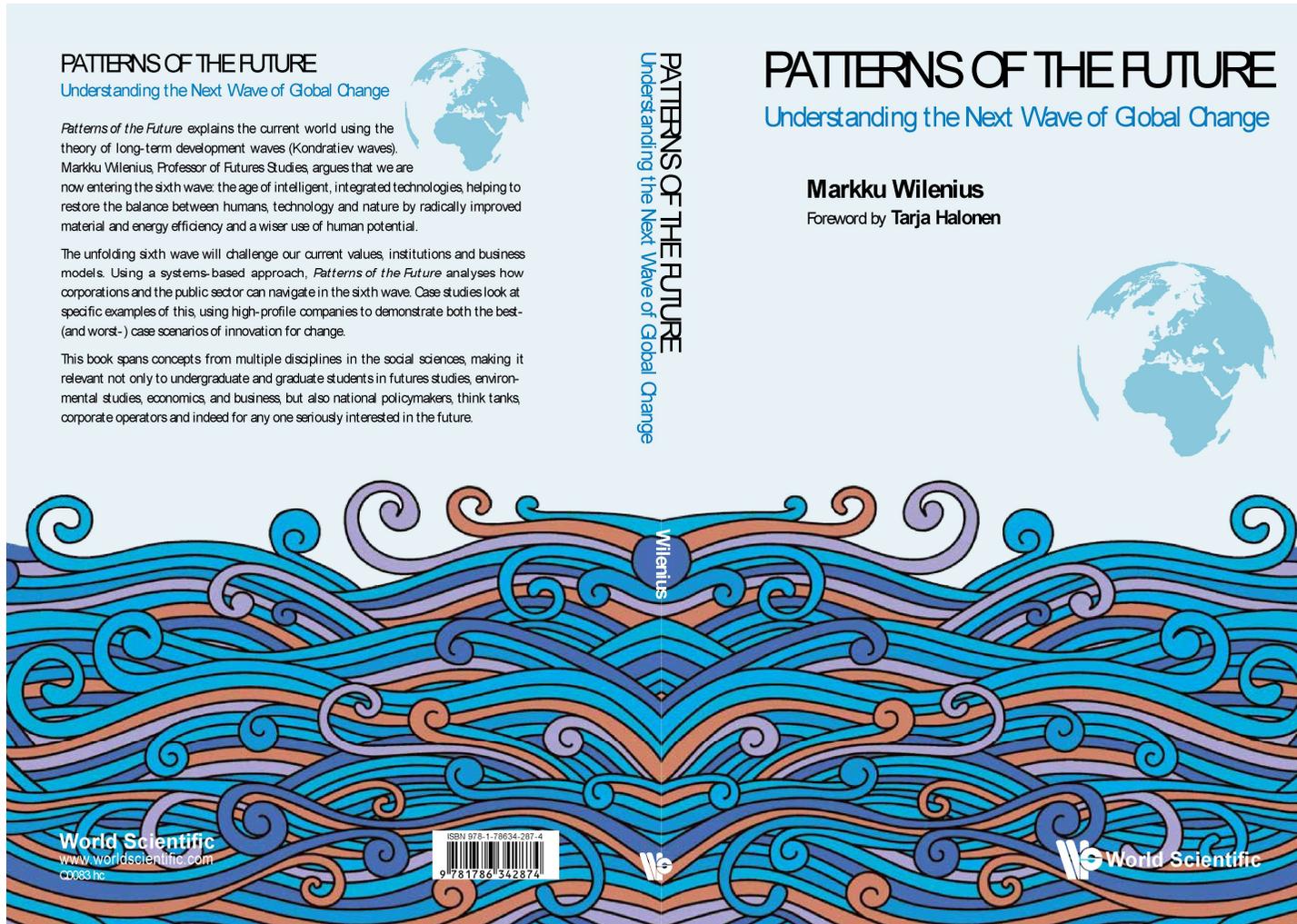
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More in here...



Good luck!  
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