

# 29.9. TUESDAY

## REDEFINING SUSTAINABILITY FOR URBAN FUTURE

### VIRTUAL WDBE 2020



All times shown are EEST

09:30–10:00

**EXPLORING THE "ILLUSION CITY"**  
(SHOWROOM AND MATCHMAKING)

10:00–10:30

**HELSINKI WELCOMING SHOW**

10:30–11:30

**KEYNOTE SESSION 1:  
REDEFINING SUSTAINABLE ARCHITECTURE AND DIGITAL INTERACTION**

David Weir-McCall (UK), AEC Strategic Business Development, Epic Games  
Jakob Strømmandersen (DEN), Partner and Head of Sustainability Engineering Department, Henning Larsen

11:30–12:30

**EXPLORING THE "ILLUSION CITY"**  
(SHOWROOM AND MATCHMAKING)

12:30–13:30

**WORKSHOP:  
UNREAL ENGINE WORKSHOP BY EPIC GAMES**

13:30–14:30

**PARTNER SESSIONS**

1: Dutch Embassy 2: TwinValue 3: Smart Otaniemi

14:30–15:30

**KEYNOTE SESSION 2:  
REDEFINING SUSTAINABLE QUALITY OF LIFE**

Marta Fernandez (ESP), Executive Director, RMIT Europe  
Annalise Johns (UK), Housing Lead, Connected Places Catapult

15:30–16:00

**EXPLORING THE "ILLUSION CITY"**  
(SHOWROOM AND MATCHMAKING)

16:00–18:00

**COMMUNITY SESSIONS**

**SESSION 1:  
REDEFINING SUSTAINABLE DESIGN**

**Future buildings - Green & Smart?**  
Mika Kovanen, Ramboll Finland

**Virtual Energy Urban Community as an enabler of clean energy urban transformation** Francesco Reda, VTT

**mySMARTLife – Open Energy Data Ecosystem as a Driver for Carbon Neutrality**  
Maria Viitanen, City of Helsinki

**Sustainable Design: From Bioclimatic to Regenerative Digital Design**  
Arlind Dervishaj, BIM A+

**Managing environmental data and BREEAM requirements in BIM**  
Alexander MacNally, Cobuilder

**Lean2Cradle® Material Passport - Digitizing Buildings to activate their circular value**  
Gemma Canals, Eco Intelligent Growth

**Utilizing the LCA calculations using BIM** Ahmed Hussein, Metropolia University

**SESSION 2:  
REDEFINING VIRTUAL DESIGN PROCESS**

**Proof of Concept for a BIM based permit checking environment in Estonia**  
Rick Klooster, Future Insight

**Integrated 3D digital city publisher & data collector for companies & municipalities**  
Petri Kokko, Sova3D Oy

**BIM for massive wood, straw bale, and clay**  
Conor Shaw, Shaw Architectural Solutions

**Co-creating and collaborating with partners to increase the efficiency and transparency** Mika Kupila, HEAL / Trä Digital Oy

**Automated design project manager**  
Kermo Mägi, 3D Web OÜ

**Rethinking structural engineering process**  
Petteri Karjalainen, A-Insinöörit

**Case Hospital Nova: How BIM and VR are critical in healthcare projects**  
Alexander Le Bell, Tridify Limited

**SESSION 3:  
REDEFINING URBAN WELL-BEING**

**Principles of a sustainable city: platform + transparent + data-driven**  
Natalia Rincón, CHAOS (CHAOS architects Oy)

**Smart Communicative City Planning: Towards People-Centered Built Environment with Digital Methods** Pilvi Nummi, Aalto University

**Redefining the citizen engagement as an ecosystem of data linked to locations**  
Maarit Kahila, Mapita Oy / Maptionnaire

**How to achieve inclusive sustainability, case Espoo**  
Elina Wanne, City of Espoo

**Virtual co-creation platform for urban planning**  
Petri Kangassalo, Aalto University

**Future of Work**  
Tom Lindholm, YIT

**SESSION 4:  
REDEFINING HEALTHY HOUSING**

**How does the megatrend of individualism effect the behavior of real estate customers** Harri Majala, GBuilder

**Spaces configurator to facilitate environmental and health requirements**  
Berit Virtanen-Thewlis, Trä Digital Oy

**Digital analysis of residential architectural qualities**  
Kaj Granath, Chalmers University of Technology

**Climate wise housing cooperatives**  
Visa Kivisaari, Green Building Council Finland

**Prefabricated modular insulation elements for the deep energy renovation of existing building stock** Targo Kalamees, Tallinn University of Technology

**How Artificial Intelligence can save energy and increase indoor comfort at the same time** Imre-Gustav Vellamaa, R8tech

18:00–18:10

**DAY 1 CLOSING WORDS**



# 30.9. WEDNESDAY

## REDEFINING SUSTAINABILITY FOR URBAN FUTURE

### VIRTUAL WDBE 2020



All times shown are EEST

09:30–10:00

**EXPLORING THE "ILLUSION CITY"**  
(SHOWROOM AND MATCHMAKING)

10:00–10:30

**TALLINN WELCOMING SHOW**

10:30–11:30

**KEYNOTE SESSION 3:  
REDEFINING SUSTAINABLE ROLE OF TECHNOLOGY**

Peter Vesterbacka (FIN), Founder, FinEst Bay Area Development  
Kathrin Dörfler (GER), Assistant Professor, TU Munich

11:30–12:30

**EXPLORING THE "ILLUSION CITY"**  
(SHOWROOM AND MATCHMAKING)

12:30–13:30

**PARTNER SESSIONS**

4: Platform of Trust



5: WWF Life EconomisE



6: DiCtion



13:30–14:00

**EXPLORING THE "ILLUSION CITY"**  
(SHOWROOM AND MATCHMAKING)

14:00–16:00

**COMMUNITY SESSIONS**

**SESSION 5:  
REDEFINING TECHNOLOGY ADOPTION**

Blockchain in real estate and construction

Alireza Khalafi, Swiss Association Of Crypto Investors

AI transformation in engineering - building the right competencies after COVID-19 crisis  
Janne Liuttu, Ramboll

Co-creation of Digital road map - step by step from vision to practice  
Suvi Nenonen, University Properties of Finland Ltd

Dynamic systems view on built environments and their digitalization across the globe  
Pekka Huovinen, Business Management PJH

BIM-Futures - Capacity-building professional development  
Mark Kelly, Galway-Mayo Institute of Technology

How Datahub enabled COVID-19 impact follow-up on construction sites  
Heikki Sulonen, YIT

Reasons that slow down Nordic proptech growth  
Risto Kankaanpää, Pontos

**SESSION 6:  
REDEFINING DIGITAL INFRASTRUCTURE**

Automation of city asset management process with computer vision technology  
Markus Melander, Vaisala Oyj

Bottlenecks of creating digital infrastructure in Finland  
Maiju Örmä, Tampere University

How should we structure information so we can reuse it tomorrow and in 50 years from now  
Göran Samuelsson, Swedish Transport Agency and Mid Sweden University

Creating a national framework for easier information exchange in road construction projects  
Erling Onstein, NTNU

Benefits of digital twinning in creating a user-centric and sustainable built environment  
Jarkko Männistö, Sitowise

The basis of digital governance architecture  
Marten Kaevats, estGOV

**SESSION 7:  
REDEFINING DIGITAL CONSTRUCTION**

Cost-efficient documentation of buildings and technical installations with photogrammetry  
Adrian Merkel, Framence GmbH

Synchronizing construction activities with takt platform  
Marco Binninger, TAKTing

Experience and challenges of digital development from general contractor's perspective  
Miina Karafin, Nordecon AS

Using digital sticky notes for communicating from office to field  
Heikki Halttula, Topcon Technology Finland Oy

Superior communication is a key factor in order to improve construction project performance  
Otto Laurila, Homerunbynet Oy

Virtual timber construction factory  
Raiko Gustavson, Estonian Woodhouse Association

Concrete 3D Printing: Accelerating the transition to Sustainable and Automated Construction  
Fernando De los Rios, Hyperion Robotics

**SESSION 8:  
REDEFINING DIGITAL LIFECYCLE**

Smart Maintenance of University Campus Facilities - Case Tampere University  
Suvi Nenonen, University Properties of Finland

Key elements in building trust in data ecosystems  
Vesa Ilmarinen, Platform of Trust

Augmented Reality for Facilities Management  
Francisco Forns-Samsó, Granlund

Social extended reality for construction and FM business  
Henri Pirkkalainen, Tampereen yliopisto

Utilizing 3D city model to predict the heat demand of buildings  
Enni Airaksinen, City of Helsinki, Helsinki3D+

Sensorized ETICS for LCA performance assessment  
Angelo Ciribini, University of Brescia, Italy

KEKO Innovation Ecosystem, first results and focus areas  
Mikko Kuusakoski, YIT

16:00–17:00

**WORKSHOP:  
TWINMOTION WORKSHOP BY EPIC GAMES**

17:00–18:00

**KEYNOTE SESSION 4:  
REDEFINING SUSTAINABLE CONSTRUCTION AND LIFECYCLE**

Martin Fischer (US), Professor, Stanford University, CIFE  
Olli Seppänen (FIN), Associate Professor, Aalto University

18:00–18:10

**CLOSING WORDS**

