

# WD BE

## 2021

UNLOCKING URBAN SUPERSENSING

**TUESDAY**  
**September 28**  
 VIRTUAL SUMMIT [wdbe.org](http://wdbe.org)

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### Stream 1

### Stream 2

## 10.00–14.15 MORNING SESSION

- 10.00 **OPENING OF THE SUMMIT**
- 10.10 **KEYNOTE 1**
- 10.25 **KEYNOTE 2**
- 10.40 **SHARED Q&A**

## 10.55 NETWORKING BREAK

## 11.15–13.15 COMMUNITY SESSION 1 Common language and data platforms

- 11.15 **Common Language for the Built Environment**  
**Jaan Saar**, Estonian Ministry of Economic Affairs & Communications, Estonia
- 11.30 **Digital collaboration and process redesign – How the lessons of 2020 will shape technology platform success for the Built Environment**  
**Graham Roberts**, Digital Value Partners, South Africa
- 11.45 **Data and application sharing and collaboration for the building energy domain**  
**Nikos Sakkas**, APINTECH LTD, Cyprus
- 12.00 **E-construction Platform Implementation**  
**Jaan Saar**, Estonian Ministry of Economic Affairs & Communications, Estonia
- 12.15 **Digitizing spatial planning field**  
**Kermo Mägi**, Estonian Ministry of Finance, Estonia
- 12.30 **National Digital Twin**  
**Jaan Saar**, Estonian Ministry of Economic Affairs & Communications, Estonia
- 12.45

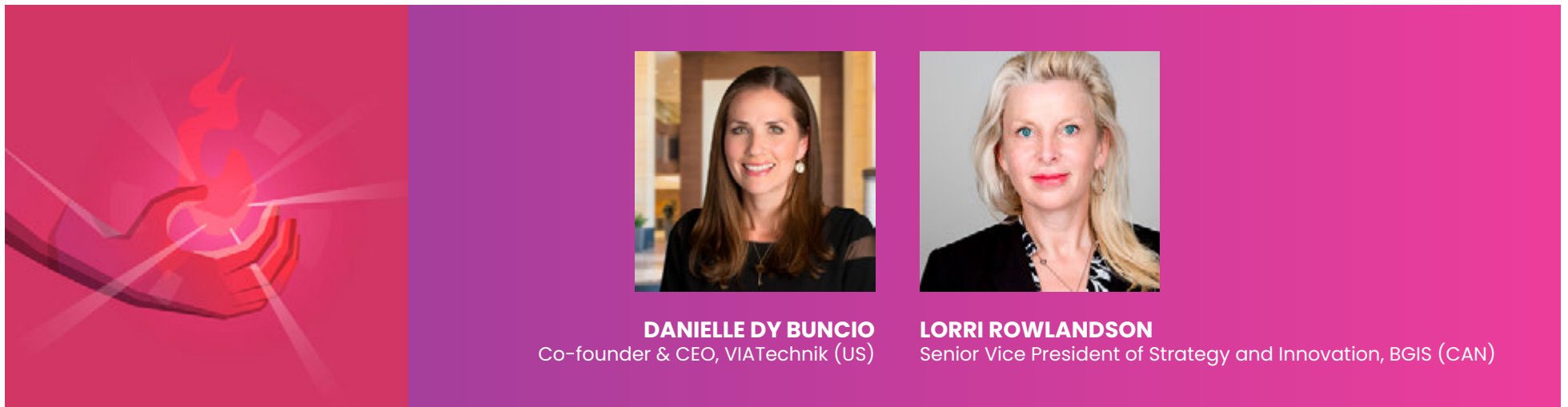
## COMMUNITY SESSION 2 Smart and sustainable cities

- Accelerating sustainability in cities by digital tools**  
**Suvi Monni**, Sitowise, Finland  
**Sauli Heino**, Sitowise, Finland
- Assembling facets of spatialised intelligence in the 21st century city: Synergies, interactions and limitations, towards urban sustainability.**  
**Nicos Bobolos**, University of West Attica, Greece  
**Stella Sofia Kyvelou**, Panteion University of Social and Political Sciences, Greece
- Supersensing of the Units of National Built Environments On Real-Time Enabled by Digitalization**  
**Pekka Huovinen**, Business Management PJH, Finland
- Smart Infrastructure as a cornerstone of Smart City**  
**Samuli Virtanen**, Sitowise, Finland
- What's AI's role in creation of sustainable societies?**  
**Janne Liuttu**, Ramboll, Finland
- Maptionnaire – Insights that enable cities to change**  
**Maarit Kahila**, Mapita Oy, Finland
- Is Smart City the next moon shot?**  
**Kalle Nieminen**, Sitowise, Finland

## 12.45 NETWORKING BREAK & LUNCH

## 13.15 – 14.15 PUBLIC SECTOR PANEL (FINLAND, ESTONIA, DENMARK AND THE NETHERLANDS)

## 14.15 NETWORKING BREAK



**DANIELLE DY BUNCIO**  
Co-founder & CEO, VIATechnik (US)

**LORRI ROWLANDSON**  
Senior Vice President of Strategy and Innovation, BGIS (CAN)

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**Stream 1**

**Stream 2**

**17.00–20.00 EVENING SESSION**

17.00 **Opening of the evening session**

**17.10–19.00 COMMUNITY SESSION 3  
Hybrid work and smart facilities management**

17.10 **Shaping Human Experience – A focus on hybrid work and four emerging worker profiles**  
**Sofia Jakas**, Jones Lang LaSalle Finland Oy, Finland

17.25 **Building Management System based on Occupancy-Oriented Digital Twin for Facility Management**  
**Laura Pellegrini**, Politecnico di Milano, Italy

17.40 **Futureproofing and scaling machine learning for occupancy prediction**  
**Davor Stjelja**, Granlund Oy, Finland

17.55 **Technology in built environment – the dependencies in an environment enabling all the smart solutions**  
**Hanna Pikkusaari**, Osaango, Finland

18.10 **BIMLIFE Platform: An ecosystem of multiple digital twins for building operations**  
**Francisco Forns-Samso**, Granlund, Finland

18.25 **Wayfinder in complex construction areas**  
**Merja Taipaleenmäki**, Citynomadi, Finland

**COMMUNITY SESSION 4  
Optimizing design and project management**

**Parametric Design to minimize the embodied GHG emissions in early stages of design**  
**Paras Taneja**, WME Consultants, India

**A comprehensive twin-based Building Design Health Check**  
**Christian Schunicht**, Twingine, Germany

**Calculation of the Smart Readiness Indicator for a sample of buildings in South Tyrol**  
**Ulrich Klammsteiner**, Agentur für Energie Südtirol – KlimaHaus, Italy

**Urban spatial sensing for social inclusion and disruption of the limits**  
**Lavinia Chiara Tagliabue**, University of Turin, Italy

**Collaborative project risk management and benchmarking**  
**Sami Kärnä**, Inclus, Finland

**Iffent – automated design team assembly!**  
**Paavo Pärn**, Iffent, Estonia

**18.45 NETWORKING BREAK**

**19.00–20.00 KEYNOTE SESSION**

19.00 **KEYNOTE 3 LORRI ROWLANDSON (BGIS)**  
**The Digital “Office” – How data is transforming the built environment and the way we work**

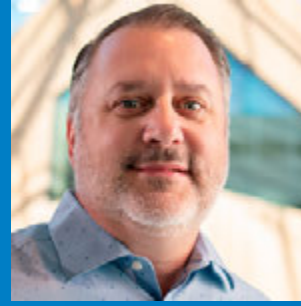
19.15 **KEYNOTE 4 DANIELLE DY BUNCIO (VIATechnik)**

19.30 **SHARED Q&A**

19.45 **CLOSING OF THE DAY I**



**SOFIE PELMAKERS**  
Assistant Professor, Sustainable  
Architecture and Sustainable Housing Design,  
Tampere University (FI)



**JEFF SCHUMACHER**  
Real Estate and Security Regional Lead  
- Ireland, UK, & MEA at Microsoft

**WEDNESDAY**  
**September 29**  
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**Stream 1**

**Stream 2**

**10.00–14.15 MORNING SESSION**

- 10.00 **OPENING OF THE DAY 2**
- 10.10 **KEYNOTE 5 JEFF SCHUMACHER (Microsoft)**
- 10.25 **KEYNOTE 6 SOFIE PELMAKERS (TUNI)**
- 10.40 **SHARED Q&A**

**10.55 NETWORKING BREAK**

**11.15–13.15 COMMUNITY SESSION 5**  
**Sustainable buildings and circular economy**

- 11.15 **Boosting Sustainability: The Role of Sensing and Data Analytics in Operating and Maintaining Built Assets**  
**Susanne Knorr**, Arcadis, United Kingdom
- 11.30 **The environmental impact of integrating Building Information Modelling (BIM): A systematic review and case study**  
**Marie-France Stendahl**, Lund University, Sweden
- 11.45 **Nordic Swan Ecolabelling of buildings**  
**Riikka Holopainen**, Ecolabelling Finland, Finland
- 12.00 **Four challenges of real assets' lifecycle valuation**  
**Katja Rodionova**, Sitowise, Finland
- 12.15 **Developing an Urban Resource Cadaster for Circular Economy**  
**Gang Liu**, University of Southern Denmark, Denmark
- 12.30 **Case study on a Dutch socially sustainable circular economy IoT platform**  
**Jenny Heikinheimo**, University of Amsterdam, Netherlands

**COMMUNITY SESSION 6**  
**BIM-based permit and digital handover**

- BIM-based building permits in Estonia**  
**Jaan Saar**, Estonian Ministry of Economic Affairs & Communications, Estonia
- Kunta3D- latest findings of combining BIM & GIS**  
**Petri Kokko**, Finland
- Digital Handover of construction projects**  
**Harri Majala**, GBuilder, Finland
- How not to get lost on a BIM2FM journey!**  
**Mihkel Metsala**, Reminet Ltd, Estonia  
**Kaia Kirs**, Reminet Ltd, Estonia
- Connecting IoT to IFC, Customer case**  
**Alexander Le Bell**, Tridify, Finland

**12.45 NETWORKING BREAK & LUNCH**

**13.15– 14.45 Hackathon Session**

**14.45 NETWORKING BREAK**







**AVIAD ALMAGOR**  
Division Vice President,  
Emerging Technologies, Trimble (US)

**BRIAN RINGLEY**  
Construction Technology Manager,  
Boston Dynamics (US)

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**Stream 1**

**Stream 2**

**17.00–20.00 EVENING SESSION**

17.00 **OPENING OF THE EVENING SESSION**

**COMMUNITY SESSION 7**

**17.10 – 19.00 Mixed reality for AEC and nature**

17.10 **Project VEE – Virtual Environment Eyes in AEC**  
**Francesco Cappilli**, BIMaking Engineering, Italy  
**Lorenzo Pierini**, BIMaking Engineering, Italy  
**Massimiliano Bagagli**, BIMaking Engineering, Italy

17.25 **Let's Play the AEC Game**  
**Jarkko Männistö**, Sitowise, Finland

17.40 **New technology boosts efficiency of augmented reality**  
**Adrian Merkel**, FRAMENCE GmbH, Germany

17.55 **The Decision Machine**  
**Pedro Aibeo**, Architectural Democracy, Finland

18.10 **Modelling urban green for digital twins**  
**Lauri Lemmenlehti**, Forum Virium Helsinki, Finland

18.25 **Crafting a Virtual Nature Concept – A case example of Aukio**  
**Aki Päivärinne**, Granlund Oy, Finland  
**Sami Kämppi**, OiOi Collective, Finland  
**Jenni Herkama**, Rune & Berg Design Ltd, Finland

18.40 **GreenTwins: New tools for collaborative planning of green environments**  
**Pilvi Nummi**, Aalto University, TalTech, Finland  
**Henna Fabritius**, TalTech, Finland  
**Petri Kangassalo**, Aalto University, Finland  
**Viktorija Prilenska**, TalTech, Estonia

**19.00–20.00 KEYNOTE SESSION**

19.00 **KEYNOTE 7 AVIAD ALMAGOR (Trimble)**

19.15 **KEYNOTE 8 BRIAN RINGLEY (Boston Dynamics)**

19.30 **SHARED Q&A**

19.45 **CLOSING OF THE SUMMIT**

**COMMUNITY SESSION 8**

**Future technology-driven business models**

**The Future of Architecture and the World of the Digital Built Environment**  
**Terry Beaubois**, BKS: Building Knowledge Systems, United States

**4V's of Digital Twin Business Models**  
**Erika Parn**, University of Cambridge, United Kingdom

**Data insights to drive real estate transactions**  
**Natalia Rincon**, CHAOS Architects, Finland

**Probabilistic Blockchains: Political Gridlock And A Path Towards Open Finance in P3 Infrastructure**  
**Aktham Dabbas**, University of Texas at Austin, United States

**Urban energy systems' digital twin for multi-objective optimization**  
**Andrew Bollinger**, Urban Sympheny AG, Switzerland

**RE future with PropTech**  
**Imre-Gustav Vellamaa**, R8tech, Estonia

**Networking break**