LIVABILITY & AFFORDABILITY IN THE DIGITIZED CITY

The annual agenda-setting event around affordable housing in Europe

organized by

HOUSING EUROPE

EESTI KORTERIÜHISTUTE LIIT
EKÜL

This summer Housing Europe, the European Federation of Public, Coopera-
tive and Social Housing and EKYL - Estonian Union of Co-operative Housing
Associations take a digital look in the future of our cities. In a country that serves
as a role model for e-governance the annual agenda-setting event around af-
fordable housing in Europe will bring together more than 150 representatives
of housing associations across Europe, policy makers and the civil society in an
exchange that generates evidence-based policy suggestions.
The effects of the digital age become more and more visible in the cities we live
in and will play a shaping role in their future. The question of data, smart city
ideas or evolving collaborative governance models are just some aspects of this
bigger trend unfolding. Within this context housing is where everything starts...

• Be part of the conference, share your views, comments, ideas and pictures on
Twitter using the hashtag **#housingeurope30**

• Get updates about the event, including the report and the presentations
https://bit.ly/2rjHnLb

• Content curation & responsible for international speakers:
Michalis Goudis, Communications Director of Housing Europe

• Responsible for the organisation on the ground and for Estonian speakers:
Anu Sarnet, Head of International Relations and Projects at the Estonian Union
of Co-operative Housing Associations (EKYL)

WELCOME TO TALLINN

Housing is a very important issue both in Estonia and in Europe and its importance is growing. We all want to live and work in a comfortable, cosy and modern house, which is in the same ime is our castle, but is also environmentally friendly and energy efficient. Therefore, it is important to pay attention to the development of a modern living environment with a healthy indoor climate with modern ventilation, heating and other sustainable solutions. Nearly zero energy building requrements will soon be set in Europe, and it will create a new challenge for all homeowners and the construction industry. But I believe that these challenges stimulates the development of smarter solutions and, as a result, buildings that are energy efficient, are also very cool and nice places to live and work.

In planning, designing and building energy efficient houses, we can all be mutually supportive and share best practices and knowledge. In Estonia, we make a great effort to involve high-tech solutions in buildings and create new houses in cooperation with researchers and developers.
New requirements will usually apply to new buildings, but we also must not forget already existing buildings that might be tens and hundreds years old. Residents of these houses should also have the chance to live in a modern and comfortable home that is both environment and wallet friendly. The use of modern technologies in unrefurbished residential buildings is perhaps even a bigger challenge than the construction of new houses.

In an increasingly digitizing society, we also need to keep in mind the increasing automation and digitization of construction. Thus, the Estonian Government has set digitalization as one priority in the construction sector. Our goal is to double the productivity of the Estonian construction sector by digitalization.
We have to act smartly. Wise decisions for stimulating private investment and smart technological solutions are the future of housing. Each country is special and with its own innovation experience, so I believe we have a lot to learn from each other. Knowledge sharing and networking will ensure success.

I welcome you in our beautiful capital, Tallinn, and I hope that in addition to the chance to look at the reality and future of digital cities, you will have the time to go outside and walk around and enjoy the early summer city nature that creates a comprehensive green frame for the built environment.

Urve Palo,
Minister of Entrepreneurship and Information Technology
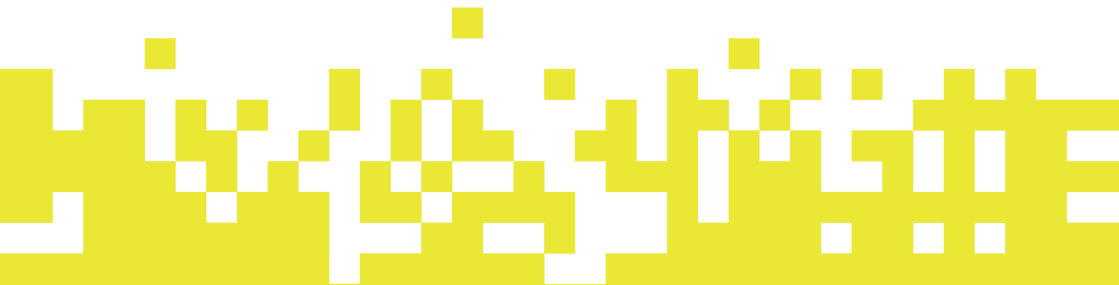
Greetings from the future!
At the conference "Livability & Affordability in the Digitized City", we are talking about the future of cities - the space and environment around us, but, of course, also how we ourselves, people, live in it. Whether we ride or walk, how much we work or rest, whether we breathe in clean air or exhaust fumes…
What technological changes are waiting for us ahead and how does it change my life and yours, the life of our children and parents?

A lot has been said about changes in the recent years. Home is no longer just a roof over your head, but also a place where you should feel fine and well. Almost 700 houses across Estonia have entered a new era of healthy indoor climate and energy efficiency with the national support for renovation. Estonia has been recognized and acknowledged in Europe for renovating eagerly. We are happy to share our experience to everybody who are interested. People from far and near come here to learn. However, we would not be able to do it without strong apartment associations, which take the lead in reconstructing. This year a new law of apartment ownership and apartment association was adopted in Estonia, which shows Estonia at the forefront again. With this law, apartment associations were established across the country. On the 100th anniversary of Estonia, we became a republic of apartment associations. Together, we can achieve that, also in a hundred years' time, our homes will be a good place to live.

Future will not be born elsewhere than just here and now, in the decisions made and the actions taken today. The price we and our descendants will have to pay for the mistakes may be unacceptably high. Today's decisions and promises, as well as new opportunities for a sustainable life, will create a better tomorrow. So - here and now, greetings from the future!

Andres Jaadla,
Chairman of the Estonian Union of Co-operative Housing Associations

NAVIGATING THROUGH THE DIGITAL WAVE

The former Mayor of Denver, Wellington Webb marked the beginning of the previous decade with a rather memorable quote while presiding the US Conference of Mayors: "The nineteenth century was the century of empires, the twentieth that of nation-states and the twenty-first century will be that of cities". I think that the years that followed tend to prove him right. Indeed, this is the case for the European cities that seem to be gaining power and be willing to play a more prominent role. This trend has been unfolding both at national level but also at European with the Urban Agenda for the EU being a clear indicator for this. At the same time, the digital transformation raises questions concerning the very nature of our cities. Are we indeed experiencing the dawn of smart cities?

Before answering this question, let us first ask ourselves what is really a smart city. Personally, I would argue that a city is only smart…
… when it can secure a favourable framework for the provision of affordable housing for all.
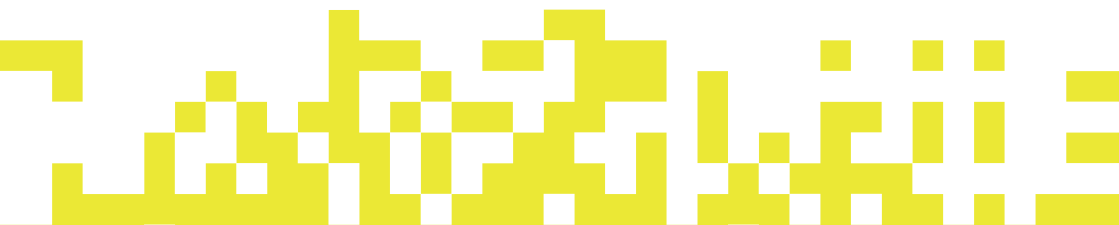… when it includes the fight against inequality in its priority list
… when it delivers quality public spaces all over its territory
… when it doesn't allow the multiplication of segregated neighbourhoods or ghettos.

This is why we chose to talk about the 'digitized city'- a term coined by Charles Landry - in our event today. How shall governments and local authorities ensure that liveability and affordability will be engraved in the DNA of the Digitized Cities? What are the basic principles for a fair and efficient transition towards a truly smart future of our homes? In what way can new governance and collaboration models absorb the developing dynamics of civil society and even individuals? How does the next day of construction and renovation look like? Can disrupting effects of platforms like AirBnB be restructured in a way that actually serves a vision for a collaborative economy? These are just a few questions that come to my mind. But, overall, I must say that I am optimistic that our time equips us with more tools than ever before to shape a better future for our communities with decent housing for all at the centre.
Welcome to Tallinn for what I believe is a truly timely debate. Please let me use this corner of our brochure to invite you to navigate our sector together through the digital wave towards more innovative, livable and affordable neighbourhoods.

Cédric Van Styvendael,
President of Housing Europe

PUTTING TOGETHER THE PIECES OF THE NEW DIGITAL PUZZLE

The goal of the Housing Europe Brussels team is to bring members together to witness how the sector is tapping into the rapidly evolving potential offered by digital advances while managing the risks Ensuring quality of life & affordability and taking measures to protect privacy: all part of the new digital puzzle affordable housing providers face. Our team and in particular our Communications Director, Michalis Goudis has put together a great agenda. I trust it will fulfil expectations and help members in their daily work where these challenges and opportunities are very real.

Sorcha Edwards,
Housing Europe Secretary General

THE AGENDA AT A GLANCE

Moderation: **Eddy Adams** - URBACT Programme Expert & Social Innovation Exchange (SIX) Adviser

9:30 – 9:50 WELCOME

• Video message from **Urve Palo,** Estonian Minister of Entrepreneurship and Information Technology, Ministry of Economic Affairs and Communications
• **Taavi Aas** - Mayor of Tallinn, President of the Association of Estonian Cities and Rural Municipalities & member of the EUROCITIES Executive Committee
• **Andres Jaadla** - Chairman of the Estonian Union of Co-operative Housing Associations (EKYL) and Member of the European Committee of the Regions (ALDE, Rakvere)
• **Cédric Van Styvendael** - President of Housing Europe

9:50 – 10:00 WARM UP SESSION

• A digital Q & A game for a digital future

10:00 – 11:00 I. KEYNOTE SESSION - RADICAL TECHNOLOGIES: THE DESIGN OF EVERYDAY LIFE

• **Adam Greenfield** - Writer & Urbanist, founder and managing director of Urbanscale, delivers this year's keynote.
The presentation will be followed by a discussion with:
• **Lorna Wilson** - Innovation and Future Thinking Lead at the Scottish Federation of Housing Associations (SFHA)
• **Kimmo Rönkä** - Future Living Specialist, Housing Fair Finland Co-operative

11:00 – 11:30 COFFEE BREAK & INNOVATION SHOTS ROUND 1

• Housing Europe - EFL - EBZ Summer School: Training young housing professionals ahead of the new challenges for the sector
• People at the heart of housing - HEART: Tackle technical, economic and social aspects of energy retrofit

11:30 – 12:30 II. CONNECTING THE DOTS OF THE DIGITIZED CITY

• **Miimu Airaksinen** - Managing Director and CEO of Finnish Association of Civil Engineers RIL:
Can we measure what is a digitized city?
• **Raul Järg** - Architect, Head of the Estonian Centre of Architecture:
Can we see beyond the horizon?
• **Niki Gaitani** - PhD, Senior Researcher, Project Manager at the Research Centre for Zero Emission Neighbourhoods in Smart Cities, Norwegian University of Science and Technology:

Zero emission neighborhoods - Possibilities and Challenges
• **Anders Lago** - Chair of HSB Cooperative Housing Association (Sweden):
Sustainability and digitalization: Creating homes of the future
• **Kalle Virkus** - Expert, Tartu Regional Energy Agency, Project SmartEnCity:
From Khruschevka to Smartovka

12:30 – 14:00   LUNCH BREAK & MOVIE SCREENING

• "ELEVATION: How drones will change cities". A film by DEZEEN

14:00 – 15:00   III. AFFORDABILITY: DIGITAL AS A DISRUPTOR AND AN OPPORTUNITY

• **Dr. Johannes Lutter** - Urban Innovation Vienna:
Sharing economy - fair economy? How to get a grip on the short-term peer-to-peer renting market
• **Jüri Rass** - PhD, Deputy Secretary General for Construction at the Estonian Ministry of Economic Affairs and Communications:
Future of the e-Construction in Estonia
• **Evgeny Maksimov** - Project Manager, Tallinn City Property Department:
BIM-technology adoption and development in Tallinn
• **Dr. Bernd Rießland** - Sozialbau AG (Austria):
Costs of construction - opportunities and limitations of digitalisation
• **Cattis Carlén** - Housing Policy Expert, Riksbyggen (Sweden):
Digitalization of the housing sector - adding value to the tenants and members of housing co-operatives

15:00 – 15:30   COFFEE BREAK & INNOVATION SHOTS ROUND 2

• Behavioural change en route to nZEB through gaming: the case of Triple-A Reno
• Housing Association (ATC) Turin: Find, access, manage your home from the palm of your hand

15:30 – 16:30   IV. LIVEABILITY FOR ALL IS THE ANSWER NO MATTER WHAT THE QUESTION IS

• **Kevin Curran** - Professor of Cyber Security, University of Ulster:
What are the dangers in making our cities smarter and what can be done to secure them
• **Stuart Hitchman** - Eurhonet IT Topic Group Leader and Head of IT at Rooftop Housing Group:
Digitalisation, a journey for business and customer
• **Aart Wijnen** - CEO of De Twee Snoeken: *The Dutch City Deal for Data Infrastructure*
• **Eha Võrk** - Tallinn City Government, Deputy Mayor:
Liveable and responsible housing in Tallinn

16:30 – 16:45   V. HASHTAG CONCLUSION

• **Eddy Adams** in a short interview with Housing Europe President, **Cédric Van Styvendael,** putting together the main takeaways of the day

WELCOME SESSION PROFILES

Urve Palo
Minister of Entrepreneurship and Information Technology of the Republic of Estonia from 23 November 2016. She is a member of the Social Democratic Party
• From 2015 - 2016, Urve Palo was a member of the 13th Riigikogu
• In 2015, Urve Palo served as the Minister of Entrepreneurship of the Republic of Estonia
• From 2014 - 2015, Urve Palo served as the Minister of Economic Affairs and Infrastructure of the Republic of Estonia
• From 2011 - 2014, Urve Palo was a member of the 12th Riigikogu and was the Deputy Chairman of the Economic Affairs Committee
• From 2009 - 2011, Urve Palo was the Deputy Mayor of Viimsi municipality government
• From 2007 - 2009, Palo served as the Minister of Population Affairs of the Republic of Estonia
• From 1997 - 2007, Urve Palo was the head of Saint-Gobain Isover AS. Prior to that, she worked as an accountant, export manager and advertising manager in the same company
• Born on 10 July 1972 in Haapsalu, Urve Palo has graduated from Värska Secondary School, and aquired a Master's degree in Economy (MBA) from University of Tartu

Andres Jaadla
• Member of the Committee of the Regions
• Member of the commission of Environment and Climate Change (ENVE)
• Member of the ALDE political Group in COR
• The Ambassador of the European Covenant of Mayors, European Committee of the Regions

• Born on 10 March 1965
• Tartu University - Master of Law , 1991

Municipal background:

• Member of City Council of Rakvere since 1993
• Mayor City of Rakvere 2002 - 2012
• 2008 - The initiator and promoter of the European Covenant of Mayors in Estonia and Europe *www.eumayor.eu*
• 2016 - CoR Ambassador of the European Covenant of Mayors
• Committee of the Regions - member of the commission of Environment and Climate Change (ENVE) 2010 - 2012, 2015 …

• Vice President of UBC (Union of the Baltic Cities) 2011 - 2013
• Member of the Advisory Board UBC Sustainable Cities Commission since 2015
• Director of Research & Development (R&D) Smart House Competence Centre (first nerally Zero Energy Buiding in Estonia), 2012 - 2015
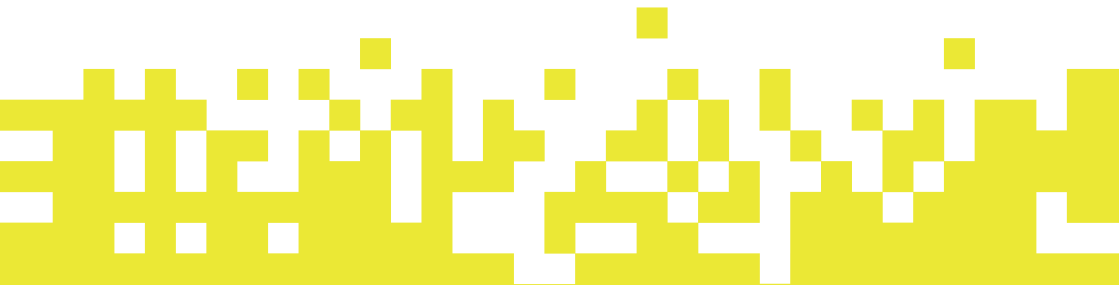
Housing background:

• Founder and Chairman of the board - Estonian Union of Housing Cooperatives EKÜL (largest Housing Organisation In Estonia) since 1996
• Member of the board - BUCHA - Baltic Union of Housing Cooperatives since 1999
• Member of the UNECE Housing and land management UNECE Real Estate Market Advisory Group (REM) since 2015
• Member of the board - Housing Europe since 2014

Taavi Aas
Has been the Mayor of Tallinn, the capital of Estonia, since 9 November, 2017. Before that, he served as the Acting Mayor of Tallinn since 30 September 2015. Mr. Aas is a member of the Estonian Center Party. He has served as Vice Mayor of Tallinn since April 2005 and is the Chairman of Estonian Union of Cities and Rural Municipalities since 2010. As the Vice Mayor, he has coordinated the work of Tallinn City Planning Office and Tallinn Transportation Office, managing the reconstruction of Freedom Square (Vabaduse Väljak) and transition to the free public transportation in Tallinn in 2013. Taavi is also a member of the EUROCITIES Executive Committee.

KEYNOTE AGENDA

10:00 – 11:00   I. KEYNOTE SESSION - RADICAL TECHNOLOGIES: THE DESIGN OF EVERYDAY LIFE

We already depend on the smartphone to navigate every aspect of our existence. We're told that innovations - from augmented-reality interfaces and virtual assistants to autonomous delivery drones and self-driving cars - will make life easier, more convenient and more productive. 3D printing promises unprecedented control over the form and distribution of matter, while the blockchain stands to revolutionize everything from the recording and exchange of value to the way we organize the mundane realities of the day to day. And, all the while, fiendishly complex algorithms are operating quietly in the background, reshaping the economy, transforming the fundamental terms of our politics and even redefining what it means to be human.
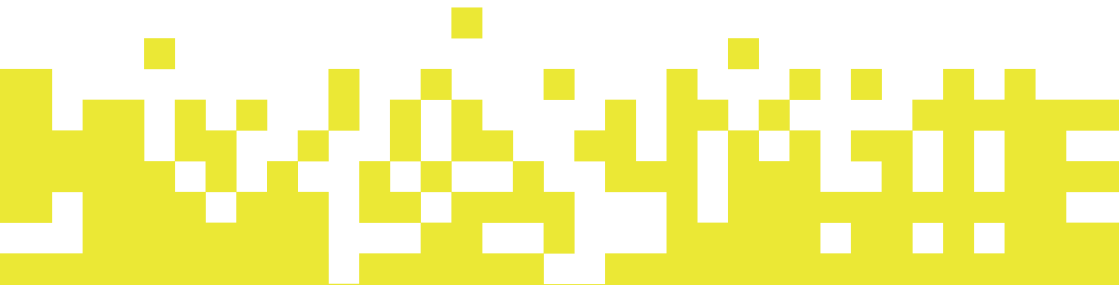Having successfully colonized everyday life, these radical technologies are now conditioning the choices available to us in the years to come. How do they work? What challenges do they present to us, as individuals and societies? Who benefits from their adoption?
World-renowned writer and leading technology thinker, Adam Greenfield will deliver a keynote, inviting us to reconsider our relationship with the networked objects, services and spaces that define us, both at home and in the wider urban environment.

• **Adam Greenfield** - Writer & Urbanist, founder and managing director of Urbanscale

The presentation will be followed by a discussion with:

• **Lorna Wilson** - Innovation and Future Thinking Lead at the Scottish Federation of Housing Associations (SFHA)
• **Kimmo Rönkä** - Future Living Specialist, Housing Fair Finland Co-operative

KEYNOTE PROFILES

Adam Greenfield

Previously a rock critic, bike messenger and psychological operations specialist in the US Army, Adam Greenfield spent over a decade working in the design and development of networked digital information technologies, as lead information architect for the Tokyo office of internet services consultancy Razorfish, independent user-experience designer and Head of Design Direction for Service and User-Interface Design at Nokia headquarters in Helsinki.

Selected in 2013 as Senior Urban Fellow at the LSE Cities centre of the London School of Economics, he has taught in the Urban Design program of the Bartlett, University College London, and in New York University's Interactive Telecommunications Program. His books include Everyware: The Dawning Age of Ubiquitous Computing, Urban Computing and Its Discontents, and the bestselling Against the Smart City.

Kimmo Rönkä

Is a curious re-thinker, a human-centric innovator and a concept creator of various living environments. He is former director of Future Home Institute (University of Art and Design Helsinki) and former CEO of Setlementtiasunnot, a social housing company. Kimmo believes t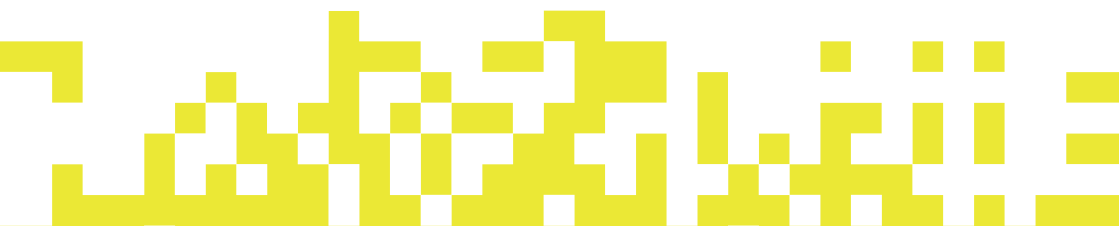he super blocks are major local actors in the future cities inspiring people of all ages with rich grass-root activities. Since April 2018, Kimmo has been working as future living specialist at the Housing Fair Finland Co-operative.

Lorna Wilson

Innovation and Futures Thinking Lead at the Scottish Federation of Housing Associations, which exists to lead, represent and support housing associations and co-operatives throughout Scotland.Lorna 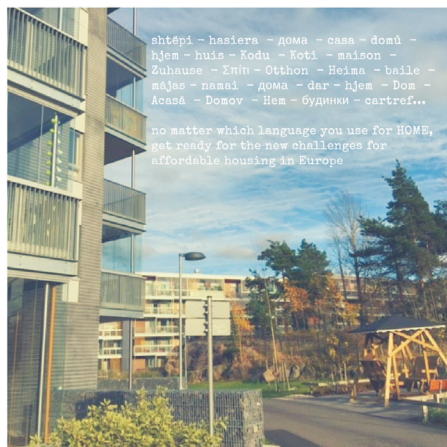is creating new solutions for the Home of the Future, Customer Service Transformation, and Tackling Poverty. Having worked in housing for over 20 years, Lorna's experience includes developing services through partnerships, strategic planning, and research and development, most recently for Wheatley Group – Scotland's largest housing and care provider.

INNOVATION SHOTS ROUND 1

11:00 – 11:30   INNOVATION SHOTS ROUND 1

• Housing Europe - EFL - EBZ Summer School - Training young housing professionals ahead of the new challenges for the sector

Following last year's success with 30 participants from nine European countries, young housing professionals from all over Europe are invited to Germany for the second edition of a unique summer school for young professionals in the public, cooperative and social housing sector. Five exciting and instructional days are awaiting you in Bochum, located in the very heart of Europe.

The European Summer School is brought to you by EBZ - the European Education Centre for Housing and Real Estate in cooperation with the European Federation for Living (EFL), the Housing Initiative for Eastern Europe, IWO and Housing Europe. **Susanne Juranek,** Coordinator of the European Network for Housing and City Development at the EBZ will share more information with you, explaining how you and your colleagues can make the most of this unique summer school.

Susanne Juranek

Coordinator of the European Network for Housing and Urban Development (ENH), providing information on EU funding and other European topics for the German housing sector at EBZ – European Education Centre for Housing and Real Estate. She is also responsible for the European Summer School for Young Professionals, the first transnational training programme for young professionals of the housing sector. EBZ and its affiliated EBZ Business School – University of Applied Sciences are among the leading education providers for housing in Germany.

• People at the heart of housing - HEART: tackle technical, economic and social aspects of energy retrofit

The 'HEART toolkit' integrates different subcomponents - envelope technologies, HVAC (Heating, Ventilation, and Air Conditioning), RES (Renewable Energy Systems) and BEMS (Building Energy Management Systems) – and offers high levels of performance by making them communicate with each other. This enables to convert buildings into Smart Buildings, i.e. in interactive buildings characterized by dynamic and multidirectional flows of energy and information. A European project bringing together 16 partners from 10 different countries and from different fields (ICT, manufacturing, technological institutions, federations, social housing organizations, etc.) aims to develop and test interconnected systems for the deep rehabilitation of residential buildings. At the centre of the project are two buildings managed by social housing providers. One is managed by Est Metropole Habitat with activities nearby Lyon in France and the other one is from ACER and situated around Regio Emilia in Italy. **Sébastien Garnier,** Innovation and Project Manager at Housing Europe will provide you with additional insights, explaining how the consortium plans to ensure that the measures and technological innovations contribute to the residents' satisfaction and acceptance of such renovation projects.

Sébastien Garnier
Has been working for almost ten years in the social and affordable housing sector. First as advisor in the Financial and Public Affairs departments of Aedes - the Dutch federation of social housing providers and its 300 members. He was later responsible for managing the European affairs for the Brussels office of Aedes during six years. During three years he was chair of the Social Affairs working committee of Housing Europe. He has been actively involved in the Housing Partnership of the EU Urban Agenda and the International Social Housing Festival. Besides his part-time function at Housing Europe, Sébastien also provides advisory services as managing director of AxHA.

SESSION II AGENDA

11:30 – 12:30   II. CONNECTING THE DOTS OF THE DIGITIZED CITY

The digitized city is an unfolding reality. From the inside of our homes to the streets and the means of transport, but also from the usage of data to the automation of various aspects in the smart urban living environment.
With people in the center, the session aims to put together the pieces of the puzzle that the digitized city appears to be for many of us. What are the driving forces and the prospects of the digital transformation? How will the future smart city affect the way in which architects design our homes and our public spaces? How do local authorities secure access to technologies and information serving digital inclusion? What is the role of public, cooperative and social housing providers in making the link with other services, including smart transportation, for their residents?
Leading thinkers, architects, city representatives and innovative housing providers will bring their own perspective on the digitized city in an attempt to illustrate that the digitized future may only be the resultant of -a more dynamic than ever- interaction between diverse stakeholders.

• **Miimu Airaksinen** - Managing Director and CEO of Finnish Association of Civil Engineers RIL:
Can we measure what is a digitized city?
• **Raul Järg** - Architect, Head of the Estonian Centre of Architecture:
Can we see beyond the horizon?
• **Niki Gaitani** - PhD, Senior Researcher, Project Manager at the Research Centre for Zero Emission Neighbourhoods in Smart Cities, Norwegian University of Science and Technology:
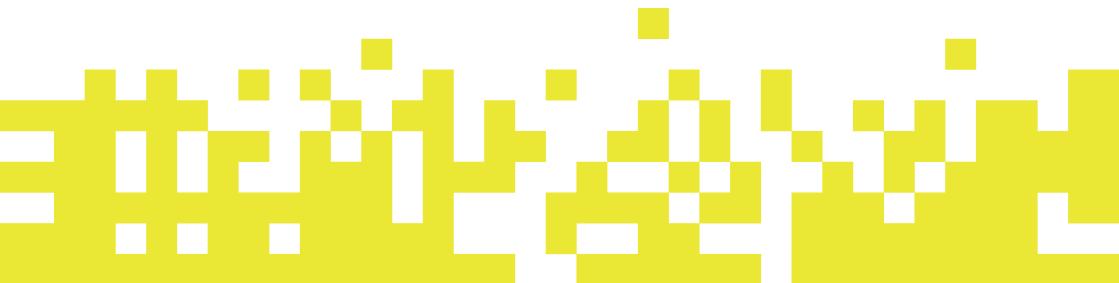*Zero emission neighborhoods - Possibilities and Challenges*
• **Anders Lago** - Chair of HSB Cooperative Housing Association (Sweden):
Sustainability and digitalization: Creating homes of the future
• **Kalle Virkus** - Expert, Tartu Regional Energy Agency, Project SmartEnCity:
From Khruschevka to Smartovka

SESSION II PROFILES

Dr. Miimu Airaksinen
CEO and Managing Director at RIL.
Dr. Miimu Airaksinen works as CEO and Managing Director at RIL Finnish Association of Civil Engineers. Before she joined RIL she worked over 10 years as a research professor in Technical Research Centre of Finland, VTT. She is currently active in European Innovation Platform for Smart Cities and Communities. She is board member of CIB (International Council for Research and Innovation in Building and Construction) and she leads a CIB task group for smart cities. She was also nominated to UN habitat policy advisor for group 9 focusing on smart cities. Airaksinen is also working as a domain expert in European Cooperation in the field of Scientific and Technical Research, COST, Transport and Urban Development.

Raul Järg
Head of Estonian Centre of Architecture.
Raul Järg is an architect and city planner who graduated Estonian Academy of Arts architecture and urban planning department in 2001. His is a founder and partner of architecture office Ühinenud Arhitektid, has won a number of architecture competitions and is a co-author of several public buildings. He has worked in Parkin Architects in Toronto, Canada, has been the City Architect of Rakvere (Estonia) from 2008 to 2012. Since 2013 he is running Estonian Centre of Architecture and Tallinn Architecture Biennale. Hi is the commissioner of the Estonian pavilion on Venice Architecture Biennale in 2018.

Dr. Niki Gaitani
Project manager at the Research Centre on Zero Emission Neighborhoods in Smart Cities (ZEN centre). In addition, she is a Senior researcher in the field of building physics and urban climate at the Norwegian University of Science and Technology. Her major research fields and expertise relate to the energy performance of buildings, zero emission building and neighborhood concepts and sustainable design strategies. She has participated in 20 EU funded research projects.
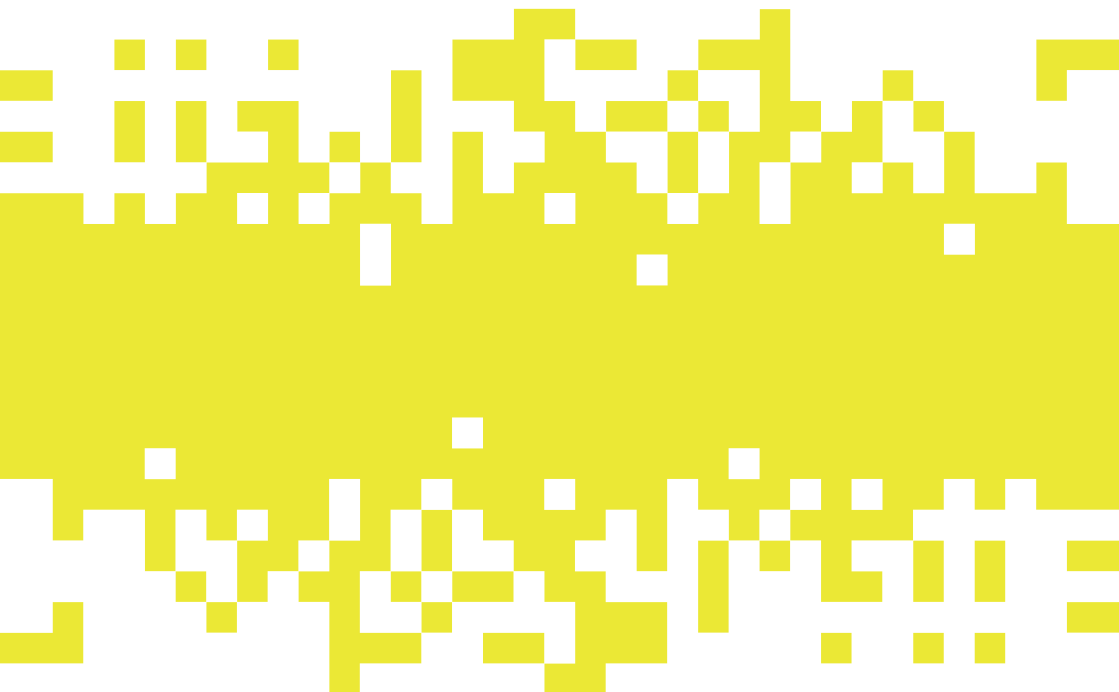
Anders Lago
Chair of the board of HSB, Sweden's largest cooperative housing association. HSB develops, builds and manages housing for over one million people, all over Sweden. Prior to his position as chair of HSB, Mr Lago was mayor of Södertälje, a town south of Stockholm, where he had a profound engagement in issues regarding migration, housing and the labour market.

Kalle Virkus
Expert, Tartu Regional Energy Agency. Project SmartEnCity. Kalle Virkus was born in 1960. His academic background is civil engineer, graduated from Tallinn Technical University (former Tallinn Polytechnic Institute) in 1983. Mr. Virkus has qualified as an energy auditor in 2009 and as technical consultant of renovation in 2015. Kalle Virkus started employment in Tartu Regional Energy Agency in 2010 when the Agency was founded. Before that he was employed by Kredex Fund Housing division. During working for TREA mr. Virkus has participated in several domestic and international projects. The most important of which include participating in compiling Program of Housing and Energy of Tartu, Smart Specialization Report for Estonia and international projects UrbEnergy, REFURB and SmartEnCity.

MOVIE TIME

13:30 MOVIE TIME

"ELEVATION: How drones will change cities"

Drones will transform cities, revolutionising how people travel, how goods are delivered and how buildings look and are constructed, according to a documentary by Dezeen. "Aerial highways" will relieve pressure on roads as deliveries and human transportation take to the skies in unmanned electric vehicles. Architecture will change dramatically as the ground floor entrance is replaced by rooftop landing, parking and recharging zones and deliveries arrive via specially constructed portals on the sides of buildings. This vision of the future is set out in Elevation, a new documentary created by the online architecture magazine Dezeen - *www.dezeen.com*

An additional screening will take place right after the end of the event, if there is interest.

SESSION III AGENDA

14:00 – 15:00   III. AFFORDABILITY: DIGITAL AS A DISRUPTOR AND AN OPPORTUNITY

The digitalization of the housing sector, all the way from design and construction to management seems to raise challenging issues, while generating attractive opportunities. On the one hand, Building Information Modelling (BIM) and e-construction reduce the costs and optimize the whole construction process. On the other hand, digital aspects of the sharing economy like AirBnB have a direct impact on affordability of rents, raising regulatory challenges for local authorities.

What are the integral inequalities of sharing economy? How can housing providers make use of the digital platforms for the best management of their stock and service provision? Can the smart development of the housing economy in Estonia and the ministerial strategy be source of inspiration for other countries? Is the interaction between building technologies, technical systems and the residents in energy retrofit indicative for the overall mindshift in the public, cooperative and social housing sector?

Researchers, representatives of housing associations and public authorities engage in a debate that illustrates the ambivalent impact of digitalization on affordable housing.

• **Dr. Johannes Lutter** - Urban Innovation Vienna:
Sharing economy - fair economy? How to get a grip on the short-term peer-to-peer renting market
• **Jüri Rass** - PhD, Deputy Secretary General for Construction at the Estonian Ministry of Economic Affairs and Communications:
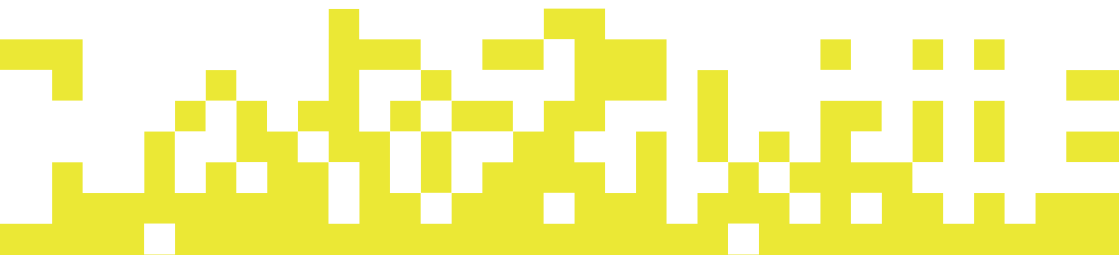*Future of the e-Construction in Estonia*
• **Evgeny Maksimov** - Project Manager, Tallinn City Property Department:
BIM-technology adoption and development in Tallinn
• **Dr. Bernd Rießland** - Sozialbau AG (Austria):
Costs of construction - opportunities and limitations of digitalisation
• **Cattis Carlén** - Housing Policy Expert, Riksbyggen (Sweden): *Digitalization of the housing sector - adding value to the tenants and members of housing co-operatives*

SESSION III PROFILES

Johannes Lutter
Urban Innovation Vienna, head of "Future Cities" department. Johannes Lutter has been working in socio-scientific analysis and policy consulting, and as a process designer and moderator since 1999. Johannes deals with various aspects of the city - from urban development strategies and housing policy, site development, and tourism strategies, to issues such as participation and local, regional, and cross-border governance. He studied Political Science at the University of Vienna, as well as at the Vienna Institute for Advance Studies (IHS). For many years, Johannes was the Deputy CEO at europaforum wien, the Viennese Centre for Urban Dialog and European Policy.
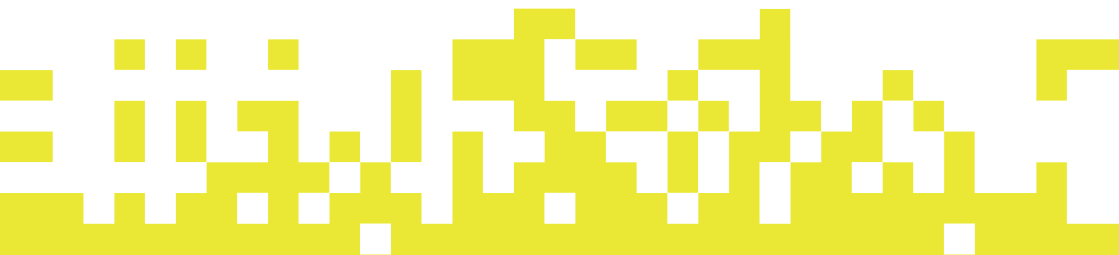
Jüri Rass
PhD, Deputy Secretary General for Construction, Ministry of Economic Affairs and Communications of Estonia. Deputy Secretary General for Construction Jüri Rass took office almost a year ago. He committed himself to the position for five years for which he had to suspend his activities of his previous life's work - a successful architectural and engineering consultancy firm Novarc Group AS, that he founded together with his partners and currently employs 65 people. Jüri is responsible for the good functioning and development of the whole Estonian construction industry. The main challenge is to create a basis for the development of digital construction practices, both in private and public sectors. For example, to establish the E-construction platform with the updated Registry of Buildings. Another aim is to create a coherent spatial development roadmap which includes measures for better spatial planning, transparency and wise use of financial resources. The further objective is to increase productivity and export capability of the construction industry via digital solutions.

Evgeny Maksimov
Project Manager, Tallinn City Property Department. EstQF level 7 Construction Engineer, Design Project Manager with 10 years practice in the field, over 6 years involved in BIM-technology development in the private sector (design, construction and production companies). Co-author of the State BIM-technology usage guide in cooperation with the State Real Estate Ltd. An active and enterprising member of the society. A dog person.

Dr. Bernd Rießland

Is a passionate advocate of affordable housing, serving as Board Member of the non-profit housing company 'Sozialbau', as Board Member of the housing co-operative 'Vindobona' and as C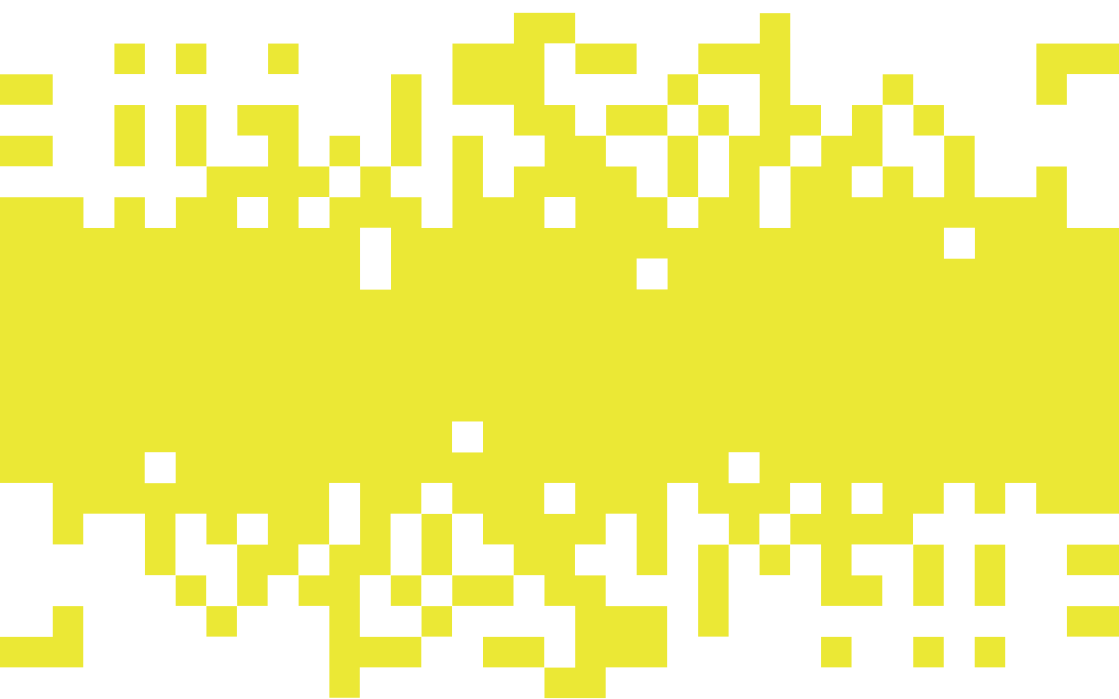hief Executive of the EGW non-profit housing company. Bernd is also Proxy Agent for 3 Non-Profit Housing Co-operatives. With a background in Building Engineering at the Technical University of Vienna and Compositional technique and piano from the Music University of Vienna, he is currently a Lecturer at the Technical University of Vienna and at the Johannes Kepler University of Linz.

Cattis Carlén

Is working as a housing policy expert at Riksbyggen. During her five years at Riksbyggen she has been working as a concept developer towards young adults and as a property strategist. She is an urban planner and human geographer. Prior to her work at Riksbyggen she has been working with various national authorities and within the civil society to solv questions around urban development, the housing market and housing for specific groups among other challenges.

INNOVATION SHOTS ROUND 2

15:00 – 15:30   INNOVATION SHOTS ROUND 2

• Behavioural change en route to nZEB through gaming - the case of Triple-A Reno

TripleA-Reno puts people at the heart of energy efficiency by recognizing that we need to know more about end-users' motivations and influences, their behaviour and habits, in relation to energy use and their acceptance for deep renovation projects. This is done in an ingenuous way: by developing an open and end-user-centered gamified (application of game-design elements and game principles) platform for decision support, quality validation / proven quality and community building. This is used during the design-phase of the renovation, the construction-phase and the in-use-phase.
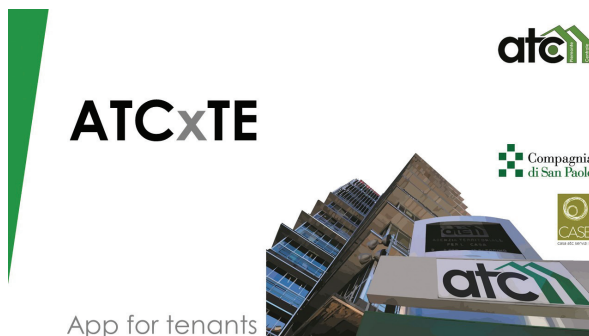

Sébastien Garnier, Innovation and Project Manager at Housing Europe will be waiting for you to tell you more about how this gamified approach will be tested in seven demonstration cases including condominiums, with social housing, located in Greece, Spain, Italy, Slovenia, The Netherlands, Romania and Hungary.

• Housing Association (ATC) Turin - Find, access, manage your home from the palm of your hand

ATC del Piemonte Centrale, supported by Compagnia di San Paolo Fundation and by ATC's subsidiary Case Srl has developed an application for smartphone to reach their tenants in a smart and innovative way. At first, there will be a beta testing trough some "area manager" designated by ATC. After about 6 months the same App will be available to everybody with extended and new features. This project was brought to life 2 years ago. The main aim was to develop a way to communicate with tenants in an interactive way. The future of this new venture

is to give the chance to pay the bills and obtain more and more documents, forms etc.

ATCxTE

App for tenants

The main features include:

- highlights from ATC
- news on maintenance for buildings
- social events
- complaints box with the chance of sending video/pictures until 100 Mb

Tenants can log in and:

- fix a date
- change household members
- have a look at their last (3) bills and know how to pay them
- see the tenants' wall (building manager, janitor, local social events)

Noemi Gallo from ATC del Piemonte Centrale will demonstrate the various functions of the app, inviting you to discuss similar initiatives by your own organisation. In over 25 years of professional experience Noemi Gallo has been mainly engaged in the technical and financial feasibility of real estates and urban regeneration projects, and in the implementation of development and entrepreneurial initiatives.

As Council Member and Assessor in a Municipality with nearly 60,000 inhabitants, she was responsible for city planning and public works policies. Noemi is a Member of the Board of Directors for Agenzia Territoriale per la Casa del Piemonte Centrale based in Italy. ATC manages the largest social housing buildings stock in Regione Piemonte. The total of the dwelling units managed by ATC is about 30,000 of which 2/3 belongs to ATC itself, while the others are property of Turin and other Municipalities. ATC owns 2 limited liability in house companies. Noemi is President and CEO at Casa ATC Servizi; with more than 100 employees the firm is focused on IT, engineering and social innovation services applied to social housing.

SESSION IV AGENDA

15:30 – 16:30   IV. LIVEABILITY FOR ALL IS THE ANSWER NO MATTER WHAT THE QUESTION IS

Smart cities are on the top of the agenda of local authorities across the globe. Smart homes are a priority for a number of businesses and housing providers. But does smart mean the same thing for all population groups? How can we make sure that the transition does not leave a significant number of people behind? Health, security and data management are just a few factors that are still raising challenges…
What is the way to move towards smart but also healthy cities? What is the most efficient way to address the question of security? What does it take to get the residents' acceptance? What is the litmus test for inclusive smart homes? How does a digital urban living environment contribute to social cohesion? International expert institutions, local authorities, academics and housing providers will contribute to an open brainstorming session about putting inclusive liveability at the core of the smart transition of our cities and homes.

• **Kevin Curran** - Professor of Cyber Security, University of Ulster:
What are the dangers in making our cities smarter and what can be done to secure them
• **Stuart Hitchman** - Eurhonet IT Topic Group Leader and Head of IT at Rooftop Housing Group:
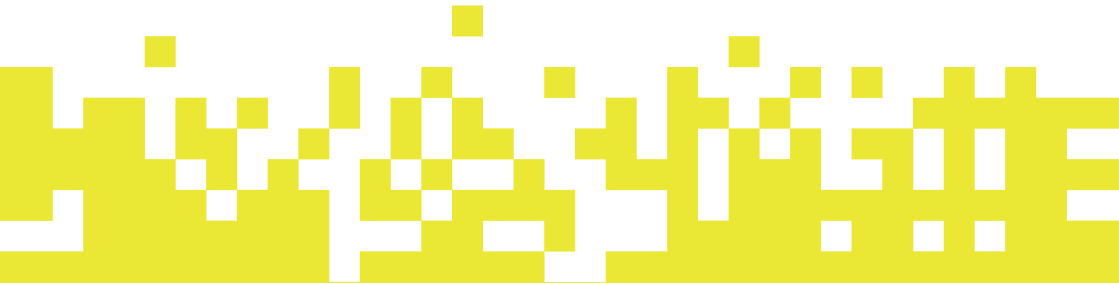*Digitalisation, a journey for business and customer*
• **Aart Wijnen** - CEO of De Twee Snoeken:
The Dutch City Deal for Data Infrastructure
• **Eha Võrk** - Tallinn City Government, Deputy Mayor:
Liveable and responsible housing in Tallinn

SESSION IV PROFILES

Aart Wijnen

CEO of De Twee Snoeken, an architectural firm and construction-software developer in 's-Hertogenbosch. Following his graduation in Architecture & Urbanism at the Technische Universiteit Eindhoven, Aart specialised in construction-related software. Some of De Twee Snoeken's recent projects include: the redecoration of Stopera (City Hall and theatre) Amsterdam, Rotterdam Business School, 's-Hertogenbosch's city offices and several housing-construction projects; the implementation of WoonConnect, De Twee Snoeken's online, dynamic 3D house configurator, in Amsterdam, Apeldoorn, Tilburg and Eindhoven ; and continuous new developments in BouwConnect, including design software and the BouwConnect Bibliotheek, Holland's smartest online BIM library.

Eha Võrk

Tallinn City Government, Deputy Mayor.
Ms Eha Võrk occupies the position of the Deputy Mayor already for eleven years, the main responsibility lies in the management of the Tallinn City Property Department. The Department deals with issues related to municipal property and residential premises, land taxation and land management, as well issues related to the construction of the city property. Ms Eha Võrk has previously worked in Tallinn Municipality since 1995.
Under the leadership of Ms Eha Võrk two Tallinn housing programmes have implemented, which allowed to mitigate housing problems for tenants from de-expropriated houses, young families and personal necessary for municipality. At present, Tallinn's residential construction programme has focused on seniors' needs. Ms Eha Võrk regards collaboration with municipality apartment associations as very important to improve city's living environment. Tallinn has several support measures for housing associations for the purpose to encourage residents to take care of their homes and home surroundings.
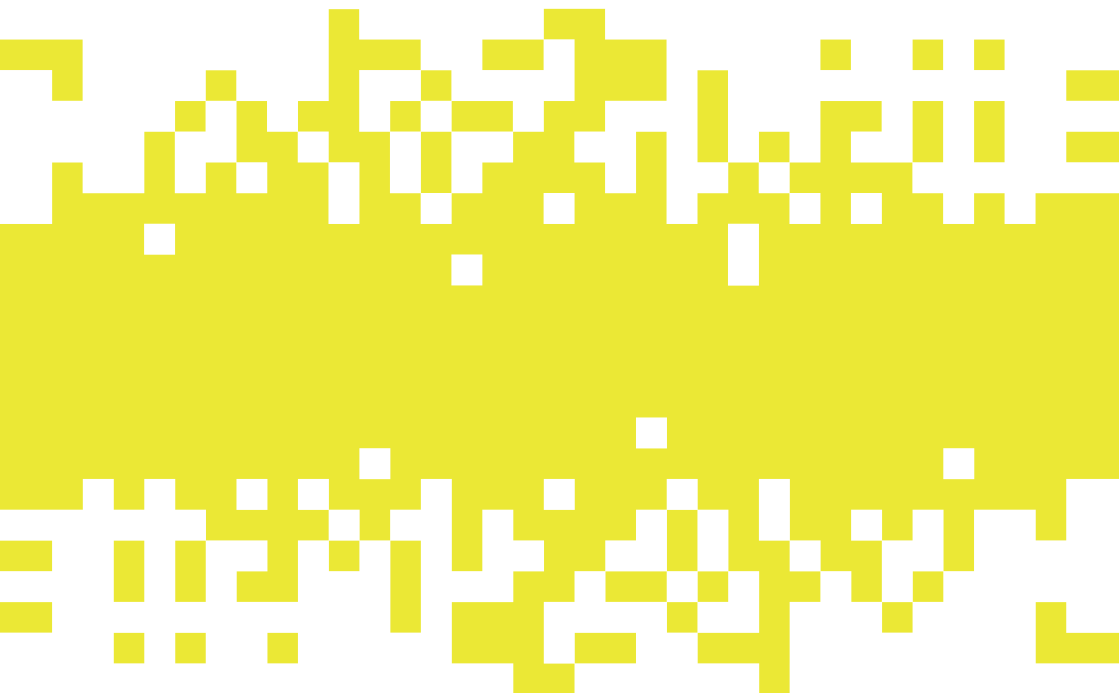
Kevin Curran

Professor of Cyber Security, Executive Co-Director of the Legal innovation Centre and group leader of the Ambient Intelligence & Virtual Worlds Research Group at Ulster University. He is also a senior member of the IEEE. Prof Curran is perhaps most well-known for his work on location positioning within indoor environments and Internet security. His expertise has been acknowledged by invitations to present his work at international conferences, overseas universities and research laboratories. He is a regular contributor on TV & radio and in trade and consumer IT magazines.

Stuart Hitchman
Head of ICT at Rooftop Housing Group, a social housing provider based in the south of the Midlands region in England. Rooftop is a 7000 housing unit business, developing 200 homes per year, and providing support and care for the elderly and young. Rooftop is also a specialist in the provision of Rural Housing and Gypsy, Roma and Traveller accommodation. Stuart has been, for the last three years, the Topic Group lead for ICT at EURHONET, a European housing network of 30+ businesses covering main land Europe, Scandinavia and the UK.

HASHTAG CONCLUSION

16:30 – 16:45   V. HASHTAG CONCLUSION

• **Eddy Adams** in a short interview with Housing Europe President, **Cédric Van Styvendael,** putting together the main takeaways of the day.

Eddy Adams is interested in cities.
He works as an Expert for URBACT, Urban Innovative Actions and the OECD, amongst others.
He is also an adviser to the Social Innovation Exchange (SIX).
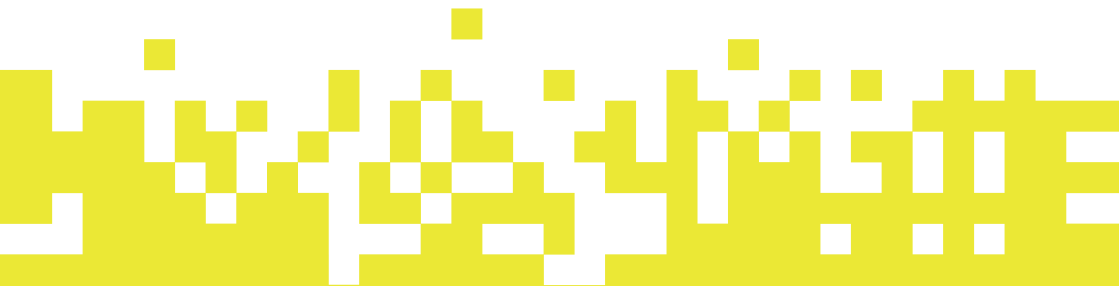
You may find him on Twitter @Eddyca1

Cédric Van Styvendael, President of Housing Europe
Cédric Van Styvendael holds a master's degree in political science and a postgraduate degree in business training. After a first experience in the public education sector in charge of urban policy issues, he joined the consulting firm Habitat et Territoires Conseil focusing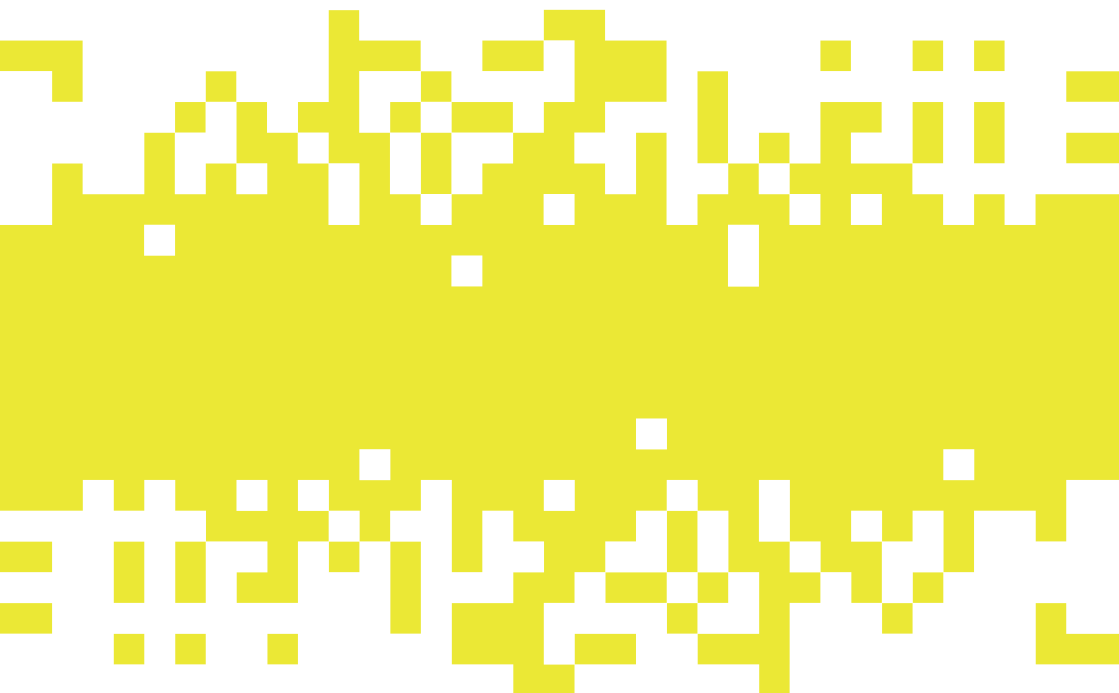 on issues of Urban Management, Urban Renewal and Strategy, Management and organization. In 2009, he became Managing Director of Villeurbanne Est Habitat and after taking over as General Director of Est Métropole Habitat he joined the Board of Housing Europe in 2015. Since June 2017 he is the President of Housing Europe, the European Federation of Public, Cooperative and Social Housing.

Twitter handle: @cvansty

THANK YOU

Your thoughts

#housingeurope30

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