This template should be completed for all ICE events, for which you require support from either the Events and/or Comms teams. It’s important that all sections of the template are filled in, as this information forms the base for all work to be undertaken by the Events and Comms teams.

Once complete, the template should be shared with both your Events team contact, and your Comms Business Partner. It is suggested that this form be mostly complete before the event kick-off meeting.

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| **General Information** | |
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| Date: | **Tuesday 18 April 2023** |
| Time: | **1100 - 1700** |
| Event Code: |  |
| Venue: | **Interchange conference, The Vox, Birmingham** |
| Rooms on hold: | **Lecture theatre** |
| Target no of Delegates: |  |
| Budget: |  |
| Online Broadcast | No |
| Recording available after the event? | No |
| Available to Non-Members? | Yes |

**ICE contacts:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | **Name** | **Email** | **Phone** |
| Producer | **Adam Kirkup** | [**Adam.kirkup@ice.org.uk**](mailto:Adam.kirkup@ice.org.uk) | **0207 665 2262** |
| Operations |  |  |  |
| Marketing | **Daxa Baradhwa** | [**Daxa.baradhwa@ice.org.uk**](mailto:Daxa.baradhwa@ice.org.uk) |  |
| Comms partner |  |  |  |
| Recording editor |  |  |  |
| Sponsorship/sales | **Perry James** | **Perry.james@ice.org.uk** |  |

**External contacts:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | **Name** | **Email** | **Phone** |
| *Event Champion* | **John Thomson** | [**president@ifmeworld.org**](mailto:president@ifmeworld.org) |  |
| *Interchange conference coordinator* | **Paul Wheeler** | [**paul.wheeler@meetingsofminds.co.uk**](mailto:paul.wheeler@meetingsofminds.co.uk) |  |
| *Interchange conference coordinator* | **Andrew Dowding** | [**andrew.dowding@meetingsofminds.co.uk**](mailto:andrew.dowding@meetingsofminds.co.uk) |  |

**Notes:**

The IFME World congress will be staged in an auditorium at the [Interchange](https://www.interchange-uk.com/) event to be held at the [Vox, Birmingham taking place 18-19 April 2023](https://www.voxvenue.co.uk/?gclid=Cj0KCQiA7bucBhCeARIsAIOwr-9E70MRUvF3bfGbfhkcqsgTqcOpTxV2tf9UemW-ope9n6wDDXTD_7caAmEaEALw_wcB). The Interchange conference is about catalysing the integrated and intelligent transport infrastructure to deliver demonstrable social, economic and environmental benefits. It convenes and connects a progressive new community of infrastructure operators, designers, builders, place makers and technologists to improve places and deliver net zero.

This complements the theme of IFME’s 20th World Congress (IFMEWC). ICE will be producing the event programme for the IFMEWC and inviting speakers from around the world to present at the event on 18 April 2022.

The dedicated theatre for IFMEWC will accommodate 220 delegates theatre style and is interconnected with the Interchange theatre which allows for sharing of keynote addresses etc.

Interchange will provide IFME with the following:

* Membership of Interchange Advisory Board
* Hosting / management of IFME ‘steering group’.
* Provision of 200 seat IFME Theatre and delivery of conference programme (designed in full consultation)
* Help in designing and managing IFME content / speaker programme
* Central turnkey 50 square metre stand
* Design, space, build, carpet electrics (including lighting) provided by Interchange
* Audio visual, furniture to be paid extras
* Conspicuous IFME branding
* Editorial content in Show Guide
* A ready provision of a venue, delegates, and complementary event activities.

**Topic:** *(one line if possible)*

*The theme of this year's congress is “Managing Infrastructure Challenges”.*

Presentations at the IFMEWC will be circa 20-minutes in duration, with allocated time for Panel discussion and/or Q&A sessions following each presentation. Presenters will be asked to focus on case study examples from around the globe which can be shared with like-minded professionals.

The IFMEWC programme will be organised around the themes of IFME members’ presentations and is dedicated to learning and connecting with other like-minded Engineers and professionals. As a result, it is an opportunity for IFME to showcase its knowledge and experiences in managing infrastructure internationally.

**Abstract:** *(as will appear on the website)*

Globalisation, localisation and the knowledge revolution are the three key driving forces in the world today. These drivers also clearly come under the gamut of an international organisation such as IFME whose member organisations represent municipal and public works engineers working at a local level.

Member countries of IFME are national municipal engineering associations including Australia, Belgium, Canada, China, Estonia, Finland, France, Iceland, Italy, Norway, New Zealand, Slovakia, South Africa, Sweden, Netherlands, United Kingdom, USA.

A key objective of the Federation is to foster technical and cultural exchange between municipal and public works engineers worldwide. International exchange of information, innovations, skills and experience is even more important in today's global world than when the Federation was first formed over 60 years ago.

International exchange of information, innovations, skills and experience is critical in today's global world. To achieve this, the IFME 20th World Congress on Municipal Engineering will bring together these global partners and will be held in association with the Institution of Civil Engineers at the Interchange conference in Birmingham on 16-19 April 2023, with the IFME curated programme being held on **Tuesday 18 April 2023**.

The theme of this year's congress is “Managing Infrastructure Challenges”. The day-long congress programme will include presentations and debates on key issues related to:

* Asset Management
* Underground Management
* Climate change issues
* Decarbonisation of transport (all types)
* Seamless multimodal journeys
* Interrelationships between the built environment, energy and transport

With guest speakers from across the globe, IFME warmly invites you to join us and share your stories and challenges with us.

**Programme (timings):**

*09:00 Registration – 60 mins*

*10:00 Welcome to Interchange – Introduction from Rachel Skinner and Stephen Norris - 30 mins*

**Morning Session – Asset management**

*Synopsis: Engineers will be squeezed between plummeting client budgets and rising input costs, requiring innovation and clever thinking to keep projects viable. This session will address how we can best manage existing assets.*

*Session 1*

*11:00 Chair’s introduction – 10 mins*

*11:10 Speaker 1. Scott Grayson, APWEA, United States of America*

*Keynote introduction – Managing $1tn.US infrastructure in conjunction with the White House. 5 mins*

*11:15 Speaker 2. David Jenkins, IPWEA, Australia*

*Infrastructure boom! – People are the priority and root to success – it’s all about capacity and capability to deliver 20 mins*

*11:35 Speaker 3. Chris Champion,* Past President, Engineers Australia

*Changing the rhetoric – how asset managers can help elected officials with infrastructure decision making – 20 mins*

*11.55 Speaker 4 & 5. Nicole Metje & Robert Huxford, United Kingdom*

*Managing and detecting underground utility assets and why National Underground Design Codes are needed – 20 mins*

*12:15 Speaker 6. Tony McGlynn.* IPWEA. New Zealand

*Managing underground space in practice - NZ Utility management Act – 20 mins*

*12.40 Panel debate – what do we need to do to better manage infrastructure assets? (all session speakers)*

*13:00 Lunch*

**Session 2 – Our future cities**

*Synopsis: Climate resilience must be at the forefront of engineers thinking in reshaping infrastructure for sustainable future cities. This session will address why professionals must seek opportunities to prepare for the effects of baked-in weather change, and how we can future-proof the design, build and manage of our urban environments.*

*14.00 – Speaker 7. Pryani de Silva-Currie.* IPWEA. New Zealand

*What’s Your Why – The Carbon Equation – 20 mins*

*14.20 – Speaker 8. Lars Johansson.* Viable Cities. Sweden

*How can we strengthen our capacity to develop climate-neutral and smart cities?- 20 mins*

*14.40 – Speaker 9. Gunnar Persson. Framtiden Byggutveckling AB. Sweden*

*Inter-relationships between the built environment, energy and transport – 20 mins*

*15:00 – Speaker 10. Eric* Båve. Former urban/regional planner in Swedish municipalities. Sweden

*Case study - Avesta district heating with hot water storage in rock caverns- 20 mins*

*15.20 – Break*

*15:40 – Speaker 11. Aaron Koskela. Forum Virium, Helsinki. Finland*

*Digital Twins for Mobility – 20 mins*

*16:00 –* Marjut Kauppinen and Mia Rantanen

*Street Lighting – Case study from the City of Helsinki – 20 mins*

*16.20 – Jeroen Schenkels. Urban Planning, City of Utrecht. Netherlands*

*Case study - Utrecht: growing fast but still remaining green – 20 mins*

*16:40 – Panel debate How do we increase the urgency to protect infrastructure assets from climate change? (All session speakers)*

*Congress close*

*17.00 – Closing summary and Presidential handover*

*17.10 – Close*

**Speaker Information** *(please make sure all the details are complete before it is sent to Events):*

*\*All information to be provided as the speaker wishes it to be used in event materials*

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| **Event Chair** | |
| Title | Mr |
| First Name | John |
| Surname | Thomson |
| Job Title | IFME President |
| Organisation | International Federation of Municipal Engineers |
| Email | [president@ifmeworld.org](mailto:president@ifmeworld.org) |
| Phone | (44) 7725252128 |
| Topic/ role in the event | *AS IFME President, John will be the compere for the event tasked with introducing the speakers and chairing panel discussions where required.* |
| Notes |  |

# Session 1 – Asset management

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| **Speaker 1 – United States of America** | |
| Title | Mr |
| First Name | Scott |
| Surname | Grayson |
| Job Title | Chief Executive Officer |
| Organisation | [American Public Works Association (APWA)](https://www.apwa.net/) |
| Email | [sgrayson@apwa.net](mailto:sgrayson@apwa.net) |
| Phone |  |
| Topic/ role in the event | Managing $1tn.US infrastructure in conjunction with the  White House.  *This presentation will focus on working with the federal government to deliver and manage its trillion-dollar infrastructure renewal programme.*  *It will consider the lessons learnt, the challenges along the way, and managing the relationships to meet the programme’s objectives.*  *This will be a recorded presentation with a live Q&A* |
| Notes | Bio  Scott Grayson serves as Chief Executive Officer for the American Public Works Association (APWA) and the Canadian Public Works Association (CPWA). In this role he provides strategic leadership and directs operations to ensure that the vision and core values of APWA and CPWA are communicated and implemented at all levels of the organization. Grayson serves as the spokesperson along with the APWA and CPWA Presidents, on behalf of APWA’s 30,000 members. He collaborates with key stakeholders in the public works sector including: the U.S. Congress, Canadian Parliament, and federal and provincial/state branches of government agencies |

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| **Speaker 2 - Australia** | |
| Title | Mr |
| First Name | David |
| Surname | Jenkins |
| Job Title | Chief Executive Officer |
| Organisation | IPWEA Australasia |
| Email | david.jenkins@ipwea.org |
| Phone | 0412 533 450 |
| Topic/ role in the event | *Infrastructure boom! – People are the priority and root to success – it’s all about capacity and capability to deliver*  This presentation will discuss comprehensive educational pathways, certification, and international recognition of the asset management profession and its capacity and capability to deliver. |
| Notes | **Bio**  Over fourteen years Oceania experience in senior leadership roles including being CEO, General Manager and Country Head. David is currently the CEO of IPWEA Australasia a role he has held for over three years.  He has led a new strategy at IPWEA focused on education creating an internationally recognised pathway for those working in public works / asset management.  The organisation, under his leadership, is focused on delivering better value for members through engagement, relevant content, better tools and service provision. The Institute of Public Works Engineering Australasia (IPWEA) is the peak association for the professionals who deliver public works and engineering services to communities. IPWEA provides services to its members and advocacy on their behalf. David has an EMBA from the University of Auckland, postgraduate at the University of Oxford and degree from the University of London.  Currently he is on the Board of IFME (International Federation of Municipal Engineering) and has resided on Boards specifically in the tertiary education arena in Australasia and the South Pacific. He commenced his professional career at McKinsey and Company and PwC in management consulting. David played professional rugby in the U.K. and represents New Zealand in age group triathlon. |

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| **Speaker 3 - Australia** | |
| Title | Mr |
| First Name | Chris |
| Surname | Champion |
| Job Title | Secretary General, IFME |
| Organisation | Past President, Engineers Australia |
| Email | [sec-gen@ifmeworld.org](mailto:sec-gen@ifmeworld.org) |
| Phone |  |
| Topic/ role in the event | *Changing the rhetoric – how asset managers can help elected*  *officials with infrastructure decision making*  This presentation will discuss how engineering professionals can best influence decision makers to support and invest in the management of public infrastructure works. |
| Notes | *Bio*  Following a 30-year professional career in municipal engineering, Chris led the Institute of Public Works Engineering Australasia (IPWEA) as CEO for 15 years to become global leaders in sustainable approaches to infrastructure asset management.    Chris has had a strong international career, established NAMS Canada for IPWEA as Director International and Executive Chair, and in 2015 was appointed Secretary General of the International Federation of Municipal Engineering. In 2009, Chris was awarded the James Hill Prize from the Institution of Civil Engineers. He was appointed by the US Federal Highways (FHWA) to their Asset Management Expert Task Group 2011-2016.    An Emeritus Fellow of IPWEA and a Fellow of Engineers Australia, Chris was elected to the Board of Engineers Australia in 2018 and was President & Chair of the EA Board in 2020. |

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| **Speaker 4 – United Kingdom** | |
| Title | Ms |
| First Name | Nicole |
| Surname | Metje |
| Job Title | Professor of Infrastructure Monitoring  Director of the National Buried Infrastructure Facility  Head of Enterprise, Engagement & Impact, School of Engineering |
| Organisation | University of Birmingham |
| Email | n.metje@bham.ac.uk |
| Phone | +44 (0) 121 414 4182 |
| Topic/ role in the event | Managing and detecting underground utility assets  *In 1500 Leonardo Da Vinci stated that we know more about the stars above us than the ground beneath our feet.  That is as true today as it was then. On average, the uncertainty of the ground conditions adds 10% to the cost of a project.  For example, over the next 20 years, the UK will invest £600bn in infrastructure projects. £60bn will be lost due to unforeseen ground conditions. In this respect, the ground poses a risk, but also an enormous opportunity to engineer our urban landscapes moving towards sustainability and resilience now and into the future. The presentation will cover an analysis of the risks of not knowing what is in the ground coupled with the opportunities that lie in the underground space.* |
| Notes | *Bio*  *Nicole Metje is Professor of Infrastructure Monitoring and Head of Enterprise, Engagement and Impact within the School of Engineering at the University of Birmingham, UK. She is also the Director for Sensors of the National Buried Infrastructure Facility (NBIF) part of the UK Collaboratorium for Research on Infrastructure and Cities.*    *Nicole leads the Geophysics research of the Birmingham-led Quantum Technologies Hub for Sensors and Timing and works closely with industry to develop sensors and novel processing methods to see through the ground to ensure that any excavation is safer and results in fewer delays. Nicole is also involved in a number of utility committees both in the UK and internationally developing standards and working on best practice and training. Her paper on assessing the impact of PAS128 in the UK has won the ICE’s James Hill prize in 2021.* |

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| **Speaker 5 – United Kingdom** | |
| Title | Mr |
| First Name | Robert |
| Surname | Huxford |
| Job Title | Director |
| Organisation | Urban Design Group |
| Email | robert.huxford@udg.org.uk |
| Phone |  |
| Topic/ role in the event | Why we need a National Underground Design Code  *This presentation will discuss the often dis-jointed nature of underground utilities works, and why a national design code for underground utility works is needed.* |
| Notes | Bio  Robert is director of the Urban Design Group, an international membership charity for people concerned about improving the design of cities, towns and villages; and, co-founder of PRIAN, the Public Realm Information and Advice Network. |

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| **Speaker 6 - New Zealand** | |
| **Title** | Mr |
| **First Name** | Tony |
| **Surname** | McGlynn |
| **Job Title** | IPWEA NZ SIG Chair for Land Development |
| **Organisation** |  |
| **Email** | [tony.mcglynn@pncc.govt.nz](mailto:tony.mcglynn@pncc.govt.nz) |
| **Phone** |  |
| **Topic/ role in the event** | Managing underground space in practice - NZ Utility management  act.  This presentation will summarise the legislative implications of the New Zealand Utility Management Act, and how this strengthened how underground space is managed in practice. |
| **Notes** | Developments Team Leader at Palmerston North City Council. Tony arrived in New Zealand (from Letterkenny, Co Donegal Ireland) in 1984. He started working with general contractors E.Carson & Sons Ltd (Upper Hutt). After 10 years on numerous large drainage projects in the Wellington region. He began working as a contracts officer for Lower Hutt City Council. After a short time, he became contracts engineer managing the Water Services division’s maintenance contracts for the city. In 2004 Tony moved north to the Manawatu area where he worked for Horizons Regional Council. Project manager for the construction of stormwater pump stations on the lower Manawatu drainage scheme. The work also included managing farm drainage schemes and stop-bank maintenance. After 4 years working at Horizons Tony moved to his current position as Developments Team Leader with Palmerston North City Council. Tony enjoys the challenge of working with the development community and ensuring that a consistently high standard of infrastructure is achieved. |

**Afternoon session – Our future Cities**

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| **Speaker 7 - New Zealand** | |
| **Title** | *Ms* |
| **First Name** | *Priyani* |
| **Surname** | *de Silva-Currie* |
| **Job Title** | Principal Asset Manage/Technical Director |
| **Organisation** | IPWEA – New Zealand |
| **Email** | [*Priyani.desilvacurrie@beca.com*](mailto:Priyani.desilvacurrie@beca.com) |
| **Phone** |  |
| **Topic/ role in the event** | *Title: What’s Your Why – The Carbon Equation*  Further information  New Zealand has a beautiful clean green image that most would love to  live in or visit, but imagine a future NZ, what does it look like? What would Climate Change do to this vision? What is your Why for even caring about this? What decarbonisation actions might you consider?  Abstract  What Is Your “Why”?  Imagine a future New Zealand (or UK) – what does it look like? What  would climate change do to this vision?  Priyani’s presentation will discuss the developments, actions and legislative requirements around the carbon equation in New Zealand and how this might relate in your part of the world. She will explain New Zealand’s principals of Kaitiakitanga (guardianship and protection), and what Climate change means for Maori, te ao Maori (world view), sustainability and environmental protections.  New Zealand has a history of solving challenges through innovation,  resourcefulness and determination. Adapting to climate change is no  different. While we can reduce damage to our environment by reducing  emissions and reducing global warming by 1.5°C, we cannot eliminate it all by ourselves, we need you alongside us. |
| **Notes** | Bio  Priyani de Silva-Currie | Principal Asset Manager/Technical Director  Priyani is an experienced government and business leader having worked for and within government and business for the past 27 years. She is a specialist in strategic asset management, governance, and leadership practice. Priyani is a strategic collaborator, who inspires through visionary leadership, passion and energy. Priyani is one of the New Zealand’s leading Asset Management practitioners and was a member of the International Infrastructure Management Manual (IIMM) update working group. She is a Teaching Fellow at University of  Auckland and lectures in Leadership and Asset Management at several tertiary institutions. Priyani possesses an extensive track record in the provision asset management services across a broad range of clients and sectors specialising in local and central government. Priyani is the President of IPWEA New Zealand, a Director of NAMS Group Ltd, and IPWEA Australasia, and the former President of Multicultural New Zealand and the Energy Management Association of New Zealand. |

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| **Speaker 8 - Sweden** | |
| **Title** | Mr |
| **First Name** | Lars |
| **Surname** | Johansson |
| **Job Title** | Change Leader / Coordinator Climate Neutral Cities 2030 |
| **Organisation** | Viable Cities |
| **Email** | [*lars.johansson@viablecities.se*](mailto:lars.johansson@viablecities.se) |
| **Phone** |  |
| **Topic/ role in the event** | How can we strengthen our capacity to develop climate-neutral and smart cities?  *Lessons learned from Swedish cities with a focus on leading innovation and transformative change*  ABSTRACT/DESCRIPTION  Cities play a crucial role in the climate transition. In the initiative “Climate Neutral Cities 2030 with a good life for everyone within the planetary boundaries”, 23 Swedish municipalities are working together to transform and reach climate neutrality by 2030. The initiative and working method is facilitated by Viable Cities – one of Sweden’s national strategic innovation programs. This method has, in parts, been copied and used as inspiration within the EU initiative called Cities Mission. This is a mission within the EU Green Deal, aiming to make 100 European cities climate neutral by 2030.  The municipalities test new ways of working, new solutions and learn from each other to create cities that work for the climate and are good for the economy of citizens, businesses, and society. This session is based on hands-on experiences from the 23 cities leading the transition to climate neutral cities by 2030 in Sweden. The cities work based on a holistic and mission-based approach to sustainable urban development.  Major changes are needed throughout society to meet the climate targets. We must work in completely new ways. This presentation will give a framework to a more holistic and multidisciplinary mindset to sustainable urban development and provide insights on how to build capacity in innovation and transformative change to lead and accelerate a climate-neutral and smart city development. |
| **Notes** | Bio  Lars Johansson is a change and innovation leader in the field of sustainability. He is an expert on how to systematically manage and accelerate the transition to viable cities and a sustainable society. He has extensive experience from management of urban developments that focuses on stakeholder cooperation, holistic and integrated thinking, system transformation and innovation.  Lars currently works at Viable Cities with the initiative “Climate Neutral Cities 2030 with a good life for everyone within the planetary boundaries”, where 23 Swedish municipalities are working together to transform and reach climate neutrality by 2030. The initiative and working method is facilitated by Viable Cities – one of Sweden’s national strategic innovation programs. This method has, in parts, been copied and used as inspiration within the EU initiative called Cities Mission. This is a mission within the EU Green Deal, aiming to make 100 European cities climate neutral by 2030.  At Viable Cities Lars Johansson main role is to coordinate, inspire and coach the 23 municipalities in the Climate Neutral Cities 2030 initiative, for example with transition support and change management at system level.  Lars has a background in politics, public administration, academia, business, and the innovation system, and has worked with sustainability and climate in various roles and contexts since 2004. Since 2019, Lars has worked within Climate Neutral Uppsala 2030 and close to Climate Neutral Enköping 2030 as an innovation leader and advisor.  Experience  · Viable Cities, Manager Climate Neutral Cities 2030, Mars 2022 - Present  · STUNS, Operations Manager Sustainable Societies, December 2019 – February 2022  · Ramboll, Specialist Manager, January 2015 - November 2019  · Ramboll, Project Manager, October 2013 - December 2014  · Malardalen Energy Agency, Project Manager, March 2012 - September 2013  · University of Linkoping, Project Manager, February 2011 - November 2011  · City of Norrkoping, Urban Planner, March 2010 - December 2010  · Vildmark i Värmland, Guide/Instructor, June 2005 - August 2010  · Social democratic party, Ombudsman for European politics, January 2005 - November 2009  · Sweden in Europe, Project Manager, 2003 - 2003  Education  · Linkoping University  Natural Sciences, Geography, Mathematics, Industrial Economy, History · (1999 - 2004)  · Stockholm University  Human geography, Economics, Statistics, Urban studies · (1995 - 1997) |

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| **Speaker 9 – Sweden – image provided** | |
| **Title** | Mr |
| **First Name** | Gunnar |
| **Surname** | Persson |
| **Job Title** | Expert of Housing and Planning |
| **Organisation** | Framtiden Byggutveckling AB |
| **Email** | [gunnar.persson@framtiden.se](mailto:gunnar.persson@framtiden.se) |
| **Phone** | +46707612210 |
| **Topic/ role in the event** | This presentation will discuss the inter-relationships between the built environment, energy and transport. |
| **Notes** | Bio  Gunnar is an Expert of Housing and Planning for Framtiden in Gothenburg, Sweden who specialise in urban development to build a sustainable society for the future.  Prior to this role, Gunnar was Head of Detail Planning Department at the City of Gothenburg’s Planning Department; Director, City Planning and Management Department, Eskilstuna municipality; Director, City Architect, Karlstad municipality; and, Deputy City Architect, Head of Comprehensive Planning for the Örebro municipality. |

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| **Speaker 10 - Sweden** | |
| **Title** | Mr |
| **First Name** | Eric |
| **Surname** | Båve |
| **Job Title** | Teacher and researcher in "Planning and Governance  of Urban and Regional Development" |
| **Organisation** | n/a - Former urban and regional planner in Swedish municipalities. |
| **Email** | [bave@kth.se](mailto:bave@kth.se) |
| **Phone** | +46708520725 |
| **Topic/ role in the event** | Case study - Avesta district heating with hot water storage in rock caverns  This presentation will cover urban planning for renewable energy, including the possibilities and limits with district heating and large-scale storage. Using the case of Avesta Town and Uppsala city, this case study will describe the role of groundwater for energy storage in rock caverns. |
| **Notes** | **Bio**  Eric Båve is part time teacher and researcher in "*Planning and Governance of Urban and Regional Development*” Royal Institute of Technology where hi was graduate as MSc Civil engineering 1978. Born in Falun 1952 and is father of Elin born 1986 and Åsa born 1988. Blood donor. He is a former urban and regional planner in Swedish municipalities as Falun, Sala, Sandviken, Smedjebacken and Örebro.   * Development Program for municipalities: Falu Municipality Development Program 1980 and 1984 * Smedjebacken Municipality Development Program 1991   Eric has produced several articles in Swedish magazine for Community planners, including:   * Stadsbyggnad, PLAN and Samhällsbyggaren. * Proceedings: North Sun 88 Solar energy at high latitudes. * Swedish Council for Building Research Stockholm 1989 * Energy and Environment. Opatia 1990   A range of research reports:   * Introduction of heat pump for single dwellings - organizational aspects. * (in Swedish) R45:88 Council for Building Research Stockholm 1988 * Circuit and hope for the future (in Swedish) 1996:02T * Luleå Tekniska Högskola * Shrinking towns. Avesta and Söderhamn post-industrial societies. |

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| **Speaker 11 - Finland** | |
| **Title** | Digital Twin for Mobility |
| **First Name** | Aaron |
| **Surname** | Koskela |
| **Job Title** | Technical Expert |
| **Organisation** | Forum Virium, Helsinki |
| **Email** | [*aaron.koskela@forumvirium.fi*](mailto:aaron.koskela@forumvirium.fi) |
| **Phone** | *+358 44500 1300* |
| **Topic/ role in the event** | Aaron will discuss the LiiDi2: Digital Twin for Mobility project which seeks to increase cities' responsiveness to the changing challenges of movement and traffic. |
| **Notes** | Bio  Aaron is Technical Expert for Forum Virium Helsinki, where he specialises in spatial data themes, IT standards and innovation projects, especially with regard to the digital twin design and development tasks utilized in traffic and street infrastructure maintenance. |

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| **Speaker 12 - Finland** | |
| **Title** | How to reduce obtrusive light in Helsinki?”, |
| **Speaker A** | Marjut Kauppinen M. Arch., Head of Public Lighting, City of Helsinki / Finland |
| **Speaker B** | Pia Rantanen |
| **Organisation** | City of Helsinki. |
| **Email** |  |
| **Phone** |  |
| **Topic/ role in the event** | City of Helsinki, as well as many other municipalities, has realized the obtrusive light problems caused by urban outdoor lighting and the urgent need to create tools to reduce it.  In terms of getting more data and user-based feedback Helsinki asked the inhabitants to point out the most irritating illuminated spaces or objects, and sources of obtrusive light or glare in Helsinki. **A record number of city dwellers responded to the survey made in 2019. The responses and open comments show that people meet obtrusive light in everyday environments.**  1) Biggest disturbance is caused by too bright advertisement screens.  2) Some glare is caused by traditional and historically valuable downtown luminaires from the 30’s, they are wire suspended pendants with opal glass shades.  3) Several areas were chosen to be preferably completely dark.  Still, there are many places in Helsinki that feel safe and are pleasantly lit, shows the survey map.    The obtrusive light study was completed in 2021. After that Helsinki has updated the outdoor lighting design instructions and the advertisement and led screen design instructions, continuing to change all light sources (appr. 94000 in the city network) to LEDs and connecting them to lighting control system.  Façade lighting design processes are under development in cooperation with members of building control department. The courtyard lighting of schools and kindergartens will follow the updated lighting design instructions from now on. Updated knowledge of the effects on ecological systems, plants, and animals, is connected to lighting guidelines and policies. In the future Helsinki will have all outdoor lighting integrated in the digital twin model.  The results of obtrusive light study affect the lighting policy and lighting guidelines in Helsinki.  With all the actions based on new knowledge Helsinki will both be safe and beautiful and will have starry skies again by 2030. This study gives contents to the lighting strategy, that leads Helsinki towards a more comprehensive, safe, resilient, nature sensitive nighttime landscape with less disturbing lighting solutions. |
| **Notes** | Bio  Urban lighting has been a crucial part of the professional work of Marjut since 1998. She had a unique opportunity to participate in the lighting design aiming at the festivities of the year 2000 when Helsinki was the Cultural Capital and had its 450th anniversary. Helsinki built over 40 lighting installations, both temporary and permanent, with international designers and high-level ambition.  Ever since, Marjut has been gathering more knowledge and experience in the field of urban lighting in several roles: as city official, consultant, teacher, architect and now as the head of public lighting of her hometown. Her objective is to develop harmonious and safe nighttime cityscape in Helsinki with clear views of the starry skies. |

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| **Speaker 13 – Netherlands** | |
| **Title** | Utrecht: growing fast but still remaining green |
| **First Name** | Jeroen |
| **Surname** | Schenkels |
| **Job Title** | Senior advisor/project leader |
| **Organisation** | Urban Planning, City of Utrecht |
| **Email** | j.schenkels@utrecht.nl |
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| **Topic/ role in the event** | In 2024, Utrecht will be the host city for the Future Green City world congress. Utrecht is the fastest growing city in the Netherlands. Utrecht wants to give space to this growth, while retaining its identity. With affordable homes, a green, attractive, and healthy living environment with good accessibility. Healthy growth for everyone. Greening and densifying the city in a good balance.  The green area must grow along with the growth of the city, based on the starting point, green unless. Utrecht is the only Dutch city to participate in the EU Green City Accord and was recently selected for the 100 Climate Neutral Cities network. Jeroen Schenkels, senior advisor for the green city program explains what is needed for this: guts, ambition, and teamwork. Moreover, the resident is given a central role in strategy and implementation. Who isn't looking for that? |
| **Notes** | Bio  Jeroen Schenkels has a background in Biology and Environmental studies. He has worked since 1989 at the municipality of Utrecht as a senior advisor senior advisor Healthy living climate and greenplanning. |