

# 8th ECTP Conference - When EU Construction industry shapes high-tech Sustainable Built Environment

hosted by ECTP



## CONFERENCE Programme - Day 1

Tuesday November 13 (morning)	
09:15-09:45	<u>Coffee break and Innovation Cases Exhibition (Terarken II+III)</u>
<b><u>OPENING SESSION: Main Expectations and Challenges of the Built Environment and the Construction Sector - towards HORIZON EUROPE (1)</u></b>	
<b>Amphitheater "Studio"</b>	
Welcome & Chair: Built Environment and Construction sector supporting European Society, Environment and Economy - <b>Emmanuel Forest</b> (Bouygues, ECTP President)	
10:00-11:10	Keynote from <b>Jürgen Tiedje</b> (European Commission, DG Research & Innovation, Head of Unit D2) - Embracing new challenges: digitising and industrializing construction activities Keynote from <b>Haitze Siemers</b> (European Commission, DG ENERGY, Head of Unit C2) on European Smart Cities & Communities context Keynote from <b>Kjetil Tonning</b> (FIEC President) - Will Horizon Europe be fit for purpose for the construction industry?
<b><u>Main Expectations and Challenges of the Built Environment and the Construction Sector - towards HORIZON EUROPE (2)</u></b>	
<b>Amphitheater "Studio"</b>	
Chair: <b>Alain Zarli</b> (ECTP Secretary General)	
11:15-12:15	Keynote from <b>Marie Yeroyanni</b> (European Commission, DG Research & Innovation) and <b>Ugo Guarnacci</b> (EC EASME) - The New EU Strategic Research and Innovation Agenda on cities Keynote from <b>Antoine Aslanides</b> (EDF, EeB cPPP Co-Chair) - The vision of ECTP and the EeB cPPP to structure comprehensive objectives and foster impacts of R&I projects Keynote from <b>Emanuela de Menna</b> (European Commission, DG Research & Innovation, Unit I3) - EU R&I topics and actions for Cultural Heritage under Horizon 2020 "Heritage Alive" Introduction to the Conference agenda & parallel sessions - <b>Alain Zarli</b> (ECTP Secretary General)
12:15-13:00	<u>Lunch and Innovation Cases Exhibition (Terarken II+III)</u>
Tuesday November 13 (afternoon)	
PARALLEL SESSIONS: How the Built Environment innovates in various fields (Part 1)	
13:00-18:15	<b>Amphitheater "Studio"</b>
<b><u>CONSTRUCTION INNOVATION FOR THE TRANSPORT INFRASTRUCTURE OF THE FUTURE</u></b>	
Chairs: <b>Miguel Segarra</b> (Dragados, ECTP Vice-President on Infrastructures & Mobility), <b>Clemente Fuggini</b> (RINA)	
13:00-14:30	1. Introduction - <b>Miguel Segarra</b> (Dragados) & <b>Clemente Fuggini</b> (RINA) 2. The role of technology and innovation in achieving safe and efficient construction sites - <b>David Shipman</b> (Network Rail) 3. How digitalization impacts design, construction and asset management - <b>Ruud Smit</b> (Rijkswaterstaat) 4. The next generation of infrastructure control and monitoring - <b>Petr Hradil</b> (VTT) 2. FORx4 initiative as a way of strengthening cooperation and paving the way for a sustainable RDI plan in Transport Infrastructure - <b>Thierry Goger</b> (FEHRL)
<b>Terarken I</b>	
<b><u>MATERIALS AND SUSTAINABILITY INNOVATION IN CONSTRUCTION</u></b>	
Chairs: <b>Christian Artelt</b> (HeidelbergCement, ECTP Vice-President on Materials & Sustainability), <b>Gian Marco Revel</b> (Università Politecnica delle Marche)	
13:00-14:30	1. Welcome - <b>Olga Rio Suarez</b> (European Commission, DG Research & Innovation, Advanced materials & nanotechnologies Unit) 2. ECTP Materials & Sustainability Horizon Europe Position Paper - <b>Gian-Marco Revel</b> (Università Politecnica delle Marche) 3. Circular economy around concrete - <b>François de Larrard</b> (LafargeHolcim) 4. Future trends in ceramic industry - <b>Luis Guaita</b> (Keraben) 5. EUMAT Materials Platform - Challenges in end user's comfort and risk assessment - <b>Amaya Igartua</b> (Fundación Tekniker)
<b><u>THE EeB cPPP AS A CATALYZER OF THE MOST PROMISING TECHNOLOGIES FOR A SUSTAINABLE AND ENERGY EFFICIENT BUILDING STOCK IN EUROPE</u></b>	
Chairs: <b>Javier Bonilla</b> (Acciona, ECTP Vice-President on Energy Efficient Buildings), <b>Carlos Saraiva-Martins</b> (European Commission, DG Research & Innovation)	
14:45-16:15	1. Welcome - <b>Carlos Saraiva-Martins</b> (EC DG Research & Innovation) 2. Introduction to the most interesting technologies focus - <b>Javier Bonilla</b> (Acciona) 3. Presentations of most promising technologies from the EeB cPPP projects: • <b>Advanced materials solutions: Alternative binders for a sustainable built environment: SUSCON alkali activated concrete</b> - <b>Alessandro Largo</b> (CETMA) • <b>HVAC &amp; Lightning: HELIOPACSYSTEM+ PV/T Solar Collectors combined with water-to-water Heat Pump</b> - <b>Romain Jost</b> (HELIOPAC – SCORES Project) • <b>Monitoring: TOPAs CORE</b> - <b>Alan McGibney</b> (Cork Institute of Technology) • <b>Urban &amp; District Solutions: EFFESUS Decision Support Tool</b> - <b>Isabel Rodriguez-Maribona</b> (Tecnalia, ECTP Vice-President on Heritage & Regeneration) 4. EffiBUILDING: a platform to disseminate and exploit your project results - <b>Fabrizio Perrotta</b> (AMIREs)
<b><u>BUILDING AN AGE-FRIENDLY EUROPE</u></b>	
Chairs: <b>Alexander Peine</b> (Utrecht University, ECTP Vice-President on Active Ageing & Design), <b>Gian Marco Revel</b> (Università Politecnica delle Marche)	
14:45-16:15	1. A European Reference Framework for Age-friendly Housing - <b>Horst Kraemer</b> (European Commission, DG CONNECT) 2. Smart Environments for ageing people: potentials for innovative services - <b>Sara Casaccia</b> (Università Politecnica delle Marche) 3. Age friendly cities — The connected home in its neighbourhood context - <b>Marta Fernandez</b> (RMIT Europe) 4. Bringing in the perspective of older persons - <b>Julia Wadoux</b> (AGE Platform Europe)
16:15-16:45	<u>Coffee break and Innovation Cases Exhibition (Terarken II+III)</u>
<b><u>JOINT PLENARY ASSEMBLY OF E2B AND I&amp;M COMMITTEES</u></b>	
Chairs: <b>Javier Bonilla</b> (Acciona, ECTP Vice-President on Energy Efficient Buildings), <b>Miguel Segarra</b> (Dragados, ECTP Vice-President on Infrastructures & Mobility)	
16:45-18:15	1. Presentation of E2B Committee activities - <b>Javier Bonilla</b> (Acciona, E2B Committee Chair) 2. Presentation of I&M Committee activities - <b>Miguel Segarra</b> (Dragados, I&M Committee Chair) 3. Resilience of European Infrastructures and Buildings to extreme events and aging processes - <b>Donato Zangani</b> & <b>Clemente Fuggini</b> (RINA) 4. The circular and digital city – technology, stakeholders and business models - <b>Martin Pauli</b> (ARUP)
<b><u>LIVING IN A POSITIVE ENERGY DISTRICT: COMBINING TECHNOLOGIES FOR A HIGHER QUALITY OF LIFE</u></b>	
Chairs: <b>Paul Cartuyvels</b> (Bouygues Europe, ECTP Presidency), <b>Yrsa Cronhjort</b> (VTT, Senior Scientist)	
16:45-18:15	<i>This panel aims at an innovative approach for urban development: it will combine the state of the art and future of Positive Energy Blocks with exploring solutions based on traditional concepts and affordable resources to facilitate implementation in financially tight contexts. The final objective always remains the improvement of quality of life for the largest number of citizens with the lowest environmental impact.</i>  * HIKARI in Lyon: the PEB pioneer, technological and societal return of experience - <b>Edward Woods</b> (BOUYGUES Immobilier) * Nordic positive districts, in particular cases from Finland - <b>Francesco Reda</b> (VTT) * Tivoli Green District in Brussels: the promise of a social and environmental paradigm for future urban development - <b>Benjamin Cadranet</b> (CITYDEV) * Presentation of the Smart Cities Information System (SCIS) - <b>Tatiana Pasquel Garcia</b> (VITO) * Innovative solutions to facilitate energy efficiency deployment in districts and cities with a financial constraint - <b>Oliver Rapf</b> (BPIE)
20:00-22:00	<u>Conference Dinner (KWINT, Mont des Arts 1, 1000 Brussels)</u>

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## CONFERENCE Programme - Day 2

### Wednesday November 14 (morning)

8:45-11:45		PARALLEL SESSIONS: How the Built Environment innovates in various fields (Part 2)	
		<b>Amphitheater "Studio"</b>	<b>Terarken I</b>
		<b>INDUSTRIALISATION OF THE CONSTRUCTION SECTOR</b>	<b>DIGITALISATION OF THE CONSTRUCTION SECTOR</b>
		<b>Chairs: Sue Arundale</b> (ECCREDI President/FIEC TEC Director), <b>Johan Vyncke</b> (ECCREDI / BBRI)	<b>Chairs: Isabel Pinto-Seppä</b> (VTT), <b>Rita Moura</b> (Teixeira Duarte / PTPC)
8:45-10:15		<ol style="list-style-type: none"> <li>1. JUST DO IT! How to inspire construction companies on 3D printing and other new technologies - <b>Jonathan Verdonck</b> (Kamp C, Project leader)</li> <li>2. The impact of industrialisation on the productivity gap - <b>David Rockhill</b> (McKinsey &amp; Company Inc)</li> <li>3. Energy efficiency as a catalyst for industrialisation and digitalisation (Case Study) - <b>Maarten Hommelberg</b> (Stroom Versnelling)</li> <li>4. <i>Panel Discussion</i> Industrialisation: Digital construction and pre-fabrication two sides of the same coin? (Moderator: <b>Sue Arundale</b>)</li> </ol>	<ol style="list-style-type: none"> <li>1. Digital Transformation - Transforming the Way we Shape our Built Environment - <b>Laura Tordera</b> (ENCORD Secretary General)</li> <li>2. Digitalisation of the Construction sector - <b>Luigi Perissich</b> (Federcostruzioni)</li> <li>3. Towards intelligent and efficient communities through modelling and data - <b>Valeria Ferrando</b> (IES)</li> <li>4. Innovative digital technologies for multi-domain comfort management - <b>Gian Marco Revel</b> (Università Politecnica delle Marche)</li> <li>5. Building a Smart Built Environment Ecosystem - <b>Yrsa Cronhjort</b> (VTT)</li> <li>6. Digitalisation in the infrastructure lifecycle - <b>Javier Royo</b> (Ferrovial)</li> </ol>
		<b>PROMOTING INNOVATIVE BUSINESS MODELS FOR ENERGY EFFICIENT RENOVATION</b>	<b>BOOSTING INNOVATION WITH LIVING LABS</b>
		<b>Chairs: Karine Laffont-Eloire</b> (DOWEL Management)	<b>Chairs: Kristina Mjörnell</b> (RISE, President of ENBRI), <b>Peter Richner</b> (ENBRI/Empa)
10:15-11:45		<ol style="list-style-type: none"> <li>1. Welcome and outline of the STUNNING project – <b>Karine Laffont-Eloire</b> (DOWEL Management)</li> <li>2. Promising business models for building refurbishment: First findings of STUNNING – <b>Donato Zangani</b> (RINA)</li> <li>3. Business Models and Open Innovation to engage SMEs along the value chain - Challenges for replication and business cases from PVAdapt - <b>Stefano Carosio</b> (Unismart)</li> <li>4. Energiespong and its replication to France - <b>Sébastien Delpont</b> (GreenFlex / EnergieSprong France)</li> <li>5. Boosting renovation: the Better Home initiative - <b>Susanne Dyrbøl</b> (Rockwool)</li> <li>6. <i>Panel discussion</i> : Replicability of successful business models and how to accelerate their replication (Moderator: <b>Karine Laffont-Eloire</b>)</li> </ol>	<p><i>The goal of the session is to give an overview on the different incarnations of living labs which have or are in the process to be established across Europe. The presentations aim at describing the characteristics of the different concepts including the type of partnership, the impact on innovation in the building sector and the contribution to the energy and climate goals related to buildings.</i></p> <ol style="list-style-type: none"> <li>1. Opening of session, Introduction of presentations and speakers - <b>Kristina Mjörnell</b> (RISE)</li> <li>2. The Living Lab initiative - <b>Marc Pallot</b> (ENSAM)</li> <li>3. NEST – Boosting Innovation in the Construction Sector - <b>Peter Richner</b> (Empa)</li> <li>4. Hub in the city for material and equipment delivery - <b>Johan Van Dessel</b> (BBRI)</li> <li>5. Living Lab Norrby-society, citizens and technology - <b>Julia Jonasson</b> (RISE)</li> <li>6. Wrap up, conclusion, closing session - <b>Kristina Mjörnell</b> (RISE)</li> </ol>
11:45-12:00		<a href="#">Coffee break and Innovation Cases Exhibition (Terarken II+III)</a>	
<b>Wednesday November 14 (afternoon)</b>			
12:00-14:00		<b>PLENARY CLOSING SESSION: Future RDI needs, priorities and partnerships for the Built Environment</b>	
		<b>Amphitheater "Studio"</b>	
12:00-12:20		<b>Chair: Alain Zarli</b> (ECTP Secretary General)	
		Signature of MoUs - ECTP-FEHL and ECTP-ENCORD	
		<b>Chair: Emmanuel Forest</b> (Bouygues, ECTP President)	
		The role of Cultural Heritage in re-naturing cities: learning from the past, designing for the future / EU project ThinkNature - <b>Sara Van Rompaey</b> (E <sup>2</sup> ARC)	
		User-centered design: methods and applications - <b>Joanna Syrda</b> (ASM)	
		<b>Concluding Round Table: Which focus as regards the future RDI needs of the Built Environment sector?</b>	
12:20-14:00		Moderator: <b>Emmanuel Forest</b> (Bouygues, ECTP President) <ul style="list-style-type: none"> <li>o <b>Christian Artelt</b> (HeidelbergCement, ECTP Materials &amp; Sustainability Committee Chair)</li> <li>o <b>Antoine Aslanides</b>, (EDF, EeB cPPP Co-Chair)</li> <li>o <b>Javier Bonilla</b> (Acciona, ECTP Energy Efficient Buildings Committee Chair)</li> <li>o <b>Isabel Rodriguez</b> (Tecnalia, ECTP Heritage &amp; Regeneration Committee Chair)</li> <li>o <b>Miguel Segarra</b> (Dragados, ECTP Infrastructure &amp; Mobility Committee Chair)</li> </ul>	
14:00-15:00		<a href="#">Lunch and Innovation Cases Exhibition (Terarken II+III)</a>	

**Conference venue:**  
[Palais des Beaux Arts / Centre for Fine Arts](#)  
 23 Rue Ravenstein, 1000 Brussels, Belgium

