



SASBE 2025 Lille, France

3rd to 5th November 2025



SMART AND SUSTAINABLE
BUILT ENVIRONMENT

BUILDING RENOVATION
AND RESTORATION

A GLOBAL NETWORK
OF BUILDING AND
CONSTRUCTION
PROFESSIONALS

WELCOME TO LILLE

WELCOME TO FRANCE

COLLABORATION



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WELCOME

MESSAGE FROM SASBE 2025 CHAIRMAN

Dear participants of the SASBE Conference in Lille (France),

It is my great pleasure, as Chairman of the Organising Committee of the international SASBE 2025 conference (*Smart and Sustainable Built Environment*), to welcome you to this major event, which is taking place from 3 to 5 November.

We are on the brink of a remarkable transformation in the construction sector. This conference provides a **unique opportunity** to bring together **innovative thinkers** to address **critical issues** and explore **bold solutions**. Construction, a longstanding pillar of our societies, is undergoing profound change. We are witnessing a **paradigm shift** driven by **globalisation, digitalisation, urbanisation** and the increasing demand for **sustainability**.

Our goal is clear: to **optimise the use of resources**, improve **quality and working conditions**, and build a **more responsible future**. Given that the construction sector contributes significantly to global **CO₂ emissions**, it is crucial that we design structures that are **resilient, aesthetically pleasing, and environmentally respectful**. The future belongs to **green buildings, low-carbon materials, and high-efficiency technologies**.

The rapid adoption of technologies such as **artificial intelligence** and **building information modelling (BIM)** brings new **opportunities and challenges**. It is crucial that the **human workforce** keeps pace with this **technological revolution**. Meanwhile, fast-paced **urbanisation** is putting increasing pressure on our infrastructure. We have a responsibility to shape **smart, sustainable and inclusive cities** that meet the needs of all.

In this context, **sustainable renovation** and **material circularity** are key ways of preserving the planet's resources.

This year, we are honoured to welcome **construction pioneers from around the world** to inspire you. Particular focus will be given to **young talent**, who will present the **key findings** of their research. All sessions are designed to be **interactive**, with dedicated **Q&A segments** to encourage dialogue between speakers and participants.

I would like to express my **sincere gratitude** to everyone who generously contributed their time to organising this conference, in both **administrative and technical roles**. My warmest thanks also go to the **external reviewers**, whose input ensured the conference's **high scientific quality**. Thanks are also due to the **Scientific Committee**, chaired by **Dr Abiola Akanmu** and **Dr M. Reza Hosseini**; the **Local Organising Committee**; and the **Honorary Chair, Prof Farzad Pour Rahimian**, for their dedication and hard work.

Thanks also go to our **partners and sponsors** for their **unwavering support**, to our **speakers** for sharing their expertise, and to you, the **participants**, for bringing this **vibrant community** to life.

Finally, I would like to pay special tribute to **Professor Jeremy Gibberd, Honorary President of SASBE**, who passed away in **South Africa** this year. He dedicated over **20 years** to planning, designing and managing the **built environment**.

SASBE is also a unique opportunity for cultural discovery. Beyond the scientific presentations, it is the **informal exchanges** that spark ideas and strengthen collaborations. With the support of the **Métropole Européenne de Lille**, we hope you will take the time to explore our **historic city centre** and visit museums such as the **Louvre-Lens**. You could even enjoy the **Opal Coast** and its beaches, the **birthplace of land sailing since 1905**.

Once again, welcome to SASBE 2025! Together, let's build a better future.

Best regards

Prof. Dr. Zoubair LAFHAJ,

Full Professor at Centrale Lille Institute
Chair Holder in Construction 4.0
Founder and President of IFCL
(French Institute of Lean Construction)



SASBE TOPICS

The SASBE topics are organized around 4 thematic axes, the content of which remains open (they are provided as examples):

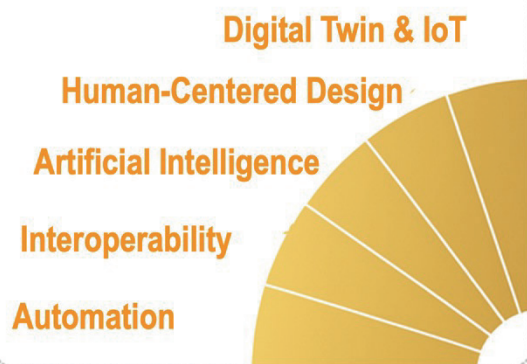
CLUSTER 1 Technologies and data for the built environment

CLUSTER 2 Sustainability, climate, and ecological transition

CLUSTER 3 Sustainable Urban Planning and Quality of Life

CLUSTER 4 Management, Governance, and Knowledge

Technologies and Data



Sustainability and Climate



SASBE 2025 IN LILLE

The *Smart and Sustainable Built Environment* (SASBE) journal has emerged as an authority in the field, hosting cutting-edge research on intelligent and sustainable building practices. It has achieved a remarkable milestone in the Scopus CiteScore tracker (over 12), positioning itself as the number one journal in architecture and cultural studies and ranking among the top 10 in civil and construction engineering based on Scopus data.

Additionally, SASBE Conference Series is one of the flagship events representing CIB W116, the largest and one of the oldest commissions of the International Council for Research and Innovation in Building and Construction (CIB).

CIB W116 focuses on the integrated development of intelligent and sustainable aspects of the built environment, promoting high-performance and innovative solutions for improved sustainability. Its work program includes organising CIB-SASBE conferences and facilitating knowledge dissemination on research and best practices through conference proceedings.

As a global network of building and construction professionals, CIB enhances industry performance through international collaboration and information exchange. Founded in 1953, it plays a pivotal role in advancing research and innovation in the built environment. By fostering multidisciplinary approaches that consider functional use and interaction with the natural environment, CIB continues to drive progress in sustainable and intelligent construction solutions.

In addition, SASBE 2025 proposes you workshop, titled **“Sustainable and Circular Construction”** – Wednesday, November 5, 2–4 PM. A French-language event featuring 5 inspiring expert talks on AI, bio-based materials, ecosocial design, lean-digital methods, and integrated delivery models. Tackling the key challenges of the ecological transition in the built environment.





LILLE WELCOME YOU

Lille, a city with a rich history, is believed to have been founded in 640 by the giants Lydéric and Phinaert, according to legend. However, the earliest documented evidence of Lille dates back to 1066.

Throughout its existence, Lille has experienced various periods of Flemish, Burgundian, and Spanish rule before finally becoming French in 1667 during the conquest by Louis XIV. Over the centuries, the city expanded continuously and has now become the fourth-largest metropolis in France.

Lille is often referred to as the **“Capital of Flanders”** in France, despite belonging to the historical region of Romance Flanders, which is distinct from the Flemish-speaking area. During the Middle Ages, Lille was organized around the forum, the market square (now the Grand’Place), and the castrum (now Vieux-Lille). The castrum was a fortified urban core protected by waterways, housing significant landmarks such as the motte châtelaine and the residence of the Counts of Flanders, known as the Palais de la Salle.

During the War of Spanish Succession, Lille briefly fell under Dutch control but was definitively returned to French rule in 1713 through the Treaty of Utrecht.

In response to the industrial crisis of the 1970s, Lille underwent a period of reconversion focused on developing the tertiary sector. The city transitioned from a manufacturing center to a hub of offices and services, reviving its historical role as a trading center. Lille witnessed several notable

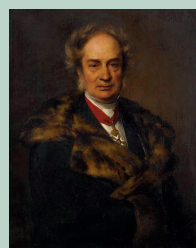
innovations, including the creation of the world’s first automatic light metro and the establishment of high-speed train connections such as the Lille-Paris TGV in 1993 and the Lille-London connection through the Channel Tunnel in 1994. These developments, along with the construction of the Euralille business district, positioned Lille as a confident and forward-thinking city in the new millennium.

INFLUENTIAL FIGURES IN LILLE

Frédéric Kuhlmann

(1803-1881)

by Franz Xaver Winterhalter (Arts Museum, Lille)



Kuhlmann is a French chemist, university researcher and industrialist. A pioneer in the application of science to the industrial arts from 1823, he founded Établissements Kuhlmann, one of the leading French chemical industrial groups of the nineteenth century, which became Péchiney-Ugine-Kuhlmann in the twentieth century.

He is co-founder of the Crédit du Nord bank, the Industrial Society and the « Institut Industriel du Nord » (the actual **Centrale Lille Institute**). He is a corresponding member of the Académie des Sciences.

Pr. Dr. Louis Pasteur

(1822-1895) - Biologist

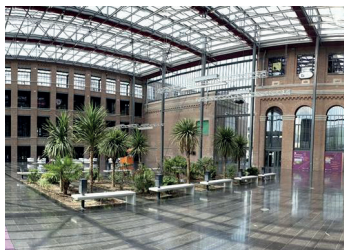
Pasteur was one of the first in France to establish fruitful links between higher education and the chemical industry. He was the 1st Dean of the Lille Faculty of Science, established in 1854.

His work in the Lille sugar beet distillery led to the presentation of his dissertation on lactic fermentation at the Lille Science Society. His first dean was Louis Pasteur. He became famous for his invention of vaccines.



As the fourth-largest metropolis in France, Lille serves as an international hub and a dynamic economic center. It is recognized as a “tourist resort” and a “City of Art and History.” Lille received the distinction of being the European Capital of Culture in 2004 and was designated the World Design Capital in 2020.

The European Metropolis of Lille (MEL) is composed of the cities of Lille, Roubaix, and Tourcoing, and has a population of 1.2 million in the Hauts-de-France region. From its origins as a trading city, Lille became a major industrial capital during the industrial revolution, primarily in the textile and mechanical industries.



The development of a student and university hub (currently the third largest in France with over 110,000 students, behind Paris and Lyon), particularly with its prestigious engineering schools, makes the

MEL an innovative, entrepreneurial, dynamic, and international metropolis. Some of the unique features of this ecosystem include institutions such as **INRIA** and the **Euratechnologies** center (innovation in the field of information and communication technologies), the **Eurasanté center** (one of the leading centers of excellence in Europe for the development of health and biotechnology industries), and the **Plaine Images** (an excellence hub dedicated to creative industries in image, sound, and digital technologies), a place of innovation and growth for companies specializing in video games, virtual reality, and media.

These factors make Lille an ideal and indispensable location for research and innovation in Europe.



Pr. Dr. Robert Gabillard
(1926-2012)

He is a researcher and physicist at the University of Lille. In

1971, he invented a new automatic train control system, which was later patented, and entrusted MATRA with its implementation. For twelve years, Professor Gabillard, acting as advisor to the Urban Community, helped MATRA develop its initial ideas and perfect the world's first VAL (driverless light vehicle). The VAL has since been exported to Toulouse, Rennes, Turin, Uijeongbu, Taipei, Seoul and the airports of Paris and Chicago.



CENTRALE LILLE INSTITUTE

The Centrale Lille Institute brings together nearly 2,000 students in an engineering cluster comprising 4 Graduate Schools, 9 masters programmes (3 are international), 2 doctoral schools and 7 research centres. The Institute represents the deployment of a unique model based on a genuine synergy of resources and actions at the service of training, research and the dynamics of the site.

The institution is highly recognized for its commitment to research and innovation across various engineering fields, including mechanics, construction, materials, energy, computer science, industrial systems, and chemistry. The researchers engage in both fundamental and applied research projects in collaboration with industrial and institutional partners.

Centrale Lille Institute (CLI) closely collaborates with companies and industries to foster technology transfer and innovation. The institute participates in joint research projects, industrial research contracts, and chairs, as well as providing internships and tailored training programs to meet the specific needs of businesses.

Entrepreneurship and innovation are actively encouraged at CLI, as the institute provides support to students and researchers aiming to establish their own ventures. CLI operates an incubator that offers guidance, resources, and facilitates interactions within the entrepreneurial ecosystem.

Furthermore, CLI maintains partnerships with **prestigious universities worldwide**. These collaborations promote scientific exchange, international collaborations, and enhance the institution's expertise in a global context. Centrale Lille also offers continuous training programs for professionals to stay up-to-date with the latest technological advancements and industry practices. These programs enable participants to develop new skills and enhance their employability.

In summary, Centrale Lille Institute is deeply committed to **research and innovation** through its academic research activities, industry partnerships, support for entrepreneurship, national and international collaborations, and its provision of continuous training programs. These initiatives contribute to the generation of knowledge, value creation, and the development of innovative solutions in the field of engineering.

KEYNOTE SPEAKERS

WELCOME SESSION

MONDAY NOVEMBER 3rd

Prof. Dr. Zoubeir LAFHAJ
Centrale Lille Institute - France



Zoubeir Lafhaj is a full Professor in Construction at Centrale Lille Institute (France) since 1994. He has been instrumental in advocating for the incorporation of Lean Construction principles and digital transformation in the construction industry, particularly in Europe. He is the founder and President of the French Lean Construction Institute, established in 2021. Zoubeir's research and publications on Lean Construction have significantly contributed to a deeper understanding of its principles in the construction industry. Author of five books on the challenges of construction, including *The Lean Construction Revolution*, he has bridged the gap between theory and practice, emphasizing continuous improvement and value creation. His work has focused on the intersection of Lean Construction and emerging technologies like BIM and Digital Twin. He has explored how these technologies enhance information flow, improve project management efficiency—such as through IPD and AWP—and foster collaborative practices. He advocates for adopting Lean principles to promote sustainable practices, highlighting the potential for waste reduction, improved efficiency, and a reduced environmental impact in construction activities.

Prof. Dr. Martin FISCHER
University Stanford University - USA



Martin is known globally for his research and leadership in developing digital methods to increase the productivity of design and construction project teams, enhance the performance and sustainability of constructed facilities, and create new strategic opportunities for firms in the construction industry. His award-winning research results have been used operationally and strategically by many industrial and government organizations around the world. He is the lead author of the book *"Integrating Project*

Delivery" published by Wiley in 2017, has written over 150 refereed journal articles and book chapters, and given over 200 keynote and plenary lectures. He has been or is the principal thesis advisor for over 70 Ph.D. students and has lived, worked, consulted, and taught in Europe, South America, North America, the Middle East, Asia, Australia, and Africa.

Prof. Dr. Tarek ZAYED
The Hong Kong Polytechnic University



Prof. Zayed has a Ph.D., M.Sc., and B.Sc. in Construction Engineering and Management. He has 30 years of professional experience working in the construction industry training and in academic posts in USA, Canada and abroad. Prof. Zayed conducted research on infrastructure management, simulation and artificial intelligent applications in construction, asset performance, scheduling, life cycle cost (LCC) analysis, budget allocation, and risk assessment for construction and rehabilitation of highways, oil and gas pipelines, water and sewer systems, and bridges. Recent developments include condition rating, deterioration, and LCC technology-based models for bridge deck; water, sewer, oil & gas pipelines; tunnels and metro stations; water / sewer treatment plant elements; and sustainability of buildings.

Prof. Dr. Thomas BOCK
Technical University Munich (TUM) - Germany



Thomas Bock's research activities have focused on robotic construction for 45 years, including aspects such as design, prefabrication, on-site robotics, robotic building maintenance, and recycling. He is also an expert in the development of technologies for the elderly for independent living, working and mobility. Thomas Bock studied at the University of Stuttgart, the IIT in Chicago and the University of Tokyo. He founded the first European Com-

mission on Construction Robotics at the CNRS in France and became Professor of Automation in Construction Management at the Faculty of Civil Engineering at the University of Karlsruhe in 1989, before becoming Professor of Building Realization and Robotics at the Technical University of Munich in 1997. He is co-founder and director of organizations such as IAARC and the Asian Habitat Society, and advises ministries, academies, centers and companies worldwide. In 2017, he received the DFG Seibold Award for 35 years of pioneering research in construction robotics. Thomas Bock has co-authored more than 535 articles in English, French, Japanese, Russian and German, holds various honorary professorships, doctorates, fellowships, visiting professorships and special assignments, and is a member of the editorial board of several top journals in his field (e.g. *"Automation in Construction"*, *"Innovation in Construction"*, *"Construction Robotics"*, etc.). Thomas Bock is the initiator and author of the renowned book series *"Construction Robotics"* published by Cambridge University Press.

Prof. Dr. Mohamed AL-HUSSEIN
University of Alberta - Canada



Dr. Mohamed Al-Hussein is a professor, Research Chair in the Industrialization and Decarbonization of Construction, in the of Department of Civil and Environmental Engineering at the University of Alberta. He held the NSERC Industrial Research Chair in the Industrialization of Building Construction and was the inaugural director of the Nasser School of Building Science and Engineering. He is a highly sought researcher in the areas of modular and offsite construction, lean manufacturing, construction process optimization, and BIM. Dr. Al-Hussein's research has been published in over 400 articles in leading journals and conference proceedings.



**Prof. Dr. Farzad
RAHIMIAN**
Teesside University
– UK

Farzad is a Professor of Digital Engineering at the School of Computing, Engineering and Digital Technologies, Teesside University, UK. He is the leader of the Centre for Sustainable Engineering and Open Research and Output Quality Lead, SCEDT, Teesside University. He is Editor in Chief: Smart and Sustainable Built Environment (SCI/JCR IF=3.6, CiteScore Tracker: 9.1) and Associate Editor: AUTOMATION IN CONSTRUCTION (SCI/JCR IF=10.3, Citescore: 16.7). Farzad has a robust research track record delivering more than 200 quality publications and more than 6300 citations. Farzad's research covers various aspects of Construction 5.0, with a strong emphasis on adopting cutting-edge technologies to serve the NetZero and sustainability agenda, including XR for H&S training, AI and deep-learning for sustainable infrastructures and logistics, smart construction, circular construction, energy policies, data-driven digital twins, demand response optimisation, smart energies, DLT and blockchain technologies, and social innovation. Farzad has successfully led several high-profile research projects – from H2021, InnovateUK through to the Arts and Humanities Research Council (AHRC), European Regional Development Funds (ERDF), Construction Scotland Innovation Centre (CSIC), Scottish Funding Council (SFC), Data Lab, and Advanced Forming Research Centre (AFRC). Farzad secured research and innovation income of over £3m. This expertise and standing are also recognised through several high-profile bodies, including the International Council for Building (CIB) and buildingSMART International. He graduated with 14 PhD students in the topics across the fields above, and some of them are already senior academics at reputable institutions such as the University of Cambridge, the University of Edinburgh, and the University of Salford, and some hold leadership positions in the industry.



**Prof. Dr. Ioannis
BRILAKIS**
Cambridge
University - UK

Prof Ioannis Brilakis is the Laing O'Rourke Professor of Civil & Information Engineering and the Director of the Construction Information Technology Laboratory at the Division of Civil Engineering of the Department of Engineering at the University of Cambridge. He completed his PhD in Civil Engineering at the University of Illinois, Urbana Champaign in 2005. He then worked as an Assistant Professor at the Departments of Civil and Environmental Engineering, University of Michigan, Ann Arbor (2005-2008) and Georgia Institute of Technology, Atlanta (2008-2012) before moving to Cambridge in 2012 as a Laing O'Rourke Lecturer. He was promoted to Reader in October 2017 and to Professor in 2021. He has also held visiting posts at the Department of Computer Science, Stanford University as a Visiting Associate Professor of Computer Vision (2014) at the Technical University of Munich as a Visiting Professor, Leverhulme International Fellow (2018-2019), and Hans Fischer Senior Fellow (2019-2023), and as a Visiting or Honorary Professor at Tsinghua, HKU, CityU, HKUST, BJUT, and many other universities in Asia (2024-2026). He is a recipient of the 2024 IAARC Tucker-Hasegawa Award, the 2022 EC3 Scherer Award, 2022 EC3 Thorpe Medal, 2019 ASCE J. James R. Croes Medal, the 2018 ASCE John O. Bickel Award, the 2013 ASCE Collingwood Prize, the 2012 Georgia Tech Outreach Award, a 2010 NSF CAREER award, and a 2009 ASCE Associate Editor Award. Dr Brilakis is an author of over 300 papers in peer-reviewed journals and conference proceedings, an Associate Editor of the ASCE Computing in Civil Engineering, ASCE Construction Engineering and Management, Elsevier Automation in Construction, and Elsevier Advanced Engineering Informatics Journals, the President of the International Association for Automation and Robotics in Construction, and the lead founder of the European Council on Computing in Construction.



**Prof. Dr. Chimay
ANUMBA**
University of
Florida - USA

Chimay Anumba is a Professor and Dean of the College of Design, Construction and Planning at the University of Florida. A Fellow of the Royal Academy of Engineering, FEng, he holds a Ph.D. in Civil Engineering from the University of Leeds, UK; a higher doctorate – D.Sc. (Doctor of Science) – from Loughborough University, UK; and an Honorary Doctorate (Dr.h.c.) from Delft University of Technology in The Netherlands. He has over 500 scientific publications and his work has received support worth over \$160m from a variety of sources. He has also supervised 62 doctoral candidates to completion and mentored over 25 postdoctoral researchers. He is the recipient of the 2018 ASCE Computing in Civil Engineering Award and is a member of the US National Academy of Construction (NAC).



PROGRAMME

MONDAY NOVEMBER 3RD 2025

08:00-08:30	Conference Day 1- Opening: Doors Open, Registration, and coffee		
08:30-09:00	Inaugural ceremony Location: Room A Chair: Zoubeir Lafhaj • Prof. Dr. Zoubeir LAFHAJ, President of the SASBE Organizing Committee – Local Welcome Speech 10 min • Prof. Farzad RAHIMIAN, member of the SASBE honorary committee –SASBE Welcome Speech 5 min • Ass. Prof. Dr. Abiola AKANMU, Scientific Committee Message - 5 min		
09:00-09:40	Day 1: Plenary Session 1 Keynote – Prof. Dr. Martin FISCHER: High-Performance Built Environments: Aligning User Needs and Operator Goals with Sustainability Metrics		
09:45-10:30	Location: LILLIAD- Salle A [2630] Victoria Lerognon – Evaluating the impact of public policies supporting digital transformation in the construction sector: towards a framework for assessment 09:45-09:55 [2629] Hamed Golzad – Harnessing Extended Reality for Safer Construction Sites: A Framework for Adoption and Implementation 09:55-10:05 [2505] Luz Mery Diaz Caselles – Embedding Circularity in the Construction Supply Chain: A Systematic Review of Smart Procurement and Design practices 10:05-10:15 Q&A 10:15-10:30 (15 min)	Location: LILLIAD- Salle B [2524] Philipp Hagedorn – 3D Gaussian splatting and mobile laser scanning for initially assessing the condition of structural concrete elements for circular reuse 09:45-09:55 [2526] Saba Mani – Assessing Circularity in Building Design: Testing the Building Circularity Performance (BCP) Model Through Case Study 09:55-10:05 [2538] Shurooq Younis Al Balushi – A framework for the implementation of sustainable smart technologies for the construction sector in the Sultanate of Oman 10:05-10:15 Q&A 10:15-10:30 (15 min)	Location: LILLIAD- Salle C
10:30-10:50	Coffee Break - Location: LILLIAD Hall		
10:50-11:35	Location: LILLIAD- Salle A [2541] Yiping Meng – Urban Land Use and Carbon Emission Fluctuations: A Transformer-Based Forecasting Framework with Remote Sensing and Transfer Learning 10:50-11:00 [2552] Cinzia Maria Luisa Talamo – Closed-Loop Organisational Models for Post-Consumer Recycling of Dry-Assembled Interiors 11:00-11:10 [2632] Abdelrahman Khaled Mohamed Fakeeh ELSAYED – From 3D to 4D BIM: A Framework for Automating Construction Planning and Resource Optimization 11:10-11:20 Q&A 11:20-11:35 (15 min)	Location: LILLIAD- Salle B [2617] Sahar Taheripour – Toward a lifecycle-oriented Design for X (DfX) framework for industrialised building products 10:50-11:00 [2667] Abiola Akanmu – Harnessing AI and Digital Twins in BIM for Wildfire-Resilient WUI Communities: A Systematic Review 11:00-11:10 [2543] Hamid Rahebi – Prefabricated Refurbishment in Solid Construction in Germany – Systematic Evaluation of Opportunities and Challenges 11:10-11:20 Q&A 11:20-11:35 (15 min)	
11:40-12:25	Location: LILLIAD- Salle A [2531] Ahmed Hagras – Digital Landscape Information Management (DLIM): Integrating BIM and Nature-Based Solutions for Net-Zero, Smart and Sustainable Urban Greenscapes 11:40-11:50 [2738] Alessandro Bruttini – A Digital Twin Framework for Monitoring and Managing PM Emissions on Urban Construction Sites 11:50-12:00 [2755] CHENQIN XIONG – A Data-driven Framework for Automated Pavement Maintenance Strategy Generation: A Case Study of Florid 12:00-12:10 Q&A 12:10-12:25 (15 min)	Location: LILLIAD- Salle B [2694] Alireza Siavashpour – The Role of Knowledge Management in Advancing Economic, Social, and Environmental Sustainability in Mass-Production Housing 11:40-11:50 [2747] Ania Khodabakhshian – Data-Driven Building Retrofits: Predicting Energy Savings with AI for Sustainable Project Management 11:50-12:00 [2762] Aris Manolitsis – Advancing Sustainable Healthcare Facilities. Assessing the performance of Electrochromic Windows through Energy and Comfort KPIs. A case study 12:00-12:10 Q&A 12:10-12:25 (15 min)	
12:30-13:30	Lunch Break- Location: LILLIAD Hall		

13:30–14:10	Day 1: Plenary Session Keynote — Prof. Dr. Chimay ANUMBA: Resilient and Sustainable Futures – Opportunities to Leverage Emerging Technologies		
14:15–15:00	Location: LILLIAD- Salle A [2571] Hyeokjin Choi — A Framework for Virtual Indoor Gardening in Extended Reality 14:15–14:25 [2606] Azin Ehteshami — From Integrated to Intelligent: A Typological Exploration of Global Smart Home Cases and User Needs 14:25–14:35 [2737] Alessandro Bruttini — Towards Digital Twins for PM Emission Management on Urban Construction Sites: A Systematic Review 14:35–14:45 Q&A 14:45–15:00 (15 min)	Location: LILLIAD- Salle B [2570] Hyeokjin Choi — A Framework for Qualitative Assessment of Indoor Spatial Experience in Extended Reality 14:15–14:25 [2517] Niels Bartels — Teaching the next Generation - An explorative Case Study 14:25–14:35 [2708] Kriti Mittal — Sustainable Building Maintenance: A Systematic Review and the Emerging Role of Building Information Modelling 14:35–14:45 Q&A 14:45–15:00 (15 min)	Location: LILLIAD- Salle C [2560] Nana Akua Adu-Amankwa — Blockchain-Enabled Digital Twins in the Built Environment: Socio-Technical Barriers to Post-Construction Integration 14:15–14:25 [2633] Kofi A.B. Asare — Unlocking Built Environment Digital Twin Interoperability with Data Fabrics 14:25–14:35 [2710] Jisoo Kang — A Design Framework for Adaptive Interactive Space with Kinematic Spatial Components. 14:35–14:45 [2509] Ayobami Idowu — Green Building Standards and Their Application in Retrofitting Educational Buildings in South Africa 14:45–14:55
15:00–15:20	Coffee Break - Location: LILLIAD Hall		
15:25–16:10	Location: LILLIAD- Salle A [2756] El Hadji Boubacar SECK — Structuring and integrating building facilities management data in smart built environments: A Case Study from the CESI Nanterre Campus 15:25–15:35 [2770] Emmanouil Katsigiannis — A Smart Multifunctional Modular Facade Panel for Building Renovation: A Comparative Assessment across European Climates of Energy Efficiency and Thermal Comfort 15:35–15:45 [2653] Federica Madaschi — Cross-checks between project and site: an integrated workflow based on information models and computer vision 15:45–15:55 Q&A 15:55–16:10 (15 min)	Location: LILLIAD- Salle B [2683] Flavio Bono — BIM-driven Smart Building Automatic Development Using an Open Framework for IoT Solutions 15:25–15:35 [2561] Giulia Scagliotti — Between Words and Deeds: Case Studies Exploring the Rhetoric and Reality of Environmentally Sustainable Building Projects 15:35–15:45 [2742] Joshua Ofori — Assessing Learning Gains from a VR-Based Exoskeleton Training Module for Construction Education 15:45–15:55 Q&A 15:55–16:10 (15 min)	Location: LILLIAD- Salle C [2783] Erikas LENKEVICIUS — Drivers and Barriers for the analysis of Environmental, Social, and Governance (ESG) metrics in Buildings 15:25–15:35 [2745] SHENG LIAN — The Development of a Web Application for Rebar Loss Optimization Using BIM Models 15:35–15:45 [2784] Evaldas MATUZEVIJUS — A New Model of Selecting Terrestrial Laser Scanning Instruments for Construction Processes 15:45–15:55 [2771] Cladia Lo Vecchio — Towards inter-modal resilience: a critical review of sensor-enabled synergies between MASS and CAVs 15:55–16:05
16:15–17:15	Location: LILLIAD- Salle A [2674] Hanna Bonekämper — Aesthetics vs. Efficiency? Balancing Energy Performance and Architectural Appeal through Decision Support with Telegram Bot 16:15–16:25 [2730] Harshi Bamunuachchige — EMBODIED MANAGEMENT DRIVERS (EMDs) AS CATALYSTS FOR SMART SUSTAINABILITY IN THE BUILT ENVIRONMENT 16:25–16:35 [2627] Muhammad Farhan Jahangir — Integrating Building Simulation Identity Card and Dynamic Data Modelling for Non-Structural Components within a BIM-based Digital Twin Framework for Enhanced Emergency Evacuation in Complex Buildings 16:35–16:45 [2574] Vignesh Vijayalakshmi Palanisamy — Leveraging Multi-Source Data for Enhanced Utility Mapping and Conflict Prevention in Construction 16:45–16:55 Q&A 16:55–17:15 (20 min)	Location: LILLIAD- Salle B [2768] Joshua Ofori — Exploring Cognitive Demands in a Virtual Reality Exoskeleton Training Environment: A Subjective and Visual Attention-Based Approach 16:15–16:25 [2680] Rashid Maqbool — Global Excellence in Environmental Regulations towards Economical Sustainable Building Design 16:25–16:35 [2525] Gulden Gumusburun Ayalp — Unveiling the Key Architectural Design Factors to Reduce Construction Waste for Sustainable Construction 16:35–16:45 [2736] Mahmoud Karaz — Towards Safer and More Efficient Logistics: Rack Specifications for Prefabricated Façade Panels 16:45–16:55 Q&A 16:55–17:15 (20 min)	Location: LILLIAD- Salle C [2776] Dan C. Baci — Global comparative study of cities through CHOAMS, a nonlinear urban design framework that can support better urban investment schemes while avoiding urban fragmentation. 16:15–16:25 [2763] David Ebiloma — Digital Twin Maintenance Management Adoption in Nigerian Healthcare Facilities: Modelling the Key Success Factors 16:25–16:35 [2699] Nurşen Sönmez — AI-Driven Approaches in Construction and Demolition Waste Management: A Systematic Review 16:35–16:45
17:30	Closing doors		

TUESDAY NOVEMBER 4TH 2025

	Location: LILLIAD- Salle A	Location: LILLIAD- Salle B	Location: LILLIAD- Salle C
08:30–09:00	Conference Day 2- Opening: Doors Open, and coffee		
09:00–09:45	[2702] Leila Ahmadi – Enabling Circularity through Dynamic Material Passports: A Framework Integrating Digital Twin Technologies and Data Governance in the Built Environment 09:00–09:10 [2533] Ana Catarina Mota Barbosa – Retrofitting Portuguese Social Housing: A Critical Review of Circular Design Strategies 09:10–09:20 [2581] Maria Sara Di Maggio – A Multi-Task Learning Surrogate Model for Energy-Efficient and Climate-Resilient Retrofits 09:20–09:30 Q&A 09:30–09:45 (15 min)	[2512] Judith Fauth – Streamlining the Building Permit Process with Modular Integrated Construction (MiC): A SWOT Analysis from Hong Kong 09:00–09:10 [2767] Anna Elisabeth Kristoffersen – Towards Socially Sound Sustainable Building Projects with a Novel Life Cycle Assessment Method 09:10–09:20 [2689] Kyunghyun Cho – Sustainable Spatial Integration in Immersive Virtual Reality through Seamless Transition Spaces with Spatialization Strategies. 09:20–09:30 Q&A 09:30–09:45 (15 min)	[2744] Manbyen Rimtip – Key Barriers to 3D Printing Technology Adoption for Sustainable Project Delivery in Nigeria 09:00–09:10 [2731] Abisola Omolara Muftau – Topic Modelling and Sentiment Analysis of AI-driven Circular Procurement practices 09:10–09:20 [2605] Doreen Steven Mlote – Assessing Renovation-Avoided Carbon Emissions: A Comparative A1–A3 Life Cycle Assessment of a Building Use Conversion Project 09:20–09:30 [2636] Koji Yoshimura – Development of an Automated Rebar Modeling Tool for RC Structures 09:30–09:40
09:45–10:25	Day 2: Plenary Session Keynote Prof. Dr. Thomas BOCK – CAC: Circularity by Automation in Construction		
10:25–10:45	Coffee Break - Location: LILLIAD Hall		
10:45–11:30	[2709] Pranith Joshua Nimal – Integrating Accessibility Assessment into Architectural Design: A Building Information Modeling (BIM) based Approach 10:45–10:55 [2640] Scott Sheenan – Digital Twin-Based Instantaneous Progress Monitoring Solution for Modular Construction 10:55–11:05 [2619] Salla Eckhardt – From Fragmentation to Integration: Smart Cities as Catalysts for Digital Lifecycle Transformation in Construction Management 11:05–11:15 Q&A 11:15–11:30 (15 min)	[2682] Kornkamon Tantiwanit – Progressive Uncertainty Quantification from Deterministic to Ensemble Probabilistic Forecasting for Hourly Building Energy Predictions 10:45–10:55 [2769] M Reza Hosseini – AI in ANZ Construction Job Posts: A Detailed Five-Year Analysis (2021-2025) 10:55–11:05 [2523] Niels Bartels – Artificial Intelligence in Civil Engineering: Opportunities and Challenges Across Company Sizes in the German Infrastructure Construction Sector 11:05–11:15 Q&A 11:15–11:30 (15 min)	[2537] Mayowa Ogungbe – Assessing the Implementation Challenges of Hybrid Project Management in Construction Delivery: A South African Perspective 10:45–10:55 [2578] Matthew Ikuabe – Smart Construction Sites for Optimised Project Delivery: A Principal Component Analysis of Enabling Measures 10:55–11:05 [2558] Toluwanimi Ogunade – Challenges of Implementing Digital Procurement Systems in Public Sector Construction Projects: Insights from Gauteng Province, South Africa 11:05–11:15 [2527] fortune Aigbe – Understanding Future Interpersonal Communication in the Construction Industry: A Motivational Language Theory Approach 11:15–11:25
11:35–12:20	[2656] Manideep Tummalapudi – Artificial Intelligence and the Future Construction Workforce: A Qualitative Study of Emerging Skill Demands 11:35–11:45 [2758] Masreta Mohd – Enhancing Concrete Bridge Inspections with Preventive Maintenance and Data Fusion Techniques for User Safety 11:45–11:55 [2579] Maria Jebin – Optimising ADASY Components for Daylight Enhancement in Public Residential Building Retrofits. 11:55–12:05 Q&A 12:05–12:20 (15 min)	[2759] Mohsen Goodarzi – The Moderating Effect of Precipitation and Temperature on Sustainable Sites and Water Efficiency Contributions to LEED NC v4 Certification 11:35–11:45 [2725] Mona Foroozanfar – Bridging the Gap: A Systematic Literature Review on Digital Technology Adoption for Sustainability in the Construction Industry 11:45–11:55 [2545] Muammer Semih Sonkor – A Cybersecurity Taxonomy for Operational Technology in Construction 11:55–12:05 Q&A 12:05–12:20 (15 min)	[2723] fortune Aigbe – Technological Changes: Demystifying the Controversies of Job Loss or Job Creation? 11:35–11:45 [2544] Mustika Sari – A Blockchain-Integrated BIM Workflow for Green Building Planning 11:45–11:55

	Location: LILLIAD- Salle A	Location: LILLIAD- Salle B	Location: LILLIAD- Salle C
12:30–13:30	Lunch - Location: LILLIAD Hall		
13:30–14:10	Day 2: Plenary Session Keynote Prof. Dr. Ioannis BRILAKIS — Construction Information Engineering		
14:15–15:00	[2554] qianyun zhou — An LLM-Assisted Interactive Platform for Sustainable Building Design Optimization 14:15–14:25 [2511] Rohimah Khoiriyah Harahap — Integrating Contemporary Building Performance Needs for sustaining Spiritual Intelligence Needs in Community Buildings by Facility Managers 14:25–14:35 [2614] Timothy Adekunle — Establishing connections between electricity usage, solar energy production, and savings in buildings 14:35–14:45 Q&A 14:45–15:00 (15 min)	[2764] Joshua Ofori — Machine Learning-Based Prediction of Situational Awareness in Implementing Sensing Technologies on a Virtual Construction Site within a Mixed Reality Learning Environment. 14:15–14:25 [2775] Luca Urciuoli — Optimizing Supply Chains for Cultural Heritage Renovation: An Operational Perspective 14:25–14:35 [2714] Zaishang Li — Ontology-Guided Extraction of Infrastructure Damage Information during Floods Using Large Language Models 14:35–14:45 Q&A 14:45–15:00 (15 min)	Repeat the recorded sessions
15:00–15:20	Coffee Break - Location: LILLIAD Hall		
15:20–16:05	[2661] Reza Maalek — Heritage Building Façade Energy Retrofit Planning for Active Drone Assembly of Prefabricated Modules from Photogrammetric Images 15:20–15:30 [2659] Mahsa Paziraei — Interactive Information Retrieval and Visualization in Digital Twins of Built Assets 15:30–15:40 [2624] RYOKO ARASHIDA — A Data-Driven Approach to Modeling Design Change Propagation Using As-Built Drawings in Civil Infrastructure Projects 15:40–15:50 Q&A 15:50–16:05 (15 min)	[2672] Toseef Din — Strategic Renovation of Healthcare Infrastructure: A Case Study of Facility Upgrades and Compliance at a Private Hospital in Kenya 15:20–15:30 [2534] Sumaya Adina — A Study On Improving The Performance Of Construction Projects Using Lean Principles 15:30–15:40 [2530] Yiping Meng — Probabilistic Assessment of Engineered Timber Reusability after Moisture Exposure 15:40–15:50 Q&A 15:50–16:05 (15 min)	Repeat the recorded sessions
16:15–17:00	[2754] Zanele Matsane — Innovating Construction Supply Chains for Sustainability: Lessons from Aerospace 16:15–16:25 [2701] Tariq Alkhrissat — Evaluating Adaptive Reuse as a Strategy for Carbon Emission and Climate Change: A Systematic Literature Review 16:25–16:35 [2765] Joshua Ofori — Shaping Construction Engineering and Management Students' Professional Identity through Industry Practices with IMU Sensing Systems 16:35–16:45 Q&A 16:45–17:00 (15 min)	[2782] Zahra Jalali — Moisture Control and Indoor Environmental Quality in New Zealand Buildings Under Climate Change: A Case Study 16:15–16:25 [2594] Yadel Elbaz — A Building Programming Method for Energy and Economic Efficiency in Hotels 16:25–16:35 [2719] Faezeh Bagheri-Moghaddam — Smart, Sustainable, and Socially Inclusive Construction: Modular and digital approaches for new build & regeneration 16:35–16:45 Q&A 16:45–17:00 (15 min)	Repeat the recorded sessions
17:30	Closing doors		
19:30–23:30	Gala Dinner Location: Palais de la bourse 40 place du théâtre, 59800 Lille		



THE GALA EVENING

TUESDAY NOVEMBER 4TH 2025

During the Annual Conference, the Gala Evening will be a key moment for all SASBE stakeholders and partners.

This evening will take place in a prestigious and historic venue in Lille, the great hall of the Chamber of Commerce.

Important guests from the academic world, construction professionals and regional organisations will be present. This is a unique opportunity to develop your network of influence and show your strategic presence at such important global events.

There will be an excellent dinner, as well as pitches from our main sponsors and top-class entertainment with a professional singer.

To attend the Gala evening, you must register and pay your contribution. You can also register additional people who may be able to accompany you.



A HISTORIC MONUMENT OF GREAT IMPORTANCE

The history of the Vieille Bourse dates back to the 17th century, when it was built in 1651 under the reign of King Philip IV of Spain. The Bourse was first and foremost a trading centre for Lille merchants, and was built in a majestic Flemish Renaissance style.

It was used as a trading centre until 1923. The Vieille Bourse also served as the backdrop for a notable speech by Frederick Kuhlmann, President of the Lille Chamber of Commerce, on the subject of national industry and Lille's role within it.

The new Bourse now houses the Lille Chamber of Commerce, which features an imposing 76-metre-high neo-Flemish belfry. This belfry, equipped with an automated carillon, is a prominent symbol of the city of Lille.

The building is a listed historic monument and now houses the headquarters of the Greater Lille Chamber of Commerce and Industry.

PALAIS DE LA BOURSE
40 place du Théâtre 59800 Lille
Access: in the heart of Lille - 6 min walk
from Lille Flandres station



WEDNESDAY NOVEMBER 5TH 2025

	Location: LILLIAD- Salle A	Location: LILLIAD- Salle B	Location: LILLIAD- Salle C
08:30–09:00	Reception		
09:00–09:45	[2757] Shihui Ma — A DES simulation aided construction planning of modular integrated construction: A Hong Kong Case Study 09:00–09:10 [2641] Siyuan Meng — Using 2D Vision-Language Models to Resolve Unbalanced Training of 3D Deep Learning of Street MMS Data 09:10–09:20 [2657] Narimene MIDOUNE — Combining Building Information Modelling (BIM) and Artificial Intelligence (AI) for energy simulations and Life Cycle Analysis (LCA): Trends and future perspectives 09:20–09:30 Q&A 09:30–09:45 (15 min)	[2613] Timothy Adekunle — Evaluating the relationship between window opening and closing sessions and indoor environmental conditions in buildings 09:00–09:10 [2792] Alessandro Bruttini — Flood evacuation models in Urban Areas: towards a Digital Twin Framework for emergency management 09:10–09:20 [2790] Sadiq Ali Nabawi — Geospatial Assessment of Deglaciation and Climate Change Impacts in Chandra Valley, Western Himalaya (1989–2017) 09:20–09:30 Q&A 09:30–09:45 (15 min)	Repeat the recorded sessions
09:50–10:30	Day 3 : Plenary Session Keynote — Prof. Dr. Tarek ZAYED: Construction 4.0: Edging Automation with AI and Sensors		
10:30–10:50	Coffee Break Location: LILLIAD Hall		
10:50–11:30	Day 3: Plenary Session Keynote — Prof. Dr. Mohamed Al Hussein: Automation and Technologies for Climate Resilient Modular Construction		
11:40–12:25	[2593] Amir Sharabi — Adjusting Building Renovation Design to Occupant Characteristics 11:40–11:50 [2679] Rashid Maqbool — A Strategic Leap Forward of Technology and Innovation in Construction Design for Economically Sustainable Houses in the UK 11:50–12:00 [2785] Oluwakemi Oriowo — The Culture of Practice: How the Organisational Culture of Architectural Firms Influences Sustainable Urban Development in Lagos, Nigeria 12:00–12:10 Q&A 12:10–12:25 (15 min)	[2752] Carl (Presenter: Maxim) Schultz — Accelerating the transition to Green Building Neighborhoods: A new decision support platform 11:40–11:50 [2780] Julia von Werder — Bio receptive Building Facades: Codesigning with nature 11:50–12:00 [2791] Tara Brooks — Evaluating Digital-Construction Maturity and Pedagogical Innovation through the QUB–BUE Transnational Education Collaboration 12:00–12:10 Q&A 12:10–12:25 (15 min)	Repeat the recorded sessions
12:30–14:00	Lunch Location: LILLIAD Hall	—	—
14:00–15:10	[2665] G. Salimi — Enhancing Hybrid NLP Approaches with Pre-trained Transformers for Design Phase Communication Documents Processing for Roof Design Practice 14:00–14:10 [2726] Ahmed Al-Saaddy — Embedding Net-Zero in Construction: Client–Contractor Practices and Collaboration 14:10–14:20 [2566] Annabel Morkporkpor Ami Dompey — Remote Sensing in the Transport Industry: A Review of Satellite Applications for Resilient Infrastructure 14:20–14:30 [2618] Abdulmalik Badamasi — An Empirical Study into the Role of Enterprise Digital Twins in Supporting Business Intelligence in Contractor Firms 14:30–14:40 [2648] SHUN-YU YANG — Validation of CFD in Simulating Urban Water’s Cooling Effect in Subtropical Climate Area 14:40–14:50 Q&A 14:50–15:10 (20 min)	Workshop “Construction Durable et Circulaire” <i>L’intelligence artificielle dans la construction: solution ou menace environnementale ?</i> Dr. Laure Ducoulombier, Centrale Lille Institut <i>Matériaux biosourcés et construction hors-site : enjeux environnementaux et territoriaux</i> Frédérique Seels, Directrice générale du CD2E <i>Le design écosocial au service de l’environnement bâti</i> Prof. Dr. Imen Ben Youssef Zorgati, Université de Montréal, Canada <i>Lean-digital-circularité : le trio gagnant pour l’avenir de la construction</i> Dominique Renard-Brazzi, Fondatrice et dirigeante d’Afleya, Paris <i>Integrated Project Delivery : un nouveau modèle pour construire durable ?</i> Dr. Nêda Armbruster, Avocate en droit de la construction	[2663] Rashid Maqbool — Sustainable Construction Management Practices in the UK Building Industry: A Green Technology Perspective 14:00–14:10 [2692] Nao Shibata — Life Cycle Sustainability Assessment in Housing Retrofits: A Literature Review 14:10–14:20 [2720] Abiola Akanmu — Synthesis of Biomechanical Evidence on Exoskeletons using Fine-Tuned Language Models 14:20–14:30 [2502] Francis Kwesi Bondinuba — A Systems Thinking Approach to Sustainable Project Management: A Theoretical Framework for Advancing Industry Practices in Ghana 14:30 – 14:40 [2671] Farzad Dadras Javan — Deployment and Techno-Economic Feasibility Assessment of a Machine Learning–Driven HVAC Load Shifting Strategy for Electric Vehicle Charging in Logistics Nodes via Co-Simulation 14:40 – 14:50 Q&A : 14:50 – 15:10 (20 min)
16:00–16:30	Closing session with a coffee Break – Location: LILLIAD Hall		
17:30	Closing doors		



VISIT LILLE AND THE REGION HAUTS-DE-FRANCE

GUIDED TOUR OF OLD LILLE

Visit in English: Saturday 24th June and Saturday 1st July at 11am

Reservation on the link :
<https://en.lilletourism.com/les-grands-classiques.html>

Departure: in front of the Palais Rihour, place Rihour

Duration: 2 hours

Price : 10€ for the visit

Visite en français : tous les jours à 15h

Réservation sur le lien : <https://www.lilletourism.com/les-grands-classiques.html>

Départ : devant le Palais Rihour, place Rihour

Durée : 2 heures

Prix : 10€ pour la visit

THE LOUVRE-LENS MUSEUM



The Louvre-Lens is a public establishment for cultural cooperation founded by the Nord-Pas-de-Calais regional council, the Pas-de-Calais department, the Lens-Liévin urban community, the city of Lens and the Louvre museum. The Louvre-Lens Museum is the Louvre in a

different way: a Louvre of glass and light, with a resolutely contemporary architecture; a Louvre whose museography offers a unique visiting experience in the world through the Galerie du temps, a varied cultural and artistic programme and temporary exhibitions of international scope.

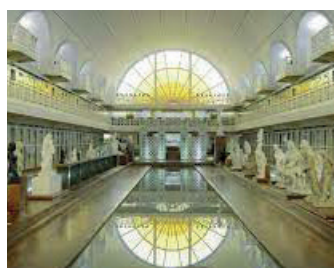
More detail : <https://www.louvre-lens.fr/>

Pack Visit & Transportation : check on PASS TER LOUVRE-LENS

<https://www.ter.sncf.com/hautes-de-france/decouvrir/packs-ter-touristiques/pass-ter-louvre-lens>

LA PISCINE MUSEUM IN ROUBAIX

La Piscine - Musée d'art et d'industrie André Diligent de Roubaix, which opened on 21 October 2001, is located on the site of the former Art Deco swimming pool built between 1927 and 1932 according to the plans of the Lille architect Albert Baert (1863-1951). Today listed as a



20th century heritage site, this swimming pool offered a high quality sports and health service at the time, with an innovative social function. This museum of art and industry presents composite collections of applied arts and fine arts constituted from the 19th century onwards, including fabrics, decorative arts, sculptures, paintings, ceramics and drawings.

More details: <https://www.roubaix-lapiscine.com/>
By public transport: get off at the Gare Jean Lebas stop on metro line 2 and the museum is 500 metres away. It takes 30 minutes by metro from Lille stations.

THE VILLA CAVROIS IN CROIX

This masterpiece of modernist architecture bears witness to the art of living as conceived by contemporary modern architects like Le Corbusier in the 1930s. An architectural manifesto, the Villa Cavrois is the emblematic work of the architect Robert Mallet-Stevens, a figure of the modernist movement. It was designed and built for Paul Cavrois, a textile industrialist from the North, and his family. The programme of this modern castle, commissioned in 1929, is clear: "air, light, work, sports, hygiene, comfort and economy". Classified as a historic monument in 1990 thanks to the mobilisation of the public, acquired by the State in 2001, the gigantic restoration project implemented in 2003 by the DRAC Nord-Pas-de Calais and then taken over in 2008 by the Centre des monuments nationaux was completed in June 2015.

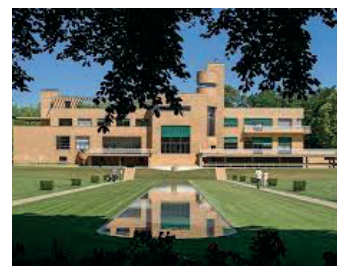
More details : <https://www.villa-cavrois.fr/>

Note : the visits of "La Piscine" and "Villa Cavrois" can be combined as too.

By public transport

- Tramway R, Villa Cavrois stop, then 15 minutes on foot

- Metro Line 2, Croix Centre stop, then 25 minutes on foot



ADDITIONAL VISITS

Throughout the congress, the Hello Lille attraction agency will run an information point to suggest many other visits. There is always something to do in Lille and its metropolis: a variety of tourist activities and many ideas for walks, discovering museums or visiting breweries, taking the air in a park or diving into a swimming pool. The metropolis of Lille offers you a lot of choices.

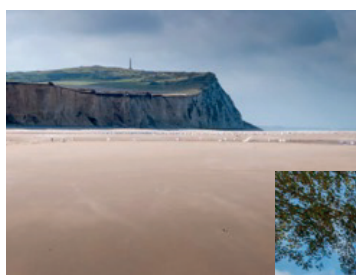
To find out more now, visit the website:
<https://hellolille.eu/je-visite/>



EXTEND YOUR STAY AND VISIT THE REGION

OPAL COAST

The treasures of the Opal Coast are numerous, both along the coast and inland. Depending on what you're looking for, you're bound to find some unmissable places to visit, including the Grand site des Deux-Caps with Cap Blanc-Nez and Cap Gris-Nez, not forgetting Nausicaá, Europe's largest aquarium.



"Blanc Nez" Cape
Boulogne Sur Mer Town
Nausicaa Aquarium
Opal Coast beaches

BRUGGE - VENICE OF BELGIUM

Often nicknamed the Venice of the North for its canals, Bruges reveals its beauty all year round. The Belgian city has an attractive historic centre in medieval style, and it is mainly in its heart that the main sites to visit are to be found. Bruges is a city that can be discovered without a car. The most relaxing and unusual way to visit Bruges is to take a canal boat cruise. This is an opportunity to explore the historic centre, a UNESCO World Heritage site, on board a small boat, with commentary from a local guide.

More information :
<https://www.visitbruges.be/en>

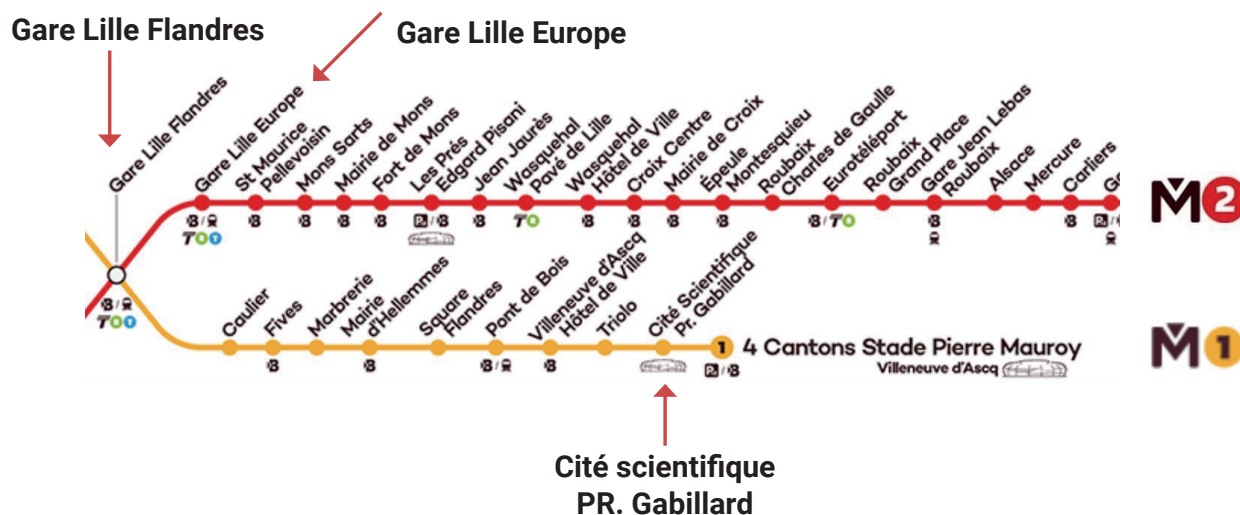


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PRACTICAL INFORMATION CONFERENCE VENUE

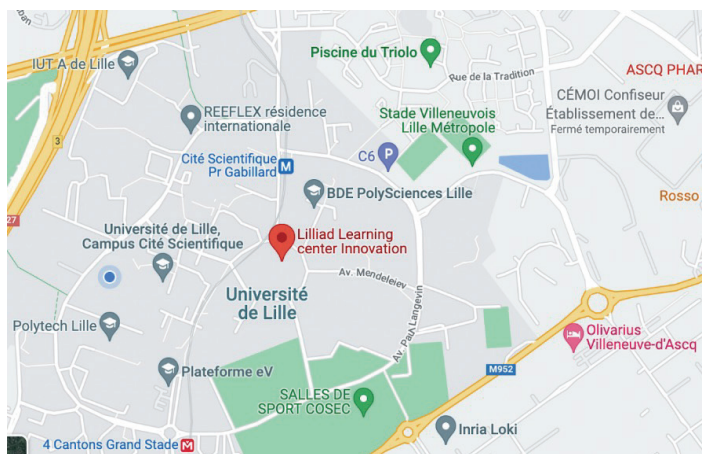
THE METRO MAP



LILLIAD - LEARNING CENTER INNOVATION



WIFI will be available
all the SASBE 2025:
Réseau : UlilleAccueil
Accès : Invité Séminaire
Identifiant : CG-14600
Mot de passe : xbf3sFLtx



LILLIAD LEARNING CENTER INNOVATION

Cité Scientifique
Avenue Henri Poincaré
59653 Villeneuve d'Ascq Cedex

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Firefighters 18	Medical Doctor
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SASBE 2025

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LILLIAD – Exhibition hall





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BUILT ENVIRONMENT



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