



BIMLUX 2021

PROGRAMME

08+09 NOV. • 8h30 - 18h30

EUROPEAN CONVENTION CENTER
LUXEMBOURG - KIRCHBERG

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BIM LUX 2021

AGENDA

8 & 9 NOVEMBER 2021
8:30 - 18:30

EUROPEAN CONVENTION CENTER
LUXEMBOURG KIRCHBERG

CONFERENCES IN:
FRENCH, GERMAN AND ENGLISH
WITH SIMULTANEOUS TRANSLATION
TO ENGLISH.

TOOLS & SOFTWARE
DEMONSTRATION AREA
THROUGHOUT THE DAY

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MONDAY 8 NOVEMBER

8:30 - 9:30		COVID CHECK & BADGE PICK-UP
9:30 - 10:40	K1	<p>INTRODUCTION & MODERATION Céline Coubray (Maison Moderne)</p> <p>OPENING SPEECH</p> <p>INTEROPERABILITY AND KNOW-HOW IN THE FOCUS OF BIM DEVELOPMENT IN LUXEMBOURG Moreno Viola (CRTI-B)</p> <p>BIM OR HOW TO INSPIRE INNOVATION THROUGH COLLABORATION! David Determe (OAI)</p> <p>BIM AND CONSTRUCTION COMPANIES, EXPECTATIONS AND STATE OF AFFAIRS Francis Schwall (Neobuild)</p> <p>DIGITAL INNOVATION TO TACKLE THE ENVIRONMENTAL CHALLENGES OF THE BUILT ENVIRONMENT Sylvain Kubicki (LIST)</p>
10:40 - 11:30	K2	<p>OPEN STANDARDS TO FULLY UTILIZE BIM POTENTIALS - 25 YEARS OF DEVELOPMENT, NEXT STEPS? Thomas Liebich (AEC3)</p>
11:30 - 12:20	S1	<p>'REVERSIBLE BIM' AND BUILDINGS AS MATERIAL BANKS - HOW BIM IS USED IN DECONSTRUCTION Bhagya Jayasinghe (Université de Luxembourg) Elma Durnisevic (4D Architects BV & GTB Lab) Guillaume Dubois (Schroeder & Associés)</p>
12:20 - 13:50		LUNCH BREAK
13:50 - 14:45	S2	<p>RELEVANCE OF STRUCTURAL CHOICES THROUGH COMPUTATIONAL DESIGN AND INTEREST OF BIM IN TIMBER CONSTRUCTION Frank Stolz (Blumer-Lehmann) Pieter Bieghs (VK Architects & Engineers)</p>
14:45 - 15:40	S3	<p>BIM PRACTICE IN TECHNICAL ENGINEERING OFFICES: MEP & ACOUSTIC David Statucki (Schroeder & Associés) Mina Arouche (VK Architects & Engineers)</p>
15:40 - 16:35	S4	<p>3D STRUCTURAL ANALYSIS MODEL EXCHANGE BETWEEN DISCIPLINES - HOW TO PROCEED Rita Lengyel (MODENA) Carlos Cordeiro (GRAPHISOFT) Rudi Vanmechelen (SCIA)</p>
16:35 - 17:30	S5	<p>REDUCING FAILURE COSTS BY DOING BETTER COMMUNICATION USING BIM Ann Van den Borre (VK Architects & Engineers)</p>
17:30 - 18:30		NETWORKING

TUESDAY 9 NOVEMBER

8:30 - 9:30		COVID CHECK & BADGE PICK-UP
9:30 - 10:20	K3	<p>BIM, WHAT A... MESS? Daniel Hurtubize (Data Shapes)</p>
10:20 - 11:10	S6	<p>3D MODEL VS BUILT ENVIRONNEMENT IN CONSTRUCTION PHASE - CASE STUDY BASED ON 3D SCAN AND AUGMENTED REALITY Paul Ehret (Revizto) Raquel Alves Tiago (CLK) Caroline Zigrand & Jean-Pierre Van Oudenhove (Génie Vision) Shahriar Agaajani (Space Time)</p>
11:10 - 12:00	S7	<p>THE POTENTIAL OF BIM OPERATIONS FOR BUILDING MANAGEMENT. Mehdi Halal (BIMConsult) Bob Banzer (OneTools Project Luxembourg) Irene Hasler (Lead Consultants AG)</p>
12:00 - 13:45		LUNCH BREAK
13:45 - 14:40	S8	<p>FROM MODULAR PRECAST ELEMENT TO OPERATIONAL ORGANIZATION ON SITE IN 4D - TOOLS AND CASE STUDY Xavier Mahy (Bureau Ingénieur Mahy) Cédric Dysers (Thomas & Piron Bau)</p>
14:40 - 15:35	S9	<p>NEW WAYS OF PROJECT DELIVERY WITH BIM: WHY BIM AND IPD COMPLEMENT EACH OTHER Ralf Molter & André Friedel (Drees & Sommer)</p>
15:35 - 16:30	S10	<p>PARAMETRIC MODELING, BIM AND DIGITAL TWINS IN INFRASTRUCTURE Cédric Richard (Bureau Greisch) Maarten Van den Berg (Infraena Belgium)</p>
16:30 - 17:30	K4	<p>FROM NATIONAL DIGITAL TWIN TO INTEROPERABILITY GIS - BIM Jeff Konnen & Pedro Gomes & Christophe Hess (Administration du Cadastre et de la Topographie) Michel Wera & Lionel Bach (ESRI)</p>
17:30 - 18:30		NETWORKING

MONDAY 8/11 - 9H30 - FR

INTRODUCTION & MODERATION

Céline COUBRAY

Chief Editor - Paperjam Architecture+Real Estate
Journalist - Maison Moderne

Céline COUBRAY

Celine Coubray is the editor in chief of Paperjam Real Estate+Architecture magazine. Since 2007, she's also the cultural and lifestyle editor for Maison Moderne publications. Ms Coubray started her career in the contemporary art field in France before settling in Luxembourg, where she took on a new challenge and turned to journalism.

Focusing on the current architectural scene in Luxembourg, she strongly contributes through her work to highlight the culture, knowledge and tradition surrounding what has and is being built in the Grand-Duchy.

Firm in her desire for modernisation and progressive vision of the country's advances in the sector, Céline Coubray is a strong advocate for digitalisation and BIM, envisioning both as obvious and natural developments in this perspective.



MONDAY 8/11 - 9H45 - FR

INTEROPERABILITY AND KNOW-HOW IN THE FOCUS OF BIM DEVELOPMENT IN LUXEMBOURG

Moreno VIOLA

Executive officer

Centre de Ressources des Technologies
et de l'Innovation pour le Bâtiment

CRTI-B



Digitalisation and innovation within the construction sector have become an important and crucial challenge in the development of our economy. Not only do they unleash efficiency gains for the different roles and professions in construction, but they also allow to aim for even higher standards regarding quality and sustainability.

CRTI-B, in collaboration with its partners, organizes this national development of BIM and in this context, Moreno Viola is going to present the latest accomplishments, priorities and objectives in the undergoing "2.0 Roadmap".

He will show how the new and upcoming knowledge platform will help the transition towards a "BIM-ready" construction sector.

Moreno VIOLA

Moreno Viola is a civil engineer (Dipl.-Ing. KIT Karlsruhe) with specialisation in sustainable construction. He gained his first professional experience in Germany and Luxembourg before joining the CRTI-B in 2015.

Since 2016, he manages the ITRC-B as Executive Officer and represents Luxembourg in several international working groups.

MONDAY 8/11 - 9H55 - FR

**BIM OR HOW TO INSPIRE INNOVATION
THROUGH COLLABORATION!**

David DETERME

National BIM Coordinator

Ordre des Architectes et des Ingénieurs-Conseils

OAI



The knowledge explosion and the increase in the complexity of challenges to be solved to design a contemporary high-performance building make collaborative decision-making necessary.

BIM Collaboration is one way to generate new opportunities, new tools able to produce new products and services with higher added value and overall, more attractive for our customers.

But how to organize collaboration in order to be relevant and to lead to real added value. David Determe will come back to the essential elements to achieve effective collaboration and make it a source of innovation!

David DETERME

David Determe is an energy efficiency engineer, graduated from the ENSIATE in Paris. He also holds a bachelor's degree in electromechanics from the ISAT in Arlon.

In 2001, he joined Gilles Christnach and became Managing Director of Betic Engineering. Passionate about new technologies and new work processes, he is since 2015, representative of the steering committee OAI BIM.

MONDAY 8/11 - 10H05 - FR

BIM AND CONSTRUCTION COMPANIES, EXPECTATIONS AND STATE OF AFFAIRS

Francis SCHWALL

Director

Pôle d'Innovation Technologique de la Construction Durable

NEOBUILD



The implementation of BIM in Luxembourg is a process that is not self-evident. If architects and study offices get involved quite well, progressively, it is not the same for most of the companies of the construction sector, except for some larger players.

Confidentiality, bad experiences, more pragmatic or more urgent issues to deal with... we will raise some recurrent and current structural clues that slow down the adoption of BIM within our Luxembourg companies, which, on the contrary, promises interesting rates of progress for the future!

Francis SCHWALL

Of Belgian origin, Francis Schwall began his career as an Industrial Engineer from the Zénobe Gramme Institute in Liège. During his twelve years of experience in the control and technical assistance in construction and sustainable construction of all types, Francis Schwall specialized in the remediation of hazardous products, as well as in the thermal performance of buildings.

His various experiences have allowed him to participate in the development of a system of attestation and certification in sustainable construction and to contribute to the realization of projects at an international level. In Luxembourg, Francis Schwall is in charge of setting up the Pôle d'Innovation Technologique de la Construction Durable.

Since June 2015, he's the Director of Neobuild within the Neobuild Innovation Center.

MONDAY 8/11 - 10H15 - FR

DIGITAL INNOVATION TO TACKLE THE ENVIRONMENTAL CHALLENGES OF THE BUILT ENVIRONMENT**Sylvain KUBICKI**

Lead Research and Innovation Associate

Luxembourg Institute of Science and Technology

LIST



Our built environment is changing rapidly, and every citizen is seeing the impact of this on a daily basis. Our buildings are becoming intelligent, mobility infrastructures increasingly connected... These transformations aim to reduce the impact of the construction sector on the environment, to increase the productivity of its companies, and digital technology plays an important and transversal role. It is moreover essential that they take into account users, occupants, managers, investors, etc. and place them at the centre of the innovation process.

The presentation will focus on the major research objectives set by the European Commission for the coming years, in which BIM and digital are central parts.

Sylvain KUBICKI

With a degree in architecture and a PhD from the University of Lorraine, Sylvain Kubicki has been a researcher at the Luxembourg Institute of Science and Technology for 15 years.

With a scientific expertise in the fields of BIM and Digital Twins, he develops the link between research in these areas and their applications in the field, in relation with the European agendas aiming at supporting innovation in the construction and real estate sector, involved in several research projects and support services for the Commission, he is also a member of the board of the new European Partnership Built4People associated with the Horizon Europe programme.

MONDAY 8/11 - 10H40 - EN

OPEN STANDARDS TO FULLY UTILIZE BIM POTENTIALS - 25 YEARS OF DEVELOPMENT, NEXT STEPS?

Dr. Thomas LIEBICH

Director

AEC3 Deutschland GmbH



The presentation focusses on the long way of designing, implementing, and deploying the IFC standard ISO 16739-1 since more than two decades, from the humble beginnings in the late 90'ies to the expansion into full coverage of infrastructure works today. It also touches the need to collaborate with other standards e.g., on city and geospatial data.

Another main topic is how to classify and enhance the content of IFC data model using the dynamic property set mechanism and matching it to the LOIN concept of EN 17412-1.

Having such standardized information requirements in EIR's following ISO 19650 digitally defined using LOIN and IFC would enable particularly public clients to state their demands in an open way, and to develop methods and tools supporting this workflow with data templates and validation rules.

Thomas LIEBICH

Dr Thomas Liebich holds a Diploma in Architecture and a PhD from the Bauhaus University Weimar. Over the last 15 years he worked actively on development and introduction of digital methods in design and construction with focus on open BIM.

Thomas is managing partner of AEC3 Deutschland GmbH, a consulting firm delivering dedicated services for specifying and applying BIM methods and interoperability for the participants of construction projects.

Another focus of his professional life is standardization. He led the development of IFC since 1999 and is currently the convener of ISO/TC 59/SC 13/JWG 12 for data sharing in construction and of the European counterpart CEN/TC 442/WG 02 on Information Exchanges.

In Germany he is the chairman of the DIN committee for BIM.

MONDAY 8/11 - 11H30 - EN

'REVERSIBLE BIM' AND BUILDINGS AS MATERIAL BANKS - HOW BIM IS USED IN DECONSTRUCTION

Bhagya JAYASINGHE

Postdoctoral researcher
Université de Luxembourg

Dr. Elma DURMISEVIC

Head of Research / Director
4D Architects / Laboratory Green Transformable Buildings

Guillaume DUBOIS

Head of Unit Structures - Special Works
Schroeder & Associés



This workshop includes three presentations that will address the question of the circular economy in construction, combining the views of researchers and experts in deconstruction. First, Bhagya Jayasinghe (University of Luxembourg) will present the concept of a bank of materials and components coupled with BIM developed in the framework of the ECON4SD research project.

Next, Elma Durmisevic (GTB Lab / 4D Architects) will present her BIM-based assessment method of Building Reversibility and associated Reuse Potential of building components and materials.

Finally, Guillaume Dubois (Schroeder & Associés) will bring his engineering perspective and describe the potential of BIM in the preparation of deconstruction.

Bhagya JAYASINGHE

Bhagya Jayasinghe graduated as a Civil Engineer from the University of Moratuwa, Sri Lanka, and obtained his PhD in Structural Engineering from the Queensland University of Technology, Australia. He joined the Research Group for Solid Structures at the University of Luxembourg as a Postdoctoral Researcher in 2019. His research currently focuses is on demountable and reusable structures, Building Information Modeling and sustainability in construction.

Elma DURMISEVIC

Dr. Elma Durmisevic holds a PhD from TU Delft on Transformable Building Structures-Design for Disassembly in Architecture (first PhD on the topic worldwide). As Associate Professor at the University of Twente, she developed the MSc program for green sustainable buildings. During 20 years of research within various EU projects and development of reversible building systems, Elma Durmisevic developed tools for measuring circularity and reversibility.

Guillaume DUBOIS

Guillaume Dubois started in 2000 at Schroeder & Associés. Since 2016, he has been heading the "Special Works" unit within the "Structures" department and manages, among others, major deconstruction projects, including the Eurofloor site in Wiltz and the Jean Monnet in Kirchberg. He is also active in various working groups and development projects for more circular deconstruction.

MONDAY 8/11 - 13H50 - EN & DE

**RELEVANCE OF STRUCTURAL CHOICES VIA
COMPUTATIONAL DESIGN AND INTEREST
OF BIM IN TIMBER CONSTRUCTION**

Pieter BIEGHS

Structural Project Engineer
VK Architects & Engineers

Frank STOLZ

Manager - Consultant Timber Engineering
Blumer-Lehmann



Computational design gives the possibility to define the relevance of the construction systems according to the technical specificities as well as the social and environmental objectives of the project.

Pieter Bieghe will present concrete comparative case studies which have led to the most suitable constructive choice. But when wood turns out to be the most suitable solution, what are its limits?

Frank Stoltz will detail the contributions of BIM in prefabrication, going as far as the integration of MEP techniques in plug & play and the possibilities provided by parametric design, programming, and BIM, to carry out projects reconciling shapes, functions, and most extravagant architectural design.

Pieter BIEGHS

Pieter obtained a master's degree in architectural engineering from the "Vrije Universiteit Brussel" (VUB) and the "Université libre de Bruxelles" (ULB) and contributed to the Block Research Group at the Polytechnic of Zurich (ETH), where he developed his skills in computational design and structural analysis.

He then joined VK Architects & Engineers as Structural Project Engineer, where he combines the architectural vision with a cohesive structural system through informed computational design, thinking about all boundary conditions.

Frank STOLZ

Engineer-Architect graduated from the University of applied sciences in Trier, Frank continued his studies at the technical University of Trier in architecture and then at the technical University of Rosenheim where he obtained a master's degree in wood construction engineering for architect.

Starting his career in Switzerland at Blumer-Lehmann as head of the Free Form Management department, he then evolves quickly to become, in 2019, manager of the Luxembourg subsidiary of the Group.

MONDAY 8/11 - 14H45 - FR

**BIM PRACTICE IN TECHNICAL ENGINEERING OFFICES:
MEP & ACOUSTIC**

David STATUCKI

Chief Engineer-Acoustician
Schroeder & Associés

Mina AROUCHE

BIM Process Coordinator
VK Architects & Engineers



BIM and new tools supporting the digitalization of the construction sector are now a real added value to promote the development of this collaborative work process around the digital model.

How to manage the acquisition of data from 3D scanner, and what are the interests of its integration in 3D modeling software from a points cloud, especially in the case of a rehabilitation project, where the data of existing MEP installations are incomplete because of their non-accessibility? Can acoustic engineering effectively be adapted to a BIM workflow?

Mina Arouche and David Statucki will come back to the value and limits of these tools through their utilization in real projects.

David STATUCKI

With more than 20 years of professional experience in the acoustics sector in the broadest sense of the term, enriched by the practical application of engineering for projects of various sizes and purposes, David Statucki uses today's digital tools on a daily basis, confronting their limits to the resolution of the problems encountered and tending towards the reality inscribed by the results of experimental measurements

Mina AROUCHE

Application Engineer graduated from the Haouari Boumediene University of Science and Technology in Algiers, Mina has more than 10 years of experience in HVAC and BIM design. Today, as BIM Process Coordinator for the Group VK Architects & Engineers, she is an essential interface between disciplines. She works in close consultation with engineers and modelers in order to translate the information each one needs to ensure the consistency of 3D models in view of the design studies. Mina is also a Revit MEP and Autocad trainer for Bruxelles Formation.

MONDAY 8/11 - 15H40 - FR & DE

3D STRUCTURAL ANALYSIS MODEL EXCHANGE BETWEEN DISCIPLINES - HOW TO PROCEED

Rita LENGYEL

Architect
MODENA GROUP

Carlos CORDEIRO

Structural Engineer
GRAPHISOFT

Rudi VANMECHELEN

Account Manager
SCIA



The Structural Analytical Model (SAM) integrated into Archicad is the source of a privileged connection between architects and structural engineers. It enables real teamwork to be implemented to increase the quality of structural analysis.

In Archicad, the architect designs the physical model (BIM). From this Model is automatically generated the Structural Analytical Model (SAM), a representation of the load-bearing elements and their supports."

Through the use of a specific interchange format (SAF), the SAM can then be exported for the structural engineer to open in their own structural analysis software. As this is a two-way process, changes made to it can in turn be imported into Archicad and thus evolve the physical model.

MODENA GROUP teamed up with product developers and engineers from Graphisoft (developer of Archicad) and SCIA (structural analysis software) to best illustrate this direct collaboration.

Rita LENGYEL

Rita Lengyel is responsible for technical support and training at MODENA GROUP, and she is also a certified Graphisoft Archicad BIM Manager. Previously, she worked as an architect and project manager. She holds a master's degree in Architecture with specialization in engineering, and is passionate to interact with all stakeholders in the construction sector and provide them with solutions.

Carlos CORDEIRO

Carlos Cordeiro was named Product Marketing Manager at Graphisoft in 2021 and is responsible for the positioning of Graphisoft's product portfolio. He previously held positions including BIM Consultant and Product Marketing Expert, leading the firm's product strategy for the Integrated Design solution. A graduate of Aalborg University in Denmark, Carlos is a Structural Engineer, MSc.

Rudi VANMECHELEN

Rudi Vanmechelen is SCIA's most experienced (since 38 years) technical account-manager with extended know-how in structural engineering software (CAE and CAD) and their integration in the BIM work processes. He's passionate about helping engineers turn their imagination into reality and is firmly convinced in guiding people to improve their working processes and move their limits.

MONDAY 8/11 - 16H35 - EN

REDUCING FAILURE COSTS BY DOING BETTER COMMUNICATION USING BIM

Ann VAN DEN BORRE

BIM program & implementation manager
VK Architects & Engineers



BIM or Building Information Modeling is much more than a «smart» digital model in the sense that it is composed of elements that interact with each other and together with the project team it forms the basis for a collaborative working methodology around this model.

Implementing BIM and involving all stakeholders from the early stages of the project, allows for the adaption of important details regarding the team organization, the design itself, the construction process, and the operation, in other words, throughout the entire life cycle of the building. The results of these integrated decisions taken more quickly together, lead to an optimization of time, costs, and cooperation.

Ann Van den Borre will demonstrate through concrete feedback that thanks to BIM and tools such as BIM 360, which connect data, workflows and teams, an optimization of construction time is possible.

Ann VAN DEN BORRE

Civil Engineer-Architect graduated from the Catholic University of Leuven, Ann has always been convinced that digitization is the key to the future success of the construction industry in the face of the prevailing social challenges.

As soon as she completed her studies, she joined Autodesk and further developed her appetite for new technologies and new work processes. Determined to help changing the design culture, she then joined B2Ai architects in Brussels and supported the evolution of the office's collaborative working methods.

In 2009, she joined the Group VK Architects & Engineers as BIM program & implementation manager, where she developed an expertise in the field, which is now recognized internationally.

TUESDAY 9/11 - 09H30 - FR

BIM, WHAT A... MESS?

Daniel HURTUBISE

BIM Manager.....Voodoo

Data-Shapes

Is BIM really a bazaar? How does an industry grapple with such uncertainty for something as trivial as method? Open BIM or Close BIM? Do we really need file format to exchange data?

How come simple words confuse us? How should we do to make the information sharing effective? How can you really save time, therefore money using BIM? So many questions to ask ourselves when starting to use BIM.

During the next hour I will explain my personal experience and what are my thoughts... with the French Canadian accent as well.

Daniel HURTUBISE

From a small architectural office in Quebec City (Lemay Michaud: <https://www.lemaymichaud.com/>) to end up working on several countries; in several languages; with several Pritzker (including 15 years with Renzo Piano Building Workshop (<http://www.rpbw.com/>)) I am now lucky enough to be part of a group of friends (Data-Shapes: <https://data-shapes.io/>) working with several young and motivated offices along with builders and owners.



MARDI 9/11 - 10H20 - FR

**3D MODEL VS BUILT ENVIRONNEMENT IN
CONSTRUCTION PHASE - CASE STUDY BASED
ON 3D SCAN AND AUGMENTED REALITY**

Paul EHRET

Architect
Revizto

Raquel ALVES TIAGO

Architect and BIM Coordinator
CLK Constructions

Caroline ZIGRAND

Entrepreneur and co-founder
Genie Vision

Jean-Pierre VAN OUDENHOVE

Bioengineer
Genie Vision

Shahriar AGAAJANI

Engineering scientist
Founder of SPACE TIME S.A.

BIM is encountering some resistance to get past the construction site stage. Some of the actors on site are not used to computer tools, and even less to mobile tools and applications. It is therefore important to offer intuitive tools to make information on site accessible to all actors.

BIM basics on site: browse of the 3D model with superimpositions of 2D plans and exchange of comments - feedback from the use of Revizto ;

Superimposition of the building/ 3D model in augmented reality: an undeniable asset to improve monitoring, see what needs to be done in the building context and check what has been done against the digital model using GenieVision;

Superimposition of the different layers of the building in time: «travel» in time by superimposing photos / 3D scans of the different key stages of the construction site with the information accessible in real time in the Space Time suite -> the only As Built 3D faithful to the execution for the construction site and the operation.



Paul EHRET

Paul Ehret is an architect, committed to research and the application of new technologies in the AEC industry. He has worked in the USA, England, France and Switzerland in renowned international agencies. He has also taught at ESA Paris and EPFL Lausanne in Digital Manufacturing.

Raquel ALVES TIAGO

Raquel Alves Tiago is a graduate architect from the University of Greenwich in London and is currently BIM Coordinator at CLK Constructions. With 26 years of experience, notably in England, Brazil and Luxembourg, she has specialised in the design of passive building programmes and in the application of BIM.

Caroline ZIGRAND

After a Master's degree in Information and Communication at the Free University of Brussels (ULB) and ten years of experience in the implementation of digital and innovative sales processes within AGC, Caroline Zigrand is now pursuing her taste for innovation and entrepreneurship as co-founder of Genie Vision.

Jean-Pierre VAN OUDENHOVE

As a bio-engineer with a specialisation in geomatics, Jean-Pierre van Oudenhove has focused for the last 17 years on the development of geographic data transformation services in the energy and utilities sector. As Data Manager of Genie Vision, he is responsible for providing secure and consistent data flows between the cloud solution, the external API and the mobile application.

Shahriar AGAAJANI

By focusing on the scientific method as a rigorous basis, Shahriar Agaajani is devoted to apply, design and develop new solutions in the field of engineering and advancing society, especially in the domain of construction. Today, Shahriar combines his experience in the construction industry with modern IT concepts to contribute to the enhancement of stakeholders in the field and mark a big step forward in the digitization of the construction sector.



TUESDAY 9/11 - 11H10 - FR & DE

**THE POTENTIAL OF BIM OPERATIONS
FOR BUILDING MANAGEMENT**

Mehdi HALAL

CEO – BIM Manager
BIMConsult

Irene HASLER

Project Manager
Lead Consultants AG

Bob BANZER

Co-founder & Managing Director
OneTools Project Luxembourg

BIM Operations is a process that centralizes all building data related to the model, equipment and building operation on a single platform. This centralization of all static and dynamic building data makes it possible to correlate information and optimize its management.

Mehdi Halal will develop the points to consider for defining the expected level of information in digital models to optimize building operations.

Irene Hasler and Bob Banzer will present BuildingOne, Computer Aided Facility Management solution, including its use in planning the deployment of medical facilities, made possible by the extraction of data from the architectural model.

Mehdi HALAL

Mehdi has 15 years of BIM experience in the integration, training, and modeling of projects, in the Luxembourg, Belgian, French and New Zealand markets. CEO of BIMConsult, which he founded in 2014, he is still active as BIM Manager on many projects.

With his experience, he has been able, over the years, to position the company as a reference in the Luxemburgish market in terms of BIM consulting and management.

Irene HASLER

After an advanced Federal Diploma of Higher Education in Medical Technology from the Sarnen Advanced Technical School of Medical Technology, Irene studied at Regensdorf University of Applied Sciences, also in Switzerland, where she will obtain a bachelor's degree in industrial engineering in the beginning of 2022.

In 2019, she joined Lead Consultants AG as Project Manager and worked on the coordination of projects for different buildings, such as the Valais hospital or the St Claraspital in Basel, both in Switzerland.

Bob BANZER

After studying computer science at the Open University in Milton Keynes, England, Bob continued his training in construction. Beginning his career in the IT & financial sectors, he very quickly realized that the biggest challenges in any field are related to communication, whether interpersonal or interoperability between software.

He then takes over as CEO of OneTools Project Luxembourg, specialized in Digital Facility Management, in 2019.



TUESDAY 9/11 - 13H45 - FR & EN

**FROM MODULAR PRECAST ELEMENT TO
OPERATIONAL ORGANIZATION ON SITE IN 4D -
TOOLS AND CASE STUDY**

Xavier MAHY

Civil construction engineer
Bureau d'Ingénieur Mahy (BIM)
CEO OIKOS-Concept

Cédric DYSERS

BIM Coordinator
Thomas & Piron BAU



Europe is facing a housing crisis and industrialization is one of the answers to these multiple challenges. Off-site housing production techniques are also expanding worldwide. Faced with this (r)evolution, communication techniques and co-design tools are evolving to increase the reliability of exchanges between actors far apart and from different cultures. OIKOS-Concept considers that the gradual introduction of BIM is the cornerstone of the new design process that is coming out and illustrates it with two examples: Structural design transfer (ARCHICAD/SCIA) and Digital conception and site monitoring (DALUX).

A focus will then be made on the construction phase and more precisely the implementation of BIM for the management of material and equipment on site: Revit modeling of the Architect model and integration of the plans of Structure for analysis, study of constructive mode with the site + operational quantity take-off. After study of crane saturation, study of the day by day with Families of formwork panel and finally output of 2D deliverables.

Xavier MAHY

Xavier Mahy is a Civil Engineer and has been working in Luxembourg since 1996. Managing partner of the RAUSCH group (design offices in stability and technical engineering) until 2020, he created his office in 2017 to develop an international expertise activity.

Since July 2021, he is Director of OIKOS-Concept, a construction company specializing in off-site based in MERSCH.

Cédric DYSER

Self-taught by nature, he trained in Revit while taking night classes in plumbing and heating and specialized in Revit MEP. He will be hired by Tase Solutions as a support, trainer and modeler, and will perfect his skills while learning Dynamo, Inventor and Fusion 360.

Today he is a BIM coordinator at Thomas & Piron BAU, where he implements BIM in the design department.

TUESDAY 9/11 - 14H40 - DE & EN

**NEW WAYS OF PROJECT DELIVERY WITH BIM:
WHY BIM AND IPD COMPLEMENT EACH OTHER**

André FRIEDEL

Head of BIM in project management
Drees & Sommer SE

Ralf MOLTER

Associate Partner
Drees & Sommer SE



New project delivery models with BIM: why Integrated Project Delivery (IPD) only puts horsepower on the road with BIM.

How to create lean and modular works and assembly planning from day 1 with BIM: What relevance do HOAI and contract constructs have for IPD / BIM, and what roles do I have in the IPD project ?

André FRIEDEL

André Friedel is Head of BIM in project management for Drees & Sommer. He is responsible for strategic BIM management in large-scale and multi-projects.

As a project-managing architect, he has extensive experience in the planning, construction and management of challenging international projects in the BIM method.

Due to his practical hands-on experience, he advises companies and organisations in order to increase the efficiency of planning, building and operating through the smart implementation of digitalisation.

Ralf MOLTER

Ralf Molter is Associate Partner at Drees & Sommer and member of the management team at the Rhine/Main branch.

He has extensive experience in the successful implementation of large-scale and multi-projects over all sectors, and advises companies and organizations on the targeted and efficient realization of projects.

From the inception phase to operation through the use of suitable delivery models, such as the Integrated Project Delivery Method (IPDM).

TUESDAY 9/11 - 15H35 - FR & EN

PARAMETRIC MODELING, BIM AND DIGITAL TWINS IN INFRASTRUCTURE.

Cedric RICHARD

BIM Pilot
Bureau d'Etudes Greisch

Maarten VAN DEN BERG

BIM Program Manager & Principal
Infranea Belgium



To gain maximum value from every asset at every stage of a project, digital twin must be considered through the BIM process. That twin act both as a single source of truth for the asset throughout its lifecycle, and as a blueprint for future improvement – elevating the application of a process into an evolving project.

How parametric conception helps you in a 360° project vision and how to bring BIM to the next step through digital twin?

Cedric Richard and Maarten Van den Berg will give you all the clues through concrete cases...

Cedric RICHARD

Industrial Engineer graduate from the High Industrial Institute Gramme of Liège, Cédric travelled for 10 years around the world to implement a 3D modelling software solution for metal structures, confronting the exchanges between this solution and third-party software, particularly through the IFC format.

Since 2018, he has been developing BIM within the Greisch design office, in all its aspects (software, methodology, standards, protocols...).

Maarten VAN DEN BERG

Graduate of a master's degree in construction management and engineering from the University of Twente in Enschede, Maarten has over 7 years of BIM experience on ambitious infrastructural projects, such as the widening of the Lek canal and the construction of a 3rd chamber of the Beatrix lock in Netherlands, which has won the 2017 Overall EBP BIM Award.

Maarten is responsible for implementing the BIM program within Infranea and is currently working as BIM Manager on the Oosterweel road connection, near Antwerp, currently one of the largest infrastructure projects in Belgium.

TUESDAY 9/11 - 16H30 - FR & EN

**FROM NATIONAL DIGITAL TWIN TO
INTEROPERABILITY GIS - BIM**

Jeff KONNEN

Rural engineer EPFL, MB
Administration du cadastre et de la topographie
Service Géoportail

Pedro GOMES

Research officer
Administration du cadastre et de la topographie

Christophe HESS

Engineer in Geodesy
Official surveyor
Administration du cadastre et de la topographie
Service gestion des géodonnées

Michel WERA

BIMGIS Business Development
ESRI BeLux S.A.

Lionel BACH

Account Manager
ESRI BeLux S.A.

The Administration of Cadastre and Topography is moving towards BIM.

Several projects are on their way : LotsOfBIM for the extraction and semi-automatic generation of a vertical Cadaster, ACT2BIM to make available to designers the built environment in BIM format so as to enhance and simplify the use of the wide variety of three-dimensional geodata available: LiDAR point clouds, 3D buildings, photorealistic meshes as well as topographic data.

A focus will then be made on a tool that relates the building (BIM) and its environment in order to study the interaction of the building with its environment in 3D.



Jeff KONNEN

Jeff Konnen was born in Luxembourg. After his studies in Switzerland, he worked there as a GIS Analyst for 7 years, before creating ubiThere Consulting in Luxembourg.

In 2011, he joined ACT as the technical lead of the Geoportal, of which he is in charge since 2016.

Pedro GOMES

Pedro Gomes was born in Luxembourg. After studying in France and in Germany, he graduated as an Architect-Urban Planner.

Passionate about new technologies, he educated himself in BIM.

Currently « Chargé d'études » within the Land Registry and Topography Administration, he follows projects in connection with BIM.

Christophe HESS

Christophe Hess was born in Luxembourg. After graduating in geodesy and geoinformation, he worked as scientific collaborator at the University of Bonn. Currently, he is in charge of the national geodetic reference systems and supports BIM projects at the Land Registry and Topography Administration.

Michel WERA

Michel Wera, Esri BeLux BIMGIS Business Development est expérimenté dans le monde Autodesk et de la méthodologie BIM.

Depuis qu'Autodesk et Esri ont collaboré en 2017, il utilise son expérience pour assister les clients dans des projets BIMGIS.

Lionel BACH

Lionel Bach, as Account Manager at ESRI BeLux, is responsible for the development of the GIS market and the sale of ArcGIS software in the Grand Duchy of Luxembourg since 2001. He advises clients on their GIS strategy.

DEMONSTRATIONS : BIM SERVICES AND SOFTWARES

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LUNDI 8 NOVEMBRE

11:30 - 12:00	D1 [EN]	REVIZTO : BIM COORDINATION & DIGITAL COLLABORATION With the variety of authoring systems and file formats used in our BIM projects, it is more important than ever to speak a common language. This includes managing all issues in a single place. An integrated collaboration platform is the 'Single Source of Truth' in our project and forms a neutral and system-independent interface between everyone involved in the project. In this session, Sascha Kühner talks about the advantages of an Integrated collaboration platform for each individual project participant.
12:00 - 12:30	D2 [FR]	ILNAS : TECHNICAL STANDARDS FOR BIM Organisation of technical standardisation on BIM with ISO, CEN and ILNAS
12:20 - 13:50	PAUSE MIDI	
14:00 - 14:30	D3 [EN]	SIA : POWERBIM - THE POWER OF DATA FOR BUILDINGS IN THE CLOUD POWERBIM integrates systems on the cloud. We provide a bridge digital solution based on Autodesk and Microsoft Cloud. We will make a presentation of different services linked to this solution. (SIA.iris)
14:30 - 15:00	D4 [FR]	NEXT-BIM : IMMERSIVE MIXED REALITY AT THE SERVICE OF BIM FOR THE DESIGN, CONSTRUCTION AND MAINTENANCE OF BUILDINGS Based on technologies derived from video games and running on Microsoft HoloLens 2 mixed reality headsets, the NEXT-BIM solution makes it possible to fully exploit all the richness of the BIM model: immersive and collaborative project reviews from the design phase onwards, construction monitoring in immersive augmented reality on the worksite, guiding maintenance interventions in augmented reality with visualization «through walls and ceilings», etc., the NEXT-BIM solution makes it possible to achieve significant gains at all stages of a project.
15:00 - 15:30	D5 [FR]	MODENA : DESIGNING FREELY WITH ARCHICAD OpenBIM software, designed by architects, allows you to work more efficiently! Discover the benefits of this workflow with us.
15:30 - 16:00	D6 [FR]	ESRI BELUX : ARCGIS - THE DIGITAL CONTINUITY BETWEEN THE WORLD OF CONSTRUCTION AND THE WORLD OF INFORMATION SYSTEMS GEOGRAPHICALLY Through concrete examples of architecture, urban planning and infrastructure, we will demonstrate the convergence between BIM and GIS in the ArcGIS platform. This convergence can be found in the ESRI - Autodesk partnership.
16:00 - 16:30	D7 [FR]	TASE SOLUTIONS : RHINO.INSIDE.REVIT, A FUTURE WITHIN REACH.. The new Rhino.Inside.Revit tool allows Rhino to be integrated into other 64-bit Windows applications. Specifically, it is an add-on for Revit that provides a range of new components for interacting with Revit, as well as for accessing the APIs (application programming interfaces) of both programs using scripting components.
16:30 - 17:00	D8 [FR]	DESIGN EXPRESS : VECTORWORKS, FROM SKETCH TO BIM Model freely and assign IFCs to BIM objects in Vectorworks.
17:00 - 17:30	D9 [FR]	HOUSE OF ENTREPRENEURSHIP : FIT 4 DIGITAL PACKAGES - SUPPORT AND €5,000 FOR THE ACQUISITION OF BIM SOFTWARE Do you want to move to BIM? Are you looking to implement modelling solutions and model control software? Do you want to collaborate better with your partners with exchange platform solutions? Are you looking to better manage your projects with dedicated software? With Fit 4 Digital Packages, benefit from personalised support by the House of Entrepreneurship, the expertise of Luxinnovation-accredited service providers and a digital voucher of €5,000 (excluding VAT) from the Direction générale des Classes moyennes du ministère de l'Economie.
17:30 - 18:30	NETWORKING	

DEMONSTRATIONS : BIM SERVICES AND SOFTWARES

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MARDI 9 NOVEMBRE

10:30 - 11:00	D10 [FR]	MODENA : MANAGE YOUR PROJECTS WITH BIMOFFICE Automate your technical studies thanks to the bidirectional BIM link between BIMoffice and Archicad or Revit. With this OpenBIM solution you can manage your activity from A to Z.
11:00 - 11:30	D11 [EN]	INFRAEVA : BIM & SCRIPTED MODELING FOR INFRASTRUCTURE PROJECTS Infraeva is involved in the design & engineering process for linear Infrastructure projects. Therefore, the Automation Engineers in Infraeva develop scripts to place elements in an automated way to keep the design adaptive in case of changes in the alignment.
11:30 - 12:00	D12 [FR]	GENIE VISION : AUGMENTED REALITY FOR CONSTRUCTION Visualise your 3D BIM model in Augmented Reality on your construction sites.
12:00 - 13:45	PAUSE MIDI	
14:00 - 14:30	D13 [EN]	ONETOOLS PROJECT : BUILDINGONE THE SOLUTION FOR ROOM BOOKS, BUILDING MANAGEMENT, MAINTENANCE AND MORE. See how easy it is to synchronise BuildingOne bidirectionally with Revit, ArchiCAD and Vectorworks and then manage the data centrally. Learn how to add object in BuildingOne and how they are then created in a 3D model.
14:30 - 15:00	D14 [EN]	BIMCONSULT : THE SOLUTION TO ENSURE COMPLIANCE WITH «GID LEVELS» IN REVIT BIMConsult will present the Revit plugin developed specifically to simply and accurately fill in the «GID levels» set up in Luxembourg.
15:00 - 15:30	D15 [FR]	ARKANCE SYSTEMS : FROM STRUCTURAL ANALYSIS TO REINFORCEMENT DRAWING IN BIM How SOFiSTiK and AGACAD tools can be used to integrate structural analysis and detailed reinforcement drawings for execution into a Revit model.
15:30 - 16:00	D16 [EN]	GAMMA : CONSTRUCTION SITE MANAGEMENT WITH AUGMENTED REALITY AND BIM GAMMA AR is a construction technology that overlays 3D Building Information Models (BIM) on the jobsite to prevent errors, reduce rework and shorten the time spent on documentation and follow-up.
16:00 - 16:30	D17 [EN]	SCIA: IMPROVED BIM - FULL INTEGRATION OF ENGINEERS IN BIM REAL AUTOMATION: FROM STRUCTURAL MODEL TO ANALYSIS MODEL SCIA AutoConverter is a fast, easy-to-use, accurate and reliable application, which enables structural engineers to convert automatically structural models from any 3D structural software to create high quality and accurate analysis models. What's more, revisions from both modellers and engineers can be updated simply and straightforwardly.
17:30 - 18:30	NETWORKING	

EXHIBITORS 2021



Aujourd'hui, les projets d'Architecture et d'Ingénierie dans le Bâtiment ou le Génie Civil sont de plus en plus complexes. Des délais toujours plus courts, un nombre d'acteurs grandissant, et des objectifs de qualité toujours plus grands imposent à nos clients de concevoir correctement du premier coup pour assurer leur rentabilité.

Chez ALLPLAN, depuis 40 ans, nous consacrons toute notre énergie à résoudre ces problématiques à travers nos solutions logicielles intégrées. Ces dernières sont développées dans cette philosophie par des spécialistes pour des spécialistes. Avec des valeurs fortes qui nous caractérisent telles que : l'expertise métier, l'OPEN BIM® et une forte orientation client.



Arkance Systems est un intégrateur de solutions CAO et BIM pour l'ensemble des phases des projets de bâtiments et d'infrastructures.



Betic is a technical engineering firm with 60 employees who, for the past 20 years, adopt an agile and innovative approach in order to carry out unique projects, with one vision in mind: «Valuing People & Planet».

With its experts and the ones of VK Architects & Engineers Group, which the company is part of, the company also offers advanced expertise in fire safety engineering, acoustic engineering, sustainable design, facade engineering and BIM.



axeobim

AxeoBIM est une plateforme collaborative BIM (CDE) qui s'adresse aux acteurs de la construction, de la maîtrise d'ouvrage aux équipes de maîtrise d'œuvre et aux entreprises du BTP, qui recherchent un espace de travail collaboratif, sécurisé et intuitif.

AxeoBIM permet de fluidifier les échanges, de mener à bien vos projets conformément au programme, dans le respect du planning et dans la maîtrise du budget.



BIM-Y est une plateforme web réalisant automatiquement l'inventaire architectural et technique des bâtiments et permettant de définir, collecter, gérer et partager les données techniques de chaque équipement du bâtiment via son jumeau numérique.

EXHIBITORS 2021



Besoin d'accompagnement pour vos projets en BIM ? Faites appel à BIMConsult !

Créée en 2014, BIMConsult est une société d'experts métiers qui accorde une réelle importance à la qualité des services fournis à ses clients. BIMConsult offre différentes prestations autour du BIM: BIM Management, Assistance à la Maitrise d'Ouvrage (AMO BIM), accompagnement des entreprises dans leur transition BIM (BIM Ready), modélisation...

design express

Design Express est le distributeur officiel de logiciels tels que Vectorworks et Enscape, destinés aux architectes, paysagistes et professionnels de l'événementiel. La mission de Design Express est de les soutenir via des solutions performantes et intuitives qui leur permettent de réaliser leurs projets et de marquer leur empreinte.

BIM LUX 2021



Les sociétés EXPERT-IT et PIXXIM s'unissent pour créer une Centre de Compétences BIM, intitulé « BIMmap » qui fédère des expertises dans les domaines suivants :

- BIM Conseil : rédaction de chartes ou cahier des charges BIM, assistance architecture IT, aide à la rédaction de DCE, délégation de compétences
- BIM Services : réalisations de Maquettes Numériques, conception BIM (Revit) et synthèse BIM
- BIM Solution : aide à la mise en place d'une plateforme collaborative BIM, intégration au Système d'Information de l'entreprise.



Esri BeLux S.A. est le distributeur officiel en Belgique et au Grand-Duché de Luxembourg de Esri Inc. ArcGIS connecte les personnes avec des cartes, données et applications au travers de Systèmes d'Information Géographique (SIG). Découvrez la convergence du monde BIM et SIG avec ArcGIS dans vos différents métiers !

Canon

'Canon est spécialisée dans la production et la commercialisation des technologies de l'information et de l'imagerie numérique et met à la disposition de ses clients, particuliers et professionnels du monde entier, des systèmes et des solutions de pointe en lien avec l'image et le document.'



GAMMA AR is a construction technology that overlays 3D BIM Models on the jobsite using augmented reality on mobile devices to prevent errors, reduce rework, and shorten the time spent on documentation and follow-up.

EXHIBITORS 2021



GenieVision est une startup d'entreprise initiée par le grand groupe verrier AGC. GenieVision apporte le modèle BIM sur chantier. Via un appareil mobile, il est désormais possible d'afficher de manière simple et efficace, en temps réel, à l'endroit précis où on se trouve, le modèle 3D superposé à son environnement. Les performances en termes de fiabilité et de qualité de contrôle sont inégalées sur le marché. La solution s'accompagne d'un service assurant l'intégration à l'écosystème BIM du client, pour une utilisation rapide et fiable tout au long de vos projets.



Le bureau de Géomètres-Experts GEOLUX 3.14 S.A. fait partie du groupe GEO314 qui est présent au Luxembourg et en Belgique. Actif dans le domaine de la mesure depuis 20 ans, nous sommes présents dans les technologies de pointe dont le scan et la modélisation 3D, le SIG et le BIM.



ILNAS (Institut luxembourgeois de la normalisation, de l'accréditation, de la sécurité et qualité des produits et services) is a public administration under the authority of the Minister of the Economy. In carrying out its standardization-related missions, ILNAS is supported by the Agency for standardization and the knowledge-based economy (ANEC GIE).

HOUSE OF ENTREPRENEURSHIP

powered by the Luxembourg Chamber of Commerce

La House of Entrepreneurship de la Chambre de Commerce est le point de contact national dédié à l'entrepreneuriat et propose une offre de services consolidée aux créateurs d'entreprises ainsi qu'aux dirigeants établis. Grâce à ses partenaires, la House of Entrepreneurship fédère l'ensemble des parties prenantes intervenant dans l'écosystème au Luxembourg. Les entrepreneurs peuvent contacter la House of Entrepreneurship lorsqu'ils recherchent des conseils personnalisés ou des ateliers sur des thématiques diverses telles que la création d'entreprise et son cadre réglementaire, le développement, le financement, les aides de l'Etat et la digitalisation.



For years, Infranea engineers have been using advanced software to digitize design details on complex infrastructure works. This creates tremendous potential in terms of 3D design, BIM services and VR simulation. However, 'digital engineering' is so much more than that... and at Infranea, we understand this. Infranea is a member of VK Architects & Engineers Group.

EXHIBITORS 2021



L.S.C. Engineering Group est composé de plusieurs sociétés d'ingénieurs-conseils spécialisé dans le domaine de la construction et de l'aménagement du territoire. Les prestations proposées ont pour objectif d'accompagner le client tout au long d'un projet de construction, de rénovation ou de transformation.



MODENA LUX est une société Luxembourgeoise, distributeur exclusif Archicad au Grand-duché du Luxembourg. Société d'envergure internationale basée à Capellen, MODENA LUX est experte dans les domaines du BIM, de l'architecture, du design (Archicad, Rhino), de contrôle de maquette BIM (solibri), de la gestion de projet (BIM office) à destination des architectes et des professionnels de la construction, des maîtres d'œuvre et d'ouvrage. L'équipe, composée d'architectes, accompagne les utilisateurs dès leurs premiers pas jusqu'au perfectionnement de leur utilisation d'Archicad. L'offre de formation est disponible sur le site www.modena.group

Si vous n'avez jamais utilisé Archicad, venez découvrir et manipuler le logiciel lors des sessions gratuites Archicad découverte « de l'esquisse au modèle ». Lors de BIM Lux nous serons heureux de rencontrer les architectes, de discuter du métier et des difficultés qu'ils rencontrent dans leur travail au quotidien. La deuxième journée sera consacrée aux questions des utilisateurs et non utilisateurs désirant faire le point sur leur pratique d'Archicad, un « Hop On Hop Off » de questions/réponses.



La Réalité Mixte Immersive au service du BIM pour la Conception, la Construction et la Maintenance du bâtiment

Basée sur des technologies issues du jeu vidéo et fonctionnant sur les casques de réalité mixte Microsoft HoloLens 2, la solution développée par NEXT-BIM permet de s'immerger seul ou à plusieurs dans une maquette BIM, en salle de réunion ou sur site, en superposant automatiquement, dans ce cas, le modèle virtuel sur l'environnement réel.

Revue de projets immersives et collaboratives dès la phase conception, suivi de la construction en réalité augmentée immersive sur chantier, guidage des interventions de maintenance en réalité augmentée avec visualisation « à travers les murs et les plafonds », la solution NEXT-BIM permet d'obtenir des gains importants à toutes les étapes.

EXHIBITORS 2021



Constitué en 1990, l'Ordre des Architectes et des Ingénieurs-Conseils (OAI) regroupe 5 professions libérales : architecte, architecte d'intérieur, ingénieur-conseil, urbaniste-aménageur et architecte -/ ingénieur - paysagiste. Au-delà de ses missions légales, d'organisation professionnelle ainsi que d'intérêt public, l'OAI valorise la véritable dimension du travail de ses membres, au niveau économique, social, artistique et culturel, pour un cadre de vie durable, intelligent et de qualité.

L'OAI est en outre membre de nombreuses organisations internationales : UIA, ACE, FIDIC, EFCA, ENACA, Euroka.



Nous proposons des solutions qui s'intègrent dans le processus BIM et qui sont utilisées par des architectes, des gestionnaires de bâtiments, des prestataires de services et des chercheurs.

BuildingOne offre des interfaces avec ArchiCAD, Revit et Vectorworks qui permettent de synchroniser les données de manière bidirectionnelle avec les maquettes, de les gérer et de les affiner.



Revizto is the industry-leading Integrated Collaboration Platform (ICP) used by Architects, Engineers, Contractors and Owners to maximize workflows throughout the project lifecycle. The tool empowers teams to drive accountability, mitigate risks, improve timelines and maximize cost-savings by enabling real-time collaboration across platforms, model types and teams, from in-office, on-site, and any device. Revizto is now leveraged on 20,000 projects by over 3,000 firms globally including 20 of the top 25 ENR firms.



Confident with complexity.

In a time of increasingly complex infrastructures, our teams of experienced engineers, architects and urban planners stand ready, to design optimised processes, ranging from the analysis to the planning, construction and completion of a project. In close and constant dialogue with all partners involved, we work out and develop professional solutions to advance projects for every client's specific requirements to be met..

Our services: Project & District Development, Project Owner Consulting, Project Management, BIM services, Technical Engineering, Energy Concepts, Building audits, Healthcare services.

EXPOSANTS 2021



S-built s.à r.l. se base sur une technologie phare et innovante de scanner 3D pour le relevé et la visualisation tridimensionnelle d'immeubles existants.

La société est spécialisée dans le levé assisté par laser 3D d'habitations unifamiliales, de bâtiments résidentiels, commerciaux, administratifs et également dans la création des plans as-built CAD « BIM ready ».



SIA.architects est un bureau établi en Belgique et au Luxembourg depuis 1995, qui se présente avec son partenaire stratégique BIM6D, une société spécialisée dans le conseil BIM et le développement de solutions innovantes. Ensemble, ils offrent de nouveaux services aux acteurs du secteur de l'AEC qui souhaitent exploiter les possibilités des nouvelles technologies.

BIM
LUX 2021



Powerful structural analysis software & design tools with local support. SCIA combines structural engineering and design know-how with technology, to provide powerful structural analysis software and high-level support. Together, they enhance the structural engineer's BIM workflow and boost productivity for all types of structures – from the everyday, to the once in a lifetime. SCIA AutoConverter is a fast, easy-to-use, accurate and reliable application, which enables structural engineers to convert automatically structural models from any 3D structural software to create high quality and accurate analysis models. What's more, revisions from both modellers and engineers can be updated simply and straightforwardly.



Concepteur & éditeur de logiciels pour le BTP

So.build concepteur & éditeur de logiciels pour le BTP. La société basée à Nantes est spécialisée dans le BIM pour les entreprises de construction et bureaux d'ingénieurs conseils.

So.build, édite des logiciels BIM pour Revit (Méthode+, le logiciel pour concevoir le plan d'installation de chantier, le terrassement et l'environnement urbain).



SGI est un groupe européen d'ingénieurs-conseils spécialisé dans les secteurs du transport, du bâtiment, de l'eau et de l'environnement. Le groupe propose une offre de services à destination des maîtres d'ouvrage et aménageurs souhaitant s'insérer dans la chaîne de valeur du Building Life Cycle Management.



Space Time, c'est une base de données réelles as-built où plus aucune information n'est perdue au cours du chantier. Tous les acteurs de la chaîne de construction bénéficient de différents services qui permettent de suivre l'avancement du chantier, de détecter les erreurs et d'anticiper les éventuelles interventions.

QUALITY THROUGH TRANSPARENCY

EXHIBITORS 2021



« Simplifie la conduite de vos travaux sur les réseaux enterrés en proposant un boîtier GNSS accompagné d'une suite complète d'applications à destination des chefs de chantier sur smartphones et tablettes. Créez des plans, des points géoreferencés, des jumeaux numériques et visualisez les en réalité augmentée ! »



Depuis plus de 30 ans, TASE est une entreprise spécialisée dans les solutions informatiques CAD et BIM. Centre de formation et de consultance agréé Autodesk. Nos solutions comprennent la fourniture, la formation, le support et le coaching. Distributeur exclusif BENELUX des écrans 3D sans lunettes ZVIEW et ZBOX.



SoftwareONE has partnered with RIB Software, providing the market presence and delivery capabilities to offer RIB Software's MTWO construction cloud platform globally. We are committed to jointly fueling technological innovation for AEC customers so they can better manage risks, avoid rework and reduce waste. As of 2021, MTWO is available from SoftwareONE in 25 countries.

The MTWO Construction Cloud is a 6D BIM (Building Information Modelling) enterprise cloud for end-to-end project management. It connects all teams, anytime, anywhere, through all devices, and provides real-time intelligent data for effective decision-making, helping project teams to build faster, smarter and better, and enabling enterprises to be more efficient, sustainable and successful. RIB Software has chosen SoftwareONE as its global distribution and service delivery partner for the MTWO construction cloud platform. Together, we are helping AEC businesses and Real Estate owners to advance their digital transformation journeys, using technology to better manage construction risk, avoid rework, reduce waste, save cost, and be more sustainable



VK Architects & Engineers is an engineering and design firm with 70 years of experience and know-how, with 500 employees working to design ever more innovative projects around one motto: «Valuing People & Planet».

The company, mainly active in Healthcare, Buildings, Industry and Infrastructure, also offers advanced expertise in fire safety engineering, acoustic engineering, sustainable design, facade engineering and BIM.



Notre plateforme Web de data management en temps réel, full Cloud & IFC a pour objectifs :

- De connecter les experts de la maquette numérique avec les non experts
- Disposer d'une base de données IFC, modifiables en temps réel et de services sur la data