



innovationmeetings
meet the construction experts

May 3rd 2022

Innovation Meeting

AI innovations driving the future of construction

Johan Van Dessel, Coordinator Strategy & Innovation





Votre partenaire
en innovation, la
construction 4.0 et la
construction durable

UN SERVICE DU



EN COLLABORATION AVEC



AVEC LE SOUTIEN DE



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Rue Dieudonné Lefèvre 17
1020 Bruxelles



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www.c-tech.brussels





Trouvez les applications numériques qui vous correspondent

Sélectionnez votre corps de métier



Technologies

Découvrez les technologies numériques adaptées au secteur de la construction

Demo: Snel en gemakkelijk werfmaterialen tellen met een gewone smartphone

Het handmatig tellen van stapels werfmaterialen kost tijd en kan eentonig zijn. Het gebruik van een AI-app op een gewone smartphone kan hiertoe uitkomst bieden.



Op de werf worden veel soorten materialen gebruikt die geteld moeten worden. Het gaat bijvoorbeeld om schoren, balken en wapeningsstaven. Het handmatig tellen van deze en andere materialen kost tijd en kan



ZOEK DIGITALE TOEPASSINGEN DIE VOOR JOU GESCHIKT ZIJN

Agenda

Participez à l'une des activités relatives à la numérisation dans le secteur de la construction

2022-05-03

AI innovations driving the future of construction
(Ixelles)

2022-06-24

Cluster Digital Construction: GT BIDS

2022-05-31

Cluster Digital Construction: GT Training –
e-of-construction-elsen...

Thema's

- Controleren
- Monitoren
- Opmeten
- Visualiseren

Voor welke beroepen ?



Kulapro

ACTIVITIES
[Construction company](#)

SHORT COMPANY DESCRIPTION
Innovative wood manufacturing company specialized in acoustic and fire-rated interior doors and high-end tailor made furniture for public ...

CONTACT PERSON
Bertrand Schrevens

LOCATIONS IN BELGIUM
[Vlaams Gewest](#) [Region Wallonne](#)

ADDRESS
Avenue Edison 16
1300 Wavre

WEBSITE
<https://www.kulapro.be/>



IOT Factory

ACTIVITIES
[Service provider](#)

SHORT COMPANY DESCRIPTION
Smart Solutions, based on IOT devices, for the construction sector. Assets Tracking (people, machines), Smart Metering (Water, Electricity, ...)

CONTACT PERSON
Lionel Anciaux

LOCATIONS IN BELGIUM
[Brussels Hoofdstedelijk Gewest/R...](#)



CFE

ACTIVITIES
[Construction company](#) [Service prs](#)

SHORT COMPANY DESCRIPTION
The CFE group, which is active in the areas of marine engineering, construction and real estate development, is a major player in th ...

CONTACT PERSON
Hans Van Dromme

LOCATIONS IN BELGIUM
[Vlaams Gewest](#) [Brussels Hoofdstedelijk Gewest/R...](#)

ADDRESS
Hermann-Debrouxlaan 40
1160 Brussels

WEBSITE
<https://www.cfe.be/>



rock.estate

ACTIVITIES
[Software provider](#)

SHORT COMPANY DESCRIPTION
We specialize in the remote and time evaluation of buildings on a country-wide scale to help companies understand their customers' hor ...

CONTACT PERSON
Laurent Andrianne

LOCATIONS IN BELGIUM
[Brussels Hoofdstedelijk Gewest/R...](#)



Faktion

ACTIVITIES
[Service provider](#)

SHORT COMPANY DESCRIPTION
Custom AI product developer with construction experience

CONTACT PERSON
Hans Van Dromme

LOCATIONS IN BELGIUM
[Vlaams Gewest](#) [Brussels Hoofdstedelijk Gewest/R...](#)

ADDRESS
Hermann-Debrouxlaan 40
1160 Brussels

WEBSITE
<https://www.faktion.be>



KABANDY

ACTIVITIES
[Software developer](#)

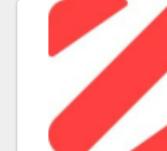
SHORT COMPANY DESCRIPTION
Kabandy is a quantity management platform dedicated to the building industry, ranging for cost estimation to the quality control of BIM models.

CONTACT PERSON
Hans Van Dromme

LOCATIONS IN BELGIUM
[Vlaams Gewest](#) [Brussels Hoofdstedelijk Gewest/R...](#)

ADDRESS
Hermann-Debrouxlaan 40
1160 Brussels

WEBSITE
<https://www.kabandy.com>



Zensor

ACTIVITIES
[Service provider](#)

SHORT COMPANY DESCRIPTION
Providing integrated sensor-based monitoring solutions to maximise availability and reduce full lifetime cost for civil assets

CONTACT PERSON
Hans Van Dromme

LOCATIONS IN BELGIUM
[Vlaams Gewest](#) [Brussels Hoofdstedelijk Gewest/R...](#)

ADDRESS
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1160 Brussels

WEBSITE
<https://www.zensor.be>



AXI

ACTIVITIES
[Consulting company](#)

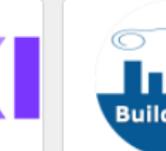
SHORT COMPANY DESCRIPTION
IT Solutions Provider with Oracle, Microsoft and Open Source Expertise in Core Processes (Customer Portals, Financials, HR Administration,

CONTACT PERSON
Hans Van Dromme

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ADDRESS
Hermann-Debrouxlaan 40
1160 Brussels

WEBSITE
<https://www.axi.be>



BuildWind

ACTIVITIES
[Engineering](#)

SHORT COMPANY DESCRIPTION
Architectural and Environmental Fluid Dynamics

CONTACT PERSON
Hans Van Dromme

LOCATIONS IN BELGIUM
[Vlaams Gewest](#) [Brussels Hoofdstedelijk Gewest/R...](#)

ADDRESS
Hermann-Debrouxlaan 40
1160 Brussels

WEBSITE
<https://www.buildwind.be>



B12 Consulting

ACTIVITIES
[Service provider](#) [Consulting comp](#)

SHORT COMPANY DESCRIPTION
B12 Consulting is an IT services company, expert in artificial intelligence, data science and custom software development

CONTACT PERSON
Hans Van Dromme

LOCATIONS IN BELGIUM
[Vlaams Gewest](#) [Brussels Hoofdstedelijk Gewest/R...](#)

ADDRESS
Hermann-Debrouxlaan 40
1160 Brussels

WEBSITE
<https://www.b12.be>



Sagacify

ACTIVITIES
[Service provider](#)

SHORT COMPANY DESCRIPTION
Sagacify is a leading Belgian AI expert, helping you design, build and integrate AI-based solutions to optimise operational and productiv ...

CONTACT PERSON
Hans Van Dromme

LOCATIONS IN BELGIUM
[Vlaams Gewest](#) [Brussels Hoofdstedelijk Gewest/R...](#)

ADDRESS
Hermann-Debrouxlaan 40
1160 Brussels

WEBSITE
<https://www.sagacify.be>



SkalUP

ACTIVITIES
[Service provider](#)

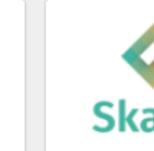
SHORT COMPANY DESCRIPTION
SkalUP delivers AI-configurators and design & quote tools for the construction sector

CONTACT PERSON
Hans Van Dromme

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ADDRESS
Hermann-Debrouxlaan 40
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WEBSITE
<https://www.skalup.be>



GOM

ACTIVITIES
[Research group](#)

SHORT COMPANY DESCRIPTION
The GOM lab at the Université libre de Bruxelles (ULB) expertise in AI is focused on solving large-scale combinatorial and bilevel ...

CONTACT PERSON
Hans Van Dromme

LOCATIONS IN BELGIUM
[Vlaams Gewest](#) [Brussels Hoofdstedelijk Gewest/R...](#)

ADDRESS
Hermann-Debrouxlaan 40
1160 Brussels

WEBSITE
<https://gom.ulb.ac.be>

VUB ARTIFICIAL INTELLIGENCE RESEARCH GROUP

Vrije Universiteit Brussel

RESEARCH GROUP
Artificial Intelligence Research Group

PROVIDING AI SERVICES TO THE CONSTRU...
[Between 2 to 5 years](#)

ACTIVITIES RELATED TO THE CONSTRUCTI...
The AI Lab has strong expertise in Reinforcement Learning, Multi Agent Systems and Knowledge Representation and Reasoning.

ACTIVITIES IN DETAIL
The Artificial Intelligence Lab, founded in 1983 as the very first AI Lab on the Continental Europe. It is currently headed by Prof. Dr. Ann ...

AI APPLICATIONS FOR THE CONSTRUCTIO...
Predictive maintenance
Energy management
Load balancing
Smart Grids (energy, heat, water, ...) ...

AI USE CASE EXAMPLES
Predictive maintenance and optimization of energy production and infrastructure life time in the context of off-shore windmill parks....

CONTACT PERSON
Gill Baeten

LOCATIONS IN BELGIUM
[Brussels Hoofdstedelijk Gewest/R...](#)

EluciDATA eLab

SIRRIS

RESEARCH GROUP
EluciDATA Lab

PROVIDING AI SERVICES TO THE CONSTRU...
[More than 5 years](#)

ACTIVITIES RELATED TO THE CONSTRUCTI...
Condition monitoring and performance validation of construction processes and materials. Proactive support to construction ...

ACTIVITIES IN DETAIL
From a socio-economic perspective EluciDATA Lab bundles Sirris's expertise in data processing and AI. The Lab's mission is to stimulate data innovation and the uptake of AI ...

AI APPLICATIONS FOR THE CONSTRUCTIO...
Progress monitoring
Operations & Maintenance
Load balancing
Smart Grids (energy, heat, water, ...) ...

AI USE CASE EXAMPLES
Please check the projects listed on our website (<https://elucidatalab.be/projects>). The underlying use cases are linked to ...

CONTACT PERSON
Nicolas Gonzalez Deleito

LOCATIONS IN BELGIUM
[Brussels Hoofdstedelijk Gewest/R...](#)

SMIT

Vrije Universiteit Brussel

RESEARCH GROUP
Studies in Media, Innovation and Te...

PROVIDING AI SERVICES TO THE CONSTRU...
[Between 2 to 5 years](#)

ACTIVITIES RELATED TO THE CONSTRUCTI...
SMIT's focus is on research related to innovation, policy and socio-economical challenges. To this aim, imec-SMIT-VUB conducts user ...

ACTIVITIES IN DETAIL
From a socio-economic perspective SMIT investigates the design, the development and the deployment of new innovative technologies and ho...

AI APPLICATIONS FOR THE CONSTRUCTIO...
Requirements and possibilities of Smart building, use of digital twin, the use of robotics in construction, new business models for constructi...

AI USE CASE EXAMPLES
See DITUR - <https://smit.vub.ac.be/how-to-stimulate-group-renovations-project-ditur>...

CONTACT PERSON
Bram Lievens

LOCATIONS IN BELGIUM
[Brussels Hoofdstedelijk Gewest/R...](#)

VUB HUMAN ROBOTICS RESEARCH CENTER

Vrije Universiteit Brussel

RESEARCH GROUP
Brussels Human Robotics Research ...

PROVIDING AI SERVICES TO THE CONSTRU...
[Less than 2 years](#)

ACTIVITIES RELATED TO THE CONSTRUCTI...
We research through imec indoor Ultra Wide Band localization of drone swarms. These drones can collaborate to execute a task (multi-agent teams).

ACTIVITIES IN DETAIL
We believe that resource bound robots, each of them being quite cheap, with a specific capability, can work together as a team and result i...

AI APPLICATIONS FOR THE CONSTRUCTIO...
We are working on BIM reconstruction and for progress monitoring.

AI USE CASE EXAMPLES
Performed testing of the exoskeletons in the working environment of DEME.

CONTACT PERSON
Simon Beckers

LOCATIONS IN BELGIUM
[Brussels Hoofdstedelijk Gewest/R...](#)

ictteam

UCLouvain

RESEARCH GROUP
ICTTEAM

PROVIDING AI SERVICES TO THE CONSTRU...
[Less than 2 years](#)

ACTIVITIES RELATED TO THE CONSTRUCTI...
We use AI for BIM reconstruction and for progress monitoring.

ACTIVITIES IN DETAIL
Structural health monitoring and performance assessment of large structures and infrastructure is one of the main research themes at the KU...

AI APPLICATIONS FOR THE CONSTRUCTIO...
Operations & Maintenance, Identifying defects, Renewable energies management

AI USE CASE EXAMPLES
We are working on BIM reconstruction using pointclouds. Our work is separated in different parts :

CONTACT PERSON
Jean Gillain

LOCATIONS IN BELGIUM
[Region Wallonne](#)

KU LEUVEN

Hybrid Core BV

RESEARCH GROUP

PROVIDING AI SERVICES TO THE CONSTRU...
[More than 5 years](#)

ACTIVITIES RELATED TO THE CONSTRUCTI...
The Structural Mechanics Section has a strong research expertise in system identification and condition and performance monitoring of civil ...

ACTIVITIES IN DETAIL
Structural health monitoring and performance assessment of large structures and infrastructure is one of the main research themes at the KU...

AI APPLICATIONS FOR THE CONSTRUCTIO...
Operations & Maintenance, Identifying defects, Renewable energies management

AI USE CASE EXAMPLES
We assist our clients in planning and execution in complex and uncertain environments to improve safety, mitigate risks & threats, maximize ...

CONTACT PERSON
Kristof Maes

LOCATIONS IN BELGIUM
[Vlaams Gewest](#)

HYBRID CORE

Université Libre de Bruxelle...

RESEARCH GROUP

PROVIDING AI SERVICES TO THE CONSTRU...
[Less than 2 years](#)

ACTIVITIES RELATED TO THE CONSTRUCTI...
Hybrid Core BV is developing a hybrid intelligence-powered next-generation decision support system, Smart Navigator, to power digital ...

ACTIVITIES IN DETAIL
We assist our clients in planning and execution in complex and uncertain environments to improve safety, mitigate risks & threats, maximize ...

AI APPLICATIONS FOR THE CONSTRUCTIO...
Operations & Maintenance, Identifying defects, Renewable energies management

AI USE CASE EXAMPLES
We can detect and classify images, texts, speeches; extract relations and networks; predict risks and threats; simulate intelligent operations for ...

CONTACT PERSON
Hasan Suzen

LOCATIONS IN BELGIUM
[Vlaams Gewest](#)

GOM

RESEARCH GROUP

PROVIDING AI SERVICES TO THE CONSTRU...
[More than 5 years](#)

ACTIVITIES RELATED TO THE CONSTRUCTI...
The GOM lab at the Université libre de Bruxelles (ULB) expertise in AI is focused on solving large-scale combinatorial and bilevel ...

ACTIVITIES IN DETAIL
The expertise of the GOM lab is focused on the development of better models and effective algorithms to solve large-scale and ...

AI APPLICATIONS FOR THE CONSTRUCTIO...
Progress monitoring, Operations & Maintenance (Predictive maintenance), Clash detection, Image recognition, Identifying defects

AI USE CASE EXAMPLES
Distribution of energy demand to minimise costs or to encourage self-consumption of the renewable energy produced...

CONTACT PERSON
Ronnie Raeymaekers

LOCATIONS IN BELGIUM
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innovationmeetings
meet the construction experts

Innovation Meeting

AI innovations driving the future of construction



15:30	<i>Accueil et reception Onthaal en receptie</i>
16:00	Présentation de l’Innovation Meeting <i>Voorstelling van de Innovation Meeting</i> Johan Van Dessel (WTCB-CSTC)
16:05	Subsides bruxellois en matière d’innovation <i>Brusselse subsidies voor innovatie</i> Sebastian Serrano (Innoviris)
16:15	Soutien de l’IA pour les processus de construction et les travailleurs <i>AI ondersteuning voor bouwprocessen en workers</i> Nicolas González-Deleito (SIRRIS)
16:35	AI Smart Grids pour une minimalization des coûts et une efficacité optimale <i>AI Smart Grids voor kosten minimalisering en optimale efficiency</i> Gill Balcaen (VUB)

16:55	<p>Robotique et Automatisation dans la Construction : cas d'étude sur la construction robotique au moyen de blocs lourds</p> <p><i>Robotica en Automatisering in de Bouw : een case studie over robotisch bouwen met zware blokken</i></p> <p>Emanuele Garone (ULB)</p>
17:15	<p>Scan automatique vers le BIM à l'aide du robot SPOT</p> <p><i>Automatische Scan to BIM met de SPOT robot</i></p> <p>Jean Gillain (UCL)</p>
17:35	<p>Tendances et perspectives futures de l'IA dans le secteur de la construction</p> <p><i>Toekomstige trends en vooruitzichten van AI in de bouwsector</i></p> <p>Tycho de Back (WTCB)</p>
18:05	<p>Visite de l'AI EXPERIENCE CENTRE</p> <p><i>Bezoek aan het AI EXPERIENCE CENTRE</i></p>
19:00	<p><i>Sandwiches et réseautage</i></p> <p><i>Broodjesmaaltijd en networking</i></p>