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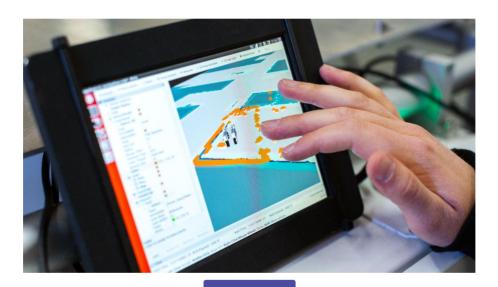


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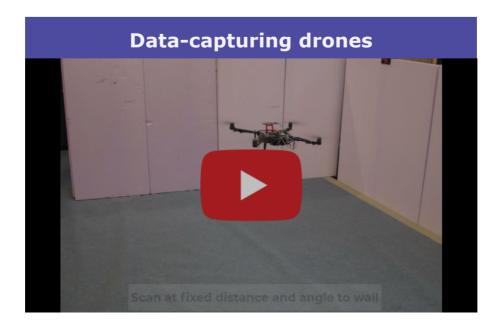


BIMprove Technology Demonstrators

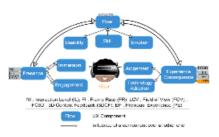
BIMprove project has released its exciting demonstrators covering stationary, ground- and **UAV-based data acquisition systems**; **augmented reality** (AR) visualisation of BIM model; application of **multi-user virtual reality** (VR); **computer vision** model for detection of safety structures in the construction site; **mapping of point clouds** to IFC elements; and **BIMprove** web front end.



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Our News: What we have been doing



Usability and UX in mobile and XR applications

The general usability and **UX design principles** can be utilised broadly for all kinds of devices and human-technology interactions. However, in the context of **BIMprove**, the mobile devices and solution usage on the move play an important role.

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Requirements analysis and engineering in the AECO sector

 Digital
 Twin
 development
 requires

 harmonious

 between
 two
 groups
 of
 stakeholders:

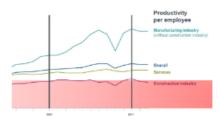
 1)
 AECO
 professionals
 and
 other
 non-software

 engineers.
 The
 former
 knows
 what

 problems
 they
 want
 to
 solve,
 the
 latter

 knows
 how to solve them.

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Digital twins in the AECO sector

All industrial sectors would like to achieve higher levels of efficiency, less idle time, and better performance. While most sectors are currently enjoying the benefits of automation and digitalization, the **AECO** sector continues to struggle with this transition.

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Computer Vision Model Creation

The automated detection of safety factors and risks is based on detecting from the visual material the conditions and situations which may contribute to formation of a risk. The digital visual material, photographs or video, collected from the work site may be analysed to detect the potential risks and related factors with a suitable deep learning based computer vision solution.

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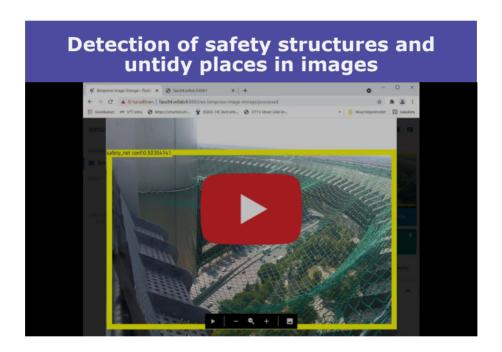


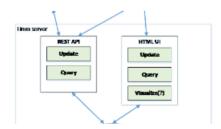
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Over the last **six months** of our exciting project, **BIMprove** consortium has **released a number of public deliverables** highlighting all **major outcomes** of our work! **Visit our website** to access all documents and **read all about our recent work**.



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BIMprove's Risk Database

BIMProve's data model defined for describing safety risks is highly connected. In other words, there exists multiple relationships between identified concepts, which sets specific requirements for a selected database technology to store this kind of data. During the recent years, the limitations of traditional databases, in particular the relational model, to cover the requirements



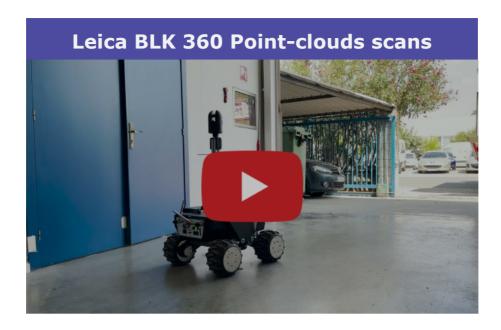
Risk ontology for the construction industry

A current trend in the construction industry is that the work is more often done by multidisciplinary and geographically dispersed teams. However, members of distributed teams may have difficulty establishing a shared context. The absence of shared context impedes the reaching of mutual understanding, which may

technologies.

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BIMprove in Public Events



BIMprove as part of the "Digital twins and integration of AI in construction industry" webinar!

On **July 15th 2021**, Dr Gabor Sziebig from SINTEF Manufacturing, represented BIMprove, at the "Digital twins and integration of AI in construction industry" webinar. The webinar was organized by the Artificial Intelligence Research, Development Innovation and **Network** Sustainable Cities and was funded by Royal Academy **Engineering** under the Frontiers Champion award.

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BIMprove at Sustainable Places 2021!

BIMprove joined forces with COGITO, BIM2TWIN and ASHVIN a nd organized a 120-minute hybrid workshop at the 9th annual edition of Sustainable Places (SP2021) on "Digital Twin for the Construction Phase". The hybrid workshop took place on the 30th of September 2021, discussing about the challenges of creating digital twin for the construction.

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BIMprove participated in the joint conference CIB W78 - LDAC 2021 that took place in Luxembourg at 11-15 October 2021. Our partner HRS set up a **BIMprove corner**, highlighting our project's recent development and goals and attracted interest on our activities. Our coordinator, SINTEF, participated in the "Linking EU H2020 projects on digitization in the construction and maintenance industrys" workshop, together with our H2020 sister projects ASHVIN, COGITO and BIM2TWIN and representatives from BIM4Ren, BIM-SPEED, BIMERR, BIM4EEB, SPHERE and CBIM, where the need of aligning effort when developing ontologies has been highlighted.

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Visit our new YouTube Channel!



We are thrilled to announce that we have launched our YouTube Channel! In this channel you will find videos from our pilot sites and demonstrations of our exciting and innovative technologies. Don't forget to subscribe to stay tuned for more content!

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 958450.

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