



# ASHVIN's Newsletter vol. 1

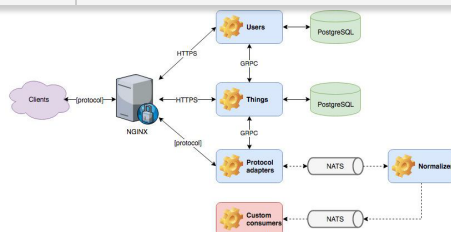
June 2021

## ASHVIN: What we do

**ASHVIN** aims at enabling the European construction industry to significantly improve its productivity, while reducing cost and ensuring absolutely safe work conditions, by providing a proposal for a European wide digital twin standard, an open source digital twin platform integrating IoT and image technologies, and a set of tools and demonstrated procedures to apply the platform and the standard proven to guarantee specified productivity, cost, and safety improvements.



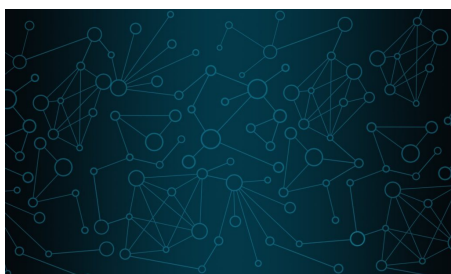
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## ASHVIN IoT Platform is up and running!

**ASHVIN** team has released the 1st version of its IoT platform, which will serve as the backbone of key project activities. **ASHVIN IoT platform (AIP)** is a modern, scalable and secure IoT platform which can be deployed in cloud or on premise. It is meant to be run on Linux machines, but can be also deployed on Mac and Windows machines natively. AIP accepts connections over various network protocols (i.e. HTTP, MQTT, WebSocket, CoAP) making a seamless bridge between devices and applications.

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## ASHVIN Impact Master Plan

It's not a secret that **part of the success of an innovation depends on the awareness about this innovation**. Through an **effective dissemination and communication strategy**, the project and its results can gain widespread attention. Therefore, a solid dissemination and communication strategy ensures the involvement of relevant stakeholders in the project and can offer opportunities for future development. The same applies to **exploitation**; there are numerous cases where excellent innovations have failed to successfully commercialise due to unclear or vague business models. **Thinking beforehand and knowing where you want to reach, allows you to create an exploitation plan which could lead the way to a successful commercialisation**.

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## Cross-industry standardization for the building industry

Aiming to improve productivity and product quality of European construction industry through the development of an IoT based digital twin platform, **ASHVIN** attaches great value to the further development of BIM-related technologies, applied during the project. Standardization is one of very important aspects to be addressed during the development of an open-source digital twin platform integrating IoT.

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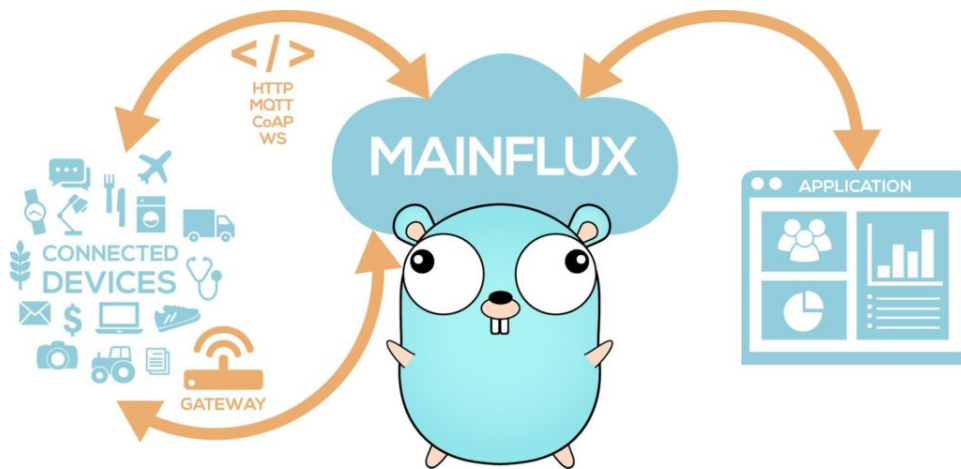


## ASHVIN's Standardization Plan is out!

The **Standardization Plan** outlines the **standardization roadmap for application of the Digital Twin concept in building and construction sector**, based on the investigation of the standardization landscape, the standardization gaps identified using an online survey, and on the standardization needs of **ASHVIN** consortium partners. Its final goal is to **pave the way for a possible future European standard addressing Digital Twin technology in building, bridge, and industrial construction**. This will contribute to the development of unified practices in the construction industry.

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## platform!



In the context of the **ASHVIN** project, we want to establish means to **collect data generated during the process of building design, production and maintenance**. To do this, **we need an all-encompassing IoT platform** able to digitally represent real world devices, enable message exchange between devices and applications, persist messages in a database and, finally, filter and transform data gathered from the devices, preferably, on the very spot of data production.

However, **the current situation in the world of IoT resembles the tower of Babel**. There are a **plethora of device types using different protocols** to send and receive messages. Even when devices use the same protocol to communicate, they **use different formats of messages**. Likewise, **applications speak different “languages” and form their “sentences” in different ways**. As a result, device to device, application to application, and device to application communication lacks generality and is difficult and costly to implement and maintain.

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**ASHVIN's Open Access Repository is now live!**

**ASHVIN** project and its consortium members envision to improve access to scientific information and to boost the benefits of public investment in research funded under **Horizon 2020**. To this end, **ASHVIN is committed to release and make its publicly-funded scientific information available online**, at no extra cost, to European researchers, innovative industries and the public, while ensuring that it is



**ASHVIN and Ethics**

As an EU funded research project **ASHVIN** will give ethical considerations the highest priority and ensure that all activities carried out under the project comply with ethical principles and relevant national, EU and international legislation, such as the **Charter of Fundamental Rights of the European Union** and the **European Convention on Human Rights**. Throughout the

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## ASHVIN and StandICT.eu2023 have signed a Memorandum of Understanding!



**ASHVIN** and **StandICT.eu2023** have signed an MoU for joining forces and aligning efforts for boosting **open standardisation for Digital Twins** at a European scale. This collaboration is an excellent chance to enable **ASHVIN** technical partners to participate in the identified and prioritized standardization activities, especially in the domains of **IoT**, **BIM** and **Digital Twin**. This and the **European Observatory for ICT Standardisation** will boost **ASHVIN**'s dissemination and exploitation activities through standards and standardisation.

[Find out more](#)

## ASHVIN joined forces with other LC-008-EEB funded projects!

### EU funded projects collaboration for digital transition in the construction sector announced!



All four **LC-008-EEB** funded projects **ASHVIN**, **BIMprove**, **COGITO** and **BIM2TWIN**, agreed on joining forces for **raising awareness around Digital Building Twins** and its impact in the construction industry. Their primary aim is to **share knowledge, experiences and research outcomes with other stakeholders and communities** around the EU and beyond, via online communication like **webinars, newsletters, social media channels and scientific or technical articles**.

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The **ASHVIN** Advisory Board (AB) is a partner-nominated group of external advisors who assist in reviewing the **project's development and progress as a whole**, and wherever possible, **contribute to ASHVIN's success, integration, and continuation** on an international scale.

[Find out more](#)

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement **No 958161**.

