BIMprove

BUILD
SMARTER.
CLEANER.
CHEAPER.

Leading the European construction industry to a low-carbon, climate-resilient digital transformation.

BIMprove harnesses the power of cutting-edge Digital Twin Technology to lead construction sites into the Industry 4.0 revolution.

🌐 www.bimprove-h2020.eu

✉ info@bimprove-h2020.eu

🐦 @BIMproveEU

in BIMprove H2020 Project

Our Benefits

Fast-track Operations

Increase scheduling forecast capacity by 20%, automating progress & quality reporting.

• Upgrade BIM models with as-built real-time data

• Productivity step-up with Big Tech: AR/VR, Artificial Intelligence, Drones & Wearables

• Predictive Analysis with early detection of deviations

A Green and Safe Construction

Making the industry less exposed to labour accidents and committed to sustainability.

• Continuous Safety Monitoring

• Supply Chain Agility

• Optimized Stockpiling

• Waste Avoidance

BIMprove advocates the European Green Deal

Dowscale Costs

Reduction of costs by 20% in construction projects.

• Cost Planning and Control

• Budget Reliability

• Faster Delivery Date

• Lower Operating Costs

Open and Standard

We follow an Open Innovation approach, building solutions with and for the industry

• x3 Experimentation Use Cases

• Contribution to Standardisation Bodies

• Open Access Repository

• GitHub

Our Team

SINTEF

zhaw

hrs

VIAS

Robotnik

VTT

Fraunhofer IAO

DIN

Catenda

AUSTRALO

AF GRUPPEN

Universität Stuttgart

Our Approach

The project develops a d**ynamic digital system for construction sites to fast-track productivity, cut costs and improve working conditions.** The solution extends the 3D-based Building Information Modelling (BIM) systems with **Digital Twin Technology**, introducing a much more dynamic and multi-functional system, reliant on real-time data.

BIMprove Inputs

Survey Data

BIM

Historical Construction Data
(time + cost)

Context Related Information

User Defined Source

BIMprove Processes

Digital Twin

Deviation Detection

Analytics

BIMprove Outputs

BIM@Truck

BIM@Wearable

BIM@Anywhere

BIM@Manager

BIM@Client

BIM@Site

This new approach will streamline the digital transformation of the **European construction industry, blending Artificial Intelligence with AR/VR, Unmanned Aerial Vehicles (UAVs) and wearable technology**. Construction sites will have real-time information available, allowing to identify early-stage errors and being able to predict them, lowering costs and reducing risks. In addition, it will be possible to **control resources, minimizing waste and to ensure a high level of safety.**

BIM prove