



Welcome to COGITO project!

[See the website](#)



JOIN US:

COGITO Final Webinar on 11th April: Digital Twin Revolution in the Construction Sector

Are you the Construction Project Manager, H&S Manager, or QC Manager? Or maybe you are just interested in Digital Twin and current, practical solutions in that area? Join our WEBINAR which is the final one out of the series of five webinars titled 'Practical Tools for the Construction Sector in Digital Twin', organised by the COGITO Team and the BUILD UP portal.

BUILD UP is hosting a webinar organised by COGITO project on Digital Twin Revolution in the Construction Sector. COGITO team members will present results of Digital Twin Applications developed within the project, demonstrated on actual infrastructure projects.

[Read more and register HERE](#)

Follow US on social media channels!




Discover the groundbreaking results of the COGITO project!

With 58 comprehensive reports now available on our website, delve into the innovative tools, methodologies, and findings developed over the projects duration. From digital construction advancements to resilience in the construction sector, these reports offer invaluable insights for stakeholders and industry professionals. Explore the forefront of construction practices and join us in shaping the future of the industry. Explore now on our website!


[Read more](#)

Discover COGITO Tools!

Get to know Work Order Execution Assistance tool

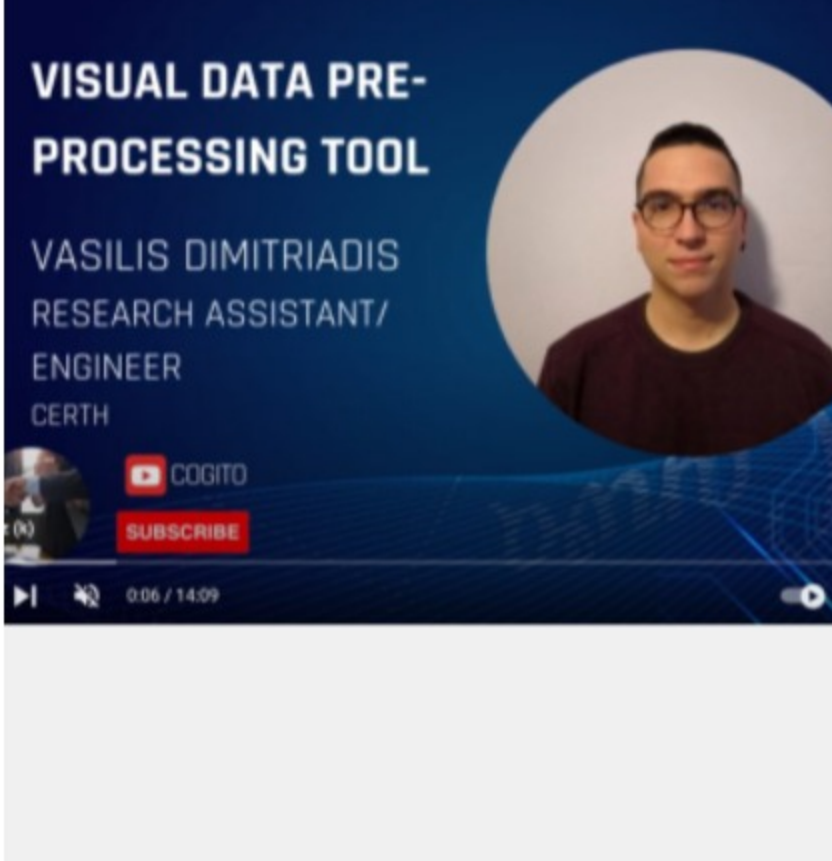
The Work Order Execution Assistance tool (WOE) is an app for smart glasses supporting work order execution and reporting. The worker is guided via smart glasses through the work order, which enables immediate reporting of the results of the work. WOE can work online or offline and provides hands-free operation support. The app also enables Remote Assistance through video calls with remote annotations.

[Watch WOE training](#)



VISUAL DATA PRE-PROCESSING TOOL

VASILIS DIMITRIADIS
RESEARCH ASSISTANT/
ENGINEER
CERTH



Why Visual Data Pre-processing Tool?

Visual Data Pre-Processing tool provides functionalities that detect and recognize equipment in the construction site based on advanced deep learning algorithms. It provides a User Interface (UI) in order for the surveyor to be able to upload the necessary files and information.

[Watch demo here](#)

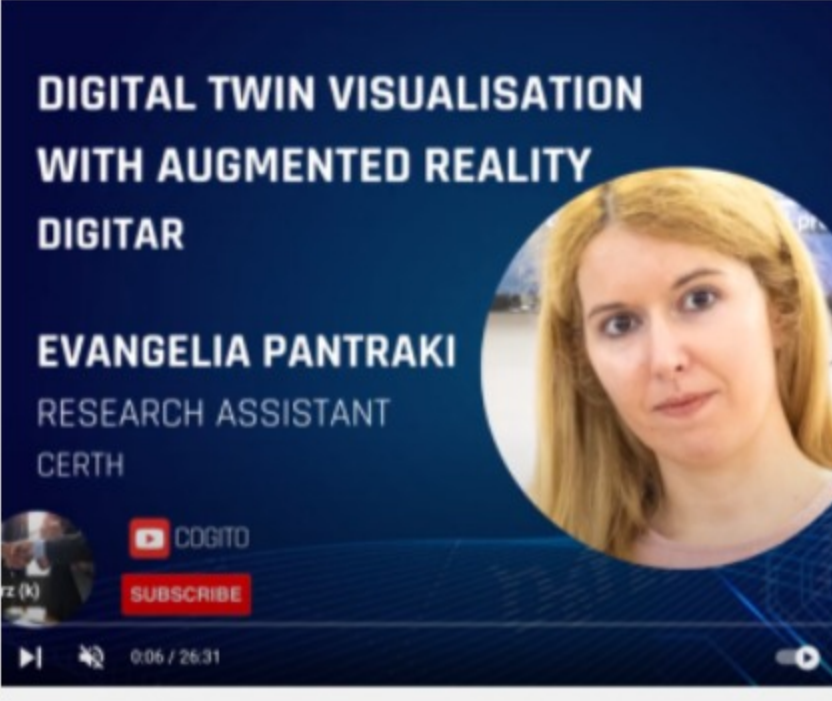
What is COGITO DigiTAR?

DigiTAR is a software package for commercial AR head-mounted displays (HMDs) to help visualise and interact in situ with the output of the QC tools (location, type and severity of geometric and visual defects) and Safety tools (location and type of safety hazards and expected mitigation measures).

[Watch DigiTAR training](#)

DIGITAL TWIN VISUALISATION WITH AUGMENTED REALITY DIGITAR

EVANGELIA PANTRAKI
RESEARCH ASSISTANT
CERTH

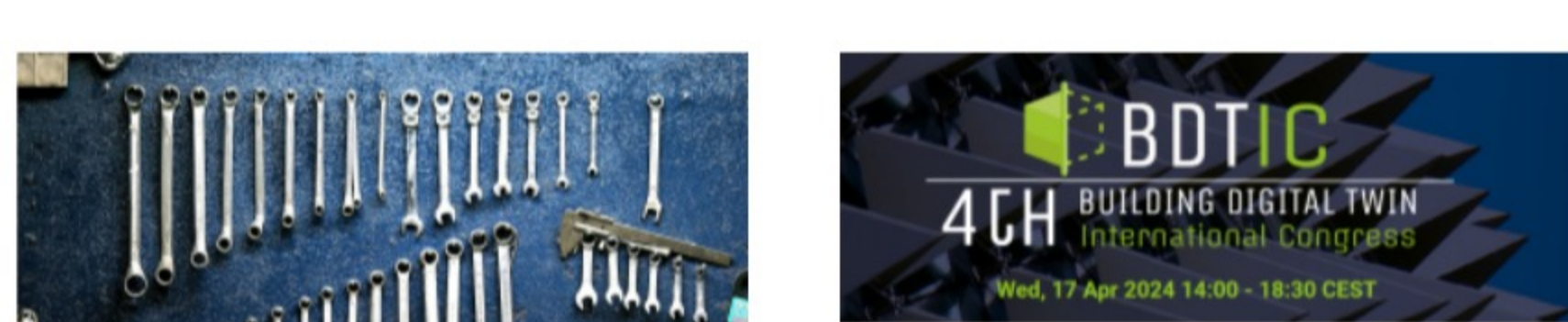


Watch COGITO training pills and webinars!



Dive into the world of construction innovation with the COGITO project's YouTube channel! Discover a treasure trove of videos showcasing our cutting-edge tools, methodologies, and project highlights. From insightful webinars to informative tutorials, our channel is your gateway to the future of construction. Subscribe now and stay up-to-date with the latest advancements in the industry!

[Choose the video](#)



Explore the Key Tools of the COGITO project!

SAVE THE DATE!

Dive into a world of innovation and efficiency with our cutting-edge tools designed to revolutionize the construction sector. From advanced digital twin platforms to groundbreaking data visualization tools, we're empowering construction professionals to work smarter, not harder. Visit our website now to discover how COGITO is shaping the future of construction!

COGITO will be attending The 4th Building Digital Twin International Congress (BDTIC) on April 17 in Barcelona (Spain). Giorgios Giannakis, the Project Coordinator of COGITO, will deliver a speech titled 'Supporting in the Construction of Infrastructure Projects via DT Applications'.

[Know more about the event!](#)

[Discover COGITO Key Tools](#)


[BDTA Congress](#)


Recent Publications

Towards a UML-based notation for OWL ontologies

Ontology conceptualization is a crucial task within the ontology development process. During this activity, developers should generate a conceptual model of the ontology based on the requirements that the ontology should meet.

[Read more](#)





Semi-Automated Visual Quality Control Inspection During Construction or Renovation...

The construction industry stands to greatly benefit from the technological advancements in deep learning and computer vision, which can automate time-consuming tasks such as quality control. In this paper, we introduce a framework that incorporates two advanced tools - the Visual Quality Control (VQC) tool and the Digital Twin Visualization with Augmented Reality (DigiTAR) tool

[Read the report here](#)

Contact us

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