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01 Convergence of various technologies will enable the Industrial Metaverse.

similar headsets. Such a scenario will provide the participants with a broader understanding of the production process, minimize health risks and enable faster commissioning or re-engineering of a production line.

An evolving Industrial Metaverse

Many technologies of the Industrial Metaverse are already in use: On-site assistance from remote experts via video links – including XR applications, such as ABB's Collaborative Operations for Electrical Systems (CLOSER) or the ABB Ability™ AR Guided Support for measurement devices – are becoming industry standards. Furthermore, co-simulations with digital twins of plants and factories are nowadays feasible, by using, for example, ABB Ability System 800xA Simulator or virtual commissioning for drives.

The Industrial Metaverse will continuously benefit from advances in other metaverses, such as the Consumer Metaverse and Commercial Metaverse. One example of such a benefit is virtual collaboration. Further, AI delivers human-understandable insights that can help optimize industrial processes, leading to improved efficiency and productivity. Also foreseen is greater use of sensor technology and the IoT to gather data; more real-time analysis at the edge and in the cloud; and adoption of blockchain to secure and manage data and transactions. ABB looks forward to exploring these exciting opportunities with its partners and customers.

ABB Review will delve deeper into the Industrial Metaverse in a future edition. •

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