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18. abstract

Industrial production and production-related services in Germany account for more than half of the country's total economic output. Germany is at the forefront of many digital innovations in production technology. However, international competition—particularly from the United States and Southeast Asia (Japan, South Korea, China)—is fierce. The GoGlobal I project was the first step toward securing this work internationally while simultaneously promoting a broad framework for development nationwide, so that SMEs can maintain their current global leadership position even in the era of the digitally driven value-added economy.

The GoGlobal II project builds on the results of GoGlobal I to coordinate the Industry 4.0 concepts originating in Germany at the national level, with the aim of using them to build global, interoperable, and trustworthy ecosystems.
GoGlobal II employs a topic- and project-oriented approach to network relevant stakeholders in Germany, Europe, and internationally. This networking takes place in the lead-up to the operational work of standardization and thus enables the gap between concepts at the strategic level and operational standardization work to be bridged. By combining several methodological approaches within a single project, the identified sub-topics can be addressed in a needs-based and optimally coordinated manner.
Based on the identified challenges, two central objectives were identified and addressed within the framework of GoGlobal II: Consolidation of the national standardization strategy to anchor Industry 4.0 concepts in international standardization, and the international positioning of end-to-end Industry 4.0 concepts through norms and standards.

19. keywords

Industry 4.0, digital ecosystems, global harmonisation through standardisation, standardisation as a driving force, the convergence of IT (information technology) and OT (operational technology), industrial data spaces, semantic interoperability

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