

A photograph of a modern industrial factory floor. In the foreground, a large, white and grey robotic arm is positioned over a blue workbench. The background shows other robotic arms and factory equipment. A semi-transparent blue banner is overlaid on the bottom half of the image, containing text. A white network diagram with yellow nodes and connecting lines is overlaid on the entire image.

Data Backbone

The data infrastructure for continuous production without system interruptions

Access to digital process data

Do you have lots of data formats that are incompatible because they originate from different domains? Are system discontinuities keeping you from automating your production platforms? There is a solution. In the Data Backbone project, fortiss is developing an infrastructure that combines data models and provides access to digital process data. The vision is to be able to automatically create the production process and the robot programming from one production order.

Seamless data exchange

The prerequisite for this vision is a process description with analyzable content that is digitally available regardless of the programming language. Data Backbone provides access to all of the data relevant to the entire value chain and ensures the uninterrupted exchange of data between the systems, thus making it possible to have a continuous, automated production environment that is efficient and transparent.

fortiss is the research institute of the Free State of Bavaria for software-intensive systems and services with headquarters in Munich. The institute currently has around 170 employees, who collaborate on research, development and transfer projects with universities and technology companies in Bavaria, Germany and Europe.

For more information, please visit

www.fortiss.org/forschung/projekte/data-backbone

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