



## HIGHER PRODUCTIVITY THROUGH IMPROVED USABILITY

How an industrial automation manufacturer uses 3DVisualizr to run their production based on better

In this case study, we will cover the story of a manufacturer of industrial automation, interconnection, and interface solutions. With the help of Elisa IndustrIQ, the company implemented 3D technology for the manufacturing process and created an easy-to-use entry point to access relevant shop floor data to 200+ users.

### OVERVIEW

The company considers Digitalization as the supercharger to increase their production efficiency. In this case, digitalization rests on an advanced microservice architecture. An environment was created that can be flexibly aligned with current business needs while making sure that changes on service level will not impact the rest of the environment.

## CHALLENGES AND GOALS

While the architecture allows the company to introduce services that pinpointedly address specific needs, the challenge of combining and presenting various UIs in an organized way arises.

To help to overcome this challenge, 3DVisualizr was introduced as an additional microservice to help merge data, information, and dashboards from the other services into one easy-to-use and intuitive user interface. It especially addresses the managers' needs: easy to find and interpret without a drop in relevancy and complexity. Manufacturer uses Elisa IndustrIQ 3D visualization to map various data, information, and contexts such as machines, production lines, or shop floor areas. This makes it very easy for them to organize information and help the users find the relevant information.

3D process visualization helped the team to optimize the way information is consumed. One of the aims of the company is to make better decisions in the future that lead to a significant increase in production efficiency.

## SOLUTION

The company embedded 3DVisualizr engine into an internally developed JavaScript application to show shop floor information relevant to various stakeholders with varying backgrounds. The application built around 3DVisualizr allows users to select the information layer they want to see. This triggers the respective data stream to activate data labels that show information on asset or group level. Thus, data is well organized in its context.

Depending on the selected perspective, 3DVisualizr shows production KPIs, consumption information, project status, and more inflexible data labels. The engine can aggregate data to a high-level view while maintaining a drill-down feature to more detailed information or jump to the respective management system via a link.

## RESULTS AND NEXT STEPS

As a result of cooperation, the manufacturer created an easy-to-use entry point to access relevant shop floor data to 200+ users. A wide range of profiles is using it: while users close to the shop floor appreciate the technical information, e.g., sensor data, KPIs, maintenance information, the marketing department uses the 3D visualization to introduce customers and visitors to the digital

journey at the company.

The application was developed and introduced in Germany and is currently brought to all production facilities worldwide.

**Discover how your business could benefit from implementing 3D visualisation. Give 3DVisualizr a try in our interactive demo environment**

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