



German Edge Cloud: Empowering assembly workers with an intuitive generative AI assistant



Why Google Cloud

Searching through assembly instructions is often a time-consuming task that requires significant effort from operators. To tackle this challenge, [German Edge Cloud](#) and the system provider [Rittal](#) developed a use case for an intelligent worker assistant in the assembly of customised enclosures. In addition to making assembly easier, the focus lies on improving quality and reducing the number of warranty claims. GEC and Rittal decided to collaborate with Google Cloud to take advantage of its performance, scalability and security capabilities.

Solution

GEC built an intuitive generative AI assistant for assembly workers using [Gemini Pro 1.5](#) and [Cloud Vision API](#). For example, the assistant for intelligent worker/helper support can facilitate the assembly of customised control cabinets. Generative AI provides context-sensitive support and instructions to guide workers in their tasks. It can also suggest or support test sequences to ensure that the assembly has been carried out correctly and that the control cabinet is delivered defect-free more quickly.

About German Edge Cloud

GEC is a provider of software, services and technologies that support industrial companies, such as Rittal, in their transformation to a digitalised, resilient and energy-efficient factory.

Industry: Manufacturing

Location: Germany

Impact

- Up to **50% time savings** by eliminating manual documentation searches
- Increased efficiency, **error reduction and quality improvement**
- Going paperless by **eliminating printed assembly instruction and drawings**

“Google Cloud is predestined to **turn our visions in the field of artificial intelligence into powerful solutions**. This enables us to tap into new markets.”

Plamen Kiradjiev, Head of Solution Architects, German Edge Cloud GmbH & Co. KG