

Digital visualization and communication at the production level

Relevance in the age of Industry 4.0

Every day you face new challenges. You coordinate, optimize, monitor, manage, and are responsible not only for achieving production targets while adhering to quality standards and ensuring smooth processes, but also for leading your employees. In this environment, time and motivation often fall short in the daily grind.

Imagine your employees receiving targeted, real-time information from you, the machines, production progress, key performance indicators, evaluations, or on general processes, safety regulations, and organizational matters – all contactless and without time-consuming meetings. Of course, personal contact shouldn't be completely eliminated, but it should be kept to a minimum so you can focus on what's truly important. Your employees feel informed and motivated through timely information sharing and transparency. Nothing is left to chance, priorities, or limited time. Because one thing is certain: even in volatile or turbulent times, a smooth and ideally automated flow of information must be guaranteed to avoid uncertainty and misinformation, to react quickly to disruptions, and to provide digital work instructions.

The goal of the Industry 4.0 concept is to make all information from the value chain available and up-to-date in real time, anytime and anywhere. This creates transparency in manufacturing, thereby achieving optimizations and integrating information into ever-expanding areas of the value chain. **Visualization provides a key component of your Industry 4.0 strategies.** All information is made accessible and communicated promptly. A constantly updated information flow is guaranteed and supported in real time at the shop floor level.

Using the modern **PROvis ANDON-Board Monitoring** from BDE Engineering GmbH, operational and machine data, including individual machine status, cycle time monitoring, KPIs, order information, and downtime, can be displayed easily and clearly on large monitors in production. This is done in tabular form, via traffic light indicators, speedometers, or news tickers. Web-enabled content can be integrated in a variety of formats, such as .xml, .pdf, images, websites, streamed PowerPoint presentations/webcams, or videos.

PROvis allows you to act quickly and independently of location and time. Visualize what has been planned, recorded, and reconciled. Compare actual and target values and issue important instructions, deadlines, or regulations. Display live data and numerous pieces of information on a time-controlled basis or enable interactive operation via touch displays. There are no limits to the design; you can generate your own customizations and adapt them individually to your company and information delivery requirements. PROvis is also ideally suited as an employee information system.

Transparent communication in the age of Industry 4.0 is crucial for future viability and competitiveness. Visualization and digital networking at the point of value creation enable the transfer of information, thus allowing for real-time control and management of production.

