In a globalized and interconnected industry, interruptions in production and supply chains represent the leading business risk and can result in massive monetary losses. Amplified by a significant increase in complexity in production due to Industry 4.0, resilience management becomes an indispensable success factor for industrial production.

The ability of a company to permanently adapt to internal disturbances (e.g., quality variations of materials) and external changes (e.g., heat periods, corona crisis) represents the "search for resilience".

In context of the digital Hannover Messe in April 2021, the SPAICER team will present first project results of an AI-based wear prediction for resilience optimization of production machines in the context of fineblanking and glass production.

By means of Smart Resilience Services, e.g., sensory data streams of production machines as well as quality data of tools and raw materials are analyzed. Based on this, recommendations for action can be provided for parameter optimization, planning of maintenance intervals or precautionary abortion of a production run. This enables a reduction of production errors due to machine wear as well as cost savings by avoiding production downtimes.

Contact:
DFKI GmbH
Research Department
Smart Service Engineering
Dr.-Ing. Sabine Janzen
+49 681 85775 5269
www.spaicer.de
Stuhlsatzenhausweg 3
D-66123 Saarbrücken
pm-spaicer@dfki.de