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Client:

Fraunhofer-Gesellschaft

Project Partners:

Fraunhofer IWU, IAPT, IAO, LBF, IEM,
IFF, IGCV, IGP, IML, IPA, IPK, IPT, IWM,
IZFP, UMSICHT

RESILIENT VALUE-CREATION SYSTEMS (RESYST)

Background

The COVID-19 pandemic serves as a catalyst which encourages many manufacturing companies to rethink their previously-used, risk-management strategies. In times of crisis, companies need a high degree of adaptability to new situations. In this way one avoids uncontrollable production downtimes. In particular the business models are often unable to cope with the requirements presented during phases of crisis.

Project Goal

The project partners therefore began the RESYST (resilient value chains) research project with the following question: How can production systems become more resilient? The research team from Leipzig is working on a sub-project focused on „resilience management, strategies and infrastructures“. The goal is to develop a framework that can be used as an early warning system for crises, which should allow entrepreneurs

to make adjustments for an improved risk management and ultimately support more resilient business models

Methods

Data-based solutions and futuristic topics such as artificial intelligence (AI) and human-machine collaborations allow businesses to become more resilient and enable production processes and structures. Within this framework, researchers therefore use ideas concerning technology and empirical thinking for specific types of crises and value creation steps. The framework will then be refined through expert interviews in the Fraunhofer Group for Production. The results will then be incorporated into a management summary.

Project Home Page:

<https://s.fhg.de/resyst>

Project Duration:

1.7.2020–31.12.2020