Managing Crises with Artificial Intelligence
Decision and deployment support for control and situation centers

In June 2021 the "SPELL" research project funded by the German Federal Ministry for Economic Affairs and Energy has been launched. With exciting project partners and future-oriented goals, a step is to be taken toward the digital transformation of the economy.

"SPELL" – this is the abbreviation for " Semantic platform for intelligent decision-making and deployment support in control and situation centers". The aim of this project is to use artificial intelligence to initiate emergency response, emergency aid and supply measures for the population more quickly and in line with the situation in case of crises (e.g. major incidents, pandemics, natural disasters or widespread power failures).

Precondition is a data-based overview of all relevant information as an overall picture of the situation and the networking of all involved parties. Artificial intelligence can create this basis and significantly support decision-making and implementation in order to minimize incorrect decisions.

Over the next three years, 12 project partners will develop future-oriented solutions within the scope of the SPELL project: the German Research Center for Artificial Intelligence as consortium leader, Advancis Software & Services GmbH, apheris AI GmbH, BASF SE, Corevas GmbH & Co, DRK-Landesverband Rheinland-Pfalz e.V., Empolis Information Management GmbH, Fraunhofer-Gesellschaft e.V. with its institutes IESE and Fokus, ISE Informatikgesellschaft für Software-Entwicklung mbH, LiveReader GmbH, Technische Universität Darmstadt as well as VfS (Verband für Sicherheitstechnik) and further associated partner organizations.

Advancis' focus within the project is in particular on the integration, harmonization and utilization of sensor data from security, building management, communication and information technology in near real time. With the help of artificial intelligence as well as data technologies, a significant information and time gain in incident management is to be achieved in crisis situations. Advancis will primarily test this in concrete applications of networked BOS and industrial control centers with the aim of ensuring resource-efficient incident management through artificial intelligence.

Advancis Software & Services GmbH:

2,000 realized installations in different sector applications worldwide as well as numerous integration partners make Advancis one of the international market leaders in vendor-neutral PSIM. Founded in 1994 as a regional software manufacturer, the company pioneered with regard to cross-domain security management. Its vendor-neutrality is a decisive advantage of the open PSIM platform WinGuard from Advancis. The total security, building, communication and IT infrastructure can be integrated into WinGuard to enable unified control. This simplifies event processing for the control center personnel. Further information at: www.advancis.net