



SUPPLY CHAIN MANAGEMENT

RESISTANT – more resilient military logistics on the basis of an end-to-end digitized, dislocated and autonomous supply chain

The aim of this project is to increase the resilience of the military supply chain by developing a novel, internationally compatible logistics concept in conjunction with innovative technologies.

The RESISTANT project is developing an innovative logistics concept to increase the resilience of the military supply chain. It enables the division of large warehouses and main hubs into smaller, independently manageable units known as "microhubs" or "micro warehouses". These micro warehouses are more difficult for enemy forces to detect and the damage potential of an attack is reduced.

The RESISTANT initiative addresses the urgent threat of enemy UAV operations and artillery attacks by increasing the resilience and effectiveness of the military supply chain. In particular, the project aims to reduce the vulnerability of logistics hubs and make supply resilient, transparent and effective despite the most difficult conditions.

The initiative implements various measures, including the development of autonomous racks and transport containers that can independently form rack clusters and synchronize with the central IT system when a data connection is available. This enables bidirectional management of the micro-warehouses. It is noteworthy that the project draws attention to the threat to logistics as a critical infrastructure and confirms the potential of dislocated military logistics. With an internationally compatible network of easily deployable micro-hubs, the threat to critical logistics infrastructure can be countered in addition to active defense measures.

Furthermore, RESISTANT is conducting a comprehensive requirements analysis to identify the resilience and security needs of national and international supply chains. The results include algorithms to identify critical points, scenario simulations and the integration of cyber-physical systems into the AIT Cyber Range.



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