Teaming in Air Operations




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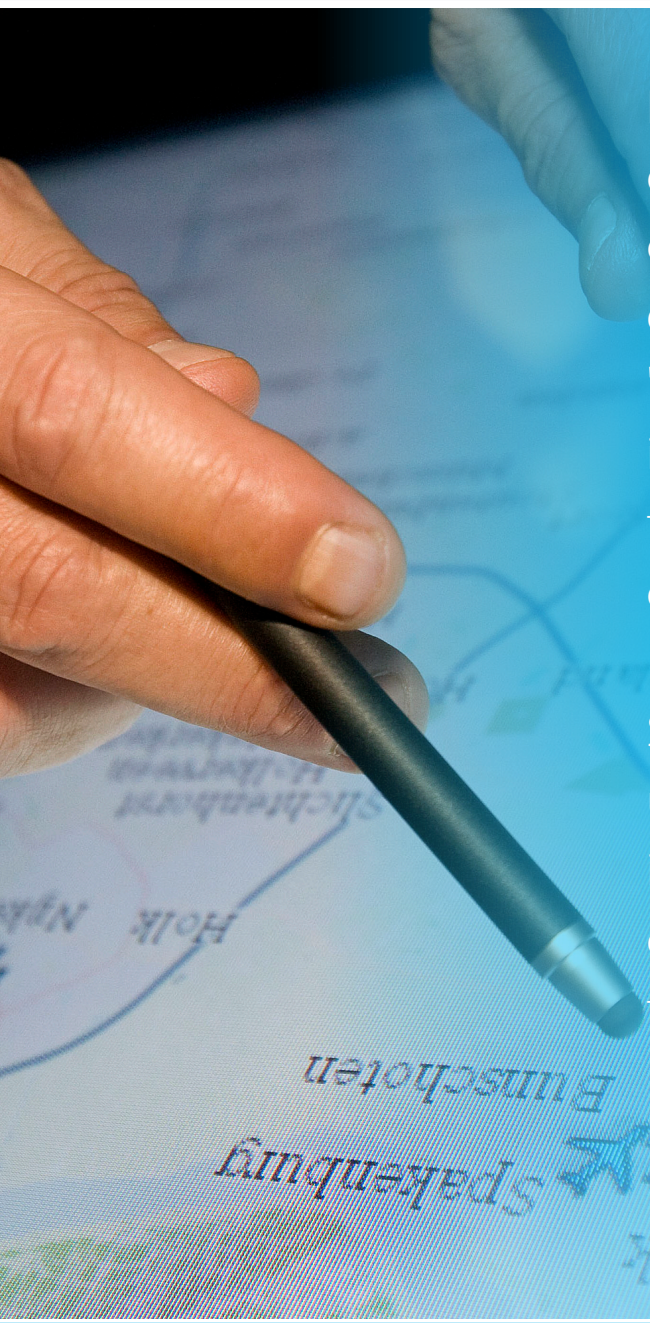

Effective teamwork is a must for military operations nowadays. Distributed sensors combined with intensive digital information exchange can provide an up-to-date "picture" of the battlefield. This can give the individual operator, and the team as a whole, the information necessary to successfully complete complex and dynamic missions.

Smart and user-friendly devices must be used to interact with shared data. Also, only information relevant to the mission and team composition must be shared. After all, new tools for teamwork should help, not hinder.

"A NEW DIMENSION TO COLLABORATION"

Meeting new challenges

Rapidly changing mission environments require teams to constantly adapt the way they operate and collaborate. **Easily upgradeable human-machine systems on top of a versatile and solid communication system** are needed to let the team excel.

Joint and combined operations are the norm nowadays. Also, unmanned systems are teaming up with manned aircraft and helicopters. This requires operators with a variety of backgrounds, training and experience to work together. **User-friendly human-machine systems and standardized communication means** can break the traditional barriers between team members.

In the near future, up-to-date information can be made available to every operator on the battlefield. To avoid cognitive and bandwidth overload, **intelligent and timely information exchange** is needed, carefully tuned to the needs of the different operators.

Knowledge development project

To support the Dutch Ministry of Defence, the National Aerospace Laboratory NLR is performing a two-year research programme (L1224) to build a knowledge base related to teaming in air operations. The focus is on factors affecting team performance, information requirements for team operations and the efficiency of human-machine systems supporting teamwork. Using two human-in-the-loop studies, practical data will be collected regarding teaming of manned and unmanned systems as well as teaming on-board a multi-crew platform.

Please contact us for more information

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