

The Mobile Soldier

I am deployed in different areas of operations, but mostly in urban environments. We rarely have stationary infrastructure in order to adapt to agile, asymmetric opponents and complex battlefield conditions. Moreover, we have a higher degree of self-organization and autonomy than in the past.

I am connected through Internet of Things devices not only to my colleagues here but also to my home base as well as to cyber and data experts. To achieve this interconnectivity and power, inter alia, the digital sensors incorporated in our uniforms, we rely on mobile energy supply and storage. Moreover, we are equipped with new, flexible (autonomous) vehicles and weapons to fight particularly in urban surroundings. We are in addition equipped with on-site additive manufacturing and 3D printing to further increase our mobility on the battlefield.

In today's mobile environment, most of my comrades work flexibly from home as, for example, cyber and data experts. They control autonomous weapon and data analysis systems, which support us in different operation phases. Human and digital sensors as well as weapon systems are generally all interconnected and can be accessed remotely from every location around the world. Each decision is supported by Artificial Intelligence to achieve the fastest and best solution.

- Different actors (standard armies, organized crime, civilians) involved
- Increasing difficulty to identify who and where the enemy is
- Majority of engagement in civilian/urban surroundings
- More complex battlefield conditions
- High degree of self-organization/autonomy
- Autonomous vehicles
- 3D printing / on-site additive manufacturing
- Artificial Intelligence
- New materials will influence mobility (including active protection systems).
- High demand for interoperability
- New training