



Integrating Robotic Autonomous Systems into the Future Land Force

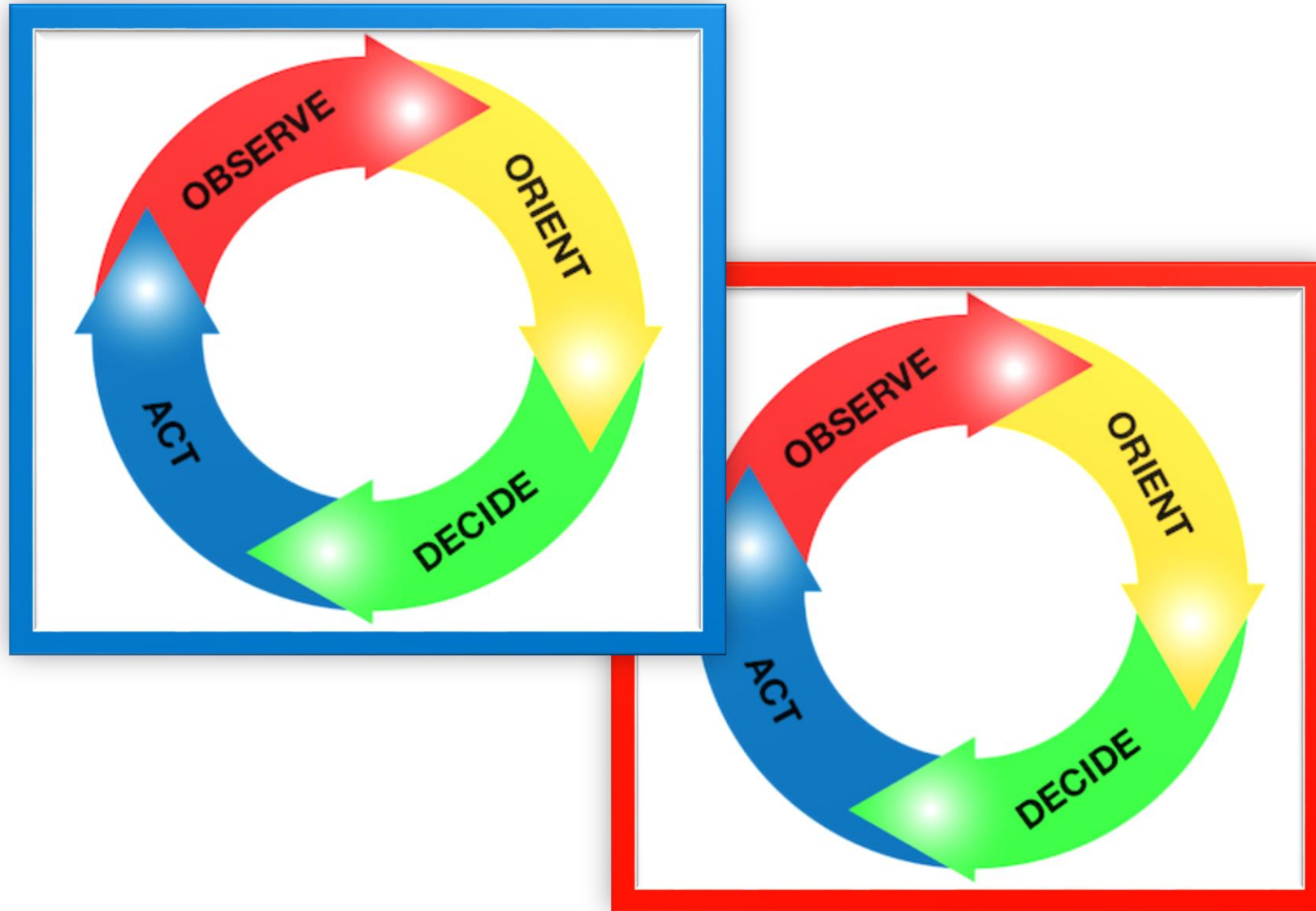
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Professor of Space and Military Technologies, University of Tartu

- Innovation: application of better solutions that meet new requirements, **unarticulated** needs, or existing market needs
- Disruptive innovation: innovation that creates a new market and value network and eventually disrupts an existing market and value network, displacing established market-leading firms, products, and alliances

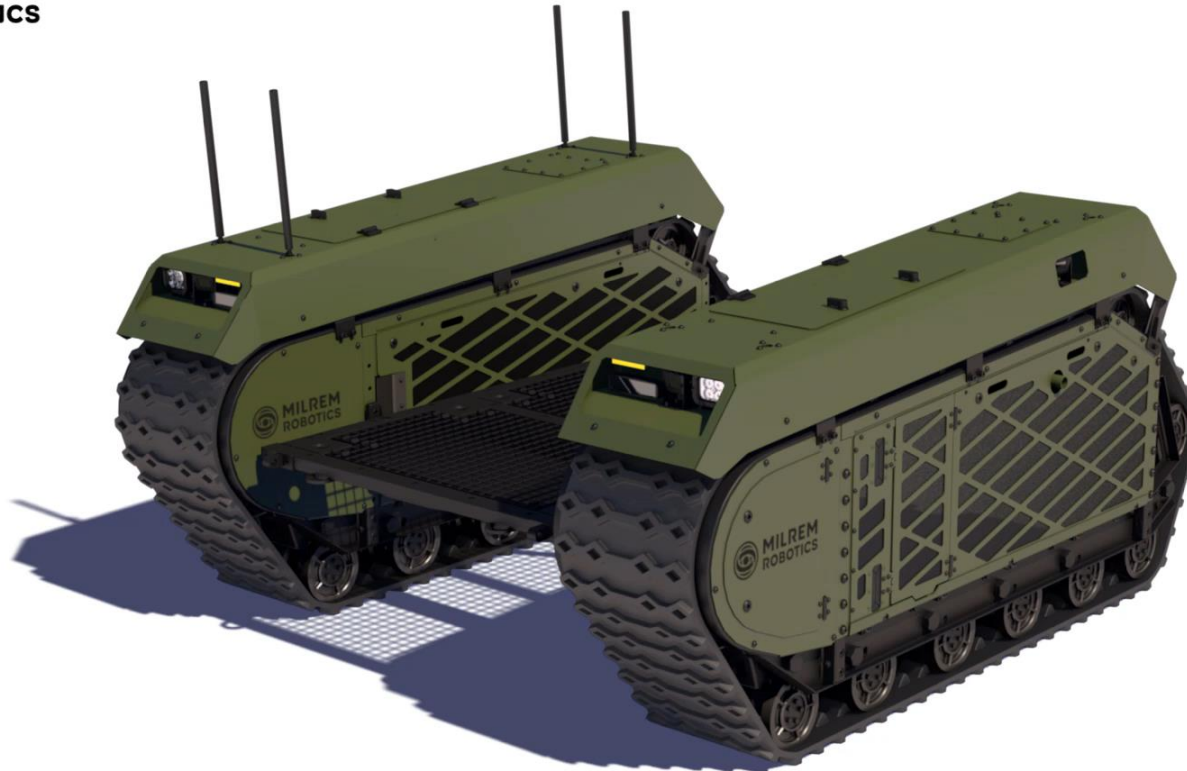
OODA loop for maintaining competitiveness



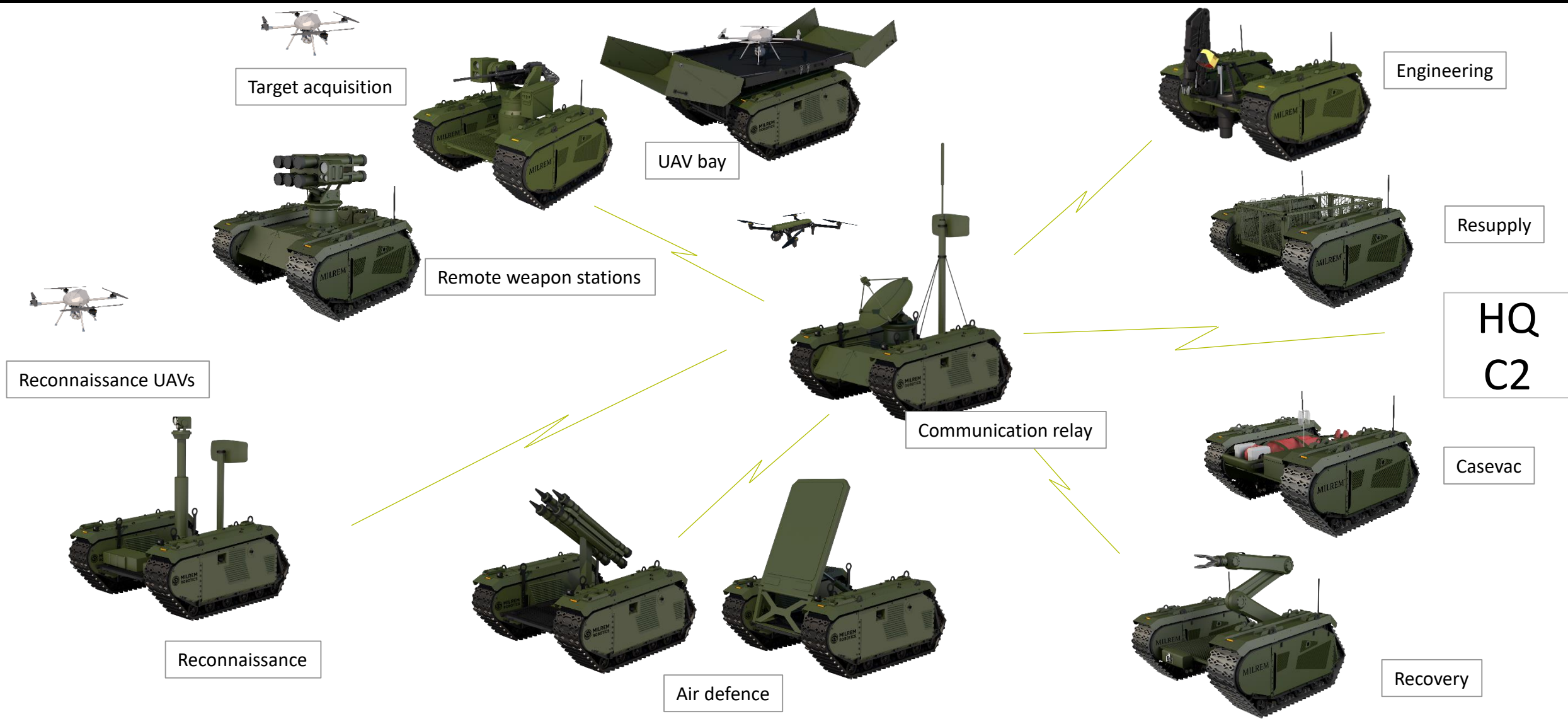


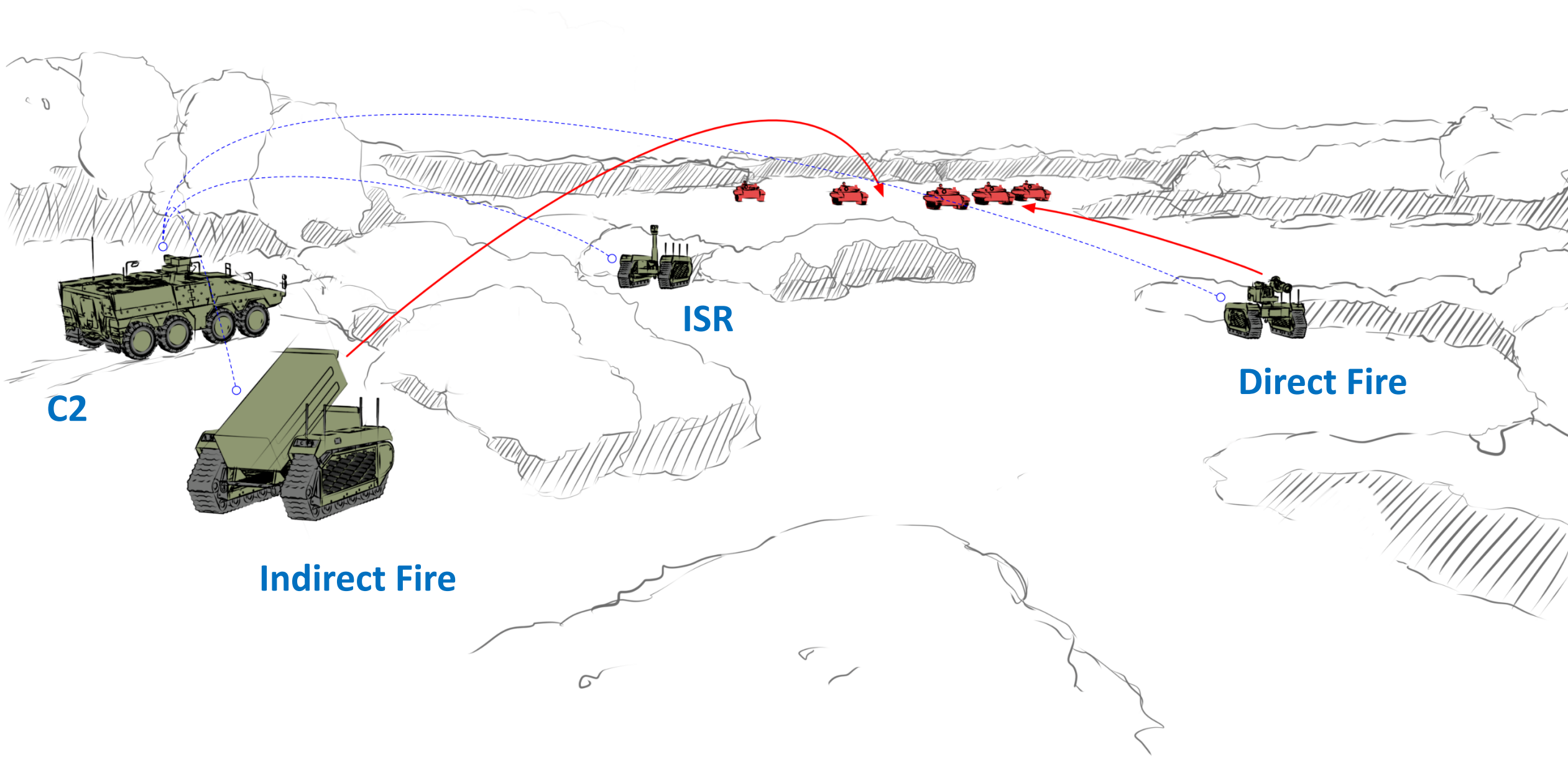
1. Integrate Autonomy into NATO ETEE at all levels for civil and military personnel for efficient and timely adoption of Autonomous Capabilities for future NATO Planning and Operations;
2. Reinforce early Industry involvement as a key enabler for Autonomy-driven transformation;
3. Augment public awareness of the benefits and risks of Systems with Autonomous Functions;
4. Allied nations to ensure an efficient and trustable Supply Chain - in which key NATO and Allied nations' Suppliers remain dependable regardless of political and societal circumstances;
5. Qualification, Verification, Validation, and Certification of Artificial Intelligence based Systems is of paramount importance to assure full confidence in the performance of Systems with Autonomous Functions;
6. Cyber Resilience and Security of Data Acquisition, Storage, Management and Communications is paramount across all domains;
7. Recognize Autonomy as a Capability Area in its own right and establish a NATO Autonomy Governance Structure - to which Industry should refer.

Modular Solution

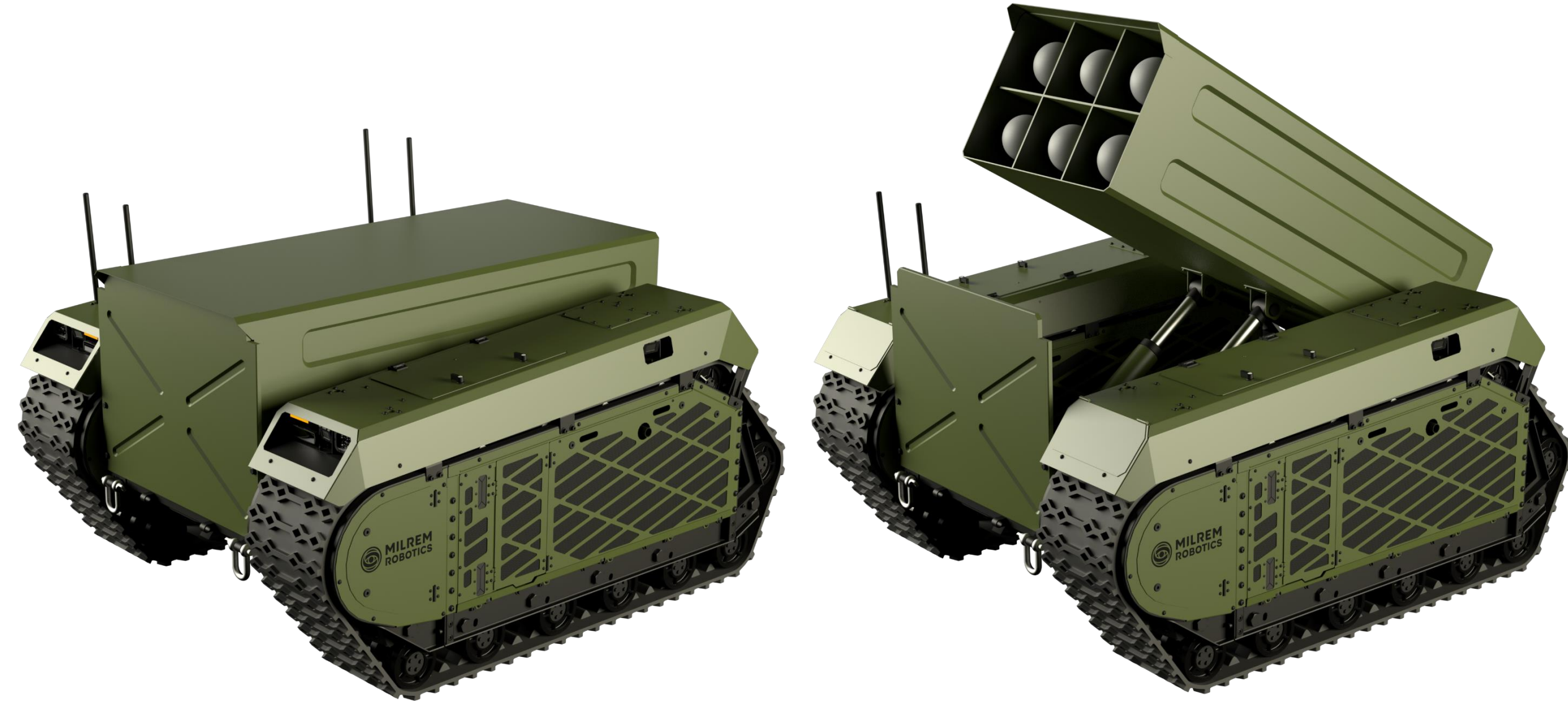


Multipurpose



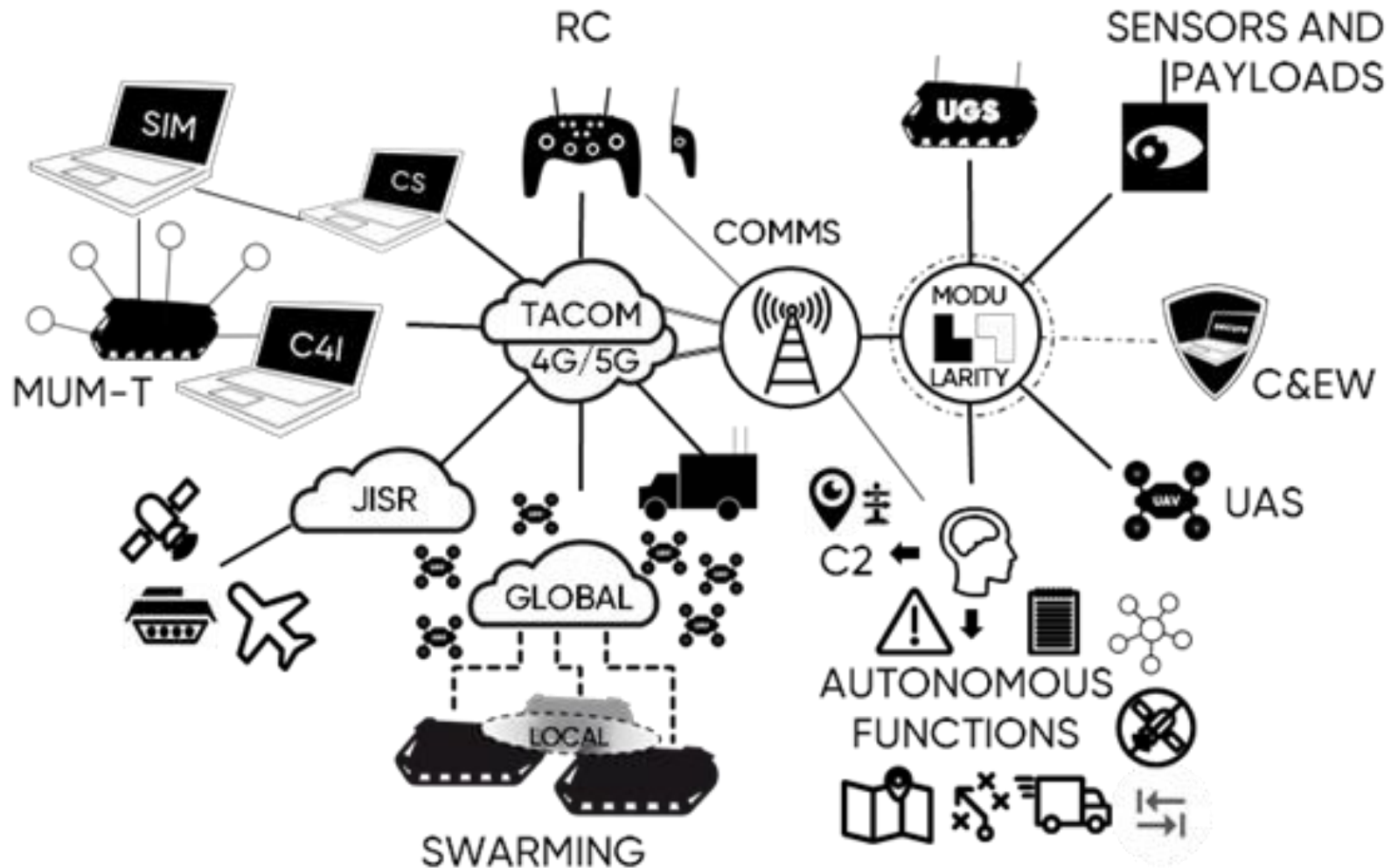


Anti-tank weapon system: 6 x Brimstone (MBDA)





System



Application: September 2019

Project timeline: 2020-2022

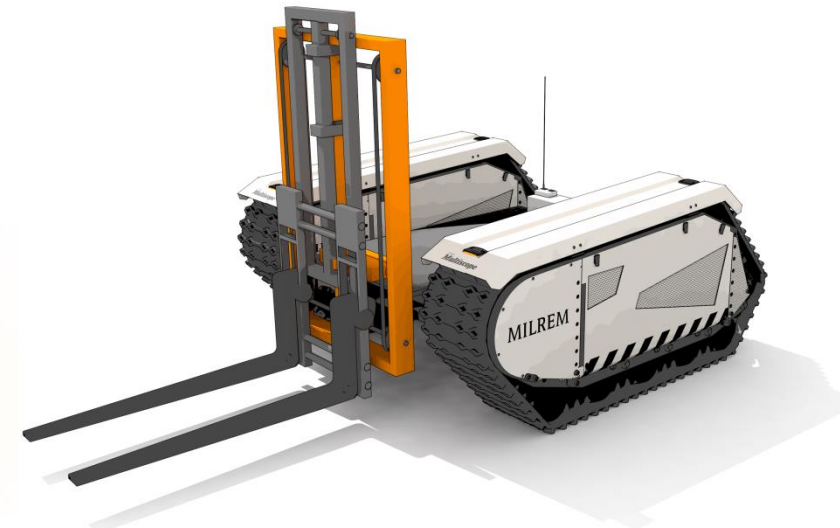
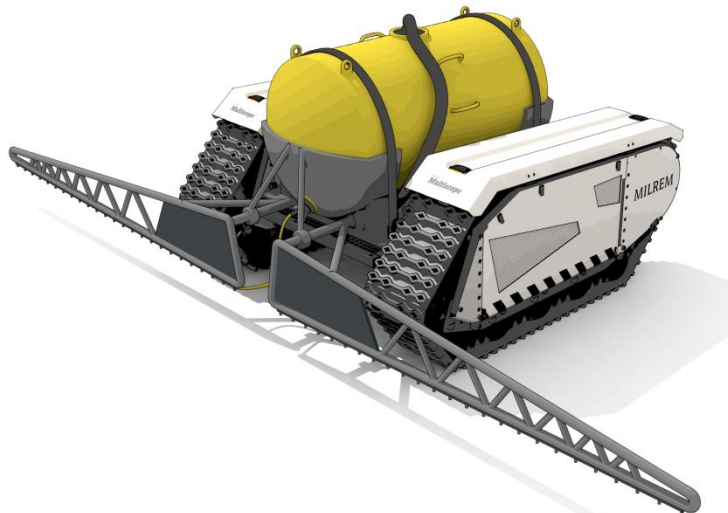
Budget: 30,6 M€

Aligned with PESCO

MUGS consortium:

- Germany
- France
- Estonia
- Finland
- Latvia
- Belgium
- Spain

Civil applications







Thank you!
Aitäh!

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