



A Joint AI Call 2021 project

FAMILIAR

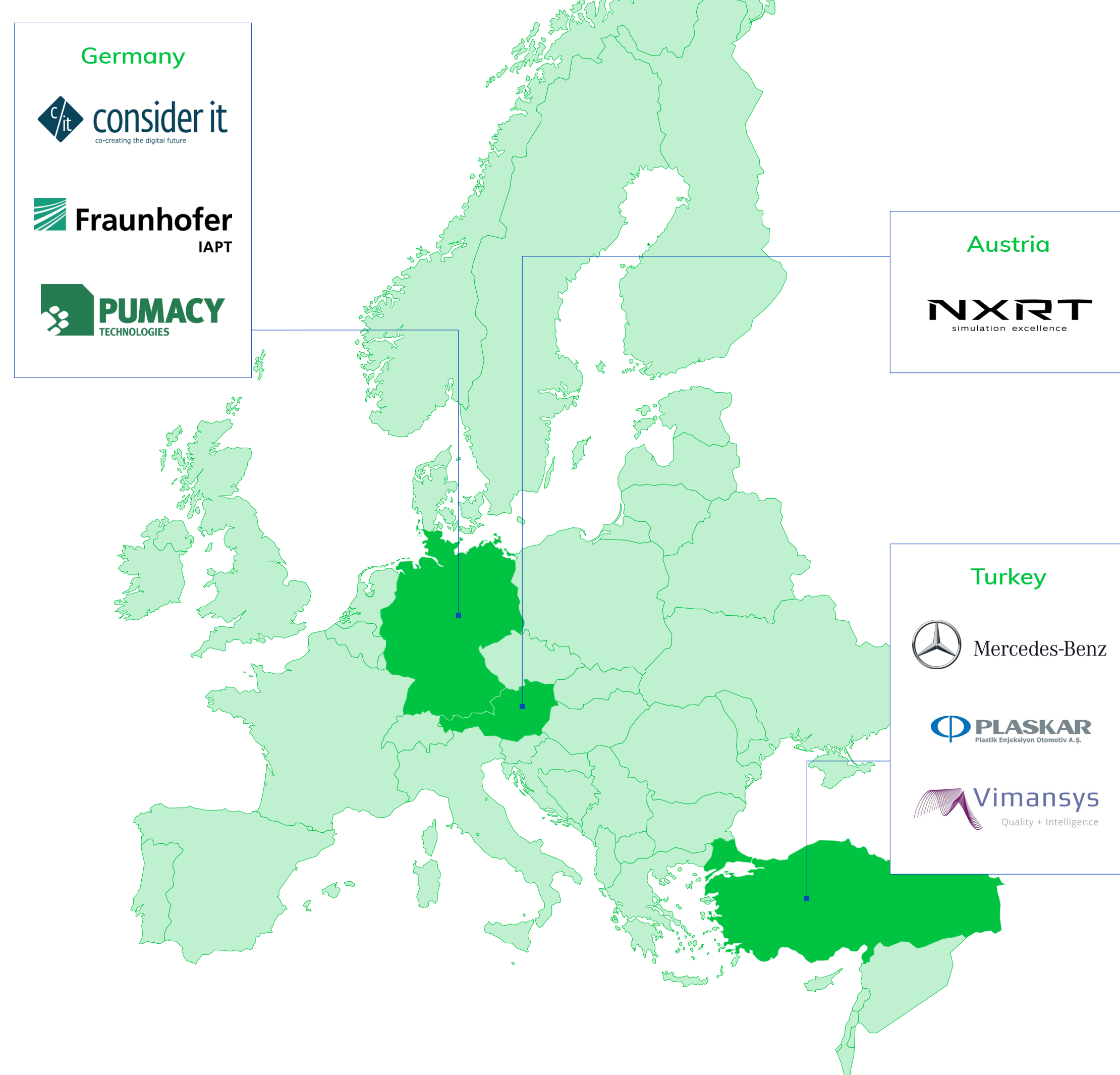


Decentralising federated machine learning in industry

Project summary

The term ‘federated machine learning’ (FedML) is popular in the context of publicly funded R&D projects. Still, it is rarely used in industry, least of all in combination with other leading technologies such as XR and AM. FAMILIAR wants to create FedML solutions using head-mounted displays (HMDs). The solution shall be embedded and tested in real-life applications, such as automotive engineering, maintenance & training, welding and human-robot collaboration. To establish the use-cases, sophisticated data mining techniques will be combined with deep learning.

Consortium



Project duration

June 2022 - September 2025

Expected key results / Unique advantages

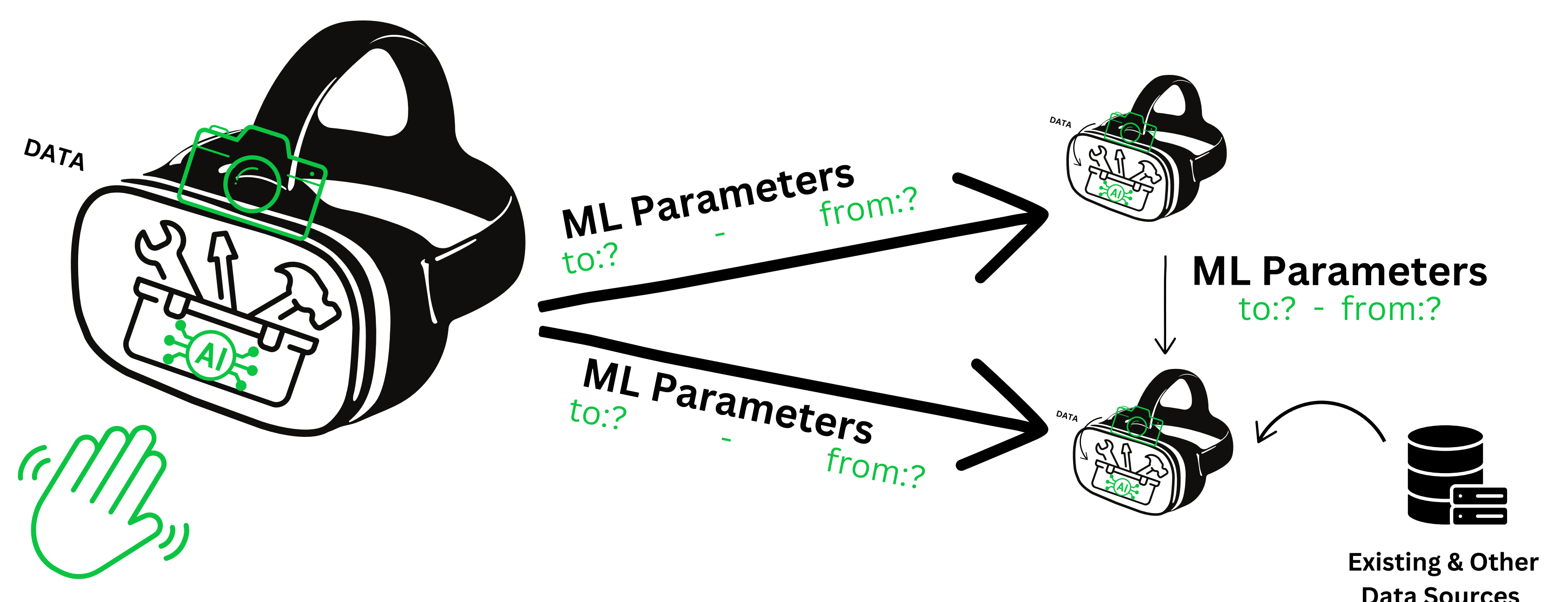
- > Creating an use-case agnostic FAMILIAR system. Providing XR applications with ML-capabilities in a FedML architecture
- > Realizing three use-cases in the domains of automotive and manufacturing
- > Enabling data-privacy-preserving and collaborative learning between edge-devices

FAMILIAR webpage



<https://itea4.org/project/familiar.html>

Architecture Visualisation



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