By utilising artificial intelligence methods, the ITEA project AIToC are developing an integrated toolchain to support manufacturing engineering. The project is focusing on supporting process planning, data-driven creation of digital twin models as well as layout optimisation.

**Expected key results / Unique advantages**

- AI-based assistance in generation of process plans and instructions
- AI-generated models and support for co-simulation of humans and machines
- AI-based planning and optimization of factory layout

**Consortium**

- Sweden
  - ABB
  - Algoxyx
  - KTH
  - LUT
  - TNO
  - Volvo
- Finland
  - Mevea
  - Raute
  - TACTO
  - Oulu University
- Germany
  - Daimler
  - EKS
  - iFak
  - Software
- Türkiye
  - ipek
  - TOFAS
  - UNIT
  - TÜBİTAK

**Addressed Manufacturing Markets**

- Printed electronics
- Production Equipment
- Heavy Machine
- Bus and Coach
- Car
- Trucks

**Project duration**

October 2020 - February 2024

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