Implementation of Cognitive Digital Twins towards the realization of Resilient Production

- **Challenge:**
  Realization of Resilient Factory – agility, adaptively, redundancy, decentralization, optimum workload and capacity.

- **Technical solution:**
  Internet of Cognitive Digital Twins.

- **Research prototype:**

- **Employed Technologies:**
  - **Hardware:**
    - Industrial Robotics – KUKA KR360;
    - Autonomous Mobile Robotics – MIR 100;
    - Wearable Robotics – Cray X;
    - Motion Capturing Technology – Xsens;
    - 3D Scanning Technologies – FARO DMVS;
    - Condition Monitoring Sensor – BALLUFF;
  - **Software:**
    - Digital Manufacturing Technologies – Siemens (Classic Jack, Process Simulate, Plant Simulation, NX);
    - 3D Point Cloud – FARO BuildIT;
    - FARO Scene;
    - Internet of Things – FARO Cloud.