# iMOCO4.E

## The Benefits

**50%**
Testing time reduction by using digital twins (Pilot 5)

**10%**
Reduction of accidents in Warehouse logistics (Demo 3)

**20-40%**
Reduction of time-to-market (Pilot 4)

**60%**
Reduction of the length of the control loop (Demo4)

**30%**
Reduction of material consumption (Pilot 5)

**10%**
Increase of machine/ speed production rate (Pilot 2, 3)

**5%**
Energy consumption reduction by optimizing machine performance (Demo 3)

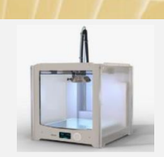
**95%**
Increased number of productive hours/day (Pilot 4)

**10%**
Increased resource utilisation and reduction of waste (Pilot 3).

**50%**
Reduction of commissioning service/time of new modules to market (Demonstrator 1 – Pilot 1, 2, 3, 4)

## The Cases

### Pilots



**Pilot 1:** 3D printing
**Lead**: Sioux, NL

**Pilot 2:** Semiconductor production
**Lead:** ITEC B.V., NL

**Pilot 3:** High speed packaging
**Lead:** CRIT, IT

**Pilot 4**: Healthcare robotics
**Lead:** Philips Medical Systems, NL

**Pilot 5**: Mining/tunneling robotic boom Manipulator **Lead:** Normet, FI

### Demonstrators

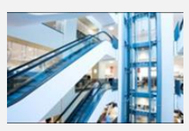
**Demo 1**: Shaver blades
**Lead:** Philips Consumer Lifestyle, NL

**Demo 2**: Plastic molding
**Lead:** Edilásio, PT

**Demo 3:** Warehouse logistics
**Lead:** Still, DE

**Demo 4:** Cosmetics production
**Lead:** Madara Cosmetics, LV

### Use Cases



**Use case 1:** Industrial drive for smart mechatronics applications
**Lead:** Gefran, IT

**Use case 2:** CNC for integrated machine tool and robot control **Lead:** Fagor Aotek, ES, and Tekniker, ES.

**Use case 3:** Tactile Robot Teleoperation
**Lead:** Tyndall National Institute, IE

**Use case 4**: Advanced and Intuitive robot control and programming control
**Lead:** University of West Bohemia, CZ

**Acronym:** IMOCO4.E
**Full name:** Intelligent Motion Control under Industry4.E
**Coordinating institution:** Sioux Technologies B.V.
**GA No.:** 101007311 - H2020-ECSEL-2020-2-RIA
**Start date:** 1st September 2021
**Duration:** 36 months
**Consortium:** 46 Partners from 13 countries

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Scan here and learn more about the IMOCO4.E project


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