

DynaSafe

The enabler for high-performance fenceless industrial robotics

The Project

Highly flexible and dynamic production environments require humans and (industrial) robots to work together without strict spatial and temporal separation. DynaSafe turns the entire factory floor into a safe shared space for human and machine by providing:

- Generic modular safety system (hardware and software)
- 3D detection, tracking and classification of human and dynamic objects
- Real time calculating and monitoring of dynamic compact safety areas
- Virtual safety design and validation

The Team

Location: Fraunhofer IWU, Chemnitz

Members: Dr. Mohamad Bdiwi, Paul Eichler, Jayanto Halim, Sebastian Krusche

The Business Model

Unique Selling Proposition: Intelligent Dynamic safety system for fenceless (heavy-duty) robotics -> Maximizing efficiency and flexibility

Unfair Advantage: Robots- and sensor-agnostic solution; Intellectual property (2 Patents), Membership in ISO/TC 299

Revenue Model: Sales, consulting, service

Venture Readiness Level



Technology Readiness Level



The Side Facts

Customer Focus: B2B

Searching For: expert interview, partner, investors, mentors

Industry Tags: Industrial goods & services, Software & services, Technology hardware & equipment

Technology Tags: Artificial intelligence, Digital twin, Robotics, Smart factory,