



DUISBURG
BUSINESS &
INNOVATION

Duisburg

DUISBURG (GERMANY) – A REAL-WORLD TESTBED FOR ROBOTICS, AI & GREEN INDUSTRY

Why Duisburg

- Europe's leading logistics living lab: Duisport operates the world's largest inland container port and a trimodal hub connecting rail, road and inland waterways.
- Climate-friendly logistics at scale: the Duisburg Gateway Terminal (DGT) is positioned as a hydrogen-enabled, greenhouse-gas-neutral terminal with smart networking and energy integration.
- Heavy-industry + automation in one place: Duisburg hosts major industrial production environments suitable for robotics/AI pilots (e.g., integrated steel operations, automated material flows).

RESEARCH & INNOVATION ANCHORS

(DUISBURG / UDE ECOSYSTEM)

- Sensors, microelectronics & embedded AI: Fraunhofer IMS develops and pilots innovative microelectronic products (incl. embedded AI and sensor technology).
- Applied AI transfer into industry: ZaKI.D (Center for Applied AI Duisburg) is implemented with Fraunhofer IMS + University of Duisburg-Essen + KROHNE and supports AI in industrial products/processes.
- Robotics & autonomous systems: University of Duisburg-Essen hosts dedicated capabilities such as “Mechanics & Robotics” on the Duisburg campus.
- Hydrogen & fuel cells: ZBT Duisburg conducts applied R&D across hydrogen, electrolysis, fuel cells and infrastructure, bridging research and industry.
- Materials design & nano/energy materials: CENIDE (UDE) focuses on nanoscience; its NanoEnergyTechnologyCenter (NETZ) develops materials and scalable processes for energy applications.

INDUSTRY & PILOT PARTNERS (EXAMPLES)

- Smart Logistics / Supply Chain: duisport + startport (innovation platform connecting logistics industry and startups for pilots).
- Industrial production & automation: thyssenkrupp Steel Europe with highly automated material logistics and modernized production assets;
- HKM as integrated steel producer.
- Industrial sensing & instrumentation: KROHNE’s headquarters are in Duisburg (process measurement solutions—relevant for hydrogen, water, chemicals, manufacturing).

DUISBURG R&D ECOSYSTEM

- Center for Nanointegration
- DST Development Center for Ship Technology and Transport Systems
- FEhS Institute for Building Materials Research
- Fraunhofer InHaus Center
- Fraunhofer Institute for Microelectronic Circuitry
- Institute for Energy and Environmental Technology
- NanoEnergyTechnology Center
- Rhine-Ruhr Institute for Social Research and Political Consulting
- ZBT Center for Fuel Cell Technology
- TrHy – THE HYDROGEN PROVING AREA
- Center for Semiconductor Technology and Optoelectronics.
- Institute for Energy and Environmental Technology
- Salzgitter Mannesmann Research GmbH (steel research)

TECHNOLOGY DISTRICT WEDAU NORD

SETTLEMENT AND INVESTMENT OPPORTUNITIE

Why Wedau Nord?

300,000 m² gross floor area (GFA) for technology and science

Space for Research and development

- Focus on: **Green Tech, Data technology, intelligent engineering and clean industry**

Technology Center

- Place for Start-Ups, Scales-Ups and Offsprings from the University of Duisburg-Essen
- **National Innovation and Technology Centre for Hydrogen (Trhy)**
- **Centre for Applied Artificial Intelligence Duisburg (ZAKI.D)**
- **Research centre for applied 3D printing**

NEW CHEMICAL-PARK AT SACHTLEBEN CHEMICAL

Why Sachtleben

- A new chemical park is being built at Sachtleben-Chemie
- **80 hectares** of space for industry and chemical industry
- Includes **shared infrastructure** such as a factory fire brigade and **transshipment facilities at the Rhine**
- Opportunities for **synergy with other companies** in the chemical park
- Part of the Duisburg **logistics network** with the largest inland port in the world
- **Simpler approvals** due to existing use

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