TRADITION MEETS INNOVATION

ESSEN INDUSTRY X.0 INNOVATION CENTER
OVERVIEW
We put innovation at the center of our client relationships

Accenture’s Innovation Architecture helps our clients develop and deliver disruptive innovations, and scale them faster. We help companies imagine the future and bring it to life.

The Essen Industry X.0 Innovation Center is part of over $1B of Accenture investment made annually towards innovation.
Tradition meets innovation at the Essen Industry X.0 Innovation Center

We harness the best minds and advanced technologies to help Chemicals, Natural Resources, Utilities and Oil & Gas companies reinvent possibility in a collaborative, interactive environment to solve complex business problems. We focus on making great ideas real – whether the goal is transforming core operations, improving worker experiences or reinventing business models.

Powered by a global network of innovation centers, we multiply the speed and scale at which we can deliver industry-leading solutions to unlock transformative business value across the entire value chain.

The Essen Industry X.0 Innovation Center brings together two units of the Accenture Innovation Architecture under one roof, to develop new assets and services across various business and industry challenges.

1. **Innovation Center**
   Specializes in breakthrough innovation workshops

2. **Liquid Studio**
   Which focuses on design and rapid application development

#EssenInnovation
The location @ Zollverein UNESCO world heritage site

Past 1834 – 1986

Present 1986 – 2018

Future 2019+

Click to follow link to map

#EssenInnovation
Powered by our global Industry X.0 innovation network

Essen is fully integrated
We are entering an Industry X.0 era, which has evolved over a period of time, converging information and operational technology.

Through Industry X.0, businesses embrace and profit from smart, connected, living and learning technologies that encourage innovation, improve operational efficiency and use new ecosystems and business models to drive both top-line and bottom-line growth.

Reinvent possibility with Industry X.0

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**18th century**

**Industry 1.0**
Mechanical production powered by water and steam

**20th century**

**Industry 2.0**
Mass production based on the division of labor and powered by electrical energy

**1970 – recent**

**Industry 3.0**
Electronics and IT for automation of production and front/middle/back office

**Today**

**Industry 4.0**
Cyber physical production systems

**Tomorrow**

**Industry X.0**
Start your innovation journey now!

We offer deep expertise
We specialize in Industry X.0 for Chemicals, Natural Resources, Utilities and Oil & Gas. Leverage the best minds in industry, technology and business under one location to achieve new levels of efficiency through smart, connected, living and learning technologies.

We go beyond just show and tell
We offer immersive, curated experiences that bring the latest technologies to life in real-world scenarios, and we have also developed a range of workshop services designed to learn about industry trends and explore new ways of solving complex business challenges.

We are experts in design thinking & rapid prototyping
Our experts work collaboratively in cross-functional teams to ideate and co-create industry-leading solutions.

We have an ecosystem of partners
We orchestrate optimal ecosystem partnerships to prototype, pressure test, iterate, and scale fully functional end-to-end solutions faster than ever.

#EssenInnovation
Innovation awaits

Reimagine your reality. Our innovation center is equipped with an evolving range of immersive demo experiences that bring the latest digital technologies to life. Touch and feel ‘the art of the possible’ through industry-relevant use cases that can be applied to your organization now.

Reinvent possibility with Industry X.0. Explore the latest digital trends and how they can be applied to your business through innovative design thinking sessions and workshops to solve complex business challenges.

Transform core operations. Prove the outcome of your workshop together with our team to develop rapid prototypes and industry-leading solutions that unlock transformative business value. Feel the full force of our global innovation network to scale at speed.

#EssenInnovation
Get inspired by our Innovational Demos

Through our **tours** and **workshops**, explore the NEW and visualize the future through digital technologies and thought-provoking Industry X.0 use cases.

Our presenters will navigate clients through innovation use cases, architecting the experiential blend of dynamic storytelling, disruptive ideation, challenges and tactical industry solutions to elevate the client's innovation journey.

#EssenInnovation
To achieve real digital transformation and unlock lasting value, companies must carefully select the right combinations of digital technologies. Here are some of the technologies you can expect to find in our innovation center.

- **Artificial Intelligence & Cognitive Computing**
- **Mobility & Field Force Enablement**
- **Automation & Control**
- **Advanced Data Visualization**
- **BlockChain**
- **Data Management & Security**
- **Data Analytics & Machine Learning**
- **Cloud Computing**
- **Image & Video Analytics**
- **Assisted, Augmented & Virtual Reality**
- **Internet of Things**
- **Robotic Process Automation**
Industry-relevant use cases

We’re equipped with an evolving range of immersive experiences that bring a combination of digital technologies to life. Touch and feel ‘the art of the possible’ through industry-relevant use cases that can be applied to your organization now.

**Digital workforce**
Driving an efficient, effective and safer worker environment by leveraging digital technologies such as IoT sensors, wearables, analytics and AR/VR.

**Digital twin**
Working collaboratively in global teams on integrated engineering documentation to continuously maintain a digital twin of all assets.

**Digital plant**
Real-time monitoring and optimization of assets in a plant environment, using advanced analytics and machine learning to turn data into actionable insight.

**Supply chain management**
Integrating planning and scheduling with operations, and increasing the visibility of movements of materials through the value chain.

**Digital customer**
Establishing new channels and increased customer interactions within Utility and Fuels Retail industries.

**IIoT connectivity & security**
Integrating classical operational technology (OT), Industrial Internet of Things (IIOT) and core operations systems securely and cost effectively.
Our innovation offerings

Industries and technologies covered in the Essen Innovation Center:

**Explore one of our topics in your specific industry, and conclude with an ideation workshop:** Utilities, Chemicals, Natural Resources, Energy

**Explore one of our technologies and demos below, and conclude with a solutioning ideation workshop.**

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**Inspirational**

**Demo Tour**
Explore innovative solutions during our demo tour and experience new technologies to identify new sources of growth.

**Demo Tour + Ideation**
Conclude your demo session with an ideation session to bring content to life and drive insightful conversations.

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**Industry X.0**

**Industry X.0 Sampler**
See and discover the possibilities in Industry X.0 to leverage smart, connected digital technologies and embracing constant technological change to realize new levels of efficiency and growth.

Chose one of our topics:
- Industry X.0 Sampler
- Industry Deep Dive

**Deep Dive**
Explore one of our topics below, and conclude with an ideation workshop:
- Digital Plant
- Digital Worker
- Digital Twin
- Digital Customer
- IOT Connectivity
- Supply Chain Management

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**Ideation**

**Visioning**
Shape your strategy by understanding your target group, exploring the pain points, brainstorming and prioritizing ideas to create a vision.

**Solutioning**
Tailor a solution based on your challenge or endeavour. Understand your audience and current processes to create a comprehensive solution.

**Sprint**
Inspire innovation, encourage user-centered thinking and unite your team to launch your product or service faster.

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**Custom**

**Build Your Own Agenda**
Create a customized agenda and demos to fit a specific client objective. Working with the innovation hub global network we will research, and consolidate the latest technologies, trends and identify engaging SMEs to bring content to life and drive insightful conversations.

**Business Process Management (BPM)**
Accenture’s BPM assets and support tools are provide an integrated approach to process management and enable you to achieve better results. Achieve high performance in:
- Process Management
- Program Support & Management
- Go-to-market Enablement
- Capability Development

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Workshop types

Achieving innovation is almost impossible to do alone. It takes a collaborative effort with the right teams to drive innovation and create valuable outcomes.

We have developed various workshops to explore new ideas, discuss innovation use cases and solve complex challenges. Our experienced team will collaboratively explore and understand your goals to create your workshop experience driving innovative outcomes.

We will guide and discuss during the workshop to identify insights and potential innovation opportunities.

Our offer includes the following types of workshop:

**Inspirational Workshops**
Discover one of our topics and see how our demos embrace constant technology change to realize new levels of efficiency and sources of growth.

**Industry X.0 Workshops**
Explore how X.0 businesses leverage digital technologies to realize new levels of efficiency and growth.

**Sample Workshops**
Are use-case based to see and discover the possibilities in Industry X.0

**Deep Dive Workshops**
Explore one of our topics and individually discuss and experience your challenges to shape high outcomes.

**Ideation Workshops**
Show what innovation is, why it is so important and give you the framework to create and drive an innovative culture.

**Business Process Management (BPM)**
Provide an integrated approach to process management leveraging BPM assets and tools.

**Custom Workshops**
Discover one of our topics and see how our demos embrace constant technology change to realize new levels of efficiency and sources of growth.

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Key Deliverables

Workshop Summary
Every session will be documented and synthesized into a workshop summary. This includes notes on key discussion topics, summaries of all presentations and demos, photography and clear next steps.

Deliverables
Where applicable:
• Pictures of the day
• Videos on team activities
• Key outcomes and takeaways
• Key quotes from the session
• Agenda and slide deck
• Participation list
• Wrap up call

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Project delivery

Summary

Our project delivery offering provides the right subject-matter experts to run design sprints, helps to deliver self-contained project modules (e.g. business process redesign) or solves complex roadblocks to existing projects.

Together with your team we collaborate onsite in Essen for the duration of the project sprint. We provide expertise on project management, agile delivery, design thinking and bring in experts from our global innovation network.

Utilize our special location to refresh your project, optimize peaks and speed up delivery.

Key Deliverables

Project plan for the duration of the sprint / project module.

Custom deliverables agreed by project type. Examples could include:

• Documentation for a process redesign sprint
• Documented solution and actions to unlock a project roadblock
• Functional design document for a specific use case or solution
• Proof of concept
Scale at speed
Our delivery and solution centers offer a model that is local as possible, global as needed

Europe
- MES & automation systems strategy, implementation, and support
- Digital strategy

USA
- MES & automation systems strategy, implementation, and support
- Control systems security
- Environmental, Safety, Health (ESH)
- Logistics
- Maintenance & reliability
- Digital strategy
- Business process and functional expertise in greenfield and brownfield MES, and oils & energy

Brazil
MES & automation systems strategy, implementation, and support

ATAN
- 2006 acquisition of ATAN strengthen automation skills
- Industry focus: metals & mining, oil & gas

South Africa
MES & automation systems strategy, implementation, and support

Saudi Arabia
MES implementation and support for refining and petrochemical

India
- MES implementation and support
- Maintenance & reliability
- Deep technical enablement

Australia
- Large scale MES implementation and support for liquefied natural gas (LNG) and Mining
- Business process and functional expertise of operational systems for Greenfield LNG and integrated mining

#EssenInnovation
The right partnerships that result in end-to-end solutions

We orchestrate optimal ecosystem partnerships to prototype, pressure test, iterate, and scale fully functional solutions faster than ever.

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Accenture

How to find us

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Germany

Contact us
We are now open for tours and workshops - please contact
EssenInnovation@accenture.com
to arrange a visit.

Find out more
For more information about our services please visit
www.accenture.com/EssenInnovation

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ABOUT
ACCENTURE
What is Industry X.0?

Industry X.0 is the Digital Reinvention of Industry, where businesses use advanced digital technologies to transform their core operations, their worker and customer experiences and ultimately their business models. New levels of efficiency are achieved in the core of R&D, engineering, production, manufacturing and business support through integrated systems, processes, sensors and new intelligence. Worker and customer experiences are reimagined and redesigned through personalization and advances such as immersive, augmented and virtual reality. New business models and revenue streams are unlocked by smart, connected products, services and plants that are enabled by new ecosystems.
Accenture Industry X.0
building on our success in industry

#1 Leading Market Positioning
Unmatched Industry Expertise
Ecosystem of Strategic Alliances
Culture of Product Innovation & Design

#EssenInnovation
#1 Recognized as worldwide leader by industry analysts

25+ Years of experience in design, produce and support

10,000+ Industry X.0 professionals
AboutAccenture

Accenture is a leading global professional services company, providing a broad range of services and solutions in strategy, consulting, digital, technology and operations. Combining unmatched experience and specialized skills across more than 40 industries and all business functions – underpinned by the world’s largest delivery network – Accenture works at the intersection of business and technology to help clients improve their performance and create sustainable value for their stakeholders. With 477,000 people serving clients in more than 120 countries, Accenture drives innovation to improve the way the world works and lives. Visit us at www.accenture.com.