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.

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
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.

- **Research**
  - Trends
  - Ideate through thought leadership

- **Ventures**
  - Investment & Open Innovation
  - Shape Emerging technologies

- **Labs**
  - Research & Development
  - Prototype through applied R&D projects

- **Studios**
  - Solution Innovation
  - Build with speed and agility

- **Innovation Centers**
  - Use Case & Assets
  - Re-use with clients

- **Delivery Centers**
  - Industrialization
  - Industrialize sale & delivery

The **Essen Industry X.0 Innovation Center** is part of over $1B of Accenture investment made annually towards innovation. It combines innovation workshops and inspiration along with new asset, service or rapid prototype development across various business and industry challenges.

#EssenInnovation
Tradition meets innovation

We harness the best minds and advanced technologies to help companies of the Chemicals, Natural Resources, Utilities, Oil & Gas or process-intensive industry 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 is located at Zollverein UNESCO world heritage site.
**Start your innovation journey now!**

**We offer deep expertise**  
We specialize in Industry X.0 for Chemicals, Natural Resources, Energy, Utilities, process-intensive and manufacturing industries. 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
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.

<table>
<thead>
<tr>
<th>Artificial Intelligence &amp; Cognitive Computing</th>
<th>Mobility &amp; Field Force Enablement</th>
<th>Automation &amp; Control</th>
<th>Advanced Data Visualization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blockchain</td>
<td>Data Management &amp; Security</td>
<td>Data Analytics &amp; Machine Learning</td>
<td>Cloud Computing</td>
</tr>
<tr>
<td>Image &amp; Video Analytics</td>
<td>Assisted, Augmented &amp; Virtual Reality</td>
<td>Internet of Things</td>
<td>Robotic Process Automation</td>
</tr>
</tbody>
</table>
**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.

<table>
<thead>
<tr>
<th><strong>Digital workforce</strong></th>
<th><strong>Digital twin</strong></th>
<th><strong>Digital plant</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Driving an efficient, effective and safer worker environment by leveraging digital technologies such as IoT sensors, wearables, analytics and AR/VR.</td>
<td>Working collaboratively in global teams on integrated engineering documentation to continuously maintain a digital twin of all assets.</td>
<td>Real-time monitoring and optimization of assets in a plant environment, using advanced analytics and machine learning to turn data into actionable insight.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Supply chain management</strong></th>
<th><strong>Digital customer</strong></th>
<th><strong>IIoT connectivity &amp; security</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrating planning and scheduling with operations, and increasing the visibility of movements of materials through the value chain.</td>
<td>Establishing new channels and increased customer interactions within Utility and Fuels Retail industries.</td>
<td>Integrating classical operational technology (OT), Industrial Internet of Things (IIOT) and core operations systems securely and cost effectively.</td>
</tr>
</tbody>
</table>
Our industry-led Innovation Center services

How we engage in innovation with our clients depends on specific client needs & innovation maturity.

Focus industries

- **CHEMICALS**
- **NATURAL RESOURCES**
- **ENERGY & UTILITIES**
- **PROCESS-INTENSIVE / MANUFACTURING**

Client ambition

- **The Explorer:** "Why should we start to think about innovation now?"
- **The Ideator:** "How do we generate and qualify new ideas?"
- **The Expeditionary:** "How do we rapidly develop and launch ideas?"
- **The Partner:** "How do we scale and exit ideas?"

Services available (tailored to client needs)

<table>
<thead>
<tr>
<th>INNOVATION IGNITION</th>
<th>Powerhouse Tour</th>
<th>Inspirational Session</th>
<th>Innovation Sprint</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET INSPIRED</td>
<td>≤ 2 days</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INNOVATION JOURNEY</th>
<th>Innovation Journey S</th>
<th>Innovation Journey M</th>
<th>Innovation Journey L</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET YOUR PROTOTYPE</td>
<td>6 – 16 weeks</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INNOVATION PARTNERSHIP</th>
<th>Start-up Partnership</th>
<th>Innovation Partnership</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET INNOVATION AS A SERVICE</td>
<td>3 months +</td>
<td>12 months +</td>
</tr>
</tbody>
</table>

- Understand how Accenture innovates in the era of Industry X.0
- Conduct a standardized or customized workshop for your innovation journey
- Solve a business challenge by running an end-to-end innovation journey
- Co-create business solutions/prototypes from mock-ups to machine learning algorithms
- Use our center as platform to promote and leverage your start-up business
- Solve multiple business challenges together with our innovation experts

#EssenInnovation

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Powered by our global Industry X.0 innovation network

Essen is fully integrated
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.

#EssenInnovation
Accenture Essen Industry X.0 Innovation Center

How to find us

UNESCO-Welterbe Zollverein
Kokereiallee 20
Areal C [Kokerei]
Schalthaus 2
D - 45141 Essen

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

Find us on Google Maps

#EssenInnovation
ABOUT
ACCENTURE
## About Accenture

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 482,000 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.

<table>
<thead>
<tr>
<th>Accenture Strategy</th>
<th>Accenture Consulting</th>
<th>Accenture Digital</th>
<th>Accenture Technology</th>
<th>Accenture Operations</th>
<th>Accenture Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>shapes our clients’ future... combining deep business insight with the understanding of how technology will impact industry and business models.</td>
<td>transforms...bringing the very best of Accenture to help our clients transform their businesses to compete in today’s digital world.</td>
<td>digitizes, enabling our clients to unleash the power of digital...providing analytics, interactive marketing and mobility services to create new value.</td>
<td>powers our clients’ businesses with “best in class” established and emerging technologies.</td>
<td>operates business processes and infrastructure as a service on behalf of our clients.</td>
<td>develops innovative security measures by newest technologies, minimizes known risks and anticipates possible threats.</td>
</tr>
</tbody>
</table>
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.
#1 Recognized as worldwide leader by industry analysts

30+ Years of experience in design, produce and support

10,000+ Industry X.0 professionals

#EssenInnovation
Discover the power of our Innovation Network

accenture.com/EssenInnovation
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