



# INDUSTRY 4.0 IN NORMANDY

A HIGHLY INDUSTRIALIZED REGION  
AT THE CUTTING EDGE OF INNOVATION

## INDUSTRY KEY FIGURES

2<sup>nd</sup>

French industrial region

20%

of the regional GDP

14 890

companies

202 620

jobs

16%

of regional employment

45

companies

with more than 500 employees

### INNOVATIVE PROJECTS ON

Mobility, Giga factory, Hydrogen,  
Marine Renewable Energy...

### INTERNATIONAL RECOGNITION

Renault-Cléon plant recognized as  
a showcase for industry 4.0 by the  
World Economic Forum 2019. A  
first in France with this label

### STARTUP & SME ECOSYSTEM

offering innovative technological  
solutions for industry 4.0:  
Keyveo, Ob'Do, Leancure,  
Oreka, Antiote, Siatech, ...

## LEADERS & LARGE GROUPS

Renault • PSA • Volvo Trucks  
Group Safran • Aptar • EDF  
Areva • Naval Group • GSK  
Sanofi Pasteur • Vuitton  
Faurecia • Toshiba • Schneider  
Electric • Bosch • Group Servier  
Agrial • Danone • Isigny Sainte-Mère  
...

**Normandy is a leading industrial region with many skills that allow it to stand out in different sectors, traditional, niche or high value-added.** The region is famous in automotive, oil and derivatives, aeronautics, naval, nautical, pharmaceuticals, agri-food, cosmetics, energy, the glass and transport and logistics industries.

**Industry 4.0 in Normandy** aims to elevate industry by improving industrial competitiveness through **6 major points**: lean manufacturing, digitalization, human resources, energy transition, corporate social responsibility and innovation.

Thanks to its Normandy Economic Development Agency (AD Normandie), the Normandy Region contributes to the growth of its economic fabric by constantly contributing to the improvement of companies' competitiveness.

## INNOVATION, RESEARCH & DEVELOPMENT

French companies that have concretely developed an innovative project for the organization of their production, most often via digital technology. Here are some examples of outstanding companies in the region were awarded "Industry of the Future" label.

### ▲ RENAULT CLEON

Automated logistics carts, sensors, 3D printing, exoskeletons, collaborative robots or virtual reality training.

### ▲ TOSHIBA

Implementation of artificial intelligence and digital data collection and sharing tables soon to be commercialized.

### ▲ FAURECIA

Involving employees in the digital transformation of the site, developing exchanges and partnerships with start-ups, schools and local mid-cap companies and by accelerating the digitization of the site, particularly with the implementation of collaborative robots.

### ▲ CMN

Modernization of the production tool, improvement of industrial organization, responsible development and positioning of the human in the company.

### ▲ COTRAL LAB

The Cotral Digital Lab project aims to computerize production operations and customer data, digitize manufacturing and integrate artificial intelligence to optimize production management.

### ▲ ORANO LA HAGUE

Use of virtual reality allows for optimized operator preparation under the same conditions as in real life.

### ▲ BOSCH EMS

The Norman site won the plant trophy for its strategic positioning, the efficiency of its production system and its methods of team involvement.

### ▲ SCHNEIDER ELECTRIC

The Norman site has been selected as one of the pilot sites for industrial digital transformation within the Group's plants through its TSC 4.0 (Tailored Sustainable and Connected) program.

# TRAINING



▲ **INSA ROUEN** ([www.insa-rouen.fr/en](http://www.insa-rouen.fr/en))  
Diploma in Industrial performance and innovation



▲ **ISPA** ([www.ispa.asso.fr/ispa-plasturgy](http://www.ispa.asso.fr/ispa-plasturgy))  
Learning class through a connected technical platform



▲ **ESITC** ([www.esitc-caen.com](http://www.esitc-caen.com))  
Degree in Construction Engineering



▲ **ISEL** ([www.isel-logistique.fr/en](http://www.isel-logistique.fr/en))  
Degree in Mechanics and Production



▲ **ESIGELEC** ([www.esigelec.fr/en](http://www.esigelec.fr/en))  
Master in Industrialization 4.0 Manager

▲ **EIC**  
Degree in Construction Engineering



▲ **ENSICAEN** ([www.ensicaen.fr/en](http://www.ensicaen.fr/en))  
Diplomas in Engineering in Electronics and Applied Physics



▲ **ESIX** ([www.unicaen.fr/esix](http://www.unicaen.fr/esix))  
Industrial Systems Engineering Engineer



▲ **CESI** (<https://caen.cesi.fr>)  
Master's degree in Industrial Organization & Performance

# SERVICES & SUPPORTS

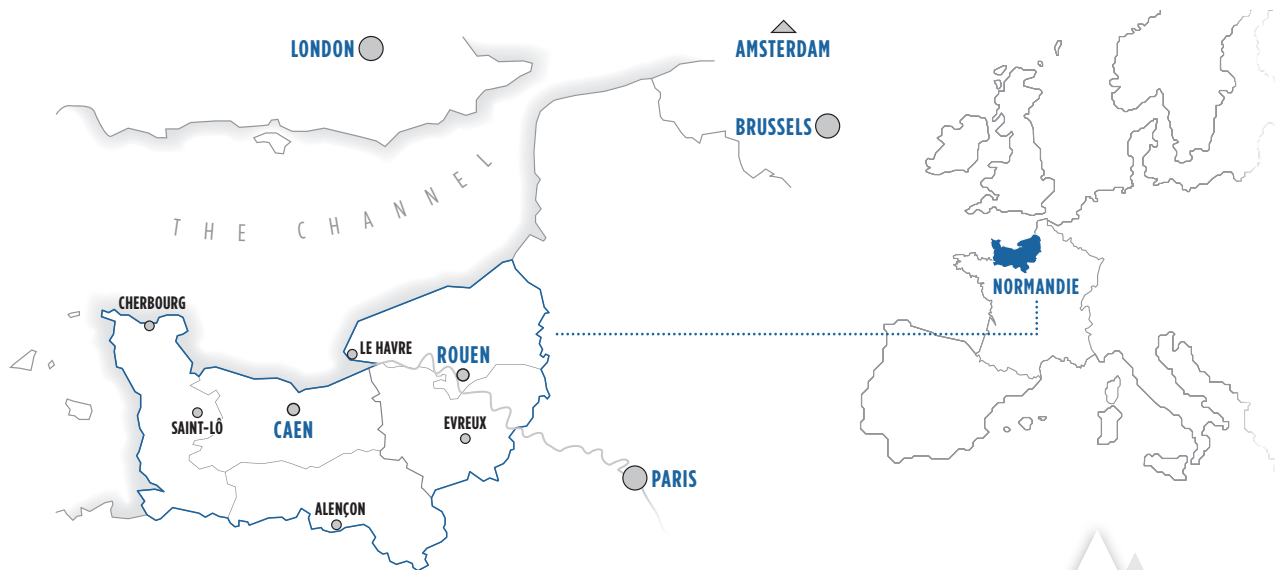


▲ **NORMANDIE INDUSTRIE**  
Regional platform of support services managed by AD Normandie (Regional Economic Development Agency) for accelerating industrial projects 4.0. It aims to bring together all existing initiatives, mechanisms and actors in the region within a single window for supporting industrial companies.



▲ **CETIM: TECHNICAL CENTRE FOR MECHANICAL INDUSTRY** ([www.cetim.fr/en](http://www.cetim.fr/en))  
Support to improve companies' competitiveness through mechanical engineering, transfer of innovations and advanced manufacturing solutions.

▲ **COMPETITIVENESS CLUSTERS FOR INDUSTRIAL COMPANIES**  
Normandy is rich in industry associations and competitiveness clusters in the industrial sectors: aeronautics, digital, health, energy, agri-food, logistics and others: they support companies in becoming "the factory of the future" through a range of appropriate actions.



## CONTACT

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