



TWIN TRANSITION: ENABLING SMART MANUFACTURING

CII IQ STUDY MISSION TO EUROPE

Join the CII-IQ mission to Germany which will facilitate understanding the role of policy, technological developments, standards, conformity assessment schemes which affect the TWIN TRANSITION for industry growth and profitability. Participating delegates will gain insight into the implementation of latest technological practices related to digital and sustainability as they will visit the leading industries in Germany.

11- 16
SEPTEMBER 

GERMANY 

Background

Digital Technologies and Sustainable initiatives are increasingly becoming pertinent in this decade which is decisive in climate change. Globally the approach of "TWIN TRANSITION" is being adapted to ensure that digital and sustainability agenda work towards improving our future.

Quality Infrastructure framework has a key role in digital and sustainable practices as they support in development and implementation of standards, ensuring the compliance and supporting smart manufacturing. This will help in improving the growth resulting in profitability. European Union has been progressively working in this direction and many reforms in regulatory and standards framework have been implemented. Some of the key initiatives include EU Green Deal, Cyber Resilience Act, Corporate Social Responsibility Directive, etc. Many compliance standards under the ISO framework are also being developed and updated to support global compliances and bring uniformity of acceptance across different economies. In Germany, Industry and QI bodies are collaboratively and very enthusiastically developing and adapting changes in this direction.

India has also taken a lead in this direction through various initiatives. There are many successful application models and practices in Germany for the Indian Industry to study, implement and also create indigenous models for building a robust world class industry.

The twin transition is the most important challenge of our time. We must work together to build a more sustainable and digital future - UN Secretary-General António Guterres

The twin transition is a race against time. We must act now to build a future that is both sustainable and prosperous - European Commission

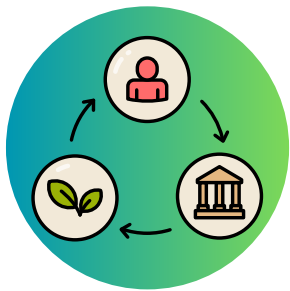


PURPOSE >>>

India is projected to become \$1 trillion digital economy by 2025-26: Atmanirbhar Bharat. Global innovation and entrepreneurship are shaping the economy in India and there is a need for adopting to global standards. This will ensure in building and sustaining world class industry which can be a key player in the global value chains and also support various trade initiatives including FTA's. This can only be achieved with Indian industry's adaption and adoption of latest activities and adherence to the global quality standards and benchmarks which will support the strategic and policy related planning related to Twin Transitions.



CII-IQ is planning a learning mission to Germany to study the research, standards, and quality infrastructure (QI) framework in the digital and sustainable sectors. The mission aims to support the industry and other stakeholders in developing and implementing best practices to support the twin transition.



This mission will comprise of visits to key organizations which impact the Quality infrastructure of the country. The study mission will commence with visit to advanced laboratory in Hamburg followed by visit to National Metrological Institute, PTB in Germany. This will be followed by visit to manufacturing industries and clusters around Germany and round table discussion update on the European laws related to trade. Further, there will be interactions and discussion with senior industry leaders during the mission.

The mission has been planned to ensure that all stakeholders who affect the quality infrastructure framework for the twin transition are visited and that participants gain a comprehensive understanding of different norms and practices.



Key Takeaways

- 1. Observe best practice implementation in industry to support Twin Transition
- 2. Understand ways to increase the profitability by using smart manufacturing
- 3. Upgrade the value chain by application of voluntary standards
- 4. Adapt sustainable practices to reduce the carbon emissions
- 5. Discussion with Think Tanks for future strategies
- 6. Align digital and sustainable strategies
- 7. Understand the regulatory reforms to facilitate trade
- 8. Build B2B connects



Who Should Attend?





Proposed Visiting Institutes



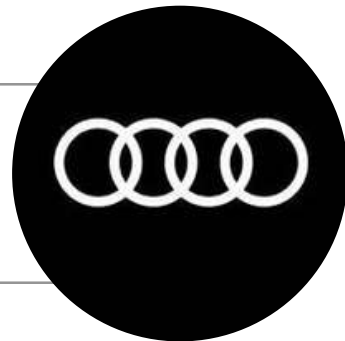
Digital Laboratory at Hamburg: Eurofins Laboratories have a State of Art Facility of at Hamburg in an area to cater to testing in bio-pharmaceuticals, cosmetics, environmental testing, agriculture products. The laboratories are digitalised in nature.

Physikalisch-Technische Bundesanstalt (PTB): is the national metrology institute of the Federal Republic of Germany, with scientific and technical service tasks. It is a higher federal authority and a public-law institution directly under federal government control and PTB ranks among the leading metrology institutes in the world. PTB is actively working in area of energy sector and have implemented digital strategy. The link <https://www.ptb.de/cms/en.html> provides further details.



Visit to Industrial facility in Nuremberg: Nuremberg have over 25,000 companies which include start ups, global players and different champions in their area of work. The visit will involve visit to Bosch facility in Nuremberg. Bosch has been associated with forward-looking technology and trailblazing inventions that have made history. For more information, please [click here](#) (TBC)

Audi factory in Ingolstadt: Audi plant in Ingolstadt is a production facility and Group Heads and Technical Teams are also located in same campus. The visit will provide an insight into latest technological advances in the car manufacturing. For more information, please [click here](#)



SIEMENS

Siemens facility in Munich: Visit the manufacturing to observe the application of latest use of digital practices like AI, IoT and ensuring cybersecurity to manufacturing sector. Also review the battery storage system which are essential components of renewable energy infrastructure and helps in profitability. For more information, please [click here](#) (TBC)



Proposed Visiting Institutes



Discussion on Standards and QI framework with updates on latest technology with TIC Council, Brussels at Munich. TIC Council is an international association of conformity assessment bodies with over 120 members world wide who are conducting pioneering work in area of conformity assessment services. TIC Council is a member of ILAC, IAF, IAAC, APAC and is actively engaged in different regions. They have offices in Europe, Americas, India, and China. TIC Council has actively worked in area of relevant legislations in EU related to digital and sustainable practices. For more information refer the [Link here](#).

Visit to facility of Fraunhofer. Fraunhofer is a leading organisation in applied research in Germany. The applied research are in areas of energy, aerospace, construction, digital economy etc. Fraunhofer lead markets give Germany a global competitive edge, secure the technological sovereignty of Germany and Europe as well as deliver sustainable value creation for society. You may refer the [link](#) for more information. (TBC)



Visit to TUV SUD and Battery testing facility to discuss and review the different schemes in areas of Sustainable and Digital Practices. This will involve visit to TUV SUD, Munich office to be appraised on the schemes being implemented for safety, security, digital and sustainable solutions in manufacturing sector which ensure profitability in operation of industry. To observe the implementation of these schemes visit to industry will be organised. In addition there is a visit also planned to observe the revolutionary Electric vehicle battery testing facility. TUV SUD is one of the leading conformity assessment bodies providing services in different areas which include certification, training, inspection. For more information please [click here](#).

Discussion with Policy and Advocacy Think Tank of Germany: Acatech is the German Academy of Science and Engineering which provides industry and policy makers with the advise to promote sustainable growth through innovation. They have series of publications in circular economy, energy services, digital and innovative techniques. May visit the [link](#) for further details. (TBC)





Registration

- Delegate Registration to be done using the attached Registration form along with passport copy of the delegate
- Mission program and other details of the Mission will be sent to the delegate after receiving their confirmation
- Prior registration along with the Fee is a must.
- The number of delegates would be restricted to 15 on first come first serve basis.
- Delegate fee is non-refundable. However, change in nomination is accepted subject to travel document/arrangements.
- The last date to receive the registration along with payment is 30 July 2023.

Delegate Fees

- The delegate fees if Rs 1.5 Lakhs plus GST for members and Rs 1.8 lakhs plus GST for non-members.
- Fee includes Administrative cost, arrangements for Lunch/Tea/Coffee and Local transport from 11 Sep to 16 Sep within Germany. This will only cover the travel cost of the visits to institutions in a group, during the mission dates.
- Fee does not include Air fare and Hotel accommodation. CII will provide best rates for the hotels in Germany.

Travel Instructions

- Air Tickets to and fro Germany should be borne by the delegates.
- Delegates must have passport with minimum 6 months validity from the date of travel
- The required Germany visa to be arranged by delegates. Necessary invitation from Germany and visa recommendation letter will be arranged by CII.
- Delegates are requested to book their tickets to Hamburg, Germany, to reach Hamburg by afternoon on 10th September 2023.
- There will be a briefing meeting on 10th September evening at the Hotel. Please plan your travel accordingly.
- The Mission will end by 16th September evening. Those who are not staying back in Germany, may book their return tickets from Munich, Germany on 16th September late evening flights to India.

Complimentary trip to BMW Museum & Oktoberfest

Interested participants may contact -

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