

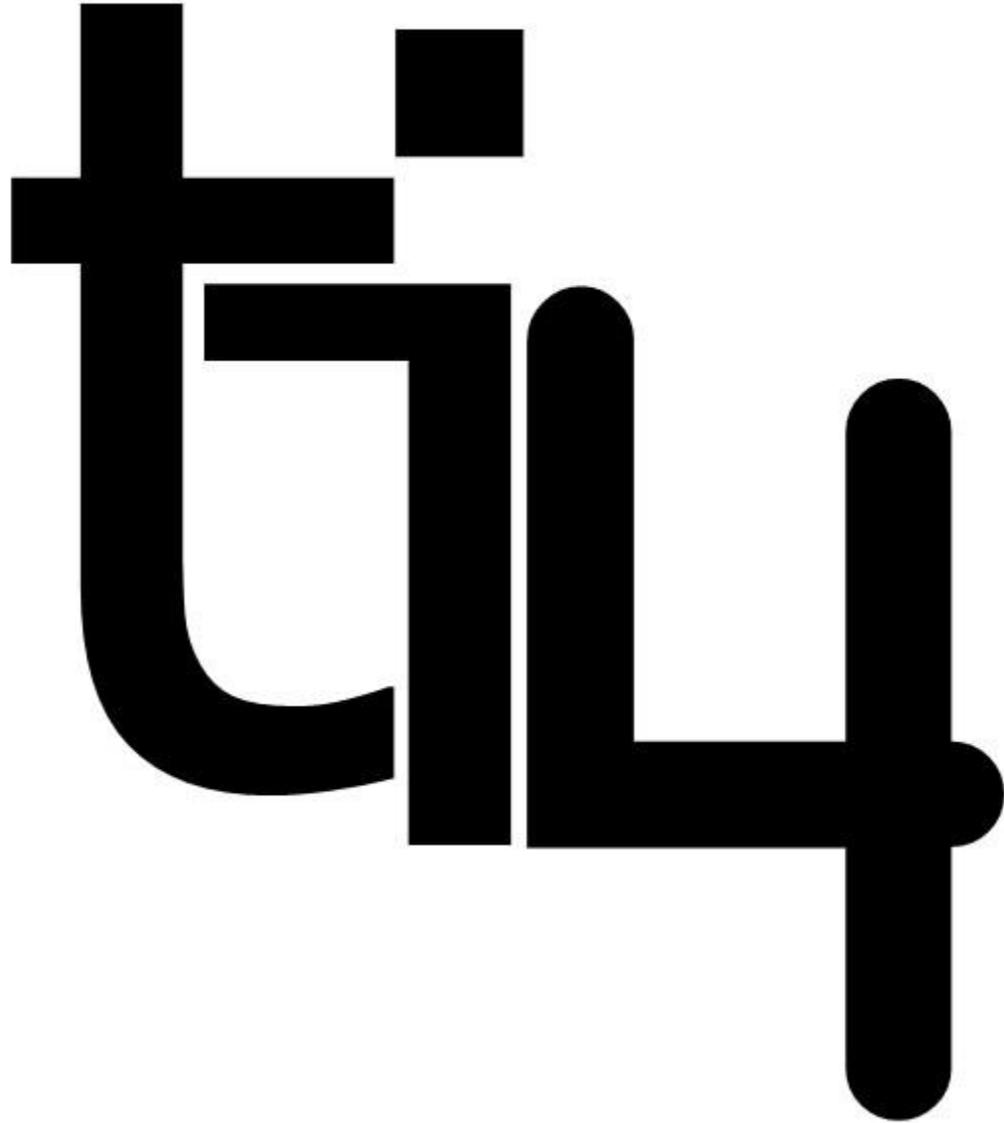


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Emerging  
Technology



A Training Product of -  
Academy ti4 | [www.ti4.org](http://www.ti4.org)



**Academy ti4**



An Initiative of -

**THE INDUSTRY FOUR**

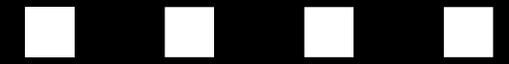
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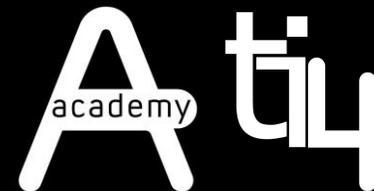
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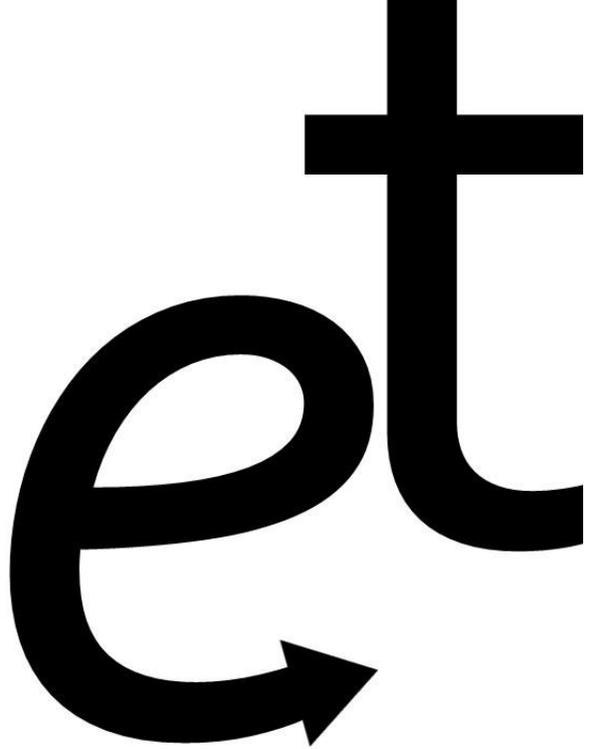
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# Emerging Technology



Learn about emerging technology's impact on industries, business markets, societies, and the economy and how it could impact the business model and operating model of the industries in the near and distant future.

# Emerging Technology

## Transition from Legacy to Emerging Technology.



■ There are a lot of trend talks happening nearby you, about the 6G, Industry 5.0, Metaverse, Quantum Computing, and many other hot topics revolving around emerging technologies. These hot topics revolving around emerging technologies are getting the attention of tech companies, business leaders, and consumers. These trend talks and hot topics represent some real as well as suspicious pictures. However, both angle of representation is reasonable and acceptable. That's why it becomes significant for the leaders and executives to recognize what is hype & reality from these trend talks and how to navigate and explore the opportunities and risks from this evolving concept of emerging technology. Technological growth includes incremental developments along with emerging & disruptive technologies. Emerging technologies are those technical innovations that represent progressive developments within a field for competitive advantage. In the history of technology, emerging technologies are modern-day advances and innovations in various fields of technology.

■ Emerging technology is a conceptual term commonly used to illustrate a new technology, but it may also relate to the continuing advancement of existing and current technology. Emerging technology can have a somewhat different meaning when used in different areas or specific to an industry vertical, such as manufacturing, life science, media, business, science, or education. Emerging technologies are technologies whose development, practical applications, or both are still mostly unrealized. These technologies are usually new but also incorporate older technologies discovering new applications and business use cases. Emerging technologies are often recognized as capable of changing the status quo. Emerging technology generally refers to technologies that are currently developing, or that are likely to be available within the next five to ten years, and is generally preserved for technologies that are generating, or are expected to generate, considerable industrial, social, and/or economic effects. Powerful new emerging technologies introduce new risks and opportunities that businesses can gain or struggle to keep up with.

# About the Course

## Course Overview & Objective



■ As an objective solution, many emerging technologies are quite powerful, and their adoption rates are accelerating in some areas such as 5G, the internet of things, and Cloud Computing. Whereas many other emerging technologies, like additive manufacturing, artificial intelligence, and blockchain, are still being explored for their potential to deliver business value at scale. As these emerging technologies go through transition & transformation, your organization can reveal the real value through the combination of emerging technologies to provide business impact through technology convergence. You need to build capabilities and competence to develop agile and dynamic ecosystems by implementing new solutions and business models.

■ The advent of emerging technology is reorganizing all industries and requires leaders to embrace new capabilities to turn new emerging technology into a new competitive advantage. Emerging tech can give an enterprise exceptional capabilities and a competitive advantage. Emerging digital technologies have generated new opportunities while creating new challenges to the industry & society. While going through the journey of this course, we will learn more about emerging technology's impact on industries, business markets, societies, and the economy. We will learn how emerging technology could impact the business model and operating model of the industries in the near and distant future.

# What will you Learn?

**After the end of this course, you will be able to define:**



- Conceptual definition & key characteristics of an Emerging Technology.
- How does an Emerging Technology change the nature of work?
- What are the current trends in Emerging Technologies?
- What are the challenges of using Emerging Technologies?
- What is the functional Impact of Emerging Technology?
- How Emerging Technology is relevant to Industry 4.0?
- What are the barriers to adopting an Emerging Technology?
- How does an Emerging Technology impact the Business Model?
- What is the Emerging Technology Development Lifecycle?

# Who should do this course?

This course is for:



- Industry Leaders & CXOs
- Emerging Business Executives
- Project & Program Managers
- Innovation and Change Agents
- Directors & Business Unit Heads
- Operational Excellence Managers
- Transformation Program Managers
- Entrepreneurs & Business Owners
- Engineering and Management Students

# Key Training Attributes

Here are the KTAs - Key Training Attributes, which will help you to enroll in this training program.



## ■ Level of Course

This course is designed for Beginner's Level.

## ■ Course Duration

This course will be completed in 4 Hours and distributed in 2 Days.

## ■ Mode of Delivery

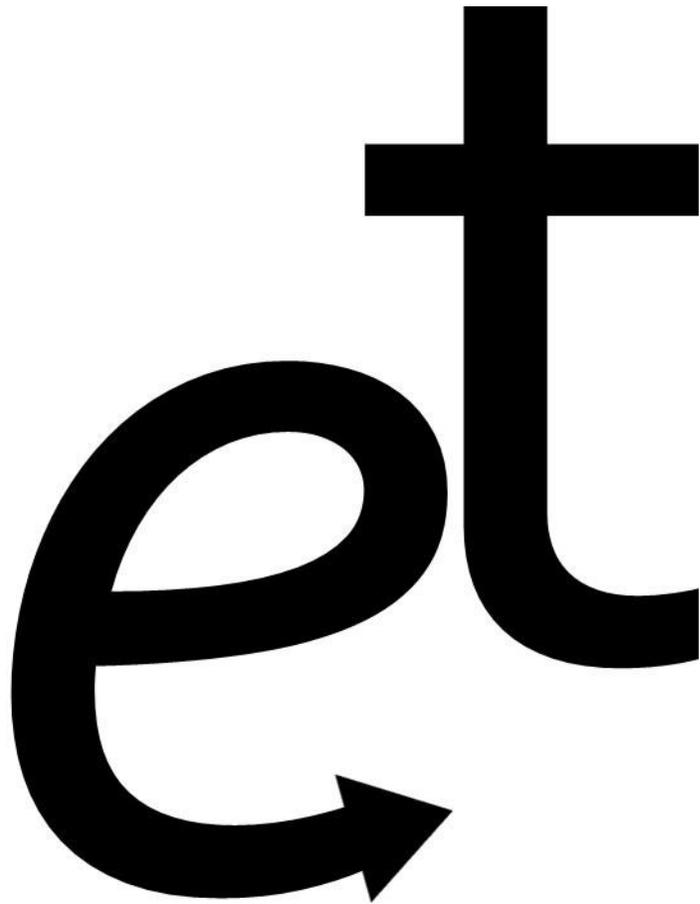
This course will be delivered via online Live sessions.

## ■ Course Curriculum

The Curriculum of this course is based on TIFFAA & ti4BOK.

# Emerging Technology

Salient features of the Course



World Class Faculty



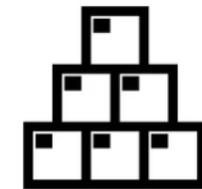
Holistic Learning Experience



Cognitive Learning Approach



Explain with Examples



Modular Course Design



Blended Course Content



Research based Curriculum



Live Interactive Class



Certificate of Achievement

# Course Curriculum

## EMERGING TECHNOLOGY

The Course Curriculum of this Training Product consists of 4 KTMs.



### ■ **Importance and Significance of Emerging Technologies.**

Explains the basic concepts of Emerging Technology.

### ■ **Emerging Technology Innovation System.**

Explains the key concepts of the Emerging Technology Lifecycle.

### ■ **Emerging Technology Influencing Factors and Selection Criteria.**

Explains the adaption and implementation of Emerging Technology.

### ■ **Emerging Technology for Specific Business Area and Use Case.**

Explains the Business Model & Use Case for Emerging Technology.

# Key Training Module - 1

Importance and Significance of Emerging Technologies.



- Strategic Initiatives for Change and Adoption of Emerging Technology
- Technology Innovation as an enabler of Competitive Advantage
- Technology Hype Cycle and Accelerating Growth
- Emerging Technology as a driver of the next wave of Innovation

# Key Training Module - 2

Emerging Technology Innovation System.



- Innovation S Curve and Transition to New Emerging Technology
- Emerging Technology Innovation Framework and Process Steps
- Technology Adoption Life Cycle and Evolution Curve
- Factors differentiating Technology Evolution from Revolution

# Key Training Module - 3

Emerging Technology Influencing Factors and Selection Criteria.



- Value Proposition for Introducing an Emerging Technology
- Accelerated adoption and Passion for pushing the technology to its limit
- Impact Evaluation on existing Enterprise Architecture and Legacy Infrastructure
- Impact Evaluation on People, Process workflow, and Competence Requirements

# Key Training Module - 4

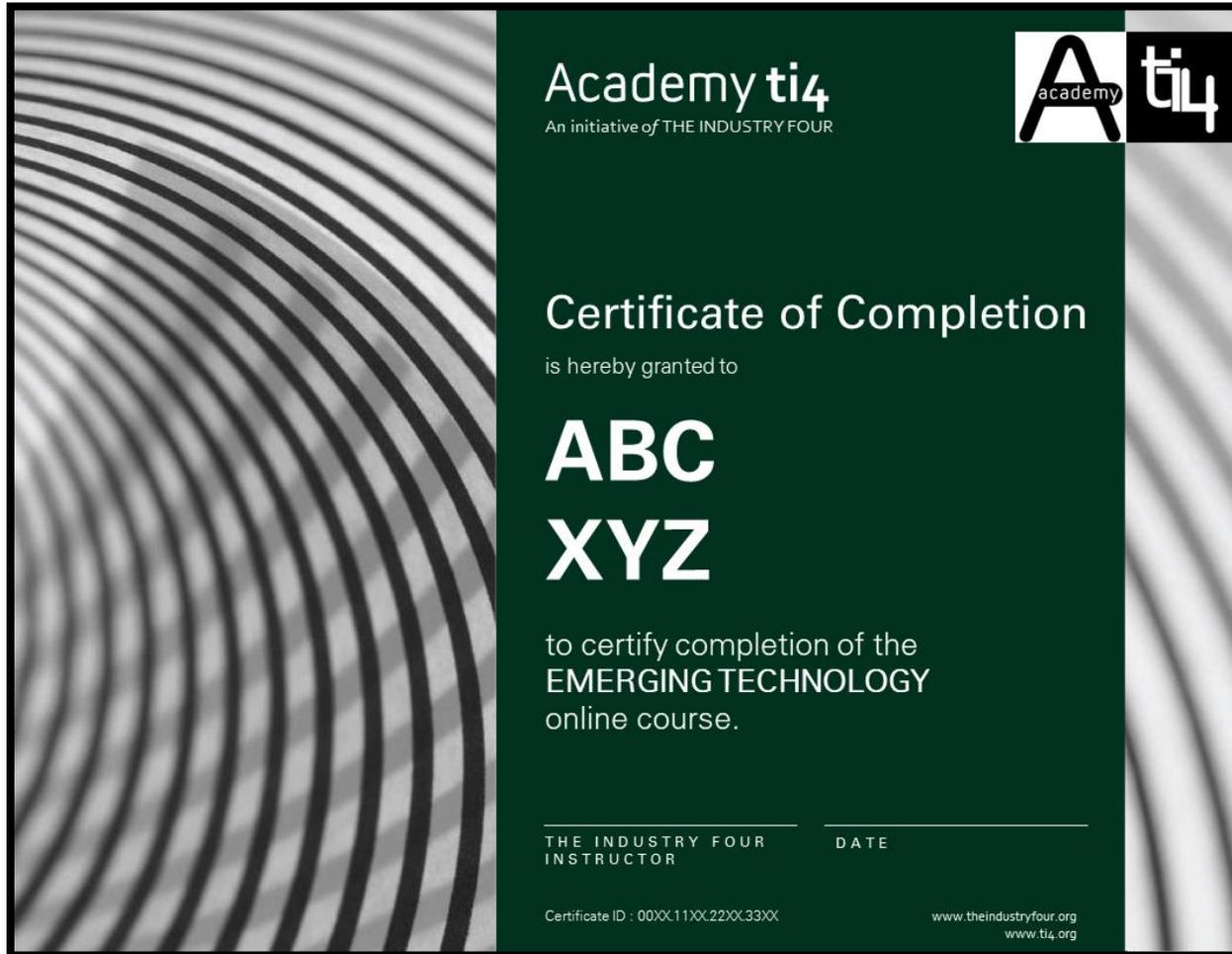
Emerging Technology for Specific Business Area and Use Case.



- Emerging Technology as a common Horizontal Component
- Emerging Technology as an Industry Vertical specific Component
- Use Case Selection and Use Case Evolution for Individual Business Function
- Integrate Emerging Technology for Business Model Innovation



# Certificate of Completion



Here is the sample Certificate of Course Completion, which you will receive after the completion of all the key training modules. You can also share your certificate in the certifications section of your LinkedIn profile and highlight it in your CV and other documents.



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# Meet the Instructor

KULDEEP KAUSHIK is  
the Principal Architect  
of our prime initiative  
THE INDUSTRY FOUR  
and is the instructor  
for this course.





# Meet the Instructor

■ Kuldeep is an engineering management professional having more than 20 years of experience to deliver complex, cross-functional, and multi-domain programs to serve the diversified global markets on varied emerging technologies and industry verticals. He has managed multi-country diversified projects and programs for more than 50 countries of the globe, while working in globally diversified geographies of Australia, the U.S.A, France, the UK, Germany, Malaysia, Armenia, Kenya, Burkina Faso, and India.

■ Kuldeep believes in the principle of continuous learning and is a qualified technology management professional (A.D. - IEIE, B.E. - ECE, M.B.A. – TM, PGD - PM, and EPG - OM). He is certified in world prominent standard frameworks and carries membership & association (in current and past) with industry-leading corporations and standardization organizations, comprising; UK5G, Microsoft, SAP, AWS, MESA, 3GPP, ETSI, Ericsson, OPC Foundation, IIOT & Digital Twin Consortium, and tmforum.

■ Kuldeep is possessing cross-functional work stream competencies covering numerous individual contributor and leadership roles. His area of interest & expertise includes but is not limited to; Innovation and Change Management, Standardization Framework, Service Engineering & Design Thinking, Business Model & Operating Model, Industry 4.0 & Factory of Future, Emerging Technology & Technology Convergence, Digital Transformation, Enterprise Architecture, Education & Competence Development, Project & Program Management, Process Engineering & Operational Excellence, Product Development, Strategy Framework and CoE - Center of Excellence Transition & Transformation Programs.

■ Kuldeep has worked with and served to world's prominent organizations at their Global Head Quarters and key locations including but are not limiting to; Hero Honda Motors (Hero Moto Corp) - India, Electrolux Kelvinator - India, SRF Limited (Business Chemicals Div.) - India, TRAI - Telecom Regulatory and Authority of India, Aricent Technologies (Capgemini Engineering) - India, Ericsson Global Service - India, Nokia Siemens Networks - India, TUV SUD South Asia, Aircom International (TEOCO), Alcatel Lucent (Nokia) - France, Alcatel Lucent (Nokia) - Malaysia, Alcatel Lucent (Nokia) - Armenia, Orange Africa - Burkina Faso, T Mobile HQ - U.S.A., Liberty Global Europe, Vodafone (Unity media) - Germany, Virgin Media O2 - UK, AT&T - U.S.A., Airtel Africa - Kenya, Ericsson HQ - U.S.A., and Vodafone Hutchison (TPG Telecom) - Australia.

# Frequently Asked Questions

## ■ What is Mode of Delivery of this Course?

■ This course will be conducted live via online classes. These live classes can be attended via the internet using a computer from any location. These online classrooms offer similar levels of interactivity as a regular classroom.

## ■ What is the Coarse Language?

■ This course will be delivered in the English Language. However, for a specific requirement from a group of students, Academic institutions, or Enterprise Customers, we have the option to deliver this course in the Hindi Language as well.

## ■ What is the Course Duration?

■ This course will be completed in 4 Hours. However, the course duration could be different for a customized course based on specific requirements from a pre-arranged group of students, an academic institution, and an enterprise customer.

## ■ What are the Pre-Requisites to Start the Course?

■ Broadband Internet Connection and a Computer System with a basic camera and mic for interactive communication. Further, you should have completed the Course Registration Process along with the specified course fee.

# FAQ – Continued . . .

## ■ What is the criteria to enroll in this course?

■ In general, there are no specific, required enrollment criteria for our courses and training programs. There is no degree requirement or general education background necessary. All learners should be able to commit to 4 to 6 hours per week during the course and have the technical resources to join our online live course. However, specific courses and training programs may require certain knowledge and skills. Learners should review any suggested prerequisites for courses and training programs they are interested in.

## ■ How your Course Curriculum is unique?

■ Our Course Curriculum is a research-based Curriculum and is derived from the Core Components of "TIFFAA - The Industry Four Framework And Architecture" and Knowledge Streams of "ti4BOK - The Industry Four Body of Knowledge". Both TIFFAA and ti4BOK are the key initiatives of our prime initiative "THE INDUSTRY FOUR".

## ■ What are the formats of Blended Course Content?

■ This course is designed and developed with the help of diversified course content, which includes Pictorial Presentations, a Collection of Quizzes, Animated elaboration of concepts, the use of examples to explain a concept, mutual communication in the form of feedback and survey, performance measure by pre-test & post-test and Live Interactive sessions. For the On-Premises option, we use the principles of Brainstorming over Broadcasting to deliver our training products.

# FAQ – Continued . . .

## ■ How do I enroll in this Course?

■ To enroll yourself in this course, you are required to fill out the registration form, given on the course page. Based on the information, you have provided in the registration form and our upcoming schedule you will be notified of the next process steps.

## ■ Will I receive any Certificate after the Completion of this Course?

■ Yes, you will receive a Certificate of Course Completion, after the completion of all the key training modules. You can share your certificate in the certifications section of your LinkedIn profile and highlight it in your CV and other documents. A sample certificate is already provided on this course page.

## ■ What is the Course Schedule?

■ Please complete your Enrollment & Registration Process to get updates on the upcoming course schedule. In addition, keep visiting our website and following us on popular social media platforms to get updates on our upcoming course schedule.

## ■ Do you deliver this course at customer's / On Premises ?

■ Yes, We provide our services at customers' physical premises/locations. For this requirement, please contact us with your detailed training requirement and schedule.

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# Emerging Technology



Visit our website  
“[www.ti4.org](http://www.ti4.org)” to  
Enroll yourself in  
this training  
program.



**LEAD**

**Learn | Evolve | Act | Disrupt**



# Academy ti4

- Academy ti4 is an initiative of THE INDUSTRY FOUR to serve the Industry & Society in the field of Education and Learning Services. Academy ti4 is one of the emerging providers of professional training, certification, and competence development.
- Academy ti4 helps industries and individuals to drive sustainability and growth to levels of excellence.
- We provide effective global training programs for individuals and institutions to support you in becoming an expert for your industry: from Industry 4.0, Digital Transformation, and Innovation Management to high-level executive leadership programs.
- Our training and certification programs cover the entire scope of fourth to forthcoming industrial revolution aspects corresponding to related frameworks and standards.
- Our online training and certification programs are provided in worldwide key time zones, and as public training programs or as customized in-house solutions.

# Teach to Transform

- Academy ti4 is our initiative to serve the industry & society in the field of Education. We are executing this initiative by developing and delivering diversified training programs. These training programs are represented as our learning services with our brand Academy ti4.
- Academy ti4 acts as a catalyst to empower a forward-thinking enterprise. Academy ti4 enables an enterprise to ride the wave of disruptive transformation by navigating accelerated innovations.
- Academy ti4 equip an enterprise to explore new business model, operating model, and maturity model. Academy ti4 acts as a guide for an enterprise to understand the connecting concepts of operational excellence, digital transformation, accelerated innovation, and autonomous operations.
- Academy ti4 cultivates the power of visual thinking to reimagine the paradigm shift of the future. Academy ti4 educates and teaches to transform an individual, industry, and institution.

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# Thank You

For any further information,  
Please contact us.

Academy ti4

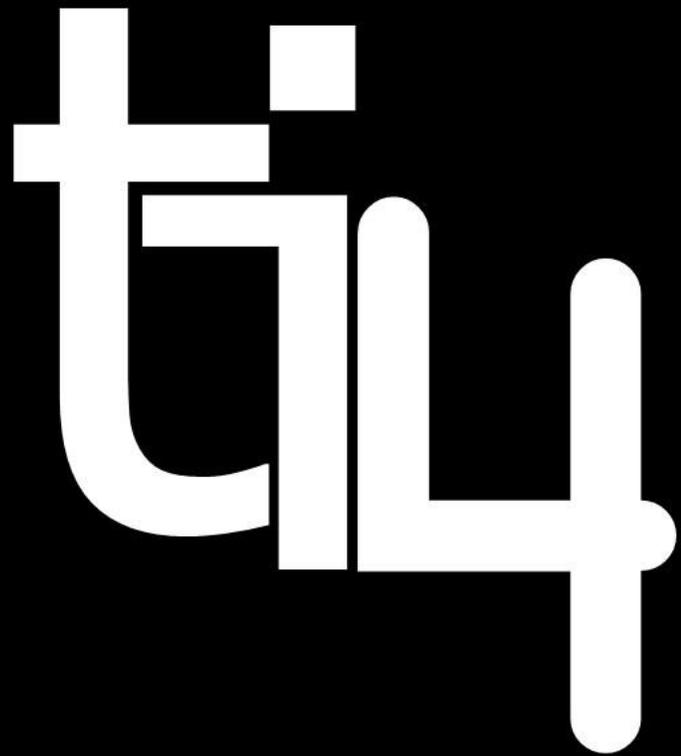
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ti4



**.THE  
INDUSTRY  
FOUR**

ti4 stands *for* The Industry **Four**



# THE INDUSTRY FOUR



■ We are THE INDUSTRY FOUR. The Industry Four is an initiative to serve the industry & society. We serve the industry & society in the field of industry 4.0 disruptive transformation. We do this by our learning & consulting services and via our novel initiatives, architecture framework, body of knowledge, research institute and integrated ecosystem.

■ The Fourth Industrial Revolution (or Industry 4.0) is the ongoing automation of traditional manufacturing and industrial practices, using emerging technology innovations and disruptive transformations. Industry 4.0 is simply the empowerment of Industry 3.0 with Digital Transformation and Technology Convergence. In this sense, it does not remain limited to just a technology evolution. It covers all the aspects of an enterprise including both business and technology. Whereas the fourth revolution is about Profit & Growth. However, the forthcoming revolution is about Sustainability & Support. It is about Supporting the Sustainability of our Planet, People, Peace, and Green Environment.

■ Industry 4.0 is happening now. However, the vision and mission of THE INDUSTRY FOUR are not limited to the current state of industry 4.0. For us Industry 4.0 is the starting point of our journey, leading towards the factory of the future or the forthcoming industrial revolution. Aligned with our vision, The Industry Four is about fourth to forthcoming industrial revolution. The Industry Four is about Industry now to Industry next. It is about the Industry and Society.

■ “ti4” stands for “The Industry Four” is the abbreviation derived from our prime initiative THE INDUSTRY FOUR. The Industry Four is the identity and epicenter of our portfolio of initiatives. The Industry Four is operating as the anchoring point of our existing initiatives and as well as for any upcoming initiatives. The Industry Four is an agile initiative that is continuously evolving along with the pulse of fourth to forthcoming industrial revolution. The Industry Four is an integrated platform for the creation of industry thought leadership in the field of the industry 4.0 disruptive transformation, emerging technology, accelerated innovation, technology convergence and future industry trends.

THE  
INDUSTRY  
FOUR



# .THE INDUSTRY FOUR

fourth to  
forthcoming

