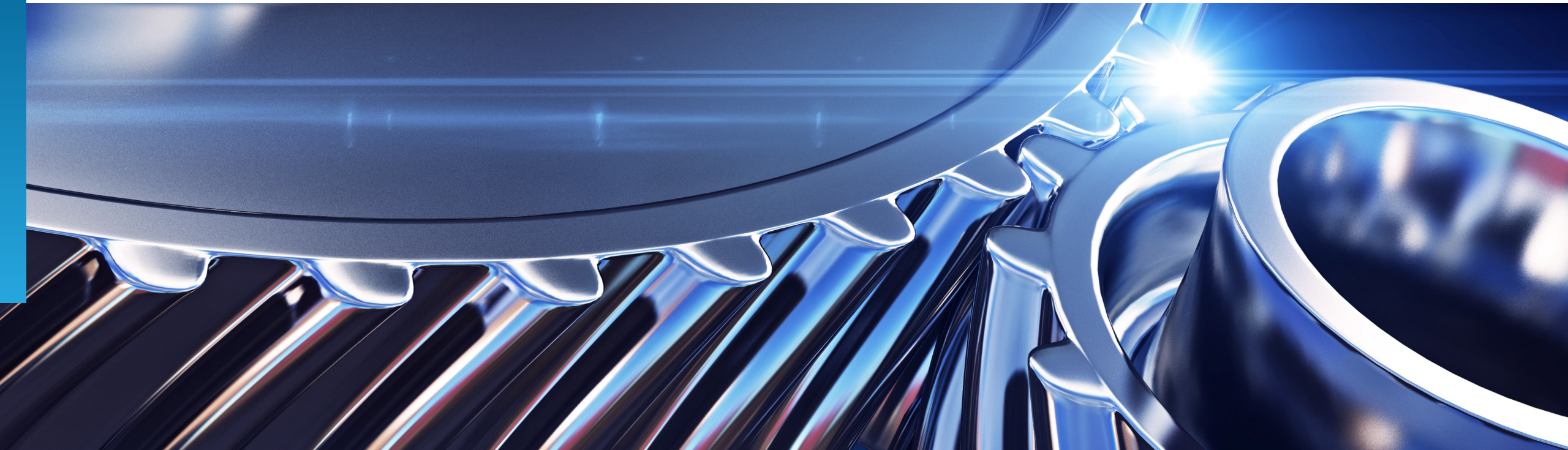


Industry 4.0 Trailblazers: Top Start-ups Impacting the Industry 4.0 Value Chain

February 2022: Complimentary Abstract / Table of Contents



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Contents

1. Introduction and overview	4
• Research methodology	5
• Background of the research	6
2. Overview of the Industry 4.0 landscape	7
• Defining Industry 4.0 and its potential benefits	8
• Key technology enablers	11
• Challenges faced by enterprises in the adoption of Industry 4.0	12
• Benefits of collaboration to enterprises and start-ups	13
• Key considerations while choosing an Industry 4.0 start-up	15
3. Industry 4.0 start-ups landscape	16
• Industry 4.0 start-up categories	17
• Geographical distribution of start-ups	22
• Industry 4.0 start-up funding trends	23
• Start-up M&A and incubation trends	25
4. Assessment of Industry 4.0 start-ups	27
• Start-up assessment methodology	28
• List of high potential start-ups	29
• High potential start-ups – leaderboards	31
5. Trailblazers – profiles	37
6. Appendix	64
• Glossary	65
• Research Calendar	66

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Background of the research

Industry 4.0 is the latest phase in the industrial revolution and a technology-intensive transformation of cyber and physical systems and their convergence. This transformation is characterized by advanced and modern themes of interconnectivity, digitalization, and automation, and is made possible through technological developments in multiple fields, including Internet of Things (IoT), additive manufacturing, cloud computing, edge computing, analytics, robotics, cybersecurity, Artificial Intelligence (AI), and Machine Learning (ML).

This evolving technology landscape has led to the birth of numerous start-ups that offer tools to facilitate enterprise adoption of new technologies and best practices. These start-ups are constantly innovating to develop out-of-the-box solutions for solving complex manufacturing challenges and Industry 4.0 use-cases that aid Original Equipment Manufacturers (OEMs), service providers, and enterprises in driving operational efficiency, cost reduction, and profit maximization.

In this research, we present an assessment of start-ups that offer Industry 4.0 solutions, primarily focusing on their innovations, growth stories, and market impact. We present an assessment and detailed profiles of the top five start-ups considered as **Trailblazers** in each of the four categories – manufacturing process optimization, worker safety and training, equipment monitoring, and supply chain optimization. We also present some noteworthy start-ups that offer solutions cutting across these categories. Each start-up profile provides a comprehensive picture of its leadership, funding and growth, technology capabilities, market recognition, partnership ecosystem, and innovation. The assessment is based on Everest Group's rich expertise and database knowledge of the Industry 4.0 space coupled with secondary research and analysis.

Scope of this report



Geography
World



Services
Industry 4.0

We analyzed 214 start-ups in the Industry 4.0 space to shortlist the top 26 trailblazers; the start-ups were assessed based on their leadership & talent, technology capability, partnership ecosystem, market success, and the confidence demonstrated by investors

Key Industry 4.0 start-up categories

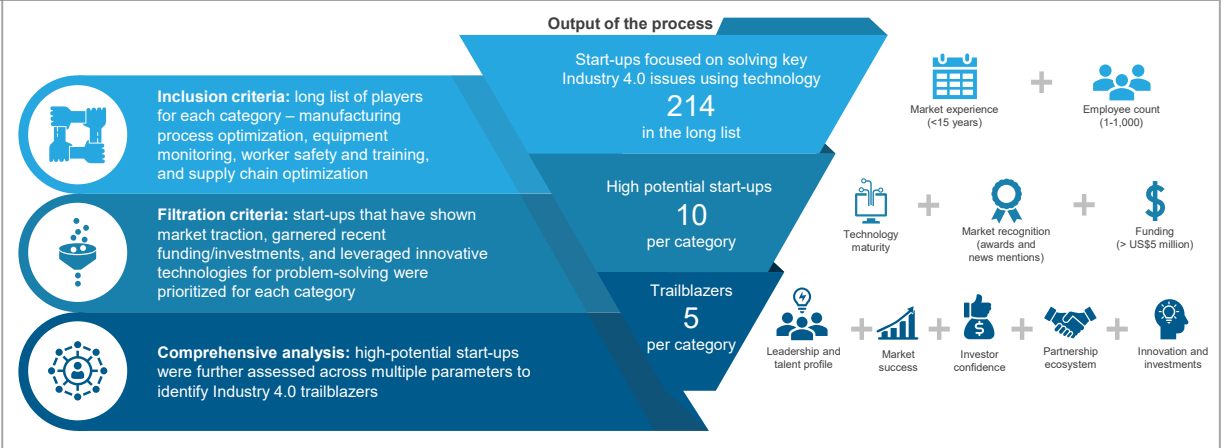
Supply chain optimization
Start-ups providing solutions, products, and platforms for maximizing the efficiency of procurement, logistics, and warehousing

Manufacturing process optimization
Start-ups providing solutions, products, and platforms that facilitate the optimization of manufacturing and shop floor processes

Worker safety and training
Start-ups providing solutions, products, and platforms to enable a connected workforce, worker safety, and worker training

Equipment monitoring
Start-ups providing solutions, products, and platforms for monitoring the condition of assets and industrial equipment

Process used to identify the top five trailblazers under each category



Comprehensive analysis framework – key parameters

Leadership & talent	Funding and growth	Market recognition	Partnership ecosystem	Innovation and investments
<ul style="list-style-type: none"> Leadership team: assessment of the leadership on parameters such as background, market recognition & influence, and experience Delivery team: talent profile of the delivery team (consulting roles, technical expertise, certifications, etc.) 	<ul style="list-style-type: none"> Investor confidence: prioritized firms based on investment patterns, ownership, and funding by PE firms/investors Growth strategy: prioritized firms based on revenue growth indicators such as hiring patterns, customer growth rate, and statements by executives around growth vision and strategy Revenue: firms with significant size (between US\$10-200 million) were prioritized 	<ul style="list-style-type: none"> Market recognition: awards/recognitions received from analyst firms, industry associations, or leading publications Industry 4.0 clientele: firms with named Industry 4.0 client logos were prioritized 	<p>Breadth of partnership: prioritized firms with a strong partner ecosystem; considered an array of partnerships – with SIs, industry/enterprise platforms</p>	<ul style="list-style-type: none"> Innovation activities: case studies and instances of successful client deliveries; thought leadership IP and technology solutions/frameworks Investment activities: mergers & acquisitions; innovation labs, and Centers of Excellence (CoEs)

Start-ups identified as high potential start-ups across the four Industry 4.0 categories

3dSignals, 3YOURMIND, ARUNDO, ATHEER, ATTABOTICS, Carbon, CloudNC, CORROSION RADAR, ELMODIS, FarEye, Flexciton, FLYABILITY, FOURKITES, German Bionic, Globality, GOARC, GreyOrange, GUARDHAT, INFINITE UPTIME, INXPECT, KINETIC, LANDING AI, LOCUS, LOGINEXT, machinemetrics, MAKOSAFE, Markforged, OSPERITY, PROGLOVE, project44, realwear, scoutbee, seeBO, SHIPPEO, SIGHT MACHINE, sparkcognition, TALPA SOLUTIONS, triax, UPTAKE, VENTION

Research calendar

Engineering services

■ Published
 ■ Planned
 ■ Current release

Flagship reports

Release date

A Transformational Leap in Cyber-physical Convergence – Industry 4.0 State of the Market Report 2021	April 2021
Exploring the Future of Mobility: Autonomous, Connected, Electric, and Shared (ACES) Mobility Automotive Engineering Services PEAK Matrix® Assessment 2021	August 2021
Envisioning the Connected Future: 5G Engineering Services PEAK Matrix® Assessment 2021	September 2021
Driving Next-generation Mobility Experiences: ACES Mobility Automotive Engineering Services State of the Market Report 2022	December 2021
Digital Product Engineering Services PEAK Matrix® Assessment 2022	Q1 2022
Envisioning the Connected Future – 5G Engineering Services State of the Market Report 2022	Q1 2022
Industry 4.0 Services PEAK Matrix® Assessment 2022	Q2 2022
Software Product Engineering Services PEAK Matrix® Assessment 2022	Q2 2022

Thematic reports

Release date

Extended Reality and its Application Across Industries	August 2021
Leading the Pack: Trends for the Top 200 Engineering Research & Development (ER&D) Enterprises 2021	September 2021
Engineering R&D (ER&D) in 2022: Key Macroeconomic and Technological Trends that Will Shape the ER&D Industry in 2022	February 2022
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Environmental, Social, and Governance (ESG) for the Engineering World	Q1 2022
Engineering Services Enterprise Pulse: Are Engineering Enterprises Truly Happy with Their Service Providers?	Q2 2022
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