



Everest Group Sustainable Engineering Services PEAK Matrix® Assessment 2025

Focus on Capgemini
January 2025



Introduction

Sustainability has emerged as a critical concern for engineering enterprises due to a confluence of factors. The growing awareness of climate change, resource depletion, and pollution has made reducing environmental footprints a business imperative. Governments worldwide are enacting stricter environmental regulations, forcing companies to adopt sustainable practices to comply. Moreover, consumers are increasingly conscious of sustainability, favoring companies that prioritize it.

The perception of sustainability within engineering enterprises has evolved significantly. Initially viewed as a good-to-have initiative, sustainability has become a necessity due to shifting environmental and regulatory landscapes. In the wake of this resurgence, companies are integrating sustainability into their core business strategies, recognizing its potential for innovation, efficiency, and risk mitigation. This new imperative can be complex and difficult to navigate at times, necessitating support from expert providers.

In the research, we present an assessment and detailed profiles of 17 sustainable engineering services providers featured on the [Sustainable Engineering Services PEAK Matrix® Assessment 2025](#). Each provider profile provides a comprehensive picture of its service focus, key Intellectual Property (IP) / solutions, domain investments, and case studies. The assessment is based on Everest Group's annual RFI process for the calendar year 2024, interactions with leading sustainability enablement technology and service providers, client reference checks, and an ongoing analysis of the sustainable engineering services market.

The full report includes the profiles of the following 17 leading engineering service providers featured on the Sustainable Engineering Services PEAK Matrix:

- **Leaders:** Capgemini, HCL Tech, LTTS, TCS
- **Major Contenders:** Accenture, Akkodis, Alten, Cognizant, Cyient, Hitachi Digital Services, Infosys, NTT DATA, Tech Mahindra, UST, Wipro
- **Aspirants:** GS Lab | GAVS, Onward Technologies

Scope of this report

Geography: global

Industry: 17 leading engineering service providers

Services: sustainability engineering services

Sustainable engineering services PEAK Matrix® characteristics

Leaders

Accenture, Capgemini, HCLTech, LTTS, and TCS

- The Leaders segment consists of firms that have demonstrated robust capabilities in delivering a comprehensive array of sustainable engineering services spanning product engineering, process engineering, operations and supply chain, as well as manufacturing and maintenance
- Leaders have effectively broadened their reach and expertise through strategic partnerships and collaborations with diverse entities including technology vendors and industry providers. They prioritize investments in innovation centers, laboratories, IP development, and CoEs to advance sustainable practices effectively. These investments are targeting areas such as alternate sources of energy, sustainable packaging, and construction materials
- Leaders maintain a well-balanced client portfolio bolstered by a strong global presence, engaging with organizations of various sizes, and enhancing their market adaptability and responsiveness

Major Contenders

Akkodis, Alten, Cognizant, Cyient, Hitachi Digital Services, Infosys, NTT DATA, Tech Mahindra, UST and Wipro

- Major Contenders are proactively investing in talent development, establishing labs and CoEs, and creating IP and solutions in key areas such as decarbonization, carbon footprint measurement, life cycle assessments, and green data platforms. While these providers have made significant investments in building sustainable engineering expertise, their service portfolio is not as extensive as that of Leaders (in terms of presence across the value chain elements, geographies, or service functions)
- Major Contenders have strong partnerships in the sustainable engineering segment but the coverage of these partnerships/alliances across the value chain is yet to mature at par with the Leaders

Aspirants

GS Lab | GAVS and Onward Technologies

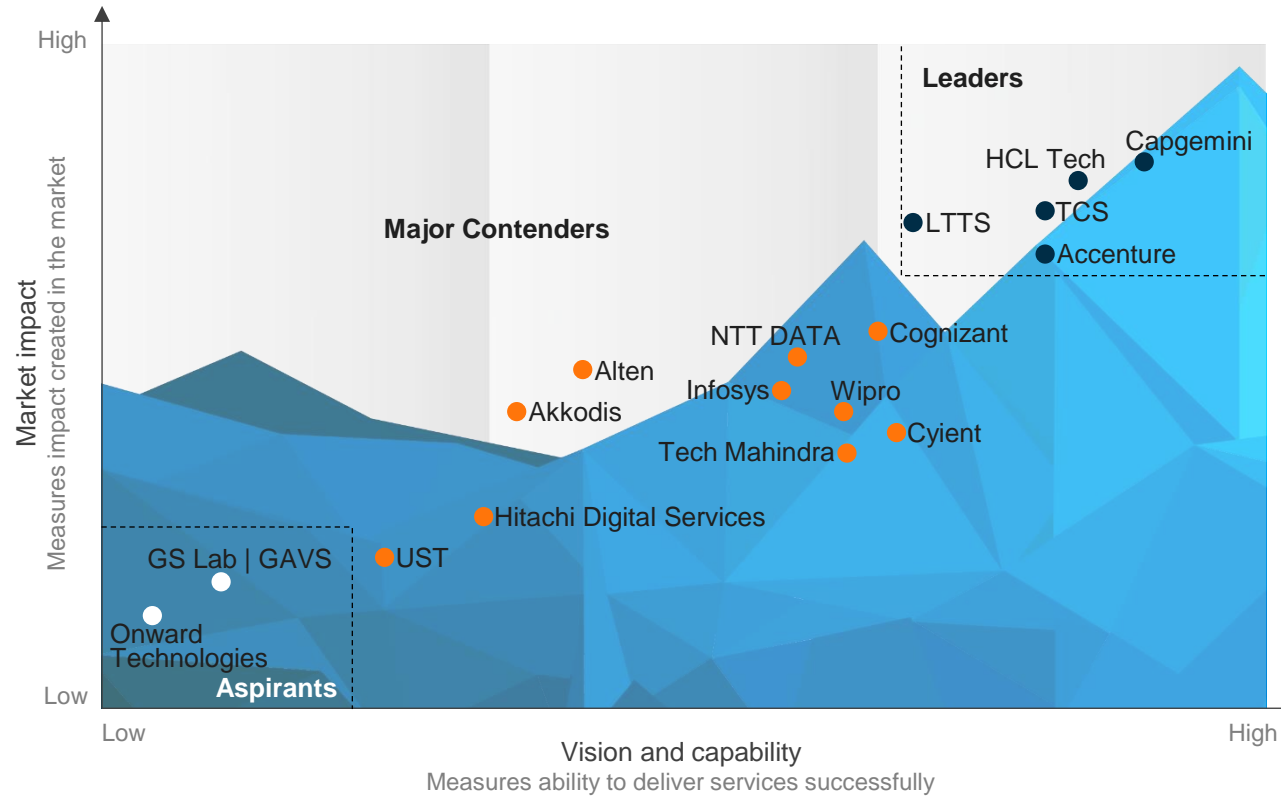
- Aspirants offer capabilities mostly in the low-hanging areas such as ESG data management, reporting, route optimization, predictive analytics, and asset monitoring and have a limited portfolio of services and offerings that are mature and in-depth
- Although Aspirants are actively training and upskilling their engineering talent, their investments in labs, CoEs, partnerships, and IP are limited

Everest Group PEAK Matrix®

Sustainable Engineering Services PEAK Matrix® Assessment 2025 | Capgemini is positioned as a Leader

Everest Group Sustainable Engineering Services PEAK Matrix® Assessment 2025¹

- Leaders
- Major Contenders
- Aspirants



¹ Assessment for Accenture, Alten, Akkodis, GS Lab | GAVS, Onward Technologies excludes provider inputs and are based on Everest Group's proprietary Transaction Intelligence (TI) database, provider public disclosures, and Everest Group interactions with buyers
 Note: Assessment for Infosys includes partial inputs from the service providers and is based on Everest Group's estimates that leverage Everest Group's proprietary data assets, service providers' public disclosures, and interaction with buyers
 Source: Everest Group (2025)

Capgemini profile (page 1 of 6)

Overview

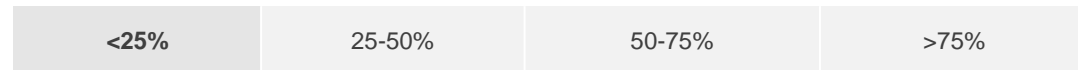
Vision and strategy

Companies are bracing for major shifts toward new sustainable products, while at the same time transforming their operations, which comes with deep engineering challenges. Sustainable engineering must simultaneously navigate complexity, determine decarbonization levers and future scenarios, and integrate and expand the use of climate technology across products and operations, all at scale, while phasing out old products and systems. In doing so, transition to new ecosystems of value.

Sustainable engineering services revenue (CY2023)

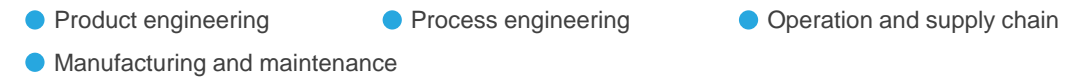


YoY growth rate in sustainable engineering services revenue (CY2022-23)

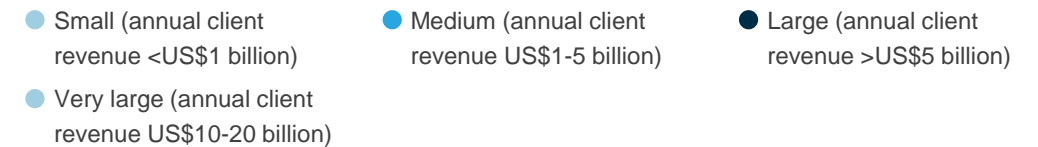


● N/A (0%) ● Low (1-20%) ● Medium (21-40%) ● High (>40%)

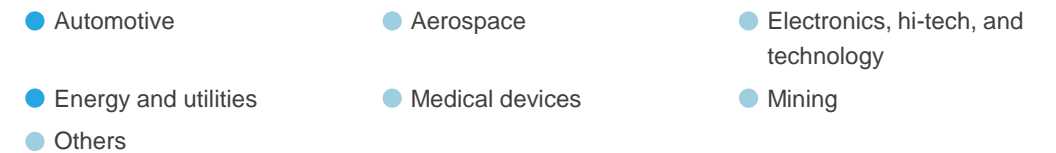
Revenue by sustainable engineering services value chain



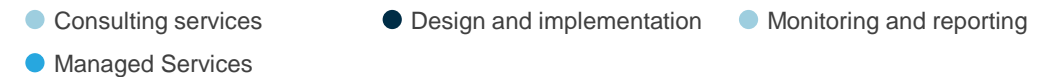
Revenue by sustainable engineering services buyer size



Revenue by sustainable engineering services by industry



Revenue by sustainable engineering services functions



Revenue by sustainable engineering services by geographies



Capgemini profile (page 2 of 6)

Case studies

CASE STUDY 1

Helped Ascendance Flight Technologies in designing a new generation of compact, greener, and agile aircraft.

Business challenge

The client was looking to build a hybrid-electric, vertical take-off and landing aircraft to sustainably reduce the environmental footprint of new generations of aircraft.

Solution and impact

Capgemini Engineering developed and accelerated the client's programs by providing systems engineering, V&V, aerodynamics, electric flight control systems, structural design, power systems expertise and battery development, and avionics. Additionally, Capgemini contributed to research on fuel cell and hydrogen architecture, autonomous flight, and cockpit design. The STERNA demonstrator bench was developed in six months, with hybridization validation completed in under 12 months. The Atea demonstrator design passed Purchase of Development Rights (PDR), reducing in-flight emissions by 50-80% and aligning with air-worthiness standards for Permit to Fly and Design Organization Approval.

CASE STUDY 2

Supported the assessment and monitoring of a chemical company's entire product portfolio CO2 footprint

Business challenge

The client wanted to calculate the Product Carbon Footprint (PCF) of its portfolio of over 70,000 products to reduce its carbon footprint and gain a competitive advantage manufacturing.

Solution and impact

Capgemini developed a solution to calculate the carbon emissions of each customer product using both top-down and bottom-up (transaction data) PCF calculation methods. The solution provided visual insights through standardized and custom reports, along with certifiable documentation based on ISO 14067 and Together for Sustainability standards. Capgemini implemented a custom architecture using Azure and Databricks, delivering PCF for the entire product portfolio, enabling client customers to integrate the data into their own calculations, and supported the certification process for the calculation method.

Capgemini profile (page 3 of 6)

Solutions

[REPRESENTATIVE LIST] [NOT EXHAUSTIVE]

Proprietary solutions

Solution	Details
Sustainable Product Development	Solutions, methods and tools to embed sustainability measures into product and systems engineering disciplines enabling balanced and informed decisions by assessing sustainability, cost, and technical performance covering the entire product life cycle. Key elements in this approach are product environmental footprint assessments (covering multiple sustainability categories), digital continuity, circularity measures (material), and compliance checks. They use data-driven innovation methodologies for more sustainable product formulation, materials, and products, which includes AI and Machine Learning (ML) to augment classical engineering and simulation approaches.
Operations Efficiency	Solutions to optimize resource usage in energy-intensive industries and identification, assessment, and transformation of operations toward sustainable interoperable, connected systems at scale. Including sustainable supply chain transformation, manufacturing digitization, energy and water consumption monitoring and optimization, and hydrogen integration.
Clean Mobility	Accelerators for the development and adoption of clean technology into mobility ecosystems and ramp-up of decarbonized ground, air, and rail mobility solutions. Includes automotive electrification services (EV and battery systems engineering, smart battery engineering and integration, and battery manufacturing), next-generation and sustainable aerospace and defense (sustainable aviation, autonomous systems and drones, and future air mobility), and hydrogen for decarbonized mobility offers.
Decarbonized Power Supply	Services and solutions for OEMs, owner operators and utilities to develop infrastructure and smart distribution systems for renewable energies. Including wind and solar engineering transformation, smart infrastructure services (next-generation AMi, network instrumentation, grid operations, and data-driven grid), new nuclear services, and fusion, and decarbonized hydrogen well-to-tank services.

Capgemini profile (page 4 of 6)

Capabilities

[REPRESENTATIVE LIST] [NOT EXHAUSTIVE]

Investment

Investment	Details
Business for planet modeling	Developed a platform that creates a strategic twin model of a client’s transition scenarios. It combines an open-source simulation platform (SOS Trades) that is agnostic, auditable, and designed with the concept of co-opetition in mind, with a global open-source integrated assessment model framework (WITNESS) that is flexible and transparent.
Operations Efficiency	Invested in enterprise-wide architecture for energy efficiency that measures and predicts metrics including indoor air quality, energy intensity, water intensity, health of critical assets, critical operations, renewable energy generation, and the overall performance across all energy assets, enabling organizations to reduce the energy consumption of their buildings by up to 30%. Capgemini served as client zero in order to satisfy its own sustainability commitments, and it is now being implemented with clients.
Clean Mobility	Acquired Unity's Digital Twin Professional Services arm to accelerate the iteration and implementation of the market leading real-time 3D (RT3D) visualization software for the industrial application of digital twins.
Decarbonized Power Supply	Built a platform with AWS to enhance the lifetime of aircrafts parts using AI/ML for preventative and predictive maintenance, thus extending their lifetime and avoiding waste or replacement.

Capgemini profile (page 5 of 6)

Capabilities


[REPRESENTATIVE LIST] [NOT EXHAUSTIVE]

Partnership










Partner	Details
Liquid AI	Developed a platform that creates a strategic twin model of a client’s transition scenarios. It combines an open-source simulation platform (SOS Trades) that is agnostic, auditable, and designed with the concept of co-opetition in mind, with a global open-source integrated assessment model framework (WITNESS) that is flexible and transparent.
Schneider Electric	Partnership to offer smart building management systems for substantial energy savings, up to 15-30% or more, as demonstrated by studies and real-world cases, highlighting significant potential for efficiency improvements.
Siemens	Partnership to enable digital continuity for sustainable product engineering processes from requirements to final product design; Siemens tools provide the ability to connect Product Lifecycle Management (PLM) data and assess sustainability KPIs as well as costs enabling conscious decision-making.
TU Munich	Partnered to develop AI-based parameter simulation for lithium-ion battery systems by means of accelerating and optimizing battery design to improve product performance
ETH Zürich	Partnership to accelerate the development of multi-objectives, multi-criteria methods and tools to design multi-material structures manufactured in Application Lifecycle Management (ALM) including environmental and social Life Cycle Assessment (LCA)
Georgia Tech University	Research program to define and design the future of engineering and Research and Development (R&D) processes within the enterprise through the development of digital twin technology
Clean Aviation	An associated member of the Clean Aviation Joint Undertaking, the European Union’s leading research and innovation program, to take aviation toward a sustainable and climate-neutral future

Capgemini profile (page 6 of 6)

Everest Group assessment – Leader

Measure of capability:  Low  High

Market impact

Market adoption	Portfolio mix	Value delivered	Overall	Vision and strategy	Technology capability	Services capability	Innovation and investments	Overall
								

Strengths

- Capgemini has a comprehensive portfolio of sustainable engineering offerings spanning sustainable product and process engineering, reengineering for efficiency, sustainable operations, and supply chain
- It has built several IP/frameworks/solutions for smart battery engineering, digital manufacturing, and for deploying alternative sources of energy
- It partners with a broad spectrum of entities including hyperscalers, automotive providers, and big tech providers
- Referenced clients have appreciated Capgemini’s domain knowledge, technical expertise, and talent management capabilities, especially in the eco-design and circular economy transition segments

Limitations

- Capgemini’s client base is heavily skewed toward Europe and North America, with a limited portfolio in APAC, LATAM, and MEA regions
- Clients have mentioned that Capgemini can improve its capabilities in the social life cycle assessment domain

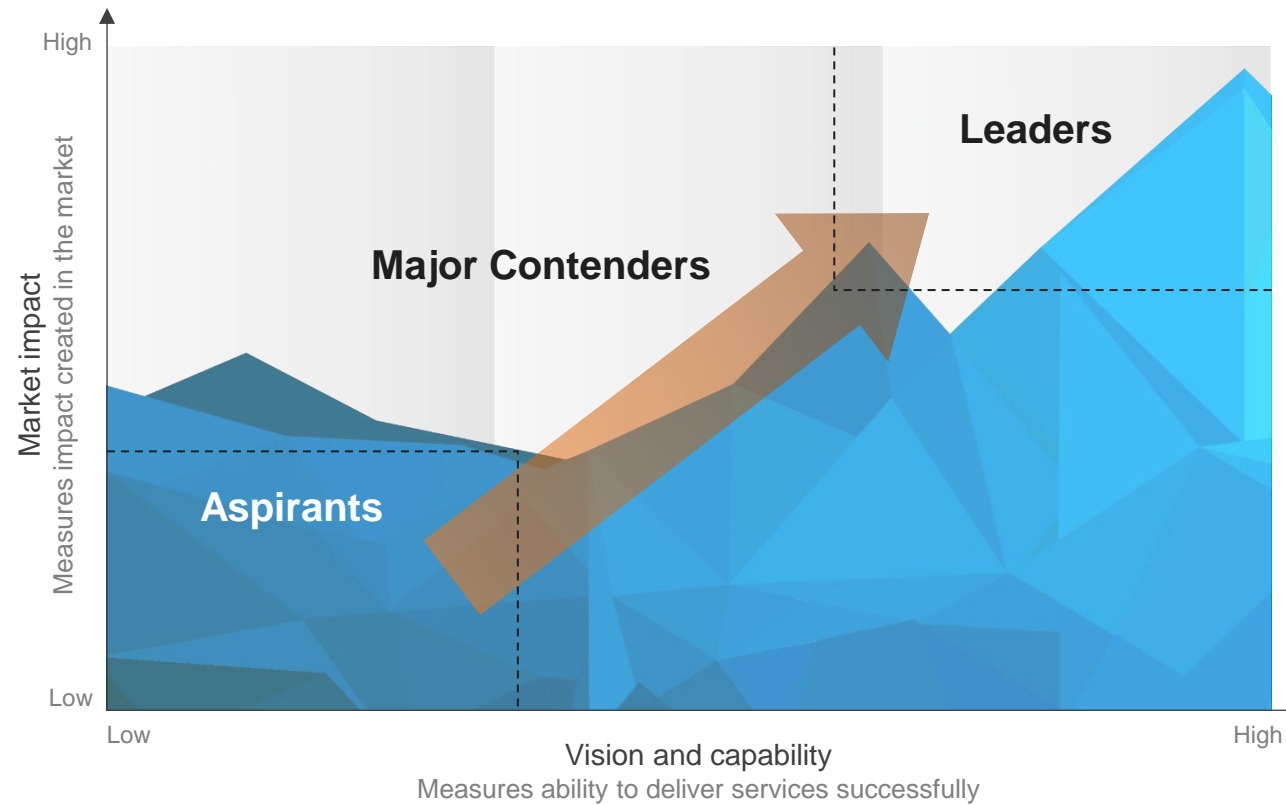
Appendix

PEAK Matrix® framework

FAQs

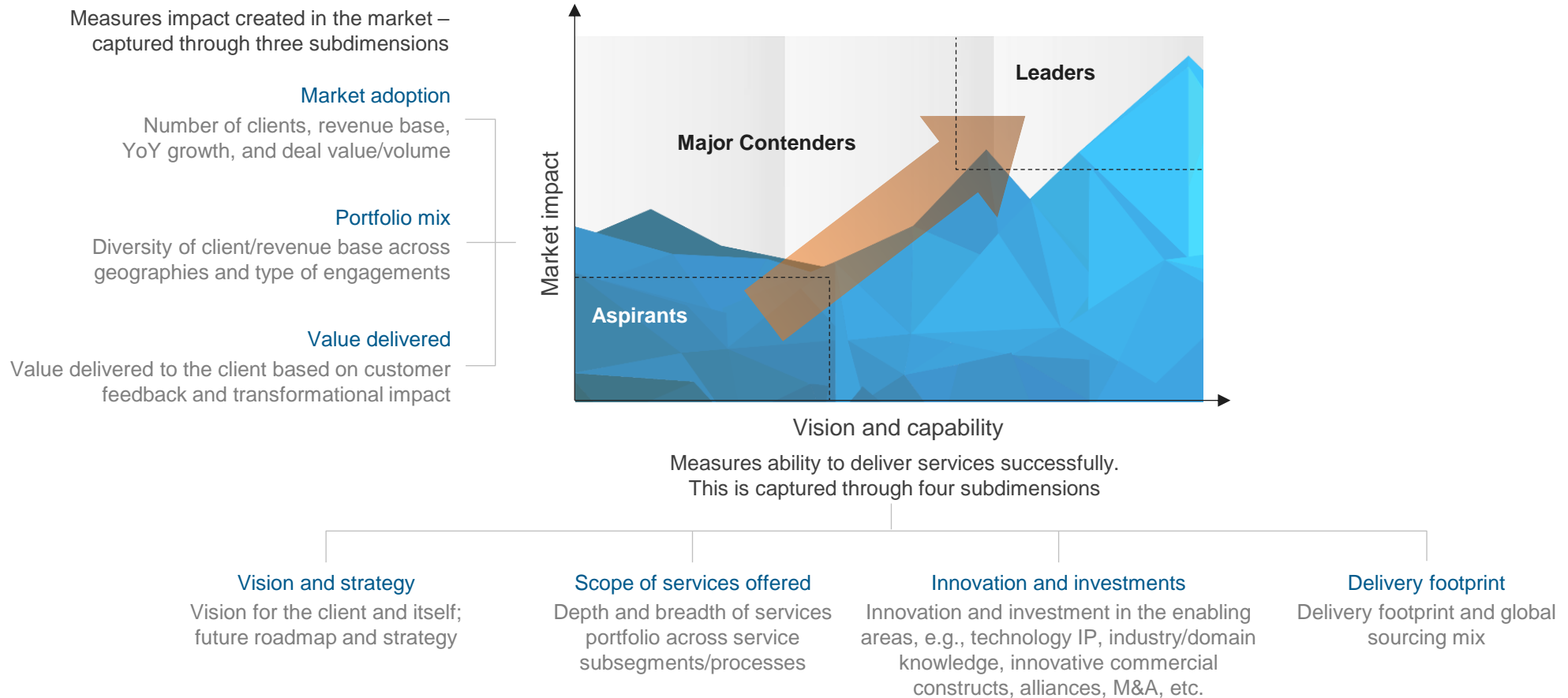
Everest Group PEAK Matrix® is a proprietary framework for assessment of market impact and vision and capability

Everest Group PEAK Matrix



Please click [Everest Group PEAK Matrix®](#) for more information

Services PEAK Matrix® evaluation dimensions



FAQs

Q: Does the PEAK Matrix® assessment incorporate any subjective criteria?

A: Everest Group's PEAK Matrix assessment takes an unbiased and fact-based approach that leverages provider / technology vendor RFIs and Everest Group's proprietary databases containing providers' deals and operational capability information. In addition, we validate/fine-tune these results based on our market experience, buyer interaction, and provider/vendor briefings.

Q: Is being a Major Contender or Aspirant on the PEAK Matrix, an unfavorable outcome?

A: No. The PEAK Matrix highlights and positions only the best-in-class providers / technology vendors in a particular space. There are a number of providers from the broader universe that are assessed and do not make it to the PEAK Matrix at all. Therefore, being represented on the PEAK Matrix is itself a favorable recognition.

Q: What other aspects of the PEAK Matrix assessment are relevant to buyers and providers other than the PEAK Matrix positioning?

A: A PEAK Matrix positioning is only one aspect of Everest Group's overall assessment. In addition to assigning a Leader, Major Contender, or Aspirant label, Everest Group highlights the distinctive capabilities and unique attributes of all the providers assessed on the PEAK Matrix. The detailed metric-level assessment and associated commentary are helpful for buyers in selecting providers/vendors for their specific requirements. They also help providers/vendors demonstrate their strengths in specific areas.

Q: What are the incentives for buyers and providers to participate/provide input to PEAK Matrix research?

A: Enterprise participants receive summary of key findings from the PEAK Matrix assessment

For providers

- The RFI process is a vital way to help us keep current on capabilities; it forms the basis for our database – without participation, it is difficult to effectively match capabilities to buyer inquiries
- In addition, it helps the provider/vendor organization gain brand visibility through being included in our research reports

Q: What is the process for a provider / technology vendor to leverage its PEAK Matrix positioning?

A: Providers/vendors can use their PEAK Matrix positioning or Star Performer rating in multiple ways including:

- Issue a press release declaring positioning; see our citation policies
- Purchase a customized PEAK Matrix profile for circulation with clients, prospects, etc. The package includes the profile as well as quotes from Everest Group analysts, which can be used in PR
- Use PEAK Matrix badges for branding across communications (e-mail signatures, marketing brochures, credential packs, client presentations, etc.)

The provider must obtain the requisite licensing and distribution rights for the above activities through an agreement with Everest Group; please contact your CD or contact us

Q: Does the PEAK Matrix evaluation criteria change over a period of time?

A: PEAK Matrix assessments are designed to serve enterprises' current and future needs. Given the dynamic nature of the global services market and rampant disruption, the assessment criteria are realigned as and when needed to reflect the current market reality and to serve enterprises' future expectations.

Stay connected

Dallas (Headquarters)

info@everestgrp.com

+1-214-451-3000

Bangalore

india@everestgrp.com

+91-80-61463500

Delhi

india@everestgrp.com

+91-124-496-1000

London

unitedkingdom@everestgrp.com

+44-207-129-1318

Toronto

canada@everestgrp.com

+1-214-451-3000

Website

everestgrp.com

Blog

everestgrp.com/blog

Follow us on



Everest Group is a leading research firm helping business leaders make confident decisions. We guide clients through today's market challenges and strengthen their strategies by applying contextualized problem-solving to their unique situations. This drives maximized operational and financial performance and transformative experiences. Our deep expertise and tenacious research focused on technology, business processes, and engineering through the lenses of talent, sustainability, and sourcing delivers precise and action-oriented guidance. Find further details and in-depth content at www.everestgrp.com.

Notice and disclaimers

Important information. Please review this notice carefully and in its entirety. Through your access, you agree to Everest Group's terms of use.

Everest Group's Terms of Use, available at www.everestgrp.com/terms-of-use/, is hereby incorporated by reference as if fully reproduced herein. Parts of these terms are pasted below for convenience; please refer to the link above for the full version of the Terms of Use.

Everest Group is not registered as an investment adviser or research analyst with the U.S. Securities and Exchange Commission, the Financial Industry Regulatory Authority (FINRA), or any state or foreign securities regulatory authority. For the avoidance of doubt, Everest Group is not providing any advice concerning securities as defined by the law or any regulatory entity or an analysis of equity securities as defined by the law or any regulatory entity.

All Everest Group Products and/or Services are for informational purposes only and are provided "as is" without any warranty of any kind. You understand and expressly agree that you assume the entire risk as to your use and any reliance upon any Product or Service. Everest Group is not a legal, tax, financial, or investment advisor, and nothing provided by Everest Group is legal, tax, financial, or investment advice. Nothing Everest Group provides is an offer to sell or a solicitation of an offer to purchase any securities or instruments from any entity. Nothing from Everest Group may be used or relied upon in evaluating the merits of any investment. Do not base any investment decisions, in whole or part, on anything provided by Everest Group.

Products and/or Services represent research opinions or viewpoints, not representations or statements of fact. Accessing, using, or receiving a grant of access to an Everest Group Product and/or Service does not constitute any recommendation by Everest Group that recipient (1) take any action or refrain from taking any action or (2) enter into a particular transaction. Nothing from Everest Group will be relied upon or interpreted as a promise or representation as to past, present, or future performance of a business or a market. The information contained in any Everest Group Product and/or Service is as of the date prepared, and Everest Group has no duty or obligation to update or revise the information or documentation. Everest Group may have obtained information that appears in its Products and/or Services from the parties mentioned therein, public sources, or third-party sources, including information related to financials, estimates, and/or forecasts. Everest Group has not audited such information and assumes no responsibility for independently verifying such information as Everest Group has relied on such information being complete and accurate in all respects. Note, companies mentioned in Products and/or Services may be customers of Everest Group or have interacted with Everest Group in some other way, including, without limitation, participating in Everest Group research activities.