Everest Group®

# Everest Group Software-defined Vehicle (SDV) Engineering Services PEAK Matrix® Assessment 2025

Focus on HCLTech

January 2026

PEAK MATRIX®

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# Introduction

SDVs are redefining the automotive industry, increasing focus on software-centric innovation. By decoupling hardware from software and enabling continuous upgrades through Over-the-air (OTA) updates, SDVs are transforming vehicles into intelligent, connected, and adaptive mobility platforms. In 2025, OEMs and technology providers are accelerating SDV adoption by focusing on centralized E/E architectures, cloud-native development, and AI-driven features that enhance safety, personalization, and efficiency.

Service providers are playing a pivotal role in enabling this transformation through end-to-end SDV capabilities spanning embedded software, middleware, cloud integration and life cycle management. They are aligning closely with OEMs, tier-1 suppliers, and semiconductor partners to co-create reusable platforms, digital twins, and AI-based validation frameworks.

To meet evolving market needs, providers are investing in dedicated CoEs, scalable delivery models, and proprietary IP accelerators that address various SDV subdomains.

They are also expanding collaborations with hyperscalers and ecosystem partners to support next-generation architectures and compliance standards, including Adaptive automotive open system architecture (AUTOSAR) and scalable open architecture for embedded edge (SOAFEE)

This edition of Everest Group's Software-defined Vehicle (SDV) Engineering Services PEAK Matrix® Assessment 2025 evaluates leading providers on their vision, capabilities, and market impact.

The analysis is based on RFI submissions, client discussions, and ongoing research into SDV engineering trends, reflecting how service providers are enabling the shift toward software-defined mobility.

**The full report includes the profiles of the following 28 leading providers featured on the SDV engineering services PEAK Matrix assessment 2025:**

- **Leaders:** Akkodis, Capgemini, Cognizant, HCLTech, KPIT, LTTS, TCS, and Wipro
- **Major Contenders:** Alten, Bertrandt, Cyient, DXC Technologies, FPT, Ignitarium, Infosys, Intellias, NTT DATA, Quest Global, Sasken, Tata Elxsi, Tata Technologies, Tech Mahindra, T-Systems, and UST
- **Aspirants:** Onward Technologies, Semcon, Sigma Software, and VVDN Technologies

## Scope of this report

**Geography:** global

**Industry:** market activity and investments of 28 leading providers

**Services:** SDV engineering services

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# Scope of the evaluation

## Software-defined Vehicle (SDV) engineering services

[NOT EXHAUSTIVE]

### Focus of research

**Connectivity**

V2X connectivity, next-generation networks (5G and private network), and edge device integration

**Foundation**

OTA updates, E/E architecture, cybersecurity, safety and governance, vehicle OS, and semiconductor development

**Driving experience**

Autonomous driving and Advanced Driver Assistance Systems (ADAS) features (for example, cruise control, adaptive headlights, and route optimization)

**Infotainment**

Telematics information, haptics and gesture controls, virtual assistants, and personalized cockpit

**Services**

Subscription-based services, usage-based insurance, shared mobility, and ecosystem integration

**Vehicle performance**

Dynamic performance management, electrification and energy management, predictive maintenance, and remote monitoring and management

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### Included and excluded scope elements

Included in scope

- Development, integration, and validation of SDV features across connectivity, foundation systems, driving experience, infotainment, services, and vehicle performance
- Engineering for E/E architecture modernization, vehicle OS, cybersecurity, and AI/data capabilities
- SDV-specific testing, calibration, and simulation (SIL/HIL) across ADAS, infotainment, telematics, and performance systems
- Implementation of digital services including subscription models, shared mobility, and usage-based analytics
- Remote monitoring, diagnostics, predictive maintenance, and performance optimization

Excluded from scope

- Mechanical or hardware-only vehicle development
- Traditional/Non-connected vehicle functions
- Physical repair or maintenance not linked to SDV capabilities
- Battery and drivetrain engineering (ICE and electric); charging systems


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# SDV PEAK Matrix® characteristics

## Leaders

Akkodis, Capgemini, Cognizant, HCLTech, KPIT, LTTS, TCS, and Wipro

- Leaders continue to make large-scale investments in SDV platforms, accelerators, and CoEs, enabling full-stack development across embedded, cloud, and validation domains
- They demonstrate end-to-end life cycle coverage, spanning architecture design, development, testing, and OTA updates, backed by strong client references
- Leaders are at the forefront of AI, cloud, and automation-led engineering, developing reusable assets and model-based validation frameworks
- They exhibit strong ecosystem alignment, collaborating with hyperscalers, semiconductor providers, and OEMs to accelerate SDV transformation programs

## Major Contenders

Alten, Bertrandt, Cyient, DXC Technologies, FPT, Ignitarium, Infosys, Intellias, NTT DATA, Quest Global, Sasken, Tata Elxsi, Tata Technologies, Tech Mahindra, T-Systems, and UST

- Major Contenders deliver robust capabilities across specific SDV subsegments such as connectivity, foundation, and driving experience, often supported by proprietary IP and partnerships
- They are expanding their SDV-specific CoEs and cloud partnerships; however, still operate at a smaller scale compared to Leaders
- Many focus on collaborative engineering engagements with OEMs and tier-1 suppliers, contributing to validation, software integration, and middleware development
- Ecosystem participation and co-innovation momentum are increasing, though dedicated investments in large-scale SDV labs, IP, and service platforms are still evolving

## Aspirants

Onward Technologies, Semcon, Sigma Software, and VVDN Technologies

- Aspirants focus on targeted SDV capabilities, primarily in software development, automation, and validation for connected and autonomous domains
- These providers operate with narrower client portfolios and delivery reach, but demonstrate deep specialization in chosen focus areas
- Investments in SDV-dedicated labs and partnerships remain limited, though capabilities are steadily scaling to address emerging SDV programs
- They are strengthening technical differentiation through niche expertise in AI-based validation, embedded software, and digital twin testing

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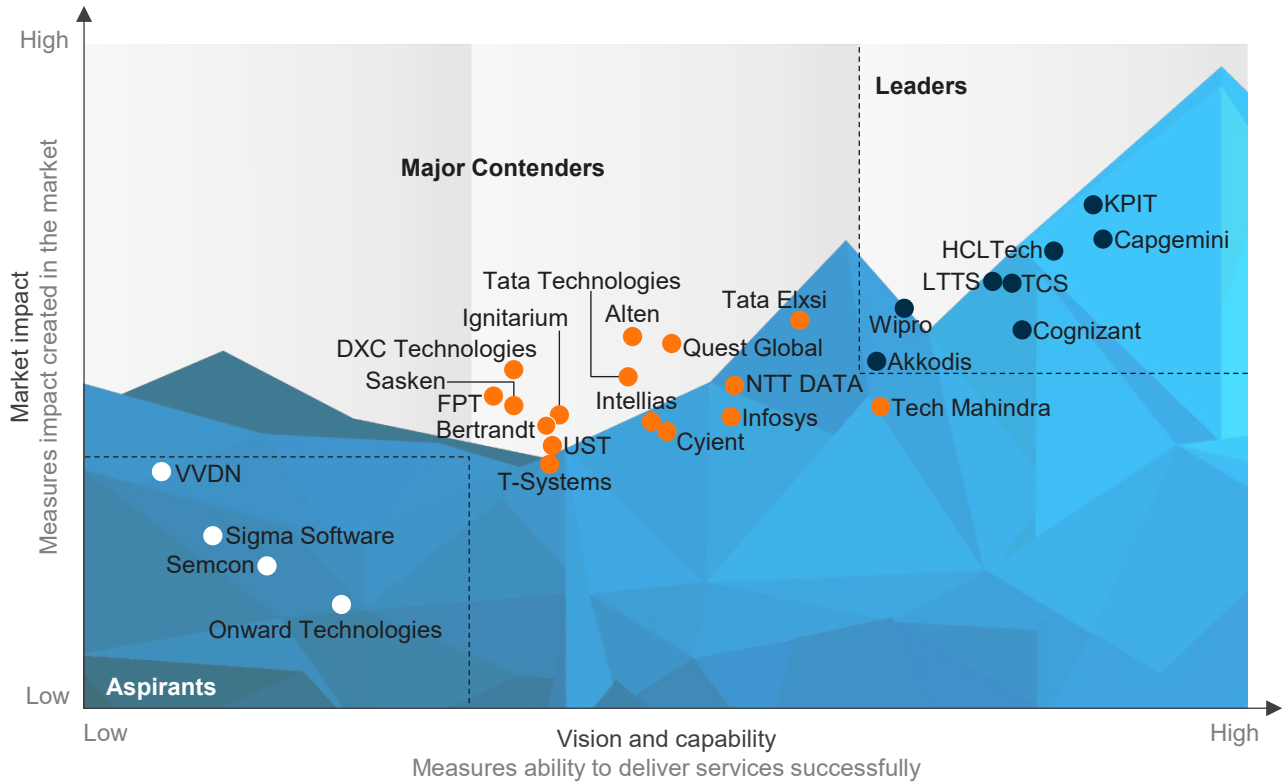
# Everest Group PEAK Matrix®

## Software-defined Vehicle (SDV) Engineering Services PEAK Matrix® Assessment 2025 | HCLTech is positioned as a Leader

**Everest Group Software-defined Vehicle (SDV) Engineering Services PEAK Matrix® Assessment 2025[1,2]**

- Leaders
- Major Contenders
- Aspirants




1 Assessments for NTT DATA, FPT, Infosys, Tata Technologies, Alten, DXC Technologies, Bertrandt, T-Systems, Semcon and Sigma Software excludes service of provider inputs and are based on Everest Group's proprietary Transaction Intelligence (TI) database, provider public disclosures, and Everest Group's interactions with insurance buyers
2 The source of all content is Everest Group unless otherwise specified
Source: Everest Group (2025)

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# HCLTech

## Everest Group assessment – Leader

Measure of capability: Low High

| Market impact | | | | Vision and capability | | | | |
|---|---|---|---|---|---|---|---|---|
| Market adoption | Portfolio mix | Value delivered | Overall | Vision and strategy | Scope of services offered | Innovation and investments | Delivery footprint | Overall |
| | | | | | | | | |

### Strengths

- HCLTech continues to expand its SDV validation and automation ecosystem through dedicated labs, simulation frameworks, and test automation platforms
- The company demonstrates comprehensive coverage across connectivity and driving experience domains, with expertise spanning connected cockpit, infotainment systems, and ADAS feature integration
- Clients have appreciated HCLTech's execution excellence in project management and fleet operations, highlighting its focus on improving efficiency through automation
- It has established strong partnerships with semiconductor firms, facilitating co-development of silicon platforms, chip design solutions, and embedded software integration for SDV programs

### Limitations

- HCLTech engages with emerging mobility start-ups. However, revenue contribution from these clients remains limited, with most business concentrated among established OEMs and tier-1s
- While HCLTech's technical depth is well established, it could improve visibility around its IP, accelerators, and reusable assets
- HCLTech has established strong infotainment capabilities; however, the revenue share from this segment remains lower compared to peers

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# Market trends

## SDV engineering services

### Market size and growth

- The SDV engineering services market expanded from ~US$5.4 billion in 2024 to ~US$5.7 billion in 2025, reflecting a YoY growth of ~5-6%
- Growth in services was primarily led by increased adoption of AI-enabled services, verification and validation, and a permanent shift in consumer expectations
- Even though growth is expected to remain sluggish in the near term, the overall outlook remains positive. Future success for providers will depend on the ability to capitalize on opportunities such as AI integration, partnerships with semiconductor firms, and expansion into emerging SDV segments, while unlocking additional avenues through services-based revenue such as connected services, feature-on-demand models, and subscription-based offerings for end customers

### Key drivers for SDV engineering spending

| | |
|---|---|
| Software-centric transformation | Shift toward software-first vehicle design and continuous feature updates |
| Cloud and AI integration | Growing use of cloud-native and AI-driven development and validation |
| E/E architecture modernization | Migration to centralized, zonal, and service-oriented platforms |
| Connected ecosystems | Expansion of V2X, OTA, and telematics-based services |
| Regulatory and safety compliance | Rising need for safety, cybersecurity, and life cycle governance |

### Opportunities and challenges

| | |
|---|---|
| Architecture complexity | Centralized E/E systems increasing integration and testing demands |
| Talent availability | Shortage of skilled automotive software and AI engineers |
| High investment needs | Large R&D and platform set up costs delaying returns |
| Legacy system conversion | Modernizing ECUs to zonal platforms remains resource-heavy, along with lack of standardization limiting interoperability and scale |

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# Provider landscape analysis

## SDV engineering services

**Market share analysis of the providers[1]**

2024; Percentage of overall market of SDV engineering services

**YoY growth analysis of the providers[1]**

2023-24; YoY growth

1 Providers are listed alphabetically within each range


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# Key buyer considerations

## SDV engineering services

### Key sourcing criteria

High

Priority

Low

**Cost savings and profitability**

Reducing engineering costs through scalable global delivery, automation, and efficient resource utilization to sustain profitability in a margin-pressured market

**Accelerated time-to-market**

Enabling faster SDV platform and feature rollouts through parallel development, validation, and integration cycles for competitive advantage

**Competencies in forward-looking technologies**

Leveraging expertise in zonal architecture, vehicle-specific AI models, advanced connectivity, and cloud-native SDV frameworks to future-proof platforms

**Access to skilled resources**

Addressing global SDV talent shortages by tapping into specialized software, electronics, and validation engineers across delivery centers

**IP, innovation, and frameworks**

Utilizing reusable accelerators, proprietary IP, and reference frameworks that reduce engineering effort and enhance design reusability

### Summary analysis

Cost optimization has become a prime consideration for OEMs and tier-1s as they manage rising software complexity and development costs. Time-to-market remains critical, with faster SDV rollouts driving differentiation in a competitive landscape. Buyers are increasingly focusing on partners with strong capabilities in zonal architectures, AI-driven vehicle intelligence, and cloud-native platforms that enable scalable, software-centric design. IP-led frameworks are valued for reducing engineering effort and enabling reuse across programs. While AI adoption is still maturing, its role in diagnostics, validation, and predictive maintenance is expanding. Ecosystem partnerships with hyperscalers and semiconductor providers will remain important, though they are not among the top sourcing priorities.

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# Key takeaways for buyers

Buyers should prioritize partners that combine engineering excellence with software agility to accelerate SDV transformation.

## Co-owned strategic collaboration

Buyers should increasingly engage with partners that can co-own outcomes across the SDV life cycle, from architecture design to validation, ensuring agility, transparency, and long-term scalability.

## Outcome-led engagement models

With SDV programs demanding continuous development and updates, buyers are shifting from resource-based to value-driven models emphasizing productivity, reusability, and faster cycles.

## Asset and IP-led delivery

Reusable platforms, accelerators, and IP frameworks should form the core of delivery models to enable modular development, reduce engineering effort, and speed feature deployment.

## Ecosystem-centric partnerships

OEMs should favor providers that bring deep collaborations with hyperscalers, semiconductor providers, and tool vendors to deliver integrated and future-ready SDV ecosystems.

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# Appendix

PEAK Matrix® framework

FAQs

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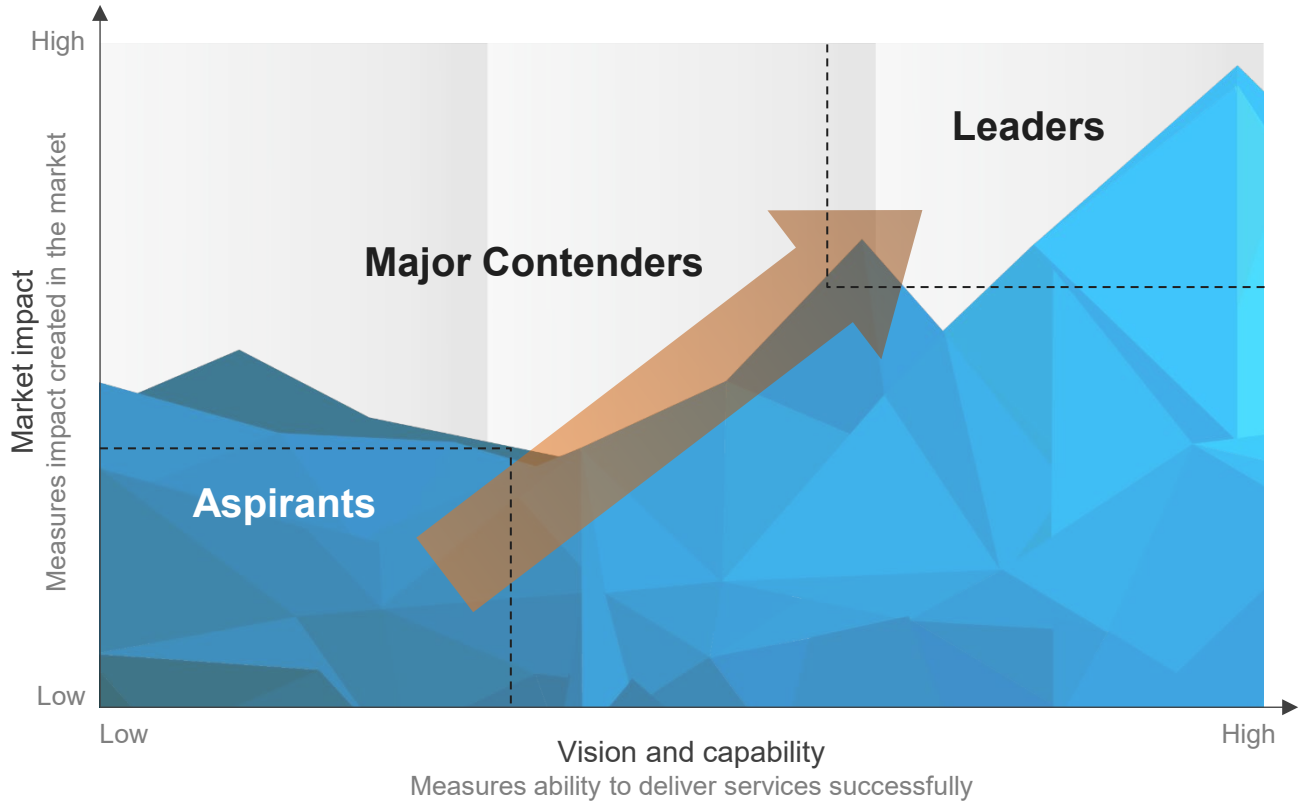
# Everest Group PEAK Matrix® is a proprietary framework for assessment of market impact and vision and capability

**Everest Group PEAK Matrix**





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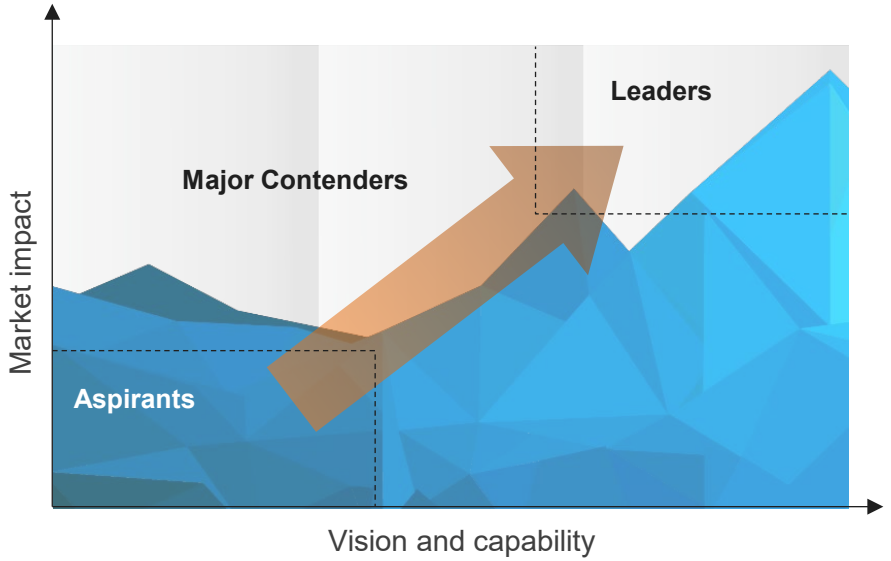
# Services PEAK Matrix® evaluation dimensions

Measures impact created in the market – captured through three subdimensions

**Market adoption**
Number of clients, revenue base, YoY growth, and deal value/volume

**Portfolio mix**
Diversity of client/revenue base across geographies and type of engagements

**Value delivered**
Value delivered to the client based on customer feedback and transformational impact




Measures ability to deliver services successfully. This is captured through four subdimensions

**Vision and strategy**
Vision for the client and itself; future roadmap and strategy

**Scope of services offered**
Depth and breadth of services portfolio across service subsegments/processes

**Innovation and investments**
Innovation and investment in the enabling areas, e.g., technology IP, industry/domain knowledge, innovative commercial constructs, alliances, M&A, etc.

**Delivery footprint**
Delivery footprint and global sourcing mix

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# 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 in 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.

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