

An Analyst Point of View for **Mindtree** April 2018

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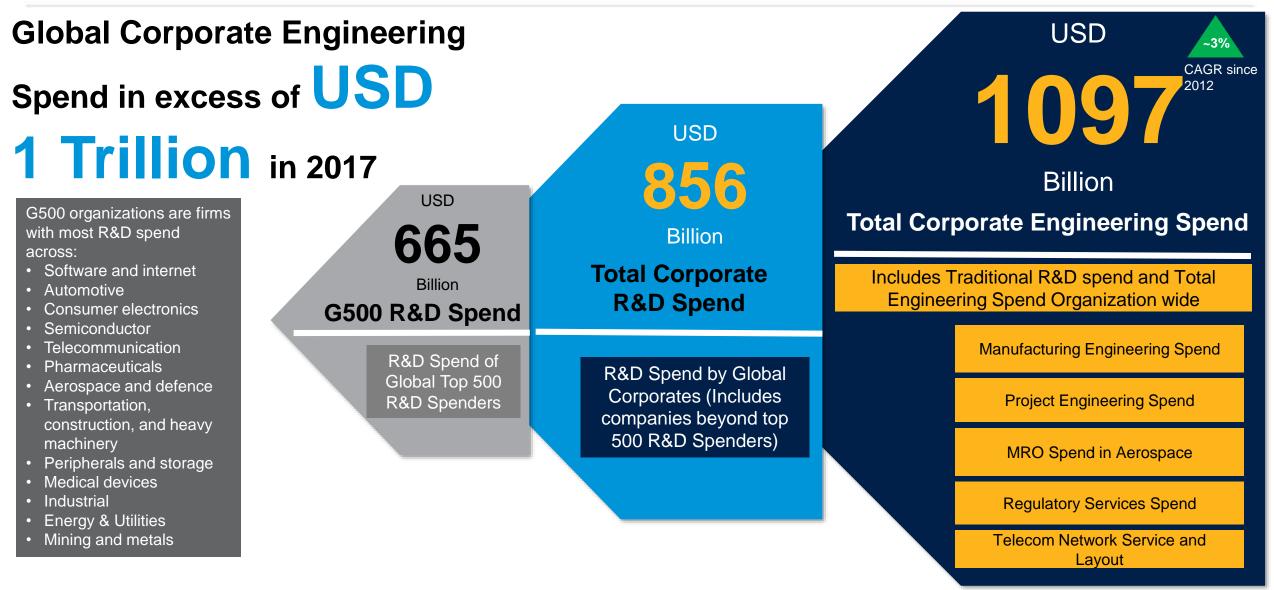


Global Engineering R&D Landscape

Mindtree profile – PES 2017



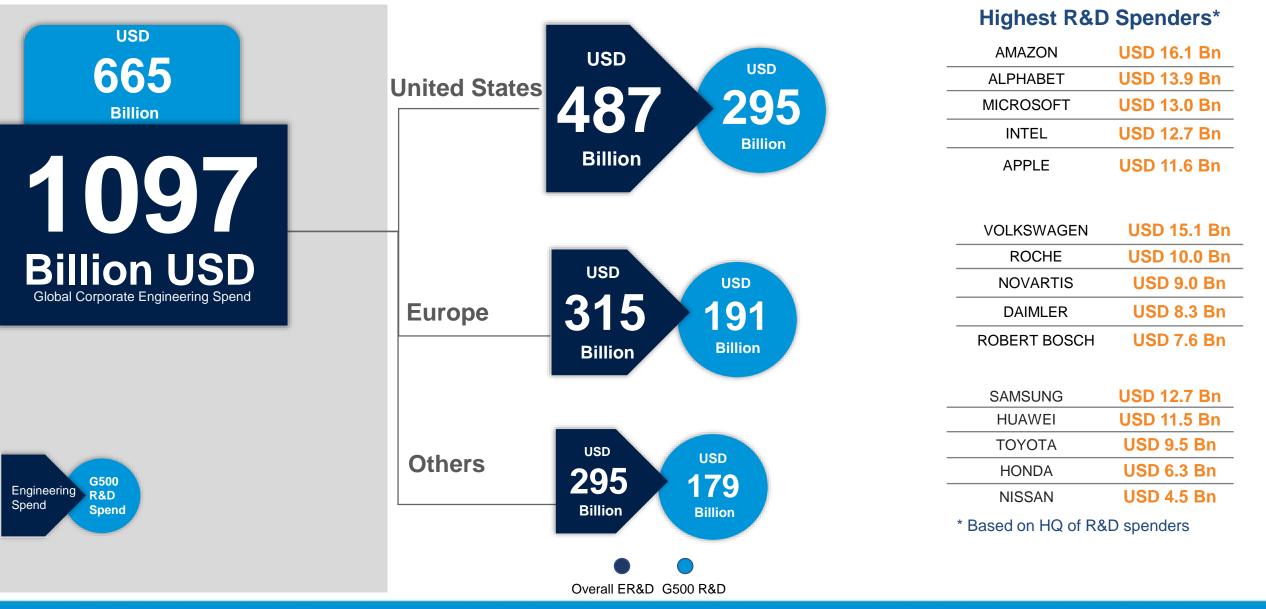




Note: Zinnov has increased its coverage of tail companies across verticals which reflects as in increase in Corporate R&D spend across verticals as compared to 2016



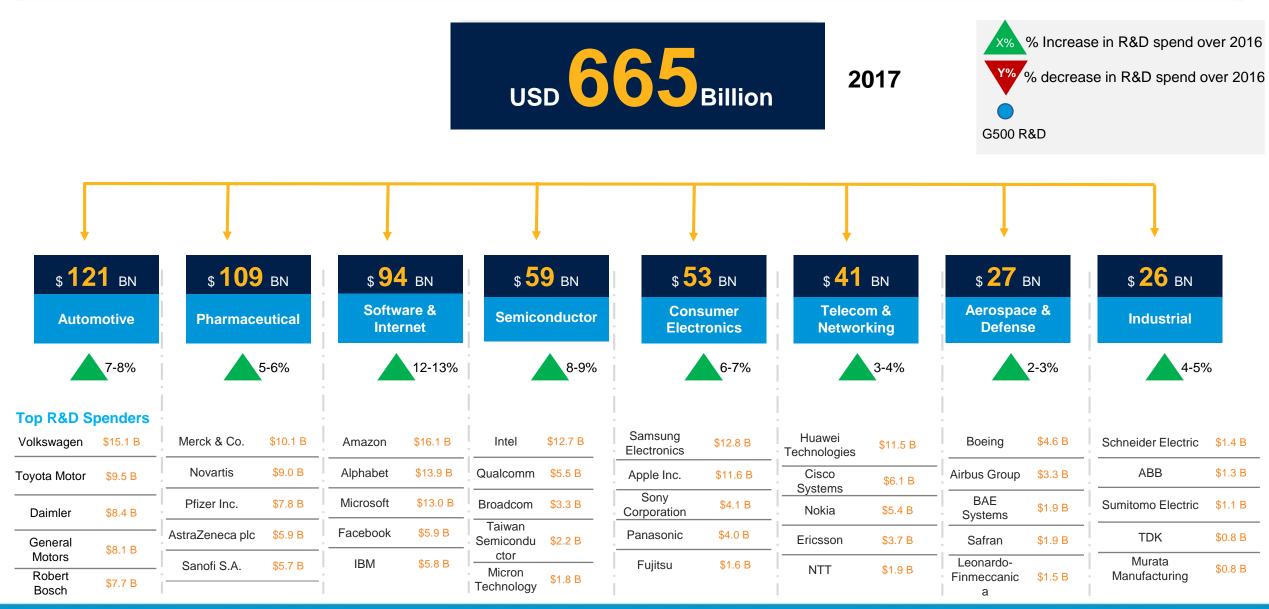






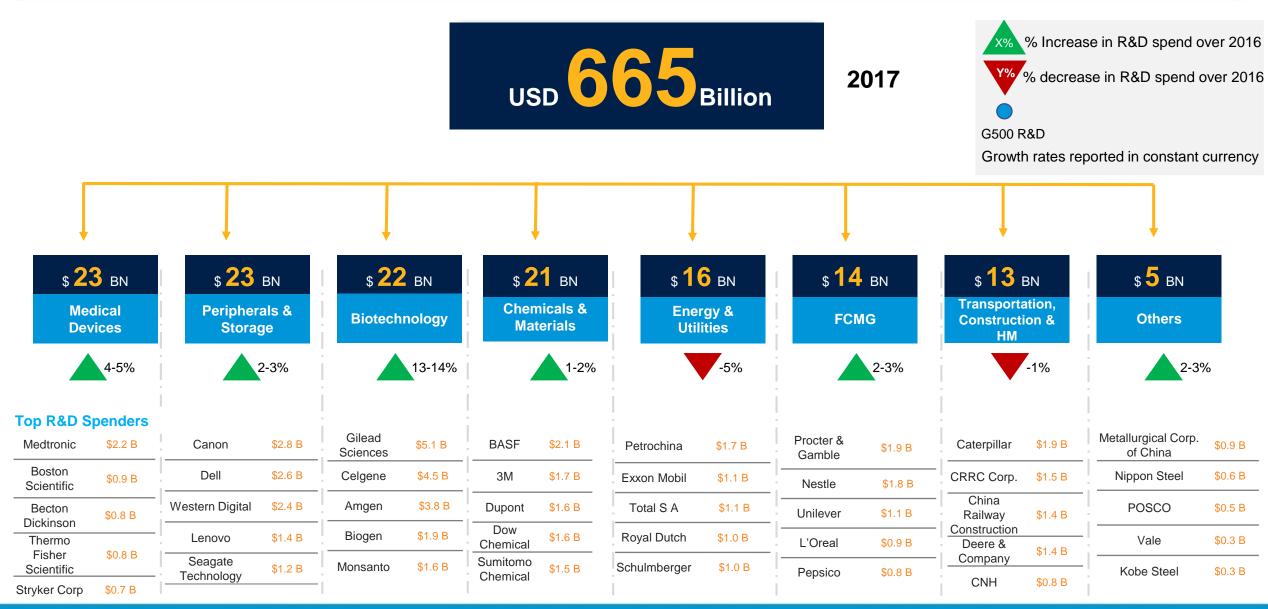
While the automotive sector leads R&D spending, software and internet is one of the fastest growing verticals (1/2)









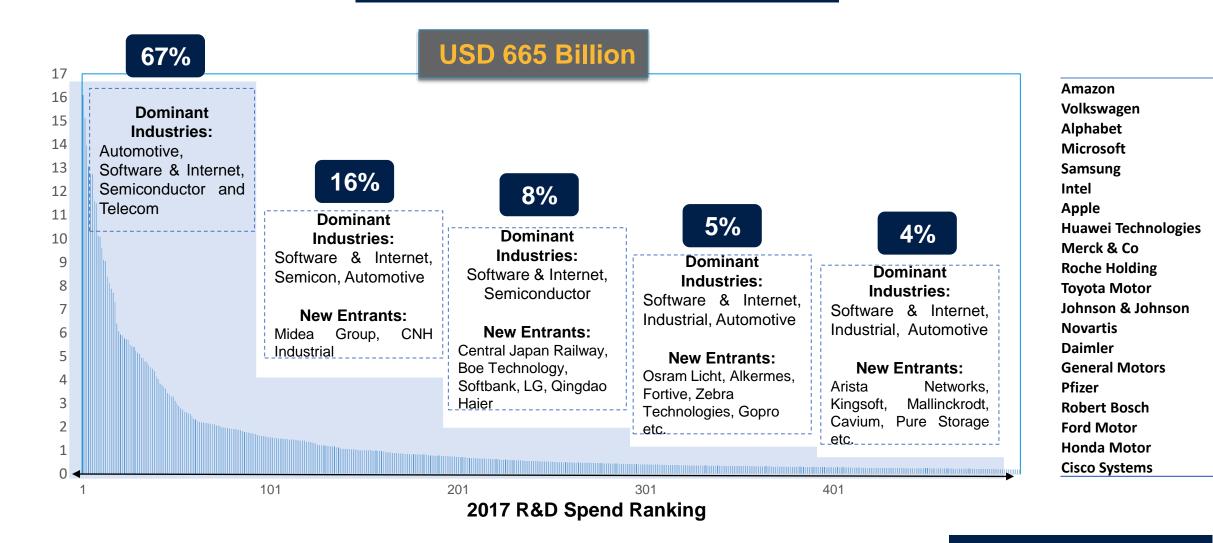




R&D spending continues to stay consolidated with top 100 R&D spenders accounting for two-thirds of the total G500 R&D spending



Contribution of G500 R&D Spenders









Global Engineering R&D Landscape

Mindtree profile – PES 2017







Mindtree has consistently developed its capabilities over the past decade to establish itself as an industry leader for ER&D services. The company's investments in building IP, frameworks, and accelerators coupled with a robust partner ecosystem have contributed towards its leadership positioning at an overall level. The firm has strong capabilities across verticals such as telecom, consumer electronics, enterprise & consumer software, automotive, and semiconductors.



Key differentiators – Mindtree

- Partner for "World's Firsts": The firm has a strong focus on developing "Industry's first" solutions across areas (Point-to-multipoint audio streaming, V2X for connected cars, android-based TV for a luxury consumer electronics firm, etc.)
- Focus on IP and accelerators: Mindtree is among the world leaders in Bluetooth IP licensing. It has filed 15 patents in this space (4 for customers and 11 in-house). The firm strives to include accelerators as part of most engagements
- Ecosystem leverage: Mindtree has built a robust ecosystem around next generation firms such as Acquia, AWS, Cloudera, DataStax, and Hortonworks to derive capabilities for digital engineering
- Proactive approach in engagements: Mindtree has established itself as a relevant partner for clients and takes a proactive approach in engagements for enhanced delivery, project management, and quality control

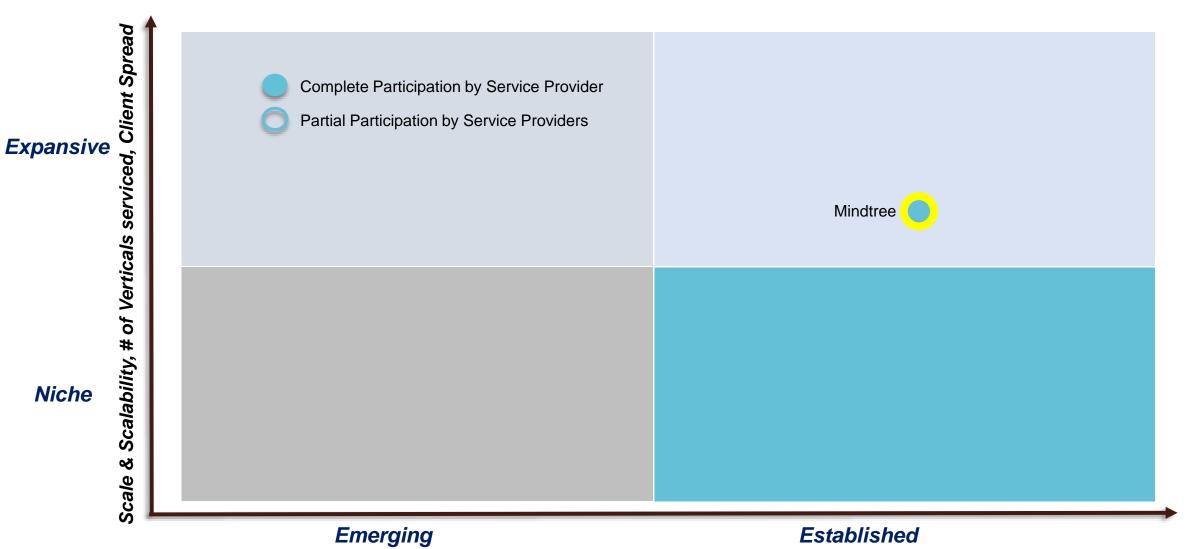




Mindtree has a strong focus on developing products, accelerators, and IP across the entire PDLC

PRODUCT DEVELOPMENT	CUSTOMER ONBOARDING AND SUPPORT	CUSTOMER SUCCESS
End-to-end reliability of dev-test and production environment to drive continuous innovation	Solutions for joint GTM and faster time to market	AI based platform – Decision Moments to help understand customer better
 Mindtree offers comprehensive end-to-end ownership and reliability of applications across all environments throughout the PDLC. To drive continuous integration and automation, the firm has developed platforms such as: CAPE™ (Composable Automated Platforms for Enterprises) to drive Agile-DevOps tooling and environment integration, provisioning, build and automation through a single interface. The platform coupled with the firm's integrated QA capabilities provides IT teams a seamless shift to Agile-DevOps MWatch™, an integrated IT infrastructure management and service platform for infrastructure monitoring 	 Gladius is an open, integrated and intelligent video surveillance platform to connect and access cameras, recorders, access control, IoT sensors. It provides an integrated dashboard to monitor alerts, device management and analytics. Connected building platform drives sustainability and enhances comfort levels of occupants through IoT and video analytics Flooresense is a cloud based platform that helps enterprises enhance in-store conversion by connecting relevant store associates with high potential shoppers. It identifies and prioritizes potential shoppers using video feeds and custom algorithms Mindtree has also built IoT platforms such as Asset+ (asset monitoring platform) and People+ (location sensing platform) 	 Caters to B2B use cases such as reducing customer churn, increasing customer lifetime value through cross sell / up sell and rationalizing product features through usage analytics Applies continuous learning algorithms to large data pools Includes more than 20 industry-specific machine-learning algorithms based on deep learning techniques Offers access to a design store with 35 prebuilt technology components for big data programs Provisions a modeling sandbox to perform rapid exploratory data analysis before investing at scale Enables 25 business apps to be leveraged across technology, consumer goods, travel, banking and insurance industries



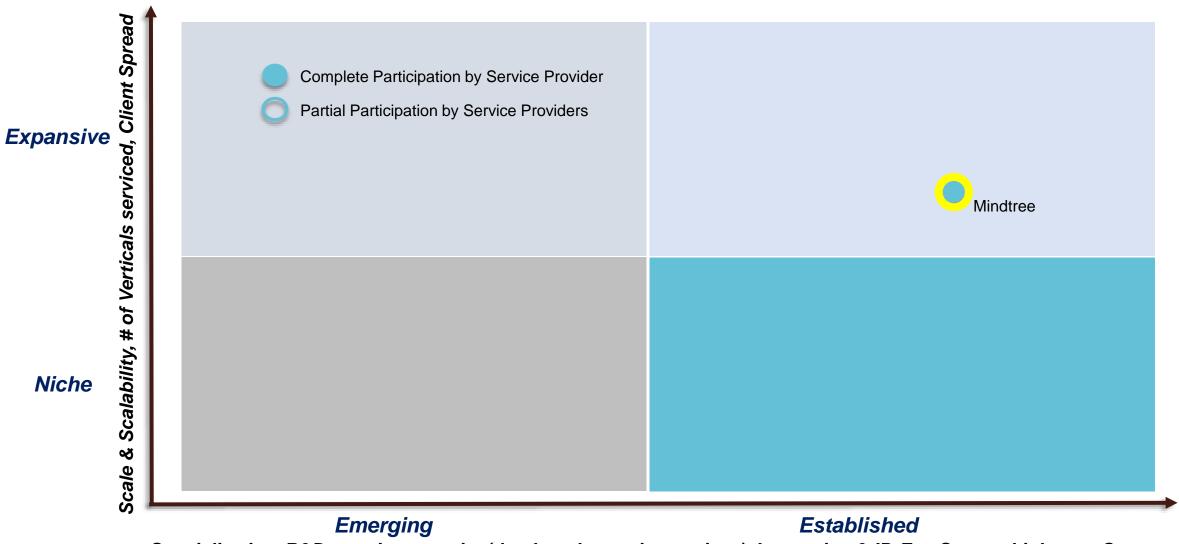


Specialization, R&D practice maturity (depth and maturity services), Innovation & IP, Eco-System Linkages, Customer input

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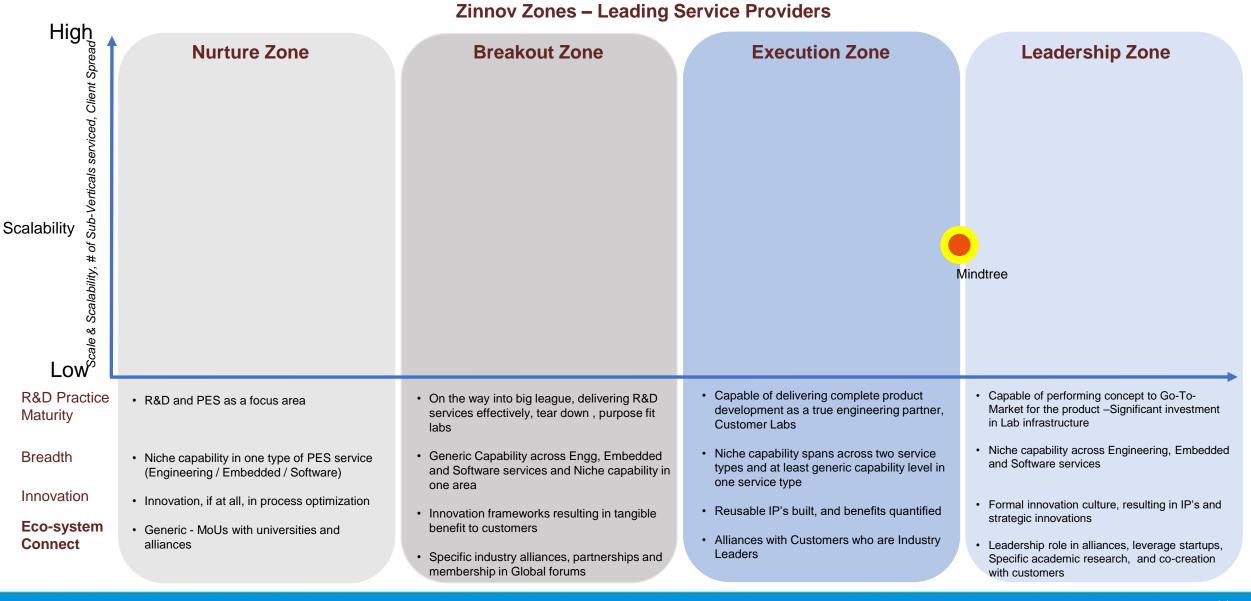




Vertical	Key Expertise Area	Position in Market	Analyst Commentary
Automotive	 Infotainment Telematics Autonomous driving Navigation Services Connectivity Platforms and frameworks Fleet management, diagnostics, HMI 	Leadership Zone	 Mindtree has developed robust IP for the automotive sector and has its own Mirrorlink stack and has built: CarPlay stack V2X platform Cloud based solution to monitor driver stress levels Test automation framework for automated code update detection and optimized test runs
Consumer Electronics	 Short range Wireless (Bluetooth, Zigbee) Wearables Life style Audio/Video Products Al based adaptive personal electronics 	Leadership Zone	 Mindtree has established itself as a pioneer in Bluetooth Technology and has been part of BT standardization initiatives since inception The firm leverages its capabilities across digital and cloud to enable transformation in the devices ecosystem by offering cloud enabled PLM, content push, cloud infotainment, and M2M solutions
Consumer Software	 Product development and QA Digital front-end Analytics Cloud native roadmap Design and implementation Customer Success Legacy Simplification Reliability engineering and Product sustenance 	Leadership Zone	 Mindtree provides tailored services to large start-ups and B2C SW enterprises with a focus on creating repeatable scalable technology solutions The firm has witnessed higher than global average growth in this space
Enterprise Software	 Product development and QA Enterprise IT build and support Customer on-boarding & support Automation, SaaS, DevOps Customer Success Legacy Simplification Reliability engineering and Product sustenance 	Leadership Zone	 Mindtree has fostered a "Born Digital" approach to build capabilities to cater to cloud-native ISVs and SaaS enterprises The firm focusses on next generation areas such as Agile-DevOps, cloud, digital, and advanced analytics
Semiconductor	 Pre & post silicon validation IP Re-Engineering & Design Frameworks/ platform integration (industry specific) Digitizing Supply Chain 	Leadership Zone	 Mindtree has established clientele with semiconductor companies across areas such as conceptualization, design, development, verification & validation and maintenance support of products Its turnkey Bluetooth IP products are licensed to OEMs and semiconductor companies with Mindtree providing high end consulting, platform integration, porting, system and IOP testing services
Telecom	 Platforms & software including Cloud orchestration UCaaS, CEX, IoT and analytics Enterprise and Service provider grade Networking Equipment, datacenters, and cloud, IoT devices, routers and gateways 	Leadership Zone	 Mindtree has established itself as a leader in telecom with deep relationships with NW OEMs focused on penetrating the CSP (Communication Service Provider) market The firm's continual focus on IoT, SDX, Multi-Cloud orchestration coupled with frameworks and accelerators positions them uniquely as a "metal to cloud" partner

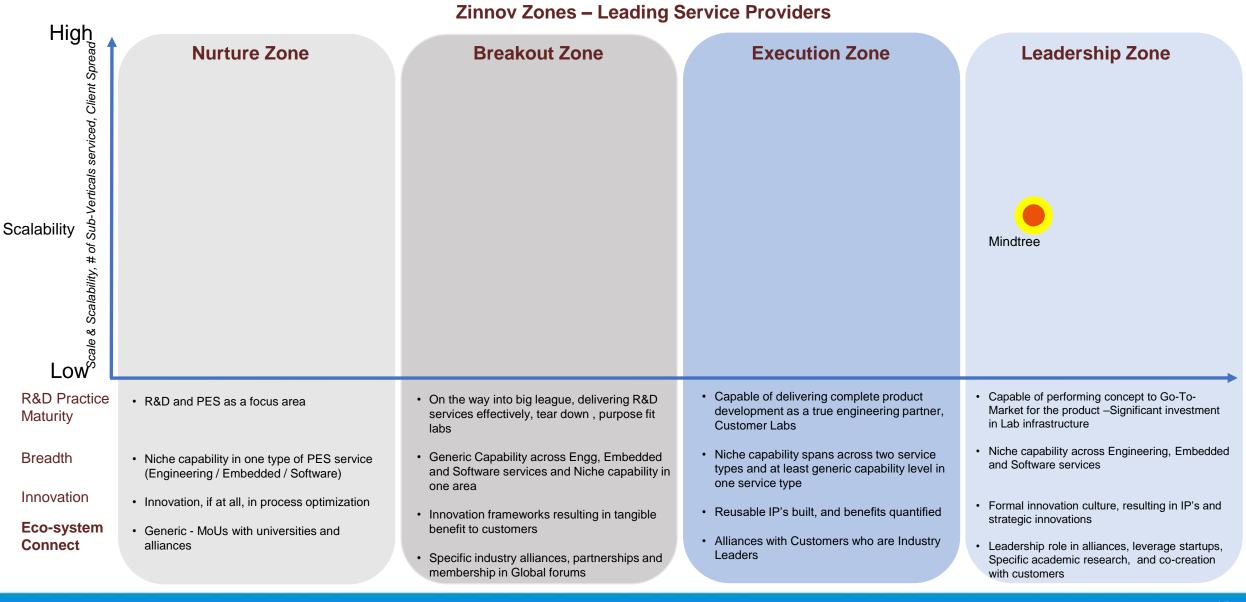






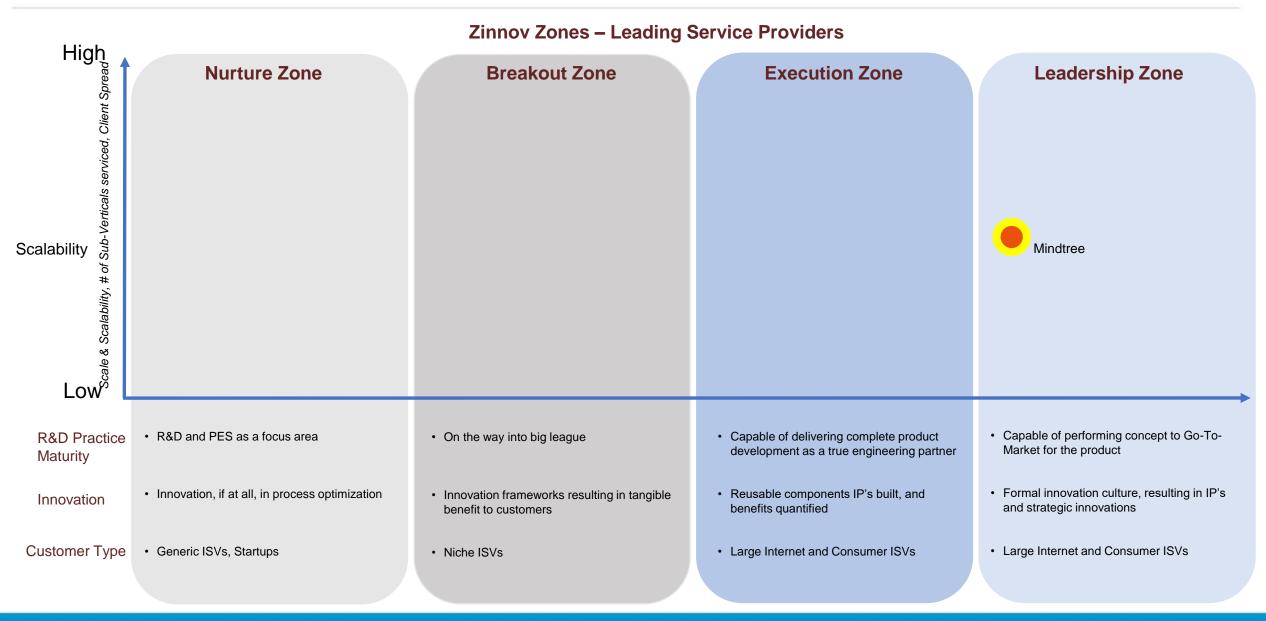






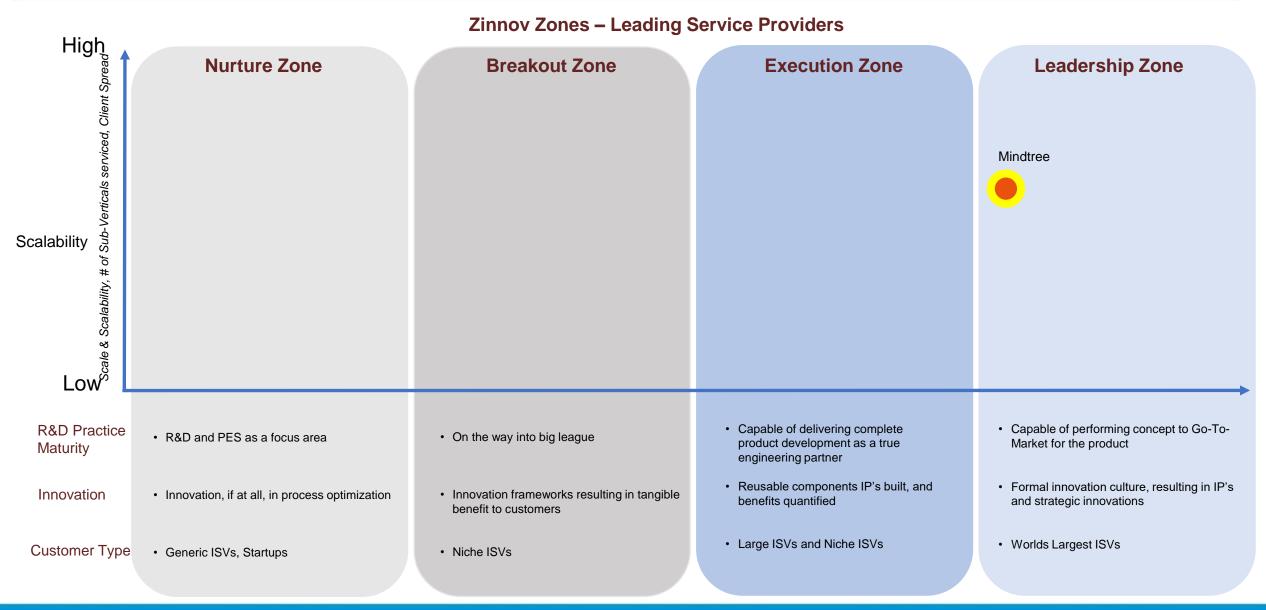








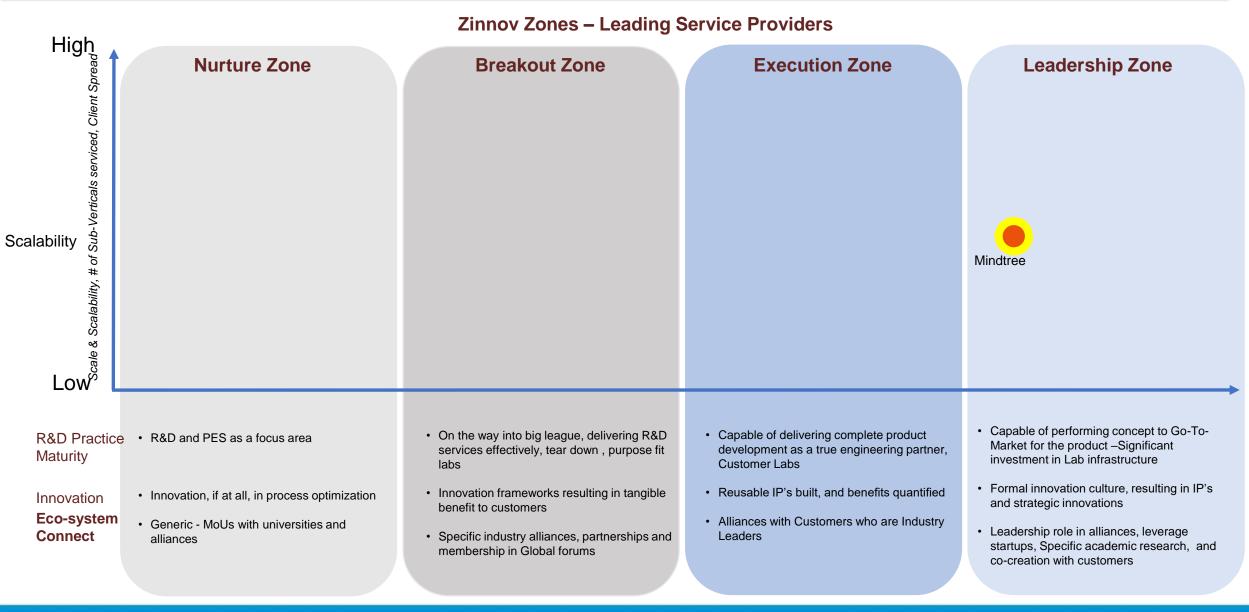




Source: Zinnov Research & Analysis

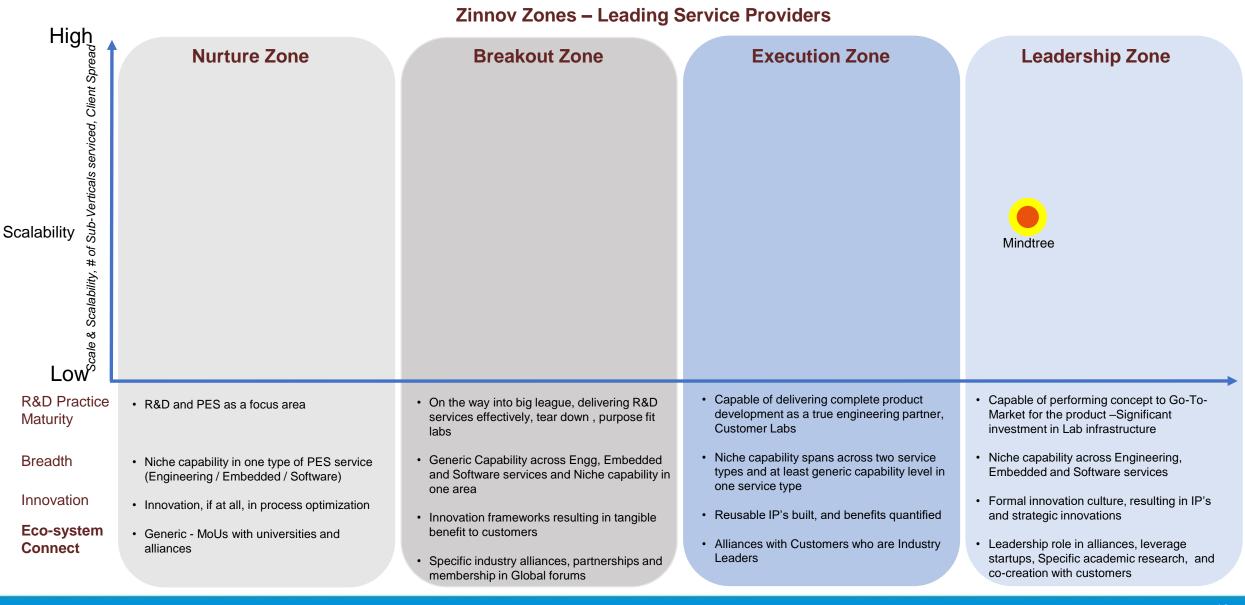
















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