



Investment Banking in Tech Services,
Consulting, Software & Healthcare

Telecom Innovation: The Software and Tech Services Shaping the Future of Telcos

A Comprehensive Analysis of Key Trends and M&A Deal
Activity in 2023

February 2024

Introduction

This research report from Technology Holdings, offers a comprehensive view of sector's dynamics and the transformative impact of software and services in Telecom. As the Mobile World Congress unfolds, our analysis extends beyond current trends and innovations to a focused examination of M&A activities over the three years

This exploration reveals how strategic acquisitions and partnerships are reshaping the telecom landscape, offering insights into market drivers, impacts, and future opportunities. Join us as we navigate through innovation, consolidation, and growth trends that are defining the future of telecommunications.

- 1. **Empowerment and Self-Service through Automation, AI, and ML**
- 2. **Advanced Analytics: Central to Elevating Telco Customer Experiences**
- 3. **Growing Enterprise Demand for Mobile Edge Computing**
- 4. **Meeting Enterprise-wide need for Cybersecurity**
- 5. **Telcos Elevate IoT Influence: From Connectivity to Comprehensive Solutions**

M&A trends

1

Increased Demand for Cybersecurity and Customer Experience Capabilities

2

Increased Private Equity Interest

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About Technology Holdings

Technology Holdings (TH) is a **global boutique investment bank** dedicated to delivering M&A and capital raising advisory services to **Technology Services, Software, Consulting, Healthcare Life Sciences and Business Process Management Companies** globally with enterprise values ranging from **US \$25 Million to US \$500 Million**.

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Our focus, with a 23-year track record...



Digital Transformation & Innovation



IT Services Cloud & Cybersecurity



Analytics, Data Sciences & AI



Fintech, Insurtech and SaaS



Consultancies



Healthcare & Lifesciences



Business Process Management



Engineering Services

LONDON

MELBOURNE

NEW YORK

SYDNEY

SAN JOSE

BARCELONA

MID-WEST

PARIS

TORONTO

MUNICH

MUMBAI

BENGALURU

NEW DELHI

KOLKATA



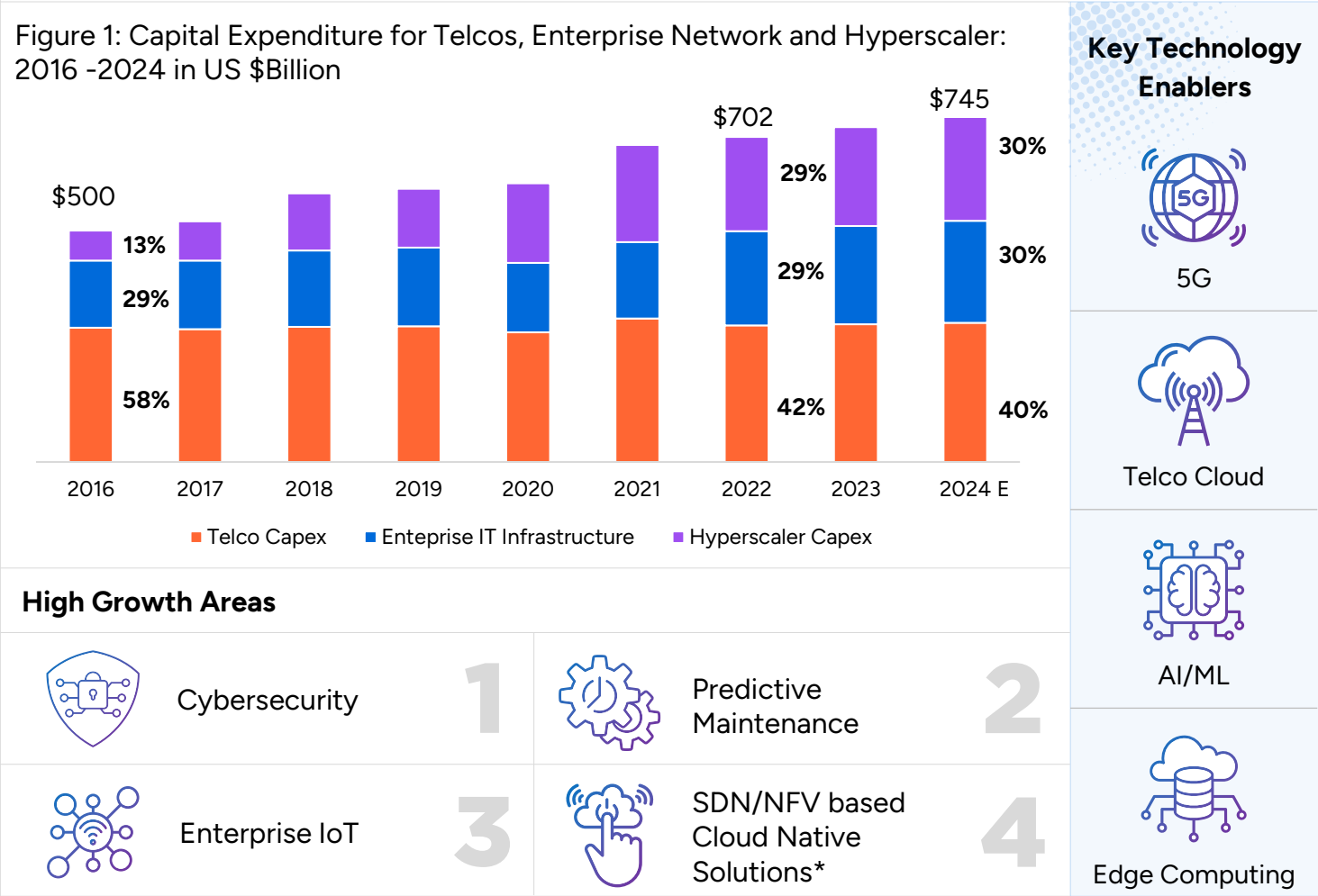
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Market Overview and Industry Trends

SECTION I

Market Snapshot

- **Telco Capex Resilience:** Rising from **US \$290 Billion** in 2016 to an anticipated **US \$301 Billion** in 2024, signaling enduring strength and adaptation to new technologies like 5G and IoT
- **Enterprise IT & Hyperscaler Investment Boom:** Enterprise IT Capex surges to **US \$220 Billion** and Hyperscaler to **US \$224 Billion** by 2024, highlighting significant growth in cloud services and IT infrastructure
- **Telecom Infrastructure Focus:** Enhanced data traffic and high-speed internet needs propel investments in **fiber optics**, and **data centers**
- **Innovation Spurs Capex:** **Artificial intelligence**, **edge computing**, **cybersecurity** and **virtual reality** contribute significantly to the increasing telecom capex, underscoring a commitment to technological advancement
- **Market Transformation Tactics:** Network densification and digital shifts, including **SDN/NFV**, drive the telecom sector's investment and growth strategies
- **Adaptative M&A Strategy:** In response to **financial** and **geopolitical headwinds**, the TMT sector adopts a cautious approach, selectively pursuing **strategic, high-quality M&A** opportunities
- **Creative Dealmaking in a Challenging Economy:** Firms capitalize on the economic environment through innovative deal structures, including **joint ventures** and **public-to-private** transactions, to stay competitive



Combined Capex of \$745B across telecom, enterprise networks, and hyperscalers in 2024 underscores a vast market ripe for vendor innovation and strategic M&A

Telecommunication Services and Software Ecosystem



Telefonica



Infrastructure

RAN



O-RAN



Other Network Infrastructure



Software & Platforms

Network Management



OSS/BSS



Customer Management



Analytics & AI



Support Services

Strategy & Consulting



Engineering Services



Cybersecurity Services



Managed Services



Content & Applications

Streaming Platforms



Messaging Applications



Cloud Platforms



Enterprise Solutions

UCaaS



CPaaS



Others



Consumer Solutions

Gaming



Streaming Applications



Fintech



Others



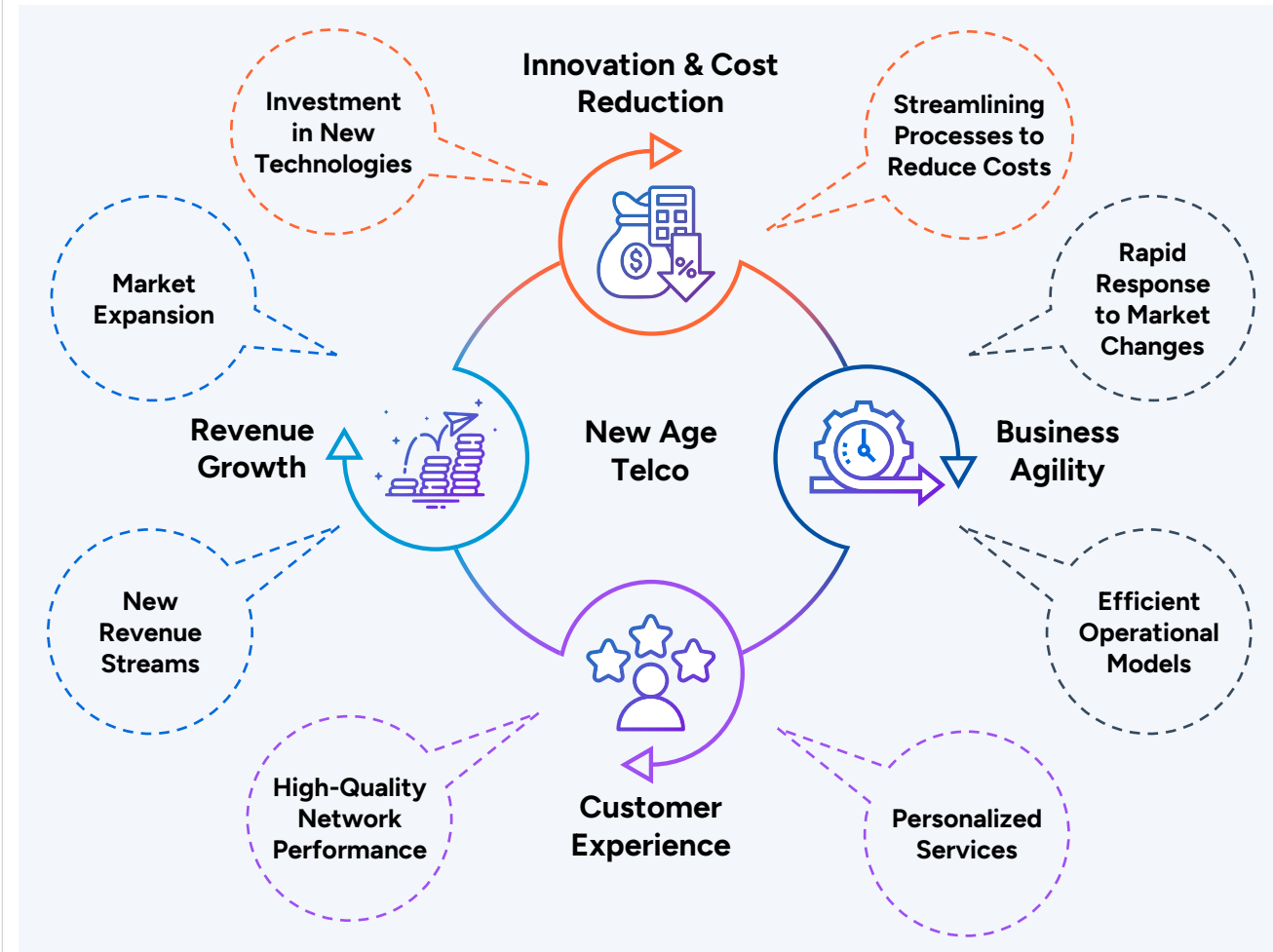
The Emergence of Agile Telcos

The 5G era compels telecoms to scale from millions to billions of devices, challenging current financial models and network approaches that impede innovation and deployment of advanced technologies. An **agile, cost-efficient** operation is crucial for leveraging **5G's capabilities**. Agile telcos must focus on:

- **Business Agility & Customer Experience:** Becoming nimble digital service providers is essential, with customer experience at the forefront to compete with tech behemoths like AWS, Google, and Microsoft
- **Revenue Growth & Cost Innovation:** Transitioning to digital offerings unlocks new revenue while demanding cost-effective strategies

Case Study: *Telefonica*

- **Deploys its Platform Business model as the Central Building Block:** Telefónica's platform strategy covers physical assets, IT systems, products and services, and cognitive/data services
- **Supports customer expectations and business outcomes:** Designed several tools, such as **Novum**, to support customer experiences, including **self-service provisioning, personalization, dynamic recommendations, and real-time price quotes**
- **Pursues a sophisticated data monetization model:** Telefónica's **Luca** leverages AI and network data for customer insights, setting a benchmark in **data-driven decision** support
- Prioritizes **data security** and customer **data autonomy** with its innovative "**Fourth Platform**" strategy
- Anticipates a **1% boost** to **CAGR** and a **2% increase** in **EBITDA margins** through these strategies



Telecom operators must evolve into digital service providers or be relegated to providing connectivity as a commodity to compete with digital disruptors

Key Trends in Telecom Sector



1

Empowerment and Self-Service through Automation, AI, and ML



2

Advanced Analytics: Central to Elevating Telco Customer Experiences



3

Growing Enterprise Demand for Multi-Access Edge Computing



4

Increasing need for Cybersecurity among Telcos



5

Telcos Elevate IoT Influence: From Connectivity to Comprehensive Solutions

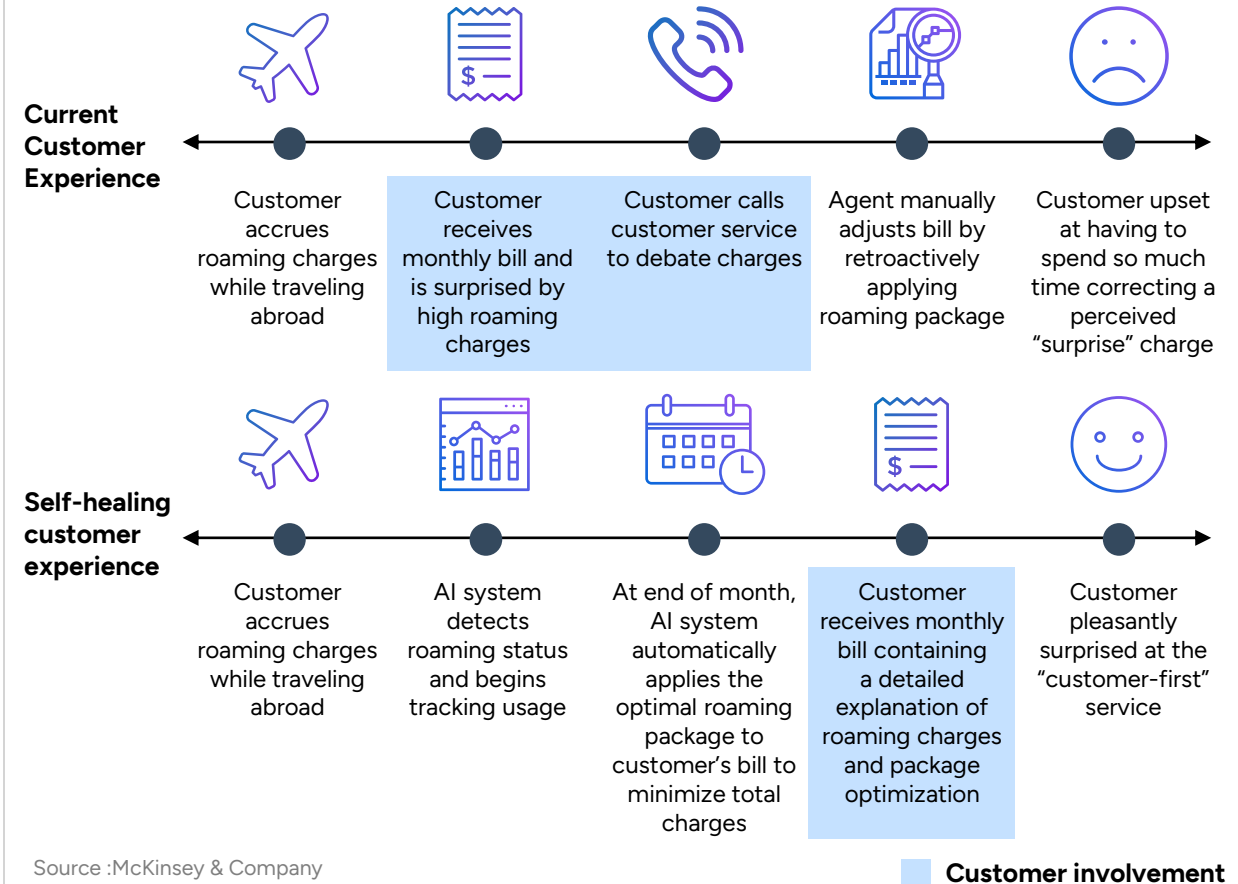
Empowerment and Self-Service through Automation, AI, and ML

- **Strategic AI Investment:** Operators face cost pressures; AI in field services, a significant budget portion, offers crucial savings and efficiencies
- **Operational Automation Imperative:** To address labor shortages and access issues, telcos turn to automation for network upkeep and customer relations
- **Analytics for Customer Support:** AI analytics become vital to deliver targeted customer support, especially with increased network strain and service demands
- **Enhancing Customer Interaction:** AI-powered chatbots and intelligent search tools improve customer experiences by providing timely and effective remote assistance
- **Network Management Evolution:** Implementing AI in network operations relieves field staff and leads to more efficient maintenance and management
- **AI as a Foundational Element:** Leading telecoms are integrating AI deep into their fabric, enhancing products and streamlining processes for greater value and efficiency

Profit Potential of AI in Telcos¹:

0.5%-1.5%	0.5%-1.5%	2.0%-3.5%	2.0%-3.5%	0.5%-1.0%	Revenue Increase
Personalized Lead Generation	Churn Management	Upselling & Cross-selling	Price Optimization	Precise use of Content & Media	
Marketing & Sales					
Network & Operations					
0.5%-1.5%	0.5%-1.5%	2.0%-3.5%	2.0%-3.5%	0.5%-1.0%	Cost Savings
Optimized Network Rollout	Optimized Network Assets	Optimized Field Labour Force	Predictive Maintenance	AI Based Customer Service	

Self-healing AI Solutions strengthen both operational efficiency and brand loyalty by turning potential billing dispute into a positive customer experience



AI in telcos: A dual lever to simultaneously hike revenues by up to 10% and slash costs by up to 10%, optimizing the entire value chain

Advanced Analytics: Central to Elevating Telco Customer Experiences

- **Multi-channel Strategy:** Telcos tailor engagement across diverse platforms, leveraging mobile and social media for customer interaction
- **Customer Data Utilization:** Segmentation and personalization are driven by in-depth customer data analysis to enhance user experiences
- **Targeted Marketing:** Data-driven insights inform marketing strategies, offering personalized services to meet customer expectations
- **Social Media Integration:** Telcos employ social listening to align services with customer needs, ensuring relevancy and timeliness
- **Omnichannel and AI Synergy:** AI and ML are pivotal in creating seamless omnichannel experiences, ensuring each customer journey is personalized and efficient

Five Elements that are Key to Maximizing the Potential of Analytics-driven CVM



Opportunity Identification



Rapid Activation at Scale



Martech & Data Enablement



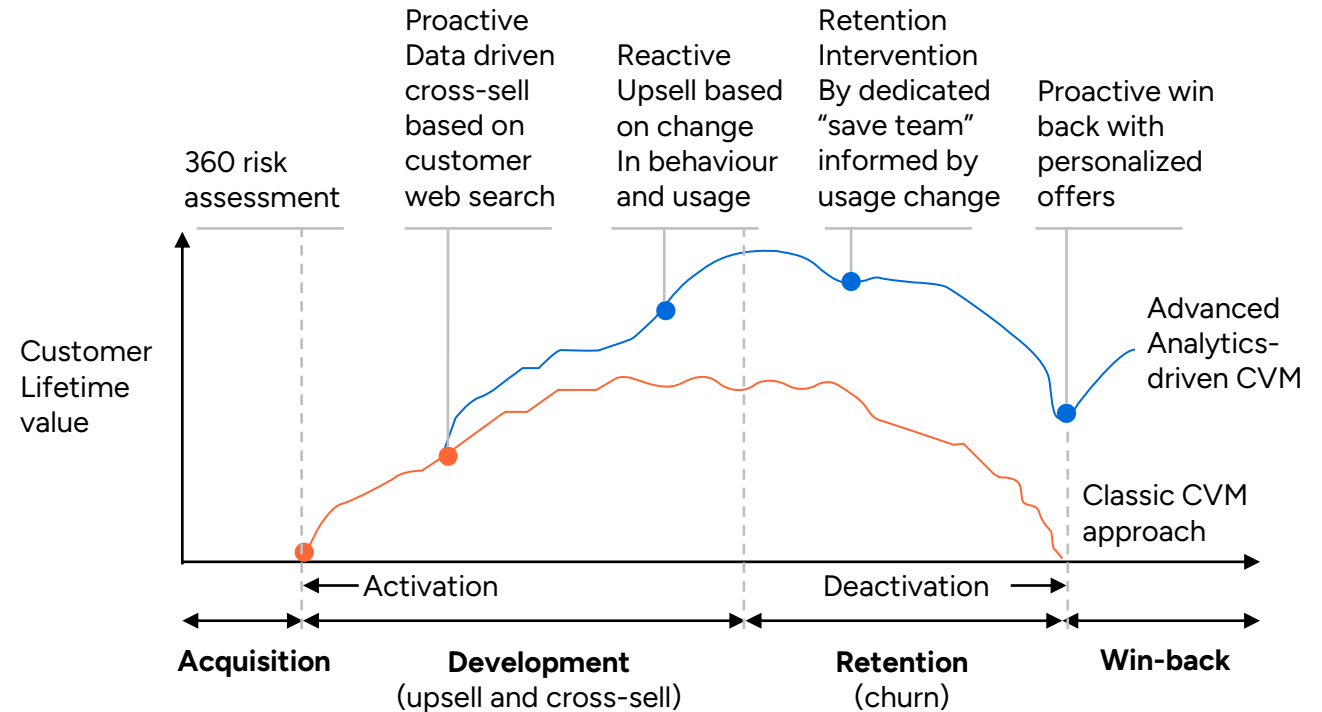
Agile Operating Model



Capability Building

A comprehensive approach to data-driven personalization

Operators can transform Customer Value Management (CVM) by deploying analytics to maximize value throughout the customer lifecycle, personalizing every interaction



Source :McKinsey & Company

Analytics-driven CVM transforms telcos into customer-centric powerhouses, personalizing interactions across the lifecycle

Growing Enterprise Demand for Multi-Access Edge Computing (MEC)

- **MEC Use Cases:** From AR/VR to industrial robotics, MEC enables a range of ultra-low-latency applications vital for Industry 4.0
- **Immediate MEC Opportunities:** Gaming, video analytics, and AR/VR are poised for growth, pending alignment with 5G edge capabilities
- **5G & MEC Integration:** The combination offers new business models and real-time services, transforming user experiences
- **Telecom Edge:** Service providers and vendors will benefit from the MEC demand, enhancing telecom's role in IoT and smart solutions
- **Innovations in Connectivity:** The MEC market's evolution, driven by 5G, paves the way for breakthroughs in autonomous tech and smart infrastructures

Benefits of MEC



Decreased latency

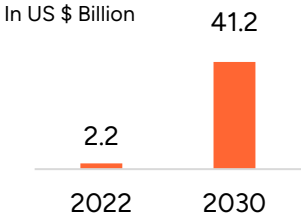


Greater security and reliability

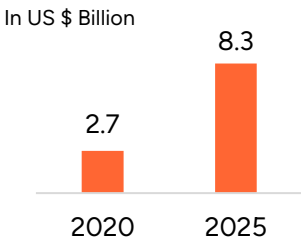


Scalability and savings

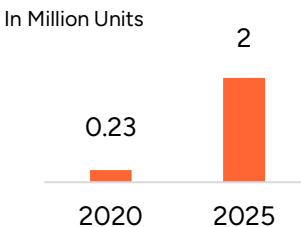
MEC Market Size



Network Operator Spending on MEC



MEC Nodes



Use Cases for Multi-Access Edge Computing by Category and Required Latency:

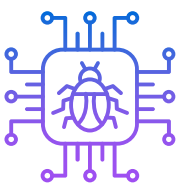
Category	Use Case	Latency
AR/VR/Gaming	AR/VR motion-to-photon	7-15 ms
	Collaborative Gaming	<20 ms
Industrial	Motion Control	0.5-2ms
	Control-to-Control Communication	<=10ms
	Mobile Robots: Precise cooperative robotic motion control, Machine Control, Cooperative driving, Real time video streaming	1ms to 100ms
Automotive	Wireless Roadside Backhaul	10 ms
	Sensor Sharing	<20ms
	Platooning	<= 10 ms
	Remote Driving Information Sharing	<=5 ms
	Cooperative Collision Avoidance	<=10ms
Transport and Logistics	Time Critical Sensing	<30 ms
	Remote Drone Operation	10-30 ms
Smart Cities	Smart Grid	<30 ms

MEC & 5G: Catalyzing Next-Gen Connectivity, Driving Telecom to the Forefront of Enterprise Innovation

Meeting Enterprise-wide need for Cybersecurity

- Telecoms hold **critical infrastructure**, making them prime targets for impactful cyber-attacks and data breaches
- Theft of **customer data** and financial information poses significant **extortion and fraud** risks
- Cyber-attacks can cause service disruption, **website damage, and severe reputational harm** to telecom operators
- Telecom firms consider **AI (47%)** and **Blockchain (39%)** to be the top cybersecurity trends

Cybersecurity Threats Facing Telecom Companies:



APTs: Complex cyber-attacks targeting data theft or operational disruption, typically by nation-states or funded groups

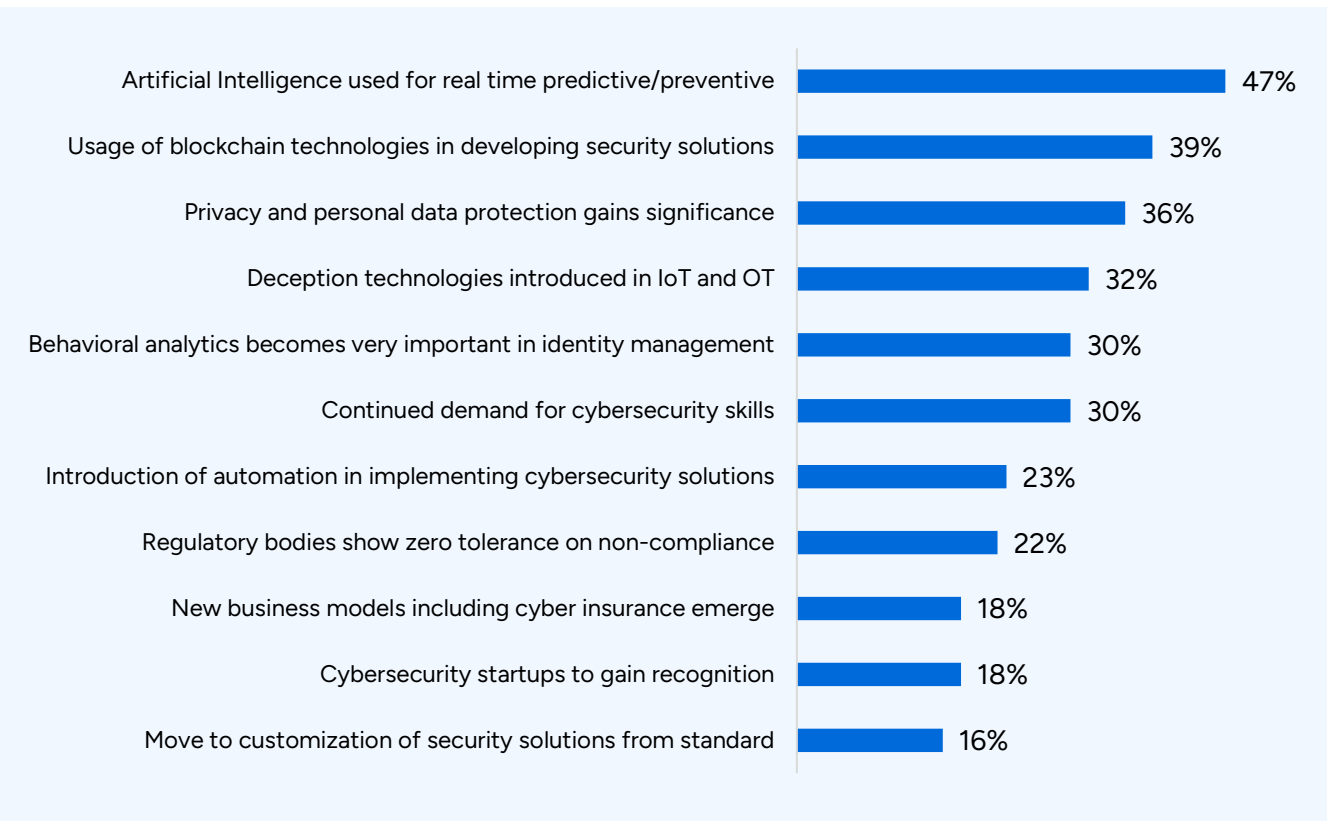


RDP: A remote access protocol vulnerable to malware exploiting its flaws for unauthorized control



DDoS attacks flood networks, denying access to genuine users

Figure 2: Key Cybersecurity Trends



Telecom service providers navigating the cyber threat landscape to safeguard infrastructure and customer trust

Telcos Elevate IoT Influence: From Connectivity to Comprehensive Solutions

- IoT evolution drives telecoms to adapt, leveraging high IoT maturity for competitive value-added services
- Installed IOT devices projected to hit **25.1 billion by 2027**, signaling a device-dense future
- Sensor tech growth in **auto, manufacturing, retail** spurs higher demand for telecom connectivity services
- Telecoms uniquely poised to offer **cost-efficient, central connectivity** in the burgeoning IoT landscape
- Telecom industry's pivot to **IoT services** capitalizes on existing strengths, offering new business avenues



40%

of Telecom Enterprises are strongly involved in IoT Initiatives



70%

of European Enterprises consider cost reduction and enhanced efficiency the major factors of IoT adoption

Drivers of IoT Adoption



Decreasing cost of CPU, Memory & Storage



Increasing Device Proliferation



Convergence of IT & Operational Technology

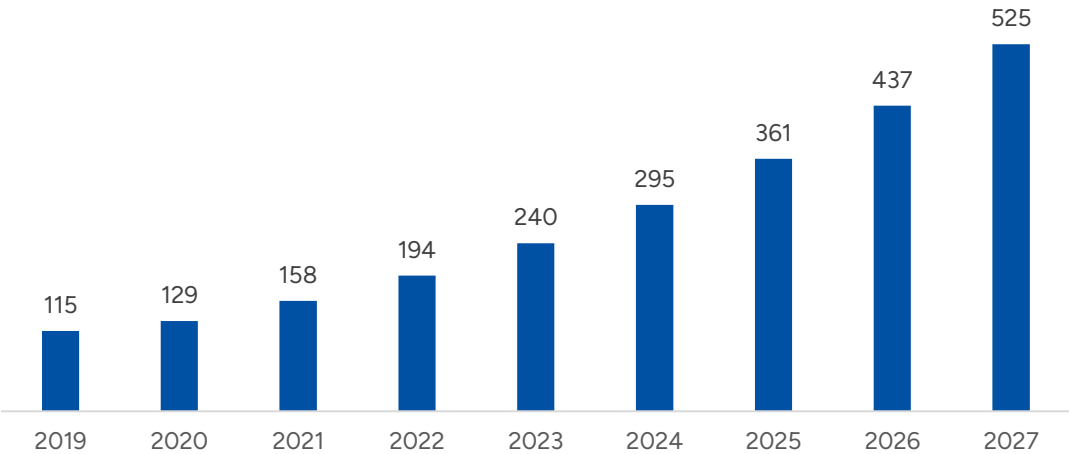


Advent of Big Data & Cloud

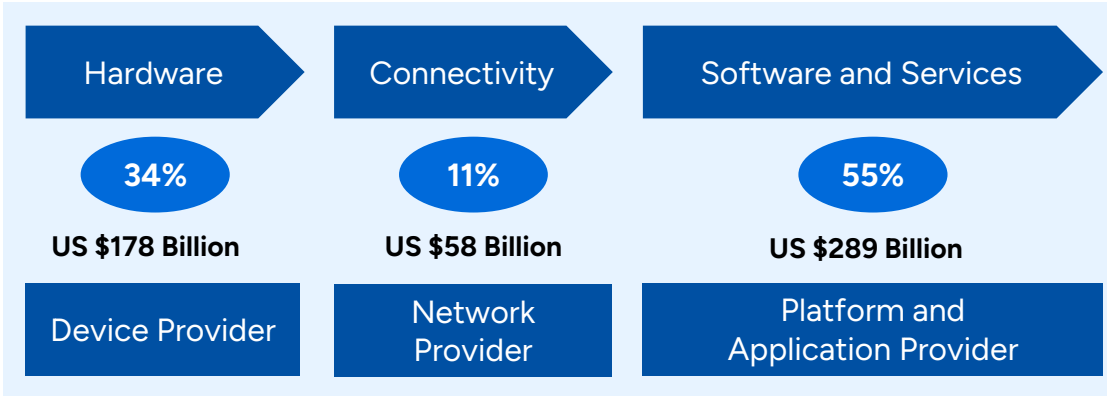


VC Spend and Investment

Figure 3: Global Enterprise IoT Revenue Market Size in USD Billion¹



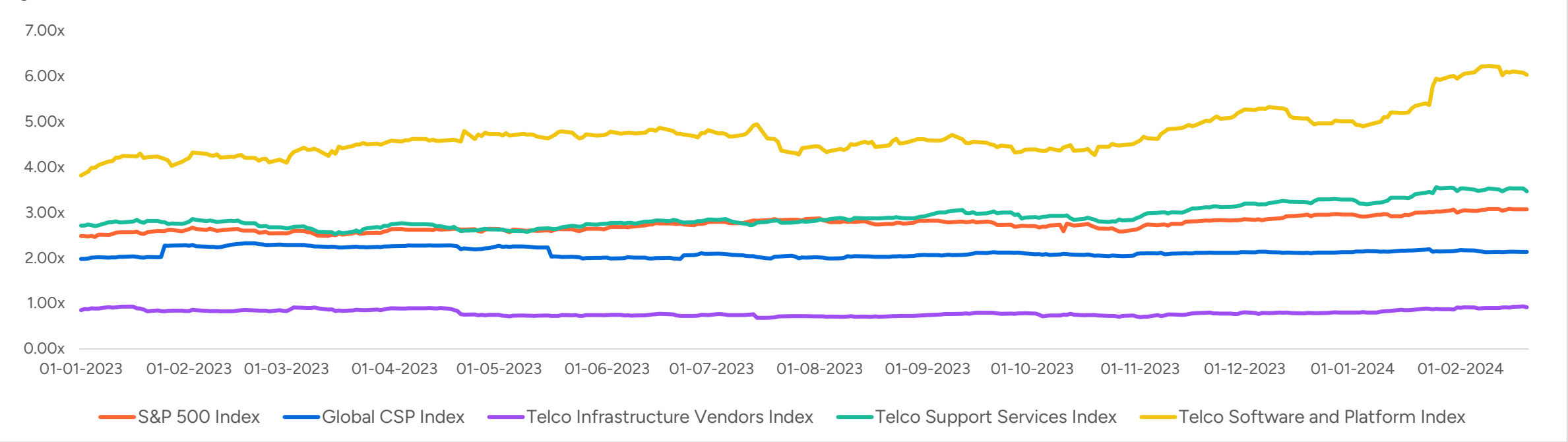
IoT Value Chain Composition and Contribution by Each Segment in 2027



IoT Expansion: A golden opportunity for telecoms to lead in connectivity and innovation

Telecom Sector Valuation: Outpacing the S&P 500

Figure 4: Telecom Sector Index vs S&P 500 Index



- **Telco Software Outperforms S&P 500:** Trading at 6X in Jan 2024, reflecting a robust demand for innovative digital solutions
- **Support Services Index Gains:** Achieves 3.47X in Jan 2024, surpassing S&P 500, driven by the growing need for specialized telecom services

Appendix:

Global CSP Index: AT&T, Vodafone, Telefonica, Singtel, Telstra, China Mobile, NTT Group, Verizon

Telco Infrastructure Vendors Index: Ericsson, Nokia, NEC, Cisco Systems, Juniper Networks

Telco Support Services Index: Accenture, IBM, Wipro, TCS, HCL, Tech Mahindra

Telco Software and Platforms: Oracle, SAP, Amdocs, Juniper Networks,

Telco Software and Support Services indices surpass S&P 500, highlighting the value in telecom's digital and support sectors



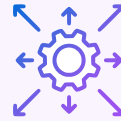
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Market Analysis

SECTION II

Key Drivers for M&A Activity in Telecommunications Sector

Enhanced Customer Experience



- **Advanced Tech Acquisition for Customer Interaction:** M&A activity focuses on acquiring mobile, AI, and self-service technologies to enhance personalized customer experiences
- **Customer-Centric M&A Strategy in Telecom:** Telecom M&As strategically adopt customer-focused service models, leveraging technology to improve market stance and consumer loyalty
- **Netwo's Strategic Acquisition by Altitude Group:** The acquisition of Netwo by Altitude Group exemplifies M&A aimed at offering a **comprehensive telecom infrastructure marketplace**, automating tasks for efficient **client service delivery**

Diversification of Services



- **Expansion Through M&A:** Telecoms pursue M&A to integrate services like cloud computing, BPO, and cybersecurity, catering to evolving customer demands and driving new revenue
- **Enhancing Competitive Advantage:** Mergers and acquisitions enable telecoms to broaden their service offerings, including managed services and network security, to improve competitiveness and customer loyalty
- **Acquisition of Expertise:** Orange Business Services' acquisition of Expertise emphasizes its commitment to augmenting cloud services, aiding businesses, especially SMBs, in their cloud migration journeys

Enhancing Cybersecurity Capabilities



- **Cybersecurity Focus in M&A:** With increasing cyber threats, telecom firms are prioritizing acquisition of robust cybersecurity solutions to protect data and ensure secure communications
- **Security-First Network Integration:** Acquisitions of cybersecurity firms empower telecoms to integrate advanced security into networks, ensuring a trusted, secure customer experience
- **Cybersecurity Deal Prevalence:** Since January 2024, cybersecurity-related transactions have represented approximately **20.8% of** total telecom M&A deals, underlining its strategic priority

Increased Private Equity Interest



- **PE's Role in Consolidation:** PE firms often act as catalysts for consolidation, buying up smaller players to create larger entities that can compete more effectively in the telecom market
- **Strategic Value Addition:** Beyond capital, PE brings expertise in operational efficiency and market strategy, which can be vital for telecom companies looking to scale and innovate
- Recently, **AfricInvest** acquired **Netis Holdings**, and **Vector Capital** took over **Riverbed Technologies**, showcasing significant PE-driven M&A activity

Strategic M&A shaping telecom's future: Enhanced customer experience, diversified services, fortified security, and PE-driven consolidation

M&A Activity Analysis : Communications & Networking Deals (Jan 2023 – Jan 2024)

Date	Target	Buyers	Country
Communications and Networking			
Jan 2024	 Kaiser & Partners	 earnsccliffe strategies	
Jan 2024	TELENOVA	 tecce group	
Jan 2024	 RPM COMMUNICATIONS	 BOWMARK CAPITAL	
Jan 2024	 IPC	 Syp	
Jan 2024	FORZA TELECOM	 FAFL	
Dec 2023	 Merkator Above Below	Sofindev	
Dec 2023	 ROSACE La Fibre Optique en Réseau	 LNGE	
Nov 2023	DIGICAST	 Desjardins Capital	
Nov 2023	 infotel	 VINCI ENERGIES	
Nov 2023	 Spriggs	 ubeo	
Oct 2023	 TIETJEN TECHNOLOGIES INC.	 NLG NORLEE GROUP	
Sep 2023	 OnX	MCA	
Sep 2023	 NIUTECH	 Sun4Energy	
Sep 2023	 M	 Groupe Baelen	
Aug 2023	DENSOU	 CORE CONCEPT TECHNOLOGY INC.	
Jul 2023	 evolutio	 lyntia	
Jul 2023	 SYSTEMICS P&B Network Quality Experts	 apave	
Jul 2023	mimomax	 UBIIX	
Jul 2023	Artificial Intelligence & Machine Learning Business	 Lucy	
Jul 2023	 OnCell Telecom	 Bluewave TECHNOLOGY GROUP	

Date	Target	Buyers	Country
Jun 2023	 ELEONET	fiber experts	
Jun 2023	 city media	SV Group	
May 2023	 Sandeul Networks	Wizone	
May 2023	 FONEBOX	 maxo TELECOMMUNICATIONS	
May 2023	 Diamond Communications LLC	 CanalPointe CAPITAL	
Apr 2023	 radonika	funkwerk	
Apr 2023	flight3	flightstory	
Apr 2023	LINE Clova	LINE WORKS	
Mar 2023	MobiKOM	 Altamir	
Mar 2023	 wiseCONNECT	 GRIDSOURCE	
Mar 2023	Personlig svarsservice	 RESPONDA GROUP	
Mar 2023	 ANE ADAMS NETWORK ENGINEERING	 Deutsche Beteiligungs AG	
Feb 2023	 RACOM	 EASTERN COMMUNICATIONS LTD.	
Feb 2023	 VIATEK	AURICA	
Jan 2023	 CONNECTED NATION	 CONNECTED NATION	
Jan 2023	 Intrado	 symbio	
Jan 2023	 Koslowski	 Brockhaus	
Jan 2023	 SpatialNetworkX	LUMINE	
Jan 2023	 tellza	 MEXEDIA	
Jan 2023	 mts	Entrypoint South	

M&A Activity Analysis : Services (Jan 2023 – Jan 2024) (1/2)

Date	Target	Buyers	Country
Telco IT & Managed Services			
Jan 2024	Aveney		
Jan 2024			
Dec 2023			
Dec 2023			
Dec 2023			
Dec 2023			
Dec 2023			
Dec 2023			
Dec 2023			
Nov 2023			
Nov 2023			
Nov 2023			
Nov 2023			
Nov 2023			
Nov 2023			

Date	Target	Buyers	Country
Oct 2023	JDM	IT Relation	
Oct 2023		U • S T	
Oct 2023			
Oct 2023			
Oct 2023		FIVESP★RK	
Sep 2023			
Sep 2023			
Sep 2023			
Sep 2023			
Sep 2023			
Aug 2023			
Aug 2023			
Aug 2023			
Aug 2023			
Aug 2023			

M&A Activity Analysis : Services (Jan 2023 – Jan 2024) (2/2)

Date	Target	Buyers	Country
Telco IT and Managed Services			
Aug 2023	 rSolutions VISIBILITY DRIVES ACTION	 GALLANT CAPITAL	
Aug 2023	 InfoSkill INFORMATION SKILLS	 Falkon Technologies	
Aug 2023	Novasa	 shape	
Aug 2023	 STRATA CONSULTING	 BlueAlly	
Jul 2023	 STRONGBOW CONSULTING GROUP	 accenture	
Jul 2023	 izitek	 AXIO IT CAPITAL EXCHANGE	
Jul 2023	 CuraTec	 ram infotechnology	
Jul 2023	 EMR integrated solutions	 erisbeg	
Jul 2023	 AVANCE ICT GROEP NEDERLAND	 IT-Synergy	
Jul 2023	 A WISE SECURITY a verigroup company	 Sesa	
Jun 2023	 SMP SECURITY MANAGEMENT PARTNERS	 GRAVOC	
Jun 2023	 LightHouse Your Beacon in the World of Technology™	 IRON EDGE	
Jun 2023	 dek TECHNOLOGIES	 endava	
Jun 2023	 Bluegrass Computer Services a Modern Networks company	 modern networks	
Jun 2023	 GCS IT PROVIDED BY TELCO	 Evergreen	

Date	Target	Buyers	Country
Jun 2023	 Pivot Point SECURITY	 CBIZ	
May 2023	 machineLOGIC™ A SOURCEPASS COMPANY	 SOURCEPASS™	
May 2023	 celito	 MCG PARTNER	
May 2023	 nte	 babble	
May 2023	 ACRONOMICS TECHNOLOGY GROUP POWER OPERATIONS GROUP	 ITSolutions™	
May 2023	 serverius IT INFRASTRUCTURE	 CapMan	
May 2023	 LA JOLLA LOGIC	 AURIA	
Apr 2023	 Zetacom	 AVEDON CAPITAL PARTNERS	
Apr 2023	 Benkgroep IT & Telecom	 hallo,	
Apr 2023	 PATCH ADVISOR WORLD-CLASS VULNERABILITY ASSESSMENTS	 CORE4CE	
Apr 2023	 3T 3 TENANTS OPTIMIZATION	 GAINS MOVE FORWARD FASTER	
Mar 2023	 Set Solutions	 TRACE3	
Mar 2023	 Stellarise	 VE-LOC-ITY TECHNOLOGY GROUP	
Mar 2023	 ClearShark	 OPTIV	
Mar 2023	 Integra Data Analytics Group	 INSA	

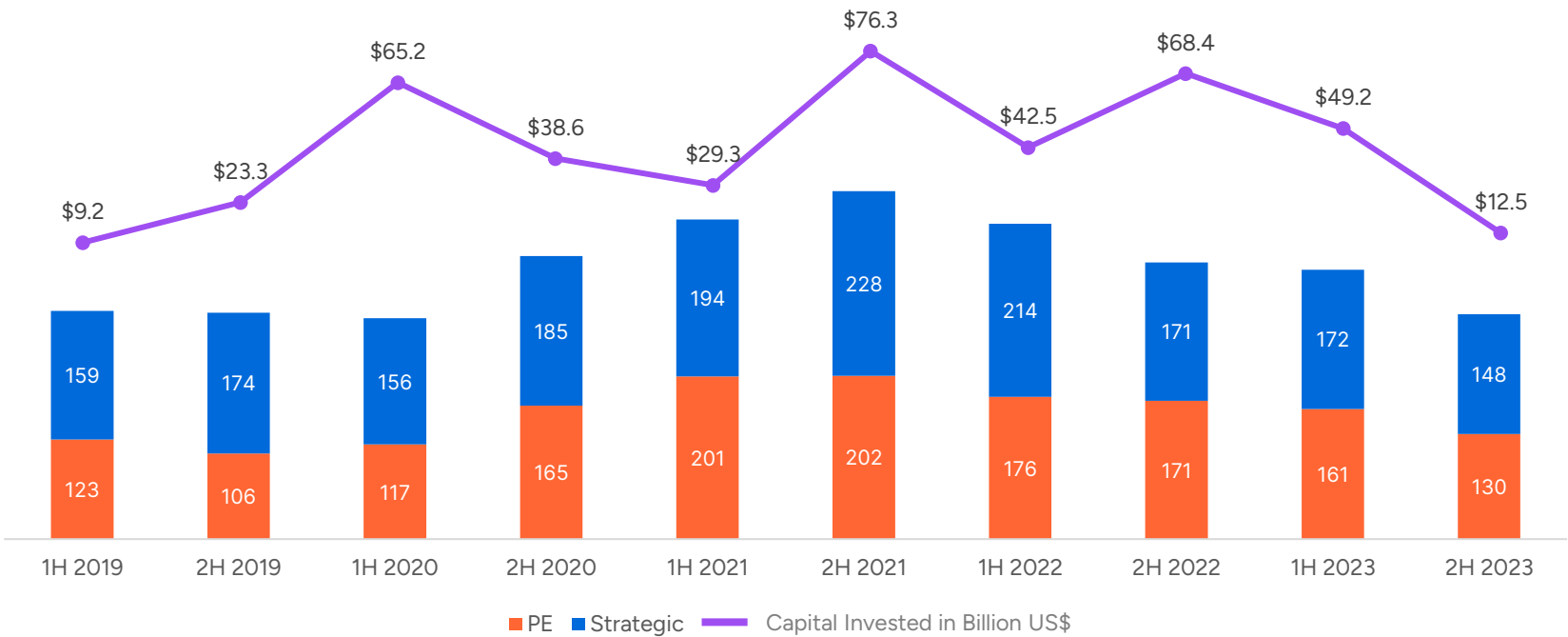
M&A Activity Analysis : Software (Jan 2023 – Jan 2024)

Date	Target	Buyers	Country	Date	Target	Buyers	Country
Telecom Software and Platforms				Jul 2023			
Jan 2024				Jul 2023			
Jan 2024				Jul 2023			
Jan 2024				Jul 2023			
Jan 2024				Jun 2023			
Jan 2024				Jun 2023			
Jan 2024				Jun 2023			
Dec 2023				May 2023			
Dec 2023				May 2023			
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Nov 2023				Mar 2023			
Oct 2023				Mar 2023			
Oct 2023				Mar 2023			
Oct 2023				Mar 2023			
Oct 2023				Mar 2023			
Oct 2023				Feb 2023			
Oct 2023				Feb 2023			
Sep 2023				Jan 2023			
Sep 2023				Jan 2023			
Aug 2023							
Aug 2023							
Aug 2023							

M&A Activity: Semi-Annual Trends

- **2021 Surge Driven by COVID-19:** The pandemic catalyzed M&A activity in 2021, emphasizing digital transformation and strategic innovation needs.
- **Strategic Deals for Resilience:** Strategic transactions through 2021 highlight efforts to consolidate and build resilience, driven by the pandemic's challenges.
- **Cybersecurity as a Growth Engine:** Rising cyber threats have propelled the cybersecurity market, with over 10% annual growth driving strategic acquisitions of key players and startups.
- **PE Investment Adaptability:** PE's flexibility showcased in the variability of transactions, peaking in 2021 as firms adapted to digital acceleration demands.
- **Mid-Market Resilience in 2024:** While larger deals have slowed, mid-market M&A activity remained robust in 2024, reflecting adaptability and ongoing opportunities for strategic growth

Figure 5: Number of M&A Transactions : 2019-2024



	Year-Wise M&A Transactions	3,353	732	611
		2019-23	2022	2024

Mid-market M&A thrives in 2024, reflecting strategic shifts and cybersecurity's rising importance in deal-making

M&A Activity Analysis by Area of Specialization

Communications and Networking Deals (36%)

- Heavy investment in solutions and services enhancing enterprise communication infrastructure
- Growth in consulting, management, and maintenance services for Telecom and ISPs
- Deals fuel digital infrastructure optimization, including in telecom tower companies and IoT investments

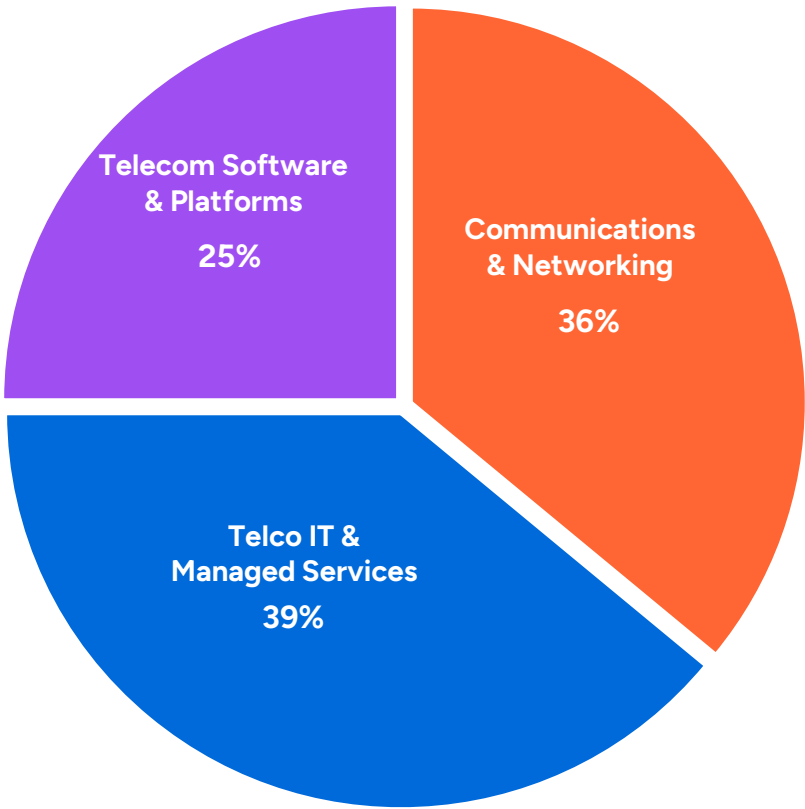
Telecom IT and Managed Services(39%)

- Managed & Cybersecurity Services Growth: Surge in demand for managed services and cybersecurity offerings for telecom and enterprises
- Cloud & Disaster Recovery Importance: Increasing reliance on cloud computing, data center services, and disaster recovery solutions

Telecom Software and Platforms (25%)

- PE Investment Continues: Software deals, especially those offering cybersecurity and collaboration tools, attract PE interest
- Software vendors acquiring new capabilities and entering new markets to diversify offerings

Figure 6: M&A's (%) by Focus Areas in CY 2023

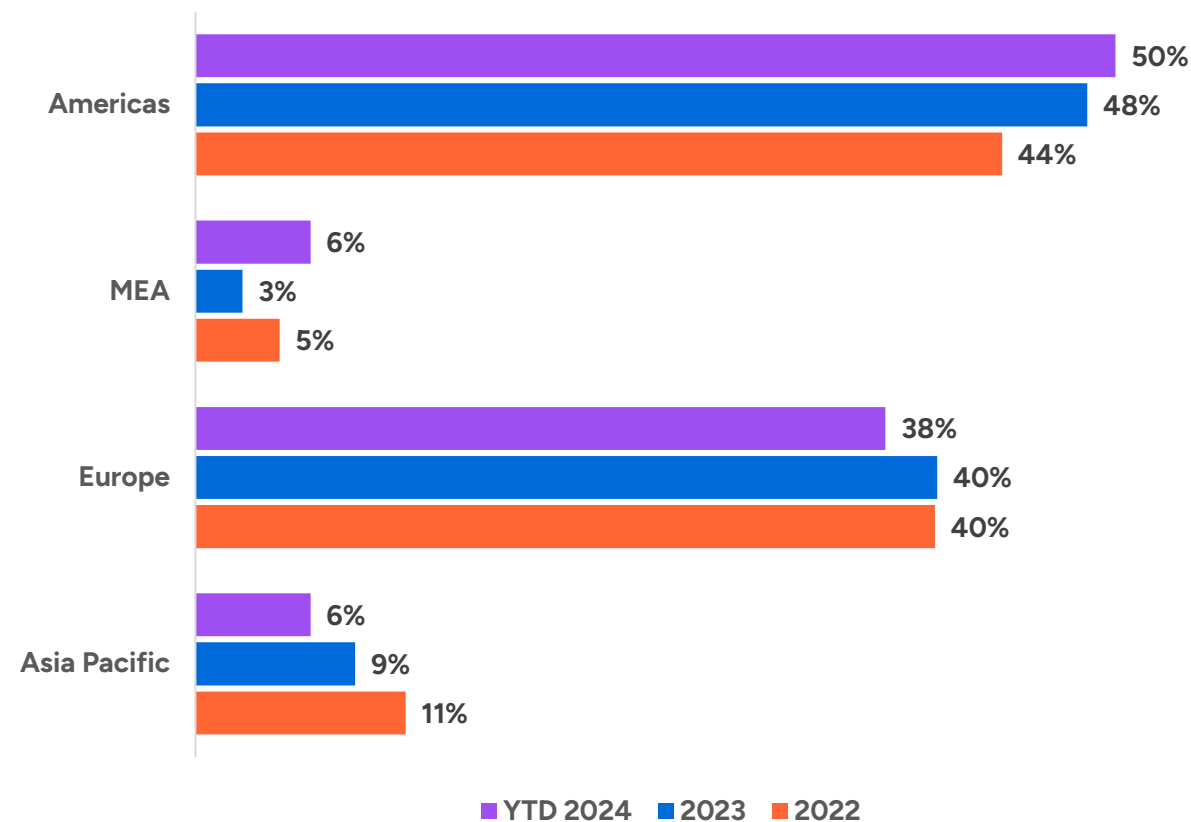


Telecom M&A driven by specialization: Leading with IT & Managed Services, followed by Communications & Networking, and innovative Software & Platforms

M&A Activity : Geographical Analysis

- **Americas Expand Amid High Rates:** M&A activity grows, with Americas showing increased deal share, resilient to interest rate challenges and macroeconomic headwinds
- **MEA Uptick Signals Opportunity:** In 2024 (YTD), MEA experiences a rise in M&A deals, suggesting a new frontier for telecom investments
- **Europe's Steady M&A Presence:** Europe maintains a consistent share, reflecting a stable investment landscape despite concerns over the global and European economic outlook from continued uncertainty over the war in Ukraine and the impact of it on rising energy costs in the region
- **Asia Pacific Faces Constraints:** Declining M&A deal share in Asia Pacific hints at tightening capital and a mature market

Figure 7: M&A's (%) by Geography - CY 2022 vs CY 2023 vs YTD 2024



Amid economic headwinds, Americas surge in M&A, MEA rises, Europe holds firm, while Asia Pacific contends with market maturity

Key Takeaways

Drivers of Growth for Telecom Sector

- **Telco Capex Sustains Growth:** \$290B to \$301B from 2016 to 2024, adapting to 5G and IoT demands
- **IT & Cloud Investments Surge:** Enterprise and Hyperscaler Capex soar, emphasizing cloud adoption and infrastructure enhancement
- **Innovation Drives Capex Rise:** AI, edge computing, and cybersecurity investments mark telecom's focus on technological advancement
- **Strategic M&A Amidst Headwinds:** Telecoms engage in cautious yet strategic M&A, navigating economic and geopolitical challenges
- **Telecom Outstrips S&P 500:** Specific telecom indices outperform S&P 500, showcasing sector strength in software and support services
- **Rise of generative AI:** More companies across industries are prioritizing M&A activity that enable them to add tech capabilities and be at the forefront of the AI revolution

Outlook for 2024 and Beyond

- Telcos' bundling to shift to digital services, targeting revenue growth by enhancing subscription management and app-driven customer engagement
- Gaming, AR and Entertainment key to drive 5G consumer revenues
- More use cases of generative AI in Telecom to be Identified
- Telcos to turn ROI-positive on B2B, leveraging marketplaces and CVM to become digital enablers beyond connectivity

M&A Activity

- M&A Drive: Strategic investors acquire AI, mobile tech and cybersecurity companies
- 3,353 M&A deals since 2019 by both strategic and Private Equity investors in almost equal proportion
- Prominent mergers, including Netis Holdings acquisition by Africinvest, Riverbed Technologies by Vector Capital and Mobilecomm Professionals by UST Global

Technology Holdings' Transaction Track Record

Technology Holdings (TH) is exclusively focused on **M&A and capital raising advisory services to Technology Services, Software, Consulting, Healthcare Life Sciences and Business Process Management Companies**. Over 23 years, TH has built deep expertise in digital platforms, with global reach and extensive strategic buyer and private equity relationships to help clients navigate through a sale and/or capital raise process, and to secure premium valuations.



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(US \$100M –US \$250M)



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