

ESG Platforms, Global, 2025

Top 10 Strategic Imperatives Driving the Transformation



TRANSFORMATIONAL GROWTH JOURNEY

Workshop Discussion Guide
Powered by the Transformation
Growth Engine

Our Focus Today

STRATEGIC IMPERATIVE

Why Now? Why This? Why
You?

OUR SOLUTION

The Top Growth Opportunities
Impacting Future Potential

BENEFITS & IMPACTS

Survive & Thrive:
Transformation

Next Step

Growth Workshop

How is your organization maximizing its future growth potential?

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Frost & Sullivan Analytics Methodology

Analytics Conceptualization	<p>We apply the SI 8 Framework, a strategic planning tool that identifies, categorizes, and prioritizes key trends over defined time horizons. It operates at two levels:</p> <ul style="list-style-type: none">• Strategic Imperatives (SIs): High-level themes (e.g., digital transformation, sustainability) scored based on relevance, macro trends, and expert input.• Developments: Specific changes under each SI, evaluated by factors like historical context, technological maturity, and market response. <p>Trends are classified by time horizon, type (e.g., tech, regulatory), and certainty. A prioritization matrix maps SI and Development Impact Scores to highlight focus areas. Regular reviews ensure adaptability to market dynamics.</p>
Data Leverage Optimization	<p>We harness over 60 years of proprietary research and insight to identify industry-shaping imperatives.</p> <ul style="list-style-type: none">• Data Procurement: Involves extensive secondary research from industry publications, ecosystem websites, databases, search engines, and generative AI tools.• Data Analysis: Data is validated with internal and external experts, then used to build quantitative models and forecasts that support strategic insights.
Frost Growth Team Integration	<p>Our cross-functional team—Growth Experts, Coaches, tech analysts, and data specialists—collaborates to analyse, prioritize, and refine key imperatives driving industry transformation.</p>
Growth Opportunities & Best Practices	<p>We identify emerging opportunities and highlight organizations leading transformation, enabling clients to anticipate change and maintain competitive advantage.</p>
Growth Expert Workshops	<p>We conduct strategic workshops led by experts and coaches to deliver actionable insights and equip clients to navigate transformation effectively.</p>
Client Interaction	<p>We foster alignment through custom discussion guides and collaborative workshops.</p> <ul style="list-style-type: none">• Analytics Intelligence:<ul style="list-style-type: none">◦ Structure analytics using defined frameworks◦ Develop qualitative and quantitative content◦ Identify data gaps for primary research• Analytics Delivery:<ul style="list-style-type: none">◦ Apply quality control and editing◦ Deliver insights in client-preferred formats◦ Ensure clarity, accuracy, and actionability

Source: Frost & Sullivan

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Dear CEOs and Growth Teams,

Transformation is Coming!

We are entering a profound era of transformation driven by the Intelligence Revolution, which will reshape industries, redefine business operations, and impact every part of your organization—from company, customers, employees, and industry to operations and competition.

This document is designed to:

- Present a leadership-focused transformation model to help analyze change drivers and prioritize key areas for a strategic roadmap
- Empower your company to not only adapt but lead and grow in this evolving landscape

Transformation Workshops Drive Impact

Our work with leading organizations shows that real change starts with leadership alignment, best achieved through an interactive, coach-led workshop.

- This workshop sparks cross-functional dialogue, builds clarity around shared goals, and accelerates a focused transformation strategy
- An outline is included in this document and can be tailored for your team by an experienced Growth Coach

How to Use This Document

This is more than a presentation—it's a strategic guide to help your leadership team engage in meaningful transformation discussions, design an alignment-driven workshop, and apply Frost & Sullivan's decades of insights and frameworks.

- Incorporates the proprietary HIDIAI™ model, built on 60+ years of experience and global research
- Provides proven practices for driving growth through alignment, innovation, and execution

Next Steps

We invite you to review the workshop framework and consider its fit for your organization.

Connect with us at Frost & Sullivan to explore a tailored approach for your leadership team and take the next step in your transformation journey.

Thank you for your time and consideration

Sincerely yours,



David Frigstad
Chairman
Frost & Sullivan

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CONTRIBUTORS TO THIS WORKSHOP DISCUSSION GUIDE

TRANSFORMATIONAL GROWTH JOURNEY TEAM



John Raspin
Partner & Global Head of Growth
Opportunity Analytics (GOA)



Brent Iadarola
Associate Partner, Analytics



Arpita Singh
Consulting Analyst

CUSTOMER ENGAGEMENT TEAM



Nathan Halabrin
Account Director



Roger Frigstad
Account Director



Fernando Serra
VP, Best Practices

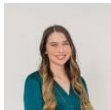
TELLING YOUR STORY TEAM



Lindsey Whitaker
Marketing Specialist



Tarini Singh
Sr. Promotions Exec



Ahsley Shreve
Marketing Coordinator



Camila Tinajero
Marketing Specialist

CUSTOMER VALUE ENHANCEMENT TEAM



Greg Caressi
Leader, Americas



Gary Jeffrey
Leader, EU



Ravi Krishnaswamy
Leader, APAC



Abhay Bhargava
Leader, MEASA



Aroop Zutshi
Global Managing Partner



Krishna Srinivasan
Global Managing Partner



Jeff Frigstad
SVP, Best Practices

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WHY NOW? WHY THIS? WHY YOU?

1. Unprecedented Market Evolution:

- Rapid tech advancements and changing consumer expectations are transforming the global economy.
- Geopolitical uncertainties add to the volatility and complexity of the business environment.
- Businesses must adapt continuously and remain agile to stay competitive and relevant.

2. Resistance to change:

- Internal inertia and cultural resistance hinder companies from adapting to market changes.
- Legacy systems and fear of the unknown contribute to this resistance.
- Failure to embrace transformation can lead to organizational decline.

3. Hidden Growth Drivers:

- Organizations often miss hidden drivers of transformative growth.
- These include emerging customer needs, new models, or untapped markets.
- Identifying and acting on them is key to long-term success.

4. Framework Clarity Gap:

- Lack of a clear transformation framework leads to misaligned goals and priorities.
- Ambiguity in execution causes confusion, delays, and resource waste.
- Strategic clarity and defined roles are essential for impactful outcomes.

5. Survival by Strategy:

- Survival today depends on strategic choices, not chance.
- Decisive action with insight, speed, and alignment drives transformation.
- Clear, actionable strategies distinguish market leaders from laggards

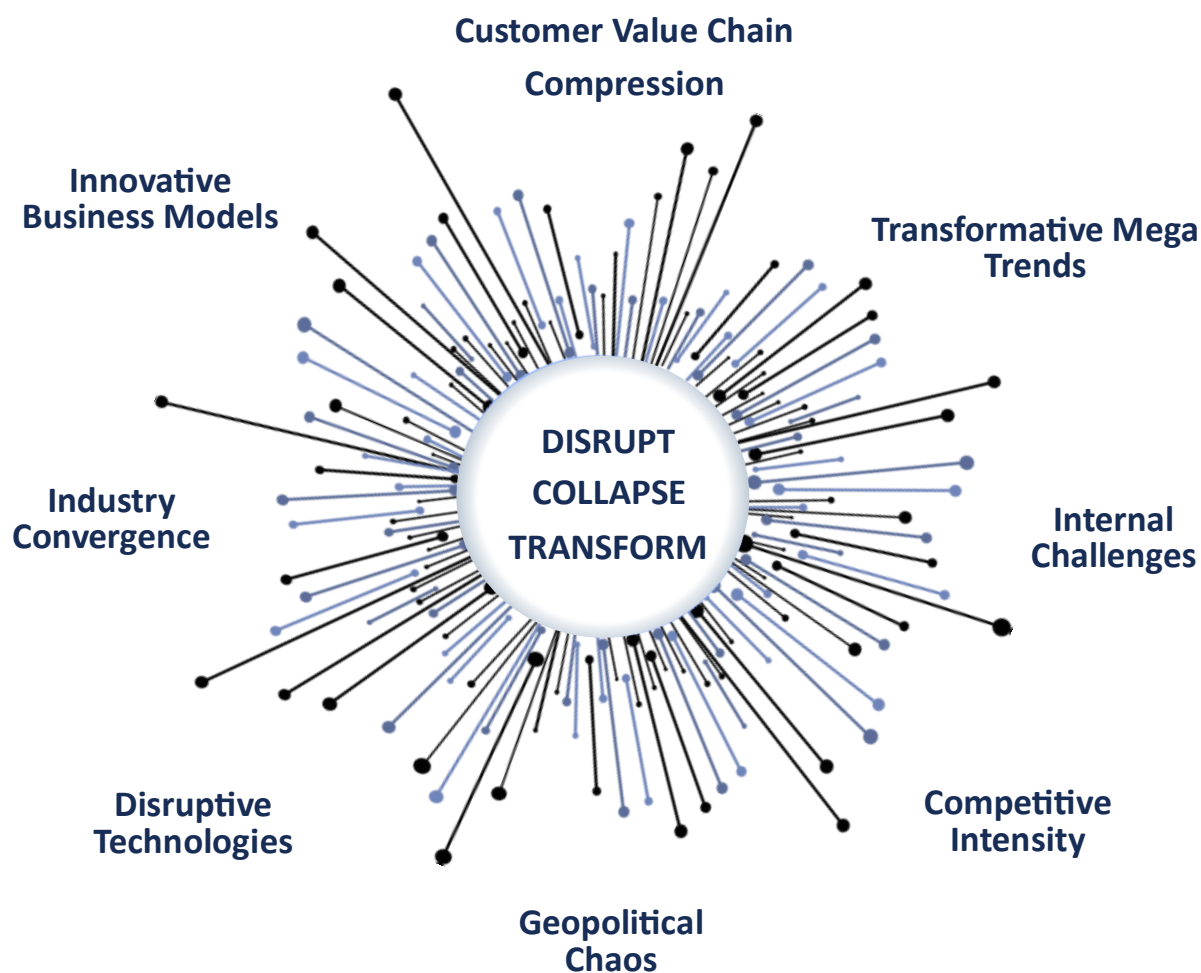
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TRANSFORMATION IN ESG & CLIMATE TECH

Why Is It Increasingly Difficult to Grow?

Exhibit 1: The Strategic Imperative 8™: Factors Creating Pressure on Growth



Source: Frost & Sullivan

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Exhibit 2: The Strategic Imperative 8™ Defined

Innovative Business Models	A new revenue model that defines how a company creates and capitalizes economic value, typically impacting its value proposition, product offering, operational strategies, and brand positioning
Customer Value Chain Compression	Customer value chain compression because of advanced technologies, internet platforms, and other direct-to-consumer models that enables reduction in friction and the number of steps in customer journeys
Transformative Mega Trends	Global forces that define the future world with their far-reaching impact on business, societies, economies, cultures, and personal lives
Internal Challenges	The internal organizational behaviors that prevent a company from making required changes
Competitive Intensity	A new wave of competition from start-ups and digital business models that challenge the standing conventions of the past, compelling established industries to rethink their competitive stance
Geopolitical Chaos	Chaos and disorder arising from political discord, natural calamities, pandemics, and social unrest that impact global trade, collaboration, and business security
Disruptive Technologies	New, disruptive technologies that are displacing the old, and significantly altering the way consumers, industries, or businesses operate
Industry Convergence	Collaboration between previously disparate industries to deliver on whitespace cross-industry growth opportunities

Source: Frost & Sullivan

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Exhibit 3: Top Transformations Impacting Growth in ESG & Climate Tech, Global, 2025

Rank	Strategic Imperative Category	Strategic Imperative	Impact Score (%)	Timeline	Duration Curve
1	Transformative Megatrends	Global adoption of carbon-neutral laws affecting all sectors	72	2025–2045	Logistic
2	Geopolitical Chaos	Regulatory changes due to political shifts in major economies	71	2026–2039	Linear
3	Transformative Megatrends	Rise of urban vertical farming driven by AI and robotics	66	2026–2044	Polynomial
4	Internal Challenges	Resistance to digital transformation in traditional energy sectors	64	2025–2032	Oscillatory
5	Industry Convergence	Partnerships between automotive and energy companies for EV infrastructure	63	2027–2037	Logistic
6	Compression of Value Chains	Use of AI for predictive analytics in sustainable supply chain management	61	2027–2041	Exponential
7	Competitive Intensity	Global expansion of ESG-focused fintech companies	59	2029–2043	Exponential
8	Disruptive Technologies	Quantum computing applications for complex climate modeling and prediction	58	2027–2040	Polynomial
9	Internal Challenges	Lack of skilled workforce to implement ESG technologies effectively	55	2028–2040	Exponential
10	Industry Convergence	Cross-industry initiatives to standardize ESG reporting	54	2029–2043	Exponential

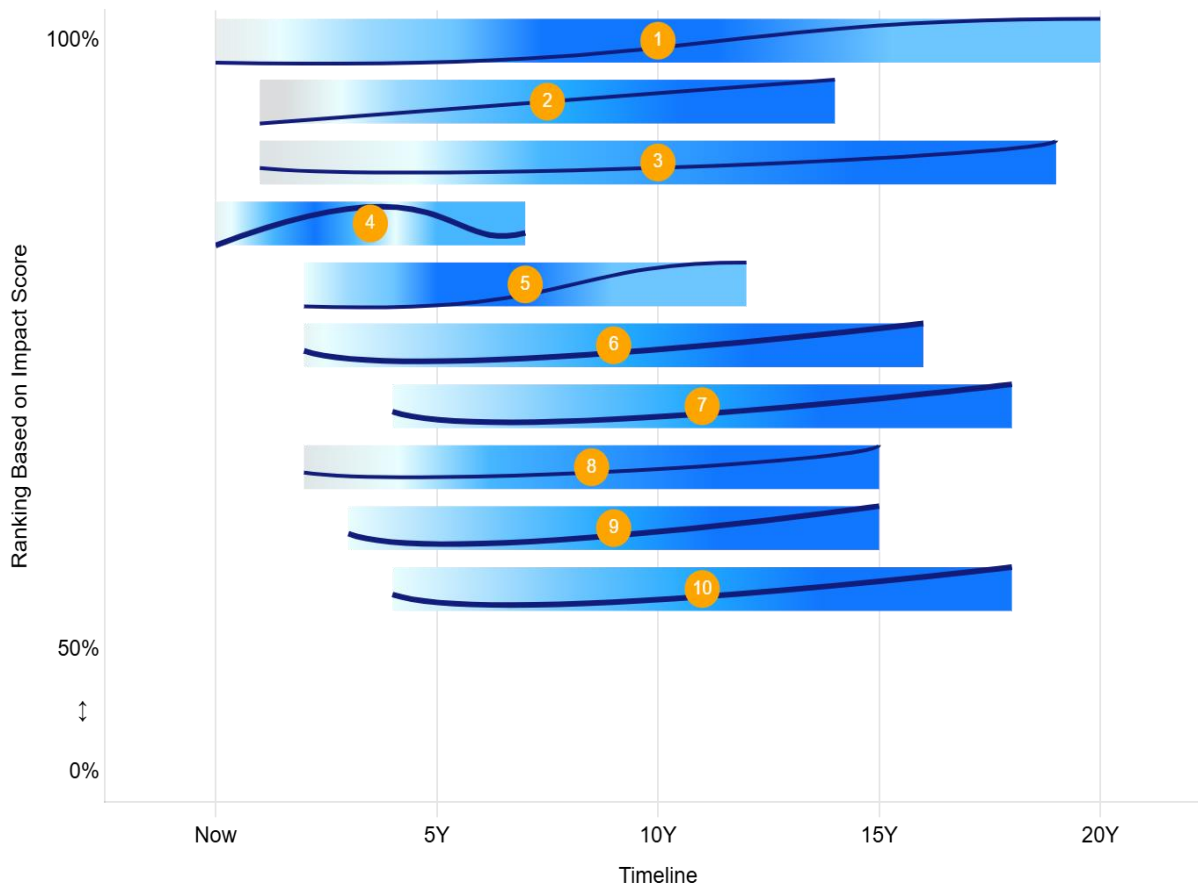
Source: Frost & Sullivan

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The x-axis represents the timeline while the y-axis represents the ranking by magnitude of impact. The color gradient indicates the impact curve changing over time between moderate and high.

Exhibit 4: Top Transformations Impacting Growth in ESG & Climate Tech, Global, 2025



Source: Frost & Sullivan

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Strategic Imperative 1: Global adoption of carbon-neutral laws affecting all sectors

Driving industry-wide innovation and sustainability, transformative megatrends catalyze the integration of carbon-neutral practices that redefine competitive advantage, operational efficiency, and regulatory compliance across sectors.

- **Accelerated Innovation in Clean Technologies:** The imperative to meet stringent carbon-neutral targets is propelling rapid advancements in renewable energy, carbon capture, and sustainable materials. Industries are investing heavily in R&D, with clean technology patents increasing by over 35% annually, enabling new product lines and services that align with global sustainability goals. This surge in innovation fosters competitive differentiation and long-term resilience.
- **Shift in Capital Allocation and Investment Flows:** Financial markets are increasingly prioritizing ESG-compliant companies, with global sustainable investment assets surpassing \$40 trillion in 2023 and projected to grow at a CAGR of 12% through 2030. This shift compels industries to realign capital expenditure toward low-carbon infrastructure and circular economy models, influencing strategic planning and shareholder value creation.
- **Transformation of Supply Chains and Operational Models:** Industries are redesigning supply chains to minimize carbon footprints, leveraging digital tools for real-time emissions tracking and adopting localized sourcing to reduce transportation emissions. This transformation enhances supply chain transparency and resilience, with companies reporting up to 25% reductions in Scope 3 emissions within five years of implementation.
- **Regulatory Compliance and Market Access Dynamics:** Evolving carbon-neutral regulations are creating new compliance frameworks that industries must navigate to maintain market access. Non-compliance risks include financial penalties and restricted trade opportunities, incentivizing proactive adaptation strategies. Early adopters benefit from preferential treatment in government contracts and consumer markets increasingly favoring sustainable brands.
- **Consumer Behavior and Brand Equity Evolution:** There is a marked increase in consumer demand for environmentally responsible products, with 72% of global consumers willing to pay a premium for sustainable goods as of 2023. This trend drives industries to embed carbon neutrality into brand identity and product development, fostering loyalty and opening new market segments focused on ethical consumption.

Growth opportunities sparked by the increasing adoption of IoT devices powered by Android

- **Carbon-Neutral Product Innovation** Developing new products that meet carbon-neutral standards, enabling companies to cater to environmentally conscious consumers and comply with regulations.
- **Sustainable Supply Chain Solutions** Implementing technologies and practices that enhance supply chain transparency and sustainability, reducing carbon emissions across logistics and production processes.
- **Carbon Credit Trading Platforms** Creating digital platforms that facilitate the buying and selling of carbon credits, allowing companies to offset their emissions and invest in green projects.
- **Energy Efficiency Services** Offering consulting and technology solutions that help businesses optimize energy use, reduce waste, and achieve carbon neutrality in operations.
- **Green Financing Models** Developing financial products that support investments in sustainable technologies and practices, enabling companies to fund their transition to carbon neutrality.

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- **Circular Economy Initiatives** Promoting business models that focus on recycling, reusing, and reducing waste, aligning with carbon-neutral goals and appealing to eco-conscious consumers.

Companies to Action sparked by the increasing adoption of IoT devices powered by Android

- **Tesla** Leading the electric vehicle market with innovative technologies that promote carbon neutrality and sustainable energy solutions.
- **Unilever** Implementing sustainable sourcing and production practices to reduce carbon footprints across its product lines globally.
- **Siemens** Investing in smart infrastructure and energy-efficient technologies that help industries transition to carbon-neutral operations.
- **Microsoft** Committing to becoming carbon negative by 2030, leveraging technology and innovation to reduce emissions across its operations and supply chain.
- **Nestlé** Adopting sustainable practices in sourcing and production to meet carbon-neutral goals and enhance brand reputation among consumers.
- **Schneider Electric** Providing energy management and automation solutions that help businesses achieve carbon neutrality and improve operational efficiency.

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Strategic Imperative 2: Regulatory changes due to political shifts in major economies

Regulatory changes due to political shifts in major economies intensify geopolitical chaos, compelling industries to rapidly adapt supply chains, compliance frameworks, and market strategies to sustain resilience and competitive advantage.

- **Supply Chain Disruptions and Realignments:** Geopolitical chaos driven by regulatory shifts causes significant supply chain volatility, with 68% of global companies reporting increased disruptions in 2023. Industries must diversify sourcing and localize production to mitigate risks, leading to increased operational costs but enhanced long-term resilience. This realignment accelerates nearshoring trends, especially in manufacturing and technology sectors, reshaping global trade flows.
- **Compliance Complexity and Increased Costs:** The evolving regulatory landscape introduces multifaceted compliance requirements across jurisdictions, increasing operational complexity and costs by an estimated 15-20% for multinational corporations. Companies face heightened risks of penalties and trade restrictions, necessitating investments in advanced compliance technologies and legal expertise to navigate dynamic political environments effectively.
- **Market Access and Trade Barrier Fluctuations:** Frequent changes in trade policies and tariffs create unpredictable market access, impacting revenue streams and strategic planning. Industries such as automotive and electronics experience up to 25% fluctuations in export volumes due to sudden regulatory impositions, forcing firms to adopt agile market entry strategies and diversify customer bases to sustain growth.
- **Innovation and Strategic Pivoting:** Geopolitical chaos drives accelerated innovation as firms seek to circumvent regulatory constraints and capitalize on emerging opportunities. For example, the energy sector is witnessing a 30% increase in investments in alternative energy technologies as companies pivot away from politically sensitive regions, fostering new competitive dynamics and technological breakthroughs.
- **Capital Flow Volatility and Investment Shifts:** Political instability and regulatory unpredictability lead to fluctuating capital flows, with foreign direct investment (FDI) in affected regions declining by up to 18% in recent years. This volatility compels industries to reassess risk profiles, prioritize investments in stable jurisdictions, and increase liquidity buffers, fundamentally altering global investment patterns and growth trajectories.

Growth Opportunities sparked by the Rapid Innovation Cycles by Established Brands

- **Enhanced ESG Compliance Solutions** Developing advanced software and consulting services to help companies navigate the evolving ESG regulatory landscape in response to political shifts.
- **Sustainable Investment Platforms** Creating platforms that facilitate investments in companies adhering to new ESG regulations, attracting capital from socially conscious investors.
- **Green Technology Innovations** Investing in R&D for technologies that reduce carbon footprints and enhance sustainability, aligning with stricter ESG compliance requirements.
- **Regulatory Advisory Services** Offering specialized consulting services to help businesses adapt to new regulations and ensure compliance with changing ESG standards.
- **ESG Data Analytics** Leveraging big data and AI to provide insights into ESG performance metrics, helping companies improve their compliance and reporting processes.

Companies to Action sparked by the Rapid Innovation Cycles by Established Brands

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- **Sustainalytics** A leading provider of ESG and corporate governance research and ratings, helping companies navigate regulatory changes globally.
- **BlackRock** As a major investment management firm, BlackRock is focusing on sustainable investment strategies that align with evolving ESG regulations.
- **Envirosuite** A technology company that offers environmental management solutions, helping businesses comply with new ESG standards through innovative software.
- **MSCI** A global provider of investment decision support tools, MSCI offers ESG ratings and analytics to help investors and companies adapt to regulatory changes.
- **EcoVadis** A provider of sustainability ratings, EcoVadis helps companies assess their ESG performance and compliance in light of new regulations.

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Strategic Imperative 3: Rise of urban vertical farming driven by AI and robotics

Harnessing AI and robotics in urban vertical farming revolutionizes food production efficiency and sustainability, fundamentally reshaping agricultural supply chains and urban ecosystems within transformative megatrends.

- **Maximized Resource Efficiency and Yield:** AI-driven vertical farms optimize water, nutrient delivery, and energy use, achieving up to 90% less water consumption and 80% less land use compared to traditional farming. This precision agriculture approach enables consistent year-round crop production, significantly increasing yield per square meter and reducing resource waste in urban environments.
- **Supply Chain Resilience and Localization:** By integrating AI and robotics, vertical farming enables hyper-local food production, drastically reducing transportation distances and associated carbon emissions by up to 70%. This localization strengthens supply chain resilience against global disruptions, such as pandemics or climate events, ensuring steady food availability in densely populated urban centers.
- **Labor Transformation and Skill Demand:** Automation through robotics reduces manual labor requirements by over 50%, shifting workforce demand towards high-skilled roles in AI management, system maintenance, and data analytics. This transition drives the need for workforce reskilling and creates new employment opportunities in urban agri-tech sectors, influencing labor market dynamics within the industry.
- **Environmental Impact and Urban Sustainability:** Urban vertical farming powered by AI significantly lowers greenhouse gas emissions by minimizing land clearing and reducing reliance on long-haul food transport. The integration of these farms into urban infrastructure supports circular economy principles, such as waste recycling and energy efficiency, contributing to cities' climate goals and sustainable development targets.
- **Market Expansion and Consumer Trends:** The rise of AI-enabled vertical farming meets increasing consumer demand for fresh, pesticide-free, and locally sourced produce, driving a projected market growth rate of over 25% annually through 2030. This trend fosters new business models focused on direct-to-consumer sales and smart retail integration, reshaping competitive dynamics in the food production and distribution industry.

Growth Opportunities sparked by the Integration of Smartphones with Automotive Tech

- **AI-Enhanced Crop Monitoring** Utilizing AI algorithms to monitor crop health and optimize growth conditions in urban vertical farms, leading to increased yields and reduced resource consumption.
- **Robotic Harvesting Solutions** Implementing robotics for automated harvesting processes in vertical farms, reducing labor costs and increasing efficiency in urban agriculture.
- **Smart Irrigation Systems** Developing AI-driven irrigation systems that optimize water usage based on real-time data, enhancing sustainability in urban farming practices.
- **Urban Farming as a Service (UFaaS)** Creating subscription-based models for urban vertical farming solutions, allowing businesses and consumers to access fresh produce without the need for ownership of farming infrastructure.
- **Data-Driven Supply Chain Optimization** Leveraging AI to streamline supply chains for urban farms, ensuring timely delivery of produce and reducing food waste in urban areas.

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- **Community Engagement Platforms** Building platforms that connect urban farmers with local communities, promoting awareness and consumption of locally grown produce while fostering community support for urban agriculture.

Companies to Action sparked by the Integration of Smartphones with Automotive Tech

- **AeroFarms** A leader in vertical farming technology, AeroFarms utilizes AI and data analytics to optimize crop growth and resource efficiency in urban environments.
- **Plenty** An innovative vertical farming company that employs robotics and AI to enhance productivity and sustainability in urban agriculture.
- **Bowery Farming** Utilizing advanced technology and AI-driven systems, Bowery Farming focuses on delivering fresh produce while minimizing environmental impact in urban settings.
- **Vertical Harvest** A unique urban farm that integrates robotics and AI to maximize yield and efficiency, while also providing job opportunities for the local community.
- **Infarm** A company that specializes in modular vertical farming solutions, leveraging AI to optimize growth conditions and supply chain logistics in urban areas.
- **Farm.One** An urban farming initiative that uses technology to grow specialty crops in cities, focusing on sustainability and community engagement.

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Strategic Imperative 4: Resistance to digital transformation in traditional energy sectors

Addressing internal challenges enhances operational agility and workforce adaptability, enabling traditional energy companies to sustain competitiveness and drive innovation amid evolving market demands.

- **Operational Inefficiencies and Legacy Systems:** Internal resistance often perpetuates reliance on outdated infrastructure and manual processes, leading to inefficiencies that can increase operational costs by up to 20%. This stagnation hampers the ability to quickly respond to market changes and integrate advanced technologies, limiting overall productivity and scalability.
- **Talent Retention and Skill Gaps:** Resistance to digital transformation exacerbates skill mismatches within the workforce, with over 60% of energy sector employees lacking proficiency in emerging digital tools. This gap results in higher turnover rates and recruitment challenges, impeding the development of a digitally competent workforce essential for future innovation.
- **Delayed Decision-Making and Reduced Data Utilization:** Internal challenges restrict the adoption of data-driven decision-making frameworks, causing delays in strategic responses by an average of 30%. Limited access to real-time analytics undermines predictive maintenance and operational optimization, reducing competitive advantage and increasing downtime risks.
- **Cultural Barriers to Innovation:** Entrenched organizational cultures resistant to change inhibit cross-functional collaboration and experimentation, leading to a 25% slower pace of innovation compared to digitally progressive peers. This cultural inertia restricts the exploration of new business models and technologies critical for long-term sustainability.
- **Compliance and Risk Management Vulnerabilities:** Failure to embrace digital tools for regulatory compliance and risk assessment increases exposure to operational and environmental risks. Companies facing internal resistance report up to 15% higher incidences of non-compliance penalties, which can damage reputation and incur significant financial costs.

Growth Opportunities sparked by Enhancing Security Measures Against Cyberattacks

- **Digital Training Programs for Workforce** Implementing comprehensive training initiatives to upskill employees in digital tools and technologies, fostering a culture of innovation and adaptability.
- **Integration of IoT Solutions** Leveraging Internet of Things (IoT) technologies to enhance operational efficiency and data collection, enabling real-time monitoring and predictive maintenance in energy operations.
- **Cloud-based Energy Management Systems** Adopting cloud solutions for energy management to streamline operations, improve data accessibility, and facilitate better decision-making processes.
- **Collaborative Platforms for Innovation** Creating platforms that encourage collaboration between traditional energy companies and tech startups to drive innovation and accelerate digital transformation.
- **Sustainability-focused Digital Solutions** Developing digital tools that support sustainability initiatives, such as carbon tracking and energy efficiency analytics, to align with global sustainability goals.

Companies to Action sparked by Enhancing Security Measures Against Cyberattacks

- **Siemens** A global leader in digital industries, Siemens is actively developing IoT solutions and digital training programs to enhance operational efficiency in traditional energy sectors.
- **Schneider Electric** Focusing on sustainability and digital transformation, Schneider Electric offers cloud-based energy management systems that help companies optimize their energy usage and reduce carbon footprints.

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- **General Electric (GE)** GE is investing in digital solutions for predictive maintenance and operational efficiency, integrating IoT technologies into their energy management systems.
- **Accenture** As a consulting firm, Accenture partners with energy companies to implement digital transformation strategies, including workforce training and collaborative innovation platforms.
- **Enel** An energy company that is leveraging digital tools to enhance sustainability efforts and improve customer engagement through innovative digital solutions.

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Strategic Imperative 5: Partnerships between automotive and energy companies for EV infrastructure

Driving industry convergence accelerates the creation of integrated ecosystems that combine automotive innovation with energy infrastructure, unlocking new revenue streams and enhancing customer value through seamless EV experiences.

- **Acceleration of Integrated Ecosystems:** The convergence fosters tightly coupled networks where automotive manufacturers and energy providers co-develop EV charging infrastructure, enabling seamless interoperability and user experience. This integration is projected to increase EV adoption rates by up to 30% by 2030, as consumers benefit from more accessible and reliable charging options.
- **Optimization of Energy and Mobility Services:** By merging automotive and energy capabilities, companies can optimize energy distribution and load management through smart grids linked to EV fleets. This synergy is expected to reduce peak energy demand by 15-20%, lowering operational costs and enhancing grid stability while supporting sustainable energy utilization.
- **Creation of New Business Models and Revenue Streams:** Industry convergence enables innovative offerings such as vehicle-to-grid (V2G) services, subscription-based charging, and bundled mobility-energy packages. These models are forecasted to generate an additional \$50 billion in annual revenue globally by 2030, diversifying income sources beyond traditional vehicle sales.
- **Enhanced Data Sharing and Analytics:** Collaborative partnerships facilitate the exchange of real-time data on vehicle usage, charging patterns, and energy consumption, driving advanced analytics for predictive maintenance and personalized services. This data-driven approach can improve operational efficiency by 25% and enhance customer satisfaction through tailored solutions.
- **Regulatory and Standardization Advancements:** Convergence pressures regulators to harmonize standards for EV charging, energy transactions, and interoperability, accelerating policy frameworks that support scalable infrastructure deployment. Standardization efforts are expected to reduce infrastructure rollout costs by approximately 10-15%, enabling faster market penetration and cross-border EV mobility.

Growth Opportunities sparked by the Integration of AR for Enhanced Mobile Shopping

- **Expansion of Charging Networks** Automotive and energy companies collaborating to create extensive EV charging networks, enhancing accessibility and convenience for EV users.
- **Integration of Renewable Energy Sources** Partnerships focusing on integrating solar and wind energy into EV charging stations, promoting sustainability and reducing carbon footprints.
- **Smart Charging Solutions** Development of intelligent charging systems that optimize energy use based on grid demand and user behavior, improving efficiency and user experience.
- **Battery Swapping Infrastructure** Collaborative efforts to establish battery swapping stations, allowing for quick battery exchanges and reducing downtime for EV users.
- **Shared Mobility Platforms** Joint ventures between automotive and energy firms to create platforms for shared electric vehicles, enhancing urban mobility and reducing congestion.

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- **Data Analytics for Charging Optimization** Utilizing data analytics to improve the placement and operation of charging stations, ensuring they meet user demand and maximize utilization.

Companies to Action sparked by the Integration of AR for Enhanced Mobile Shopping

- **Tesla** Leading the charge in EV infrastructure with its Supercharger network, partnering with energy companies to expand charging capabilities globally.
- **ChargePoint** A prominent EV charging network provider that collaborates with automotive manufacturers and energy firms to enhance charging infrastructure.
- **BP** An energy giant investing in EV charging solutions and forming partnerships with automotive companies to expand its network of charging stations.
- **Shell** Engaging in strategic partnerships with automotive companies to develop EV charging infrastructure, focusing on integrating renewable energy sources.
- **Volkswagen** Partnering with energy firms to create a robust charging network as part of its commitment to electric mobility and sustainability.
- **Enel X** A global leader in smart charging solutions, collaborating with automotive manufacturers to optimize EV charging infrastructure and promote renewable energy integration.

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Strategic Imperative 6: Use of AI for predictive analytics in sustainable supply chain management

Compression of Value Chains accelerates end-to-end supply chain responsiveness and sustainability, enabling industries to reduce waste, optimize resource use, and enhance competitive agility in a rapidly evolving market.

- **Enhanced Real-Time Decision Making:** Compression of value chains enables near-instantaneous data flow and predictive insights across suppliers, manufacturers, and distributors. This real-time visibility reduces lead times by up to 30%, allowing companies to swiftly adjust production schedules and inventory levels, minimizing stockouts and overproduction.
- **Increased Supply Chain Transparency and Traceability:** Shortened value chains facilitate greater transparency by integrating data from all stakeholders, improving traceability of raw materials and finished goods. This leads to a 40% improvement in compliance with sustainability standards and regulatory requirements, fostering consumer trust and reducing risks related to unethical sourcing.
- **Reduction in Carbon Footprint and Resource Waste:** By compressing the value chain, companies can optimize logistics routes and production processes, significantly cutting down transportation distances and energy consumption. Studies show a potential reduction of up to 25% in greenhouse gas emissions, directly contributing to corporate sustainability goals and regulatory commitments.
- **Cost Efficiency through Leaner Operations:** Streamlined value chains reduce intermediary steps and redundancies, leading to a decrease in operational costs by approximately 15-20%. This cost efficiency arises from lower inventory holding costs, reduced warehousing needs, and minimized delays, enhancing overall profitability while supporting sustainable practices.
- **Acceleration of Innovation Cycles:** A compressed value chain fosters closer collaboration between R&D, suppliers, and customers, enabling faster feedback loops and quicker product iterations. This can shorten product development cycles by up to 35%, allowing companies to rapidly respond to market trends and sustainability demands, maintaining competitive advantage.

Growth Opportunities sparked by the Expansion of 5G Networks in Emerging Markets

- **AI-Driven Predictive Analytics for Supply Chain Resilience** Utilizing AI algorithms to forecast potential disruptions in supply chains, enabling proactive measures to enhance operational resilience and sustainability.
- **Sustainable Resource Optimization** Implementing AI tools to analyze resource usage and waste in supply chains, leading to more sustainable practices and reduced environmental impact.
- **Real-Time Supply Chain Monitoring** Leveraging AI for continuous monitoring of supply chain activities, allowing companies to respond swiftly to changes and maintain sustainability goals.
- **Enhanced Supplier Collaboration** Using AI to facilitate better communication and collaboration with suppliers, ensuring alignment on sustainability practices and reducing overall supply chain risks.
- **Circular Economy Integration** Employing AI to identify opportunities for recycling and reusing materials within supply chains, promoting a circular economy and reducing waste.
- **Dynamic Inventory Management** Implementing AI-driven inventory systems that adapt to real-time data, optimizing stock levels while minimizing waste and improving sustainability efforts.

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Companies to Action sparked by the Expansion of 5G Networks in Emerging Markets

- **IBM** Utilizing AI and blockchain technology to enhance supply chain transparency and sustainability across various industries globally.
- **SAP** Integrating AI capabilities into its supply chain management solutions to help companies predict disruptions and optimize resource usage.
- **Microsoft** Leveraging its Azure AI platform to provide predictive analytics tools for businesses aiming to enhance their supply chain sustainability.
- **Siemens** Implementing AI-driven solutions in manufacturing and supply chain processes to improve efficiency and sustainability practices.
- **Amazon** Using advanced AI algorithms to optimize logistics and supply chain operations, focusing on reducing costs and enhancing sustainability.
- **DHL** Adopting AI technologies to improve supply chain visibility and efficiency, while also focusing on sustainable logistics practices.

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Strategic Imperative 7: Global expansion of ESG-focused fintech companies

Intensified competitive dynamics drive accelerated innovation and market differentiation, compelling ESG-focused fintech firms to continuously enhance value propositions and operational efficiencies.

- **Innovation Acceleration:** Heightened competition compels ESG fintech firms to rapidly innovate, integrating advanced AI-driven ESG analytics and blockchain transparency features. This fosters differentiation, with recent data showing a 35% increase in ESG product launches year-over-year, directly impacting customer acquisition and retention.
- **Pricing and Cost Efficiency Pressure:** Competitive intensity forces firms to optimize cost structures and offer more competitive pricing models, including subscription-based and usage-based pricing for ESG data services. This trend has led to an average 15% reduction in client acquisition costs across leading ESG fintechs, enhancing market penetration.
- **Strategic Partnerships and Ecosystem Expansion:** To maintain competitive advantage, companies increasingly form strategic alliances with global asset managers, regulators, and data providers, expanding their ecosystem reach. Such partnerships have grown by over 40% in the past two years, enabling faster scaling and richer ESG data integration.
- **Regulatory Compliance as a Differentiator:** With rising regulatory scrutiny on ESG disclosures, firms that proactively embed compliance capabilities gain competitive leverage. Recent surveys indicate that 70% of institutional investors prefer fintech partners with robust regulatory alignment, making compliance a critical competitive factor.
- **Global Market Penetration and Localization:** Competitive intensity drives ESG fintechs to tailor offerings to diverse regulatory and cultural contexts across regions, enhancing local relevance. This localization strategy has contributed to a 25% increase in market share in emerging economies within the last 18 months, signaling a shift towards more region-specific competitive tactics.

Growth Opportunities sparked by Localization of Data Centers Due to Privacy Laws

- **Global ESG Investment Platforms** Development of comprehensive platforms that facilitate access to a wide range of ESG investment options, catering to both retail and institutional investors.
- **AI-Driven ESG Analytics** Utilizing artificial intelligence to provide real-time analytics and insights on ESG performance, helping investors make informed decisions.
- **Green Bonds and Sustainable Financing** Expansion of financial products like green bonds that fund environmentally sustainable projects, appealing to socially conscious investors.
- **Decentralized Finance (DeFi) for ESG** Leveraging blockchain technology to create decentralized financial solutions that promote transparency and accountability in ESG investments.
- **Impact Measurement Tools** Creating tools that measure the social and environmental impact of investments, enhancing investor confidence and engagement in ESG initiatives.

Companies to Action sparked by Localization of Data Centers Due to Privacy Laws

- **Aspiration** A fintech company that offers sustainable banking and investment options, focusing on socially responsible investments and green finance.
- **Betterment** An investment platform that provides ESG-focused portfolios, allowing users to invest in companies that align with their values.

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- **Wealthsimple** A Canadian fintech that offers socially responsible investment options, making it easy for users to invest in ESG-compliant funds.
- **OpenInvest** A platform that allows investors to customize their portfolios based on personal values and ESG criteria, promoting transparency in investment choices.
- **Clim8** A UK-based investment app that focuses on sustainable investments, enabling users to invest in companies that contribute positively to the environment.

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Strategic Imperative 8: Quantum computing applications for complex climate modeling and prediction

Harnessing disruptive technologies accelerates breakthroughs in climate modeling accuracy and speed, enabling transformative industry-wide innovations in environmental risk management and sustainability strategies.

- **Exponential Increase in Computational Power:** Disruptive advancements enable processing of climate data at speeds exponentially faster than classical systems, reducing simulation times from weeks to hours. This acceleration allows industries to rapidly iterate and refine predictive models, enhancing decision-making agility in climate-sensitive sectors such as agriculture, energy, and insurance.
- **Enhanced Predictive Accuracy and Resolution:** The ability to analyze complex, multidimensional climate variables simultaneously leads to unprecedented precision in forecasting extreme weather events and long-term climate trends. This improvement supports more reliable risk assessments and resource planning, potentially reducing economic losses by billions annually in vulnerable industries.
- **Catalyzing Innovation in Climate-Adaptive Technologies:** The refined insights derived from advanced modeling drive the development of next-generation climate-resilient infrastructure, materials, and energy systems. Industries can proactively design solutions tailored to specific regional climate projections, fostering competitive advantage and sustainability leadership.
- **Transformation of Regulatory and Compliance Frameworks:** With more accurate and timely climate predictions, regulatory bodies are empowered to implement dynamic, data-driven policies that reflect real-time environmental risks. This shift compels industries to adopt adaptive compliance strategies, accelerating the integration of sustainable practices and transparency in reporting.
- **Expansion of Collaborative Ecosystems and Data Sharing:** Disruptive technologies facilitate the creation of integrated platforms that aggregate climate data across sectors and geographies, promoting cross-industry collaboration. Enhanced data interoperability fosters innovation ecosystems that accelerate the development and deployment of climate solutions, amplifying collective impact on global sustainability goals.

Growth Opportunities sparked by Overcoming App Store Monopoly Issues

- **Quantum Climate Modeling** Leveraging quantum computing to perform advanced climate modeling and predictions, improving accuracy of climate-related decision making.
- **Enhanced Predictive Analytics** Utilizing quantum algorithms to analyze vast datasets for more precise climate forecasts, enabling better resource allocation and policy-making.
- **Real-time Climate Simulation** Implementing quantum computing to simulate climate scenarios in real-time, allowing for immediate adjustments in environmental strategies.
- **Cross-Industry Collaboration** Fostering partnerships between tech companies and environmental organizations to develop quantum solutions for climate challenges, enhancing innovation and impact.
- **Sustainable Energy Optimization** Applying quantum computing to optimize energy consumption and distribution in response to climate data, promoting sustainability and efficiency.

Companies to Action sparked by Overcoming App Store Monopoly Issues

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- **IBM** Leading in quantum computing research and development, IBM is actively working on quantum applications for climate modeling through its Quantum Experience platform.
- **Google** Utilizing its quantum computing capabilities to enhance climate prediction models, Google is exploring partnerships with environmental organizations to leverage its technology for climate solutions.
- **D-Wave Systems** Specializing in quantum annealing, D-Wave is developing applications for complex climate modeling, focusing on optimizing environmental data analysis.
- **Microsoft** Through its Azure Quantum platform, Microsoft is investing in quantum technologies aimed at improving climate modeling and predictive analytics for better decision-making.
- **Rigetti Computing** A quantum computing startup that is working on algorithms specifically designed for climate modeling, aiming to provide innovative solutions for environmental challenges.

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Strategic Imperative 9: Lack of skilled workforce to implement ESG technologies effectively

Addressing internal challenges related to workforce capability is critical to unlocking the full potential of ESG technologies, thereby enhancing operational efficiency and long-term sustainability outcomes.

- **Operational Inefficiencies and Delays:** A shortage of skilled personnel leads to slower deployment and integration of ESG technologies, causing project delays and increased operational costs. Recent industry reports indicate that up to 40% of ESG-related projects face timeline overruns due to skill gaps, directly impacting organizational agility and competitiveness.
- **Increased Compliance and Reporting Risks:** Insufficient expertise in ESG technology implementation can result in inaccurate data collection and reporting, elevating the risk of non-compliance with evolving regulatory standards. This exposes companies to potential fines and reputational damage, with regulatory penalties for ESG non-compliance increasing by over 25% in the past two years.
- **Stifled Innovation and Competitive Disadvantage:** Without a skilled workforce, organizations struggle to innovate or optimize ESG solutions, limiting their ability to differentiate in a market increasingly driven by sustainability credentials. This can lead to lost market share as competitors with advanced ESG capabilities attract more investors and customers prioritizing sustainability.
- **Higher Operational Costs and Resource Drain:** The need to outsource ESG technology implementation or invest heavily in training programs raises operational expenses significantly. Industry analyses show that companies lacking in-house ESG expertise spend on average 30% more on external consultants and training, reducing overall profitability and slowing return on investment.
- **Talent Acquisition and Retention Challenges:** The scarcity of skilled ESG technology professionals intensifies competition for talent, driving up recruitment costs and increasing employee turnover rates. Organizations report up to a 50% increase in recruitment expenses for ESG roles, complicating workforce planning and long-term strategic execution.

Growth Opportunities sparked by Adoption of Foldable Screen Technology by More Brands

- **ESG Skills Development Programs** Creating targeted training and certification programs to bridge the skills gap in ESG technologies, enhancing workforce capabilities and accelerating sustainability initiatives.
- **Partnerships with Educational Institutions** Collaborating with universities and technical schools to develop curricula focused on ESG technologies, ensuring a steady pipeline of skilled graduates ready to enter the workforce.
- **Upskilling and Reskilling Initiatives** Implementing internal training programs for existing employees to enhance their skills in ESG technologies, fostering a culture of continuous learning and adaptation.
- **ESG Technology Integration Services** Offering consulting services to help organizations effectively integrate ESG technologies into their operations, addressing the skills gap through expert guidance and support.
- **Online Learning Platforms for ESG** Developing accessible online courses and resources focused on ESG technologies, enabling a broader audience to gain the necessary skills and knowledge to contribute to sustainability efforts.

Companies to Action sparked by Adoption of Foldable Screen Technology by More Brands

- **Schneider Electric** A global leader in energy management and automation, Schneider Electric is investing in training programs to enhance workforce skills in ESG technologies globally.

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- **IBM** IBM is leveraging its expertise in technology to offer training and certification programs focused on ESG solutions, helping to close the skills gap in the industry.
- **Accenture** Accenture is partnering with educational institutions to create ESG-focused curricula and training programs, ensuring a skilled workforce for the future.
- **Siemens** Siemens is implementing upskilling initiatives for its employees, focusing on ESG technologies to enhance their capabilities and drive sustainability initiatives.
- **Coursera** Coursera is developing online courses specifically targeting ESG technologies, making education accessible to a global audience and addressing the skills gap in the workforce.

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Strategic Imperative 10: Cross-industry initiatives to standardize ESG reporting

Driving industry-wide alignment on sustainability metrics accelerates collaboration, innovation, and competitive differentiation through unified ESG standards.

- **Enhanced Cross-Sector Collaboration:** Standardized ESG reporting fosters a common language and framework that enables companies from different industries to collaborate more effectively on sustainability initiatives. This alignment reduces friction in partnerships and joint ventures, facilitating integrated solutions that address complex environmental and social challenges.
- **Improved Capital Allocation and Investor Confidence:** Unified ESG metrics increase transparency and comparability across industries, enabling investors to make more informed decisions. Studies show that companies with standardized ESG disclosures attract up to 20% more investment inflows, driving capital towards sustainable business models and accelerating industry-wide transformation.
- **Acceleration of Regulatory Harmonization:** Industry convergence on ESG standards pressures regulators to adopt consistent policies globally, reducing compliance complexity and costs. This harmonization is projected to decrease reporting costs by 15-25% for multinational corporations, enabling faster adaptation and innovation in sustainability practices.
- **Innovation in Sustainable Products and Services:** With aligned ESG frameworks, industries can identify shared sustainability goals and market demands, spurring the development of cross-industry sustainable products and services. This convergence is expected to increase R&D investments in green technologies by over 30% within the next five years, fostering breakthrough innovations.
- **Benchmarking and Performance Improvement:** Standardized ESG reporting enables industries to benchmark performance against peers across sectors, driving continuous improvement and raising overall sustainability standards. Companies leveraging these benchmarks have demonstrated up to a 10% improvement in resource efficiency and a 12% reduction in carbon emissions within three years.

Growth Opportunities sparked by Collaborations Between Tech Giants and Start-Ups

- **Standardized ESG Reporting Frameworks** Collaborative efforts across industries to create unified ESG reporting standards that enhance transparency and comparability for stakeholders.
- **Cross-Industry ESG Data Platforms** Development of integrated platforms that allow companies from different sectors to share ESG data, facilitating benchmarking and best practices.
- **Collaborative ESG Initiatives** Joint ventures among companies to promote sustainable practices and share resources for ESG compliance, driving innovation and efficiency.
- **ESG Reporting Automation Tools** Leveraging technology to automate the collection and reporting of ESG data, reducing manual effort and increasing accuracy.
- **Training and Certification Programs for ESG Reporting** Establishing educational programs to equip professionals with the skills needed for effective ESG reporting and compliance across industries.

Companies to Action sparked by Collaborations Between Tech Giants and Start-Ups

- **Microsoft** Utilizing its cloud platform to develop tools that help organizations automate and standardize ESG reporting processes globally.

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- **SAP** Offering integrated solutions that enable companies to manage and report on their ESG metrics efficiently, promoting transparency across sectors.
- **Deloitte** Providing consulting services to help organizations navigate the complexities of ESG reporting and compliance, fostering cross-industry collaboration.
- **Accenture** Partnering with various industries to create standardized frameworks for ESG reporting, enhancing data comparability and transparency.
- **IBM** Leveraging AI and blockchain technology to develop solutions that streamline ESG data collection and reporting, ensuring accuracy and reliability.
- **PwC** Advising companies on best practices for ESG reporting and helping them implement standardized frameworks to meet global expectations.
- **KPMG** Engaging in cross-industry initiatives to promote standardized ESG reporting, providing insights and tools for effective compliance.

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Benefits & Impacts of aligning the Growth Team on the coming Transformation

1. Outperform your toughest competitors by moving with unmatched speed and agility.
2. Scale your impact by activating a powerful ecosystem-based community.
3. Elevate alignment through a single platform powering your transformation journey.
4. Communicate a compelling growth narrative that energizes all stakeholders.
5. Empower teams through continuous benchmarking and best-practice sharing.
6. Lead the industry with top-tier revenue growth performance.
7. Benchmark every function against world-class competitors to stay ahead.
8. Implement growth strategies that prioritize customer success and expansion.
9. Track performance and opportunities in real-time with an integrated dashboard.
10. Unify your workforce around a shared mission and collaborative execution.

Source: Frost & Sullivan

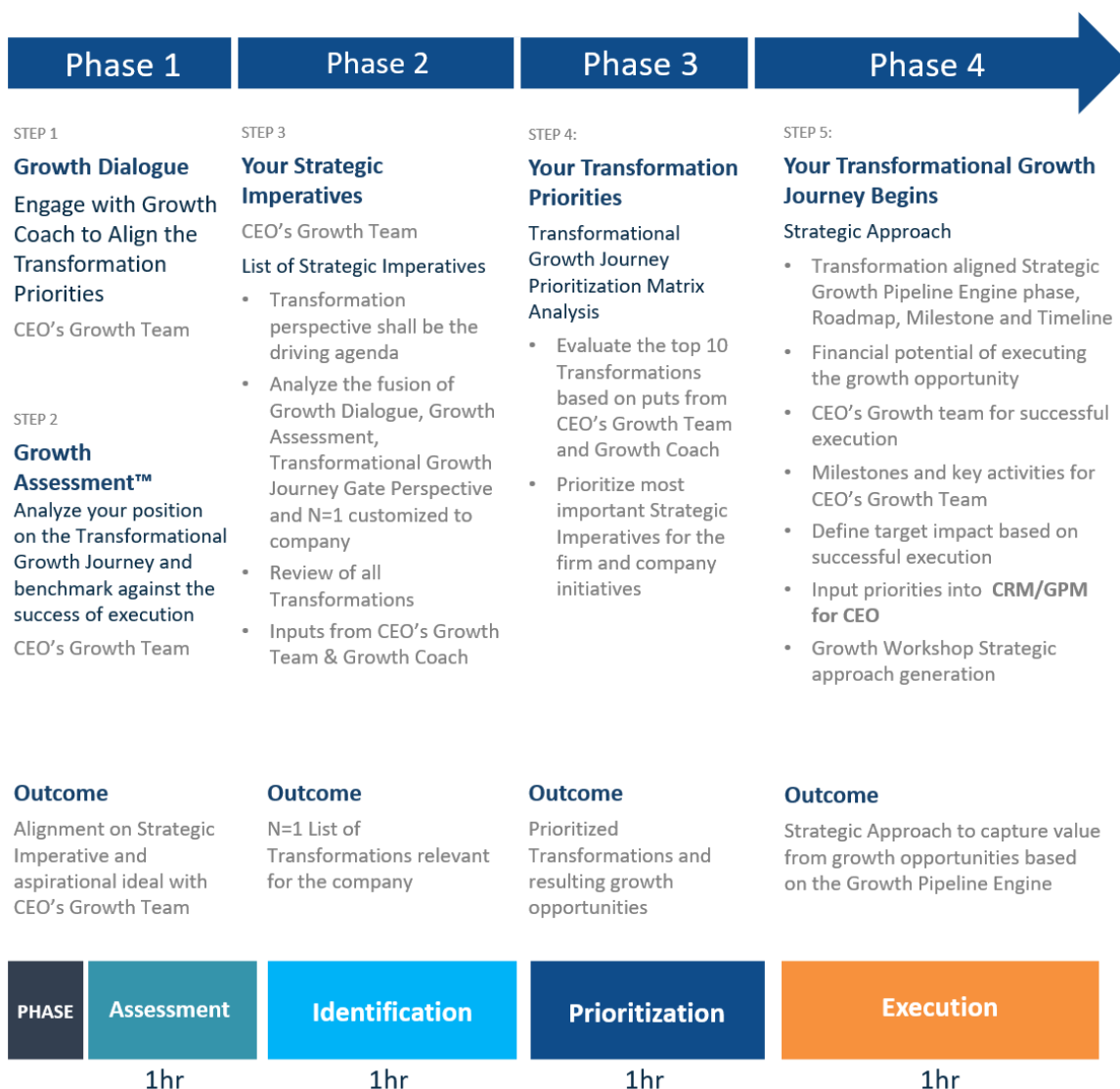
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Transformation Workshop Thrive This Transformation!

Workshop Objectives

- Understand the Strategic Imperatives driving transformation
- Align the team on strategy execution
- Build strong teamwork for successful implementation
- Leverage best practices for execution



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Transformation Workshop Agenda Thrive in This Transformation!

I. Understanding the Coming Transformation

- Overview of the Transformation Model
- Top 10 Strategic Imperatives
- Case Studies: Who succeeded? Who failed?

II. Identifying Strategic Imperatives

- Collaborative brainstorming new imperatives
- Categorize under the Strategic Imperative 8™ categories
- Final agreement on priority list & branding

III. Evaluating the Strategic Imperatives

- Identify key industry benchmarks and metrics
- Predict potential business impact

IV. Prioritization of Strategic Imperatives

- Ranking the Top 10 priorities
- Measure impact of inaction vs. proactive leadership

V. Strategy Design

- What Growth Opportunities emerge from the Top 10 Strategic Imperatives?
- Determination of partners, stakeholders, or ecosystems to engage
- Forming a “Dream Team” for transformation
- Next Steps: Building the Action Plan and Transformation Engine

Transformation Workshop Deliverables for the CEO’s Growth Team

- **Cost: \$10,000 base price**
- **Design Time: 2 weeks**
- **Format: Virtual**
- **Goals:** Gain understanding, alignment, and beginning of a strategy to address the transformation.
- **Outcome:**
 - Customized Transformation Model
 - Action Plan
 - Strategic Support
- **Impact:** Maximizing your future growth potential

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Next Steps: The Transformational Growth Partnership

Join: Frost & Sullivan [Growth Council](#)

Apply: Frost & Sullivan [Companies to Action](#)

Engage: Frost & Sullivan [Growth Pipeline Dialog](#)

Participate: Frost & Sullivan [Growth Council Think Tank](#)

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APPENDIX: Growth Dialogue: Frost Growth Coach & Experts - Talk with Team Frost

Growth is a journey. Let us be your growth coach.

Welcome to Frost & Sullivan's Growth Pipeline Dialog™: Your first step on the path to sustainable growth. This session sparks innovative thinking, uncovers high-impact opportunities, and delivers insights that drive long-term success. Growth isn't a destination — it's a continuous journey of transformation. As your dedicated growth coach, Frost & Sullivan brings over 60 years of global, cross-industry expertise to help you navigate disruption, align teams around a bold vision, and unlock strategic growth opportunities. Through the Growth Pipeline Dialog™, we turn complexity into clarity and ambition into action — helping you stay ahead in a rapidly evolving world.

What is a *Growth Pipeline Dialog™* and how will it help you?

The Growth Pipeline Dialog™ is Frost & Sullivan's proven framework to kickstart your path toward transformative growth. More than just a conversation, it's a strategic session designed to spark innovative thinking, uncover breakthrough opportunities, and align your team around a clear growth roadmap. Leveraging our extensive industry insights, this dialog provides actionable intelligence and tailored recommendations that help you overcome cross-functional challenges and implement best-in-class strategies. By engaging in this process, you'll gain:

- Actionable intelligence and innovative go-to-market strategies to position your organization ahead of competitors.
- Recommendations to successfully overcome cross-functional challenges in today's dynamic and often complex business environment.
- Visionary strategic planning that helps you implement industry best practices and secure a first-mover advantage.

With these benefits, the Growth Pipeline Dialog™ empowers you to accelerate your go-to-market plans and drive sustainable success in an ever-evolving marketplace.



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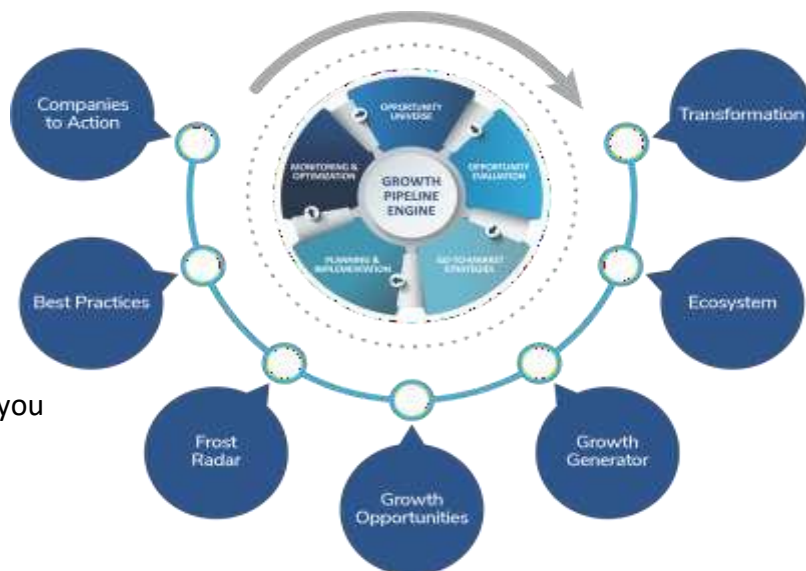
APPENDIX: Transformational Growth Engine-CEO's Growth Platform

The Transformational Growth Engine enables organizations to embark on their transformational journey leveraging:

- Frost & Sullivan's 7 Gate analytical framework
- The Growth Pipeline Engine

The 7 Gate framework provides the industry context for the transformation and identifies growth opportunities and companies to action.

The Growth Pipeline Engine prioritizes growth opportunities for your unique context and helps you implement on those growth opportunities in a systematic and continuous fashion.



OPPORTUNITY UNIVERSE	Identify the areas of focus and establish metrics to evaluate opportunities
OPPORTUNITY EVALUATION	Deep dive on specific opportunities with your Frost & Sullivan team
GO TO MARKET STRATEGIES	Identify the strategic options to drive your growth opportunities forward
PLANNING & IMPLEMENTATION	Work with our team to execute on your Growth Opportunities
MONITORING & OPTIMIZATION	Ensure systematic follow-through to drive early wins & ongoing success

Source: Frost & Sullivan

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APPENDIX: Telling Your Story: Sales Pipeline Accelerator – Brand Powering

365 days of engaging all key stakeholders and telling your story in a way that drives impact.

Transformational Promotion	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
BICEP ENGAGEMENT	DELIVERABLES					
Board of Directors			Analyst Message to Board			
Investors	Investor Email Campaign		Investor Confidence Video	Raising Capital Impact Video		
Customers	Customer Email Campaign	Customer Social Media Campaign	Appreciation Video	WP with Customer Case Studies	External Newsletter Recognition	
Employees + Leadership	Internal Email Campaign	F&S Employee Shout-out	Gratitude Video		Employee Congratulations	Award plaque
Partners	Targeted Partner Email			WP on Partnership Benefits		
Stakeholder Impact	Email Community	Social Media	Video	White Paper	Newsletter	Lobby Display
7 TRANSFORMATIONAL GATES	THINK TANK WORKSHOPS					
Transformation	THINK TANK					
Ecosystem		THINK TANK				
Growth Generator			THINK TANK			
Growth Opportunities					THINK TANK	
Frost Radar						THINK TANK
BEST PRACTICES				THINK TANK		
Companies to Action				THINK TANK		
365 Growth Transformation	TRANSFORMATIONAL TOOLS					
Growth Pipeline Dialog		Kick off GPD				
Growth Council Membership	ACTIVATED *365 VALUE ACCESS*					
Growth Generator Platform	ACTIVATED *365 VALUE ACCESS*					
Access to Published Analyst Content	ACTIVATED *365 VALUE ACCESS*					
Executive Coaching					6 month services campaign based on rolling needs	
Think Tanks		F&S		F&S		F&S
Intelligence Transformation Events		F&S		F&S		F&S
Networking Opportunities	ACTIVATED *YEAR LONG ACCESS TO NETWORK OF PEERS AND FROST & SULLIVAN INDUSTRY EXPERTS*					

Transformational Promotion	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
BICEP ENGAGEMENT	DELIVERABLES					
Board of Directors			Board Invited	Growth Workshop	Agenda Sparks	Growth Strategy
Investors	Investor Presentation		Investors Invited		Investor Impact	
Customers	Customer Appreciation Presentation		Customers Invited			
Employees + Leadership		Recognition Presentation	Executive Team Invited	Executive Brainstorm	Executive Strategy	Growth Strategy
Partners			Partners Invited	Strategy Session		
Stakeholder Impact	Event + Poster	All Company	Gala	Workshop	Think Tank	Growth Dialog
	Presentation	Meeting	Presentation			
7 TRANSFORMATIONAL GATES	THINK TANK WORKSHOPS					
Transformation	THINK TANK					
Ecosystem		THINK TANK				
Growth Generator			THINK TANK			
Growth Opportunities					THINK TANK	
Frost Radar						THINK TANK
BEST PRACTICES				THINK TANK		
Companies to Action				THINK TANK		
365 Growth Transformation	TRANSFORMATIONAL TOOLS					
Growth Pipeline Dialog	Check in GPD					GPD
Growth Council Membership						
Growth Generator Platform						
Access to Published Analyst Content						
Executive Coaching						
Think Tanks		F&S		F&S		F&S
Intelligence Transformation Events		F&S		F&S		F&S
Networking Opportunities						

Source: Frost & Sullivan

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APPENDIX: TechVision: Technology Integration Strategy - 3000 Technologies

TOP 50 TECHNOLOGIES SERVICE

- Every year we **research over 3,000 emerging technologies**.
- In an annual exercise we analyze these technologies according to:
 - *IP Activity & Funding*
 - *Market Potential & Sector Impact*
 - *Megatrend Impact*
 - *Regional Adoption Potential*
 - *Technology Disruptiveness*
 - *Technology Evolution*
- Then we look at the outcomes:
 - *Intensity and Expected Year of Impact*
 - *Disruptive Potential*
 - *Technology Cluster Evolution*
- These **technologies are assessed for their impact in the next 3 years**.



We also look at the **Future 18 Technologies** that will have **potential impact in 8-10 years**.

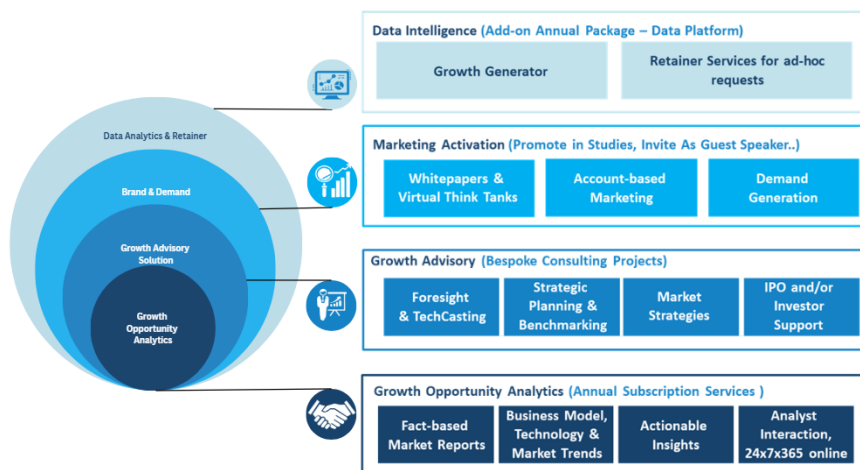
TOP 50 TECHNOLOGIES SERVICE

- Board and Executive Awareness of Impending Transformations driven by technology shifts means that the service is used in strategy vision and planning.
- Aligning Innovation, Product Development and Marketing and Sales requires a common understanding of emerging technology themes.
- Evaluating Your own Innovation and R&D Pipelines to ensure that you have not missed any critical development that can drive future competitive advantage.

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APPENDIX: Growth Opportunity Support – Strategy/Implementation End-to-End Industry Analytics Drive Your Growth



- **Growth opportunity analysis: Opportunity prioritization** - Comprehensive intelligence designed for forward-thinking companies, shining a light on all the growth opportunities within a given market.
- **Voice of customer: Industry voice** - Insights and perspectives gleaned directly from the end customers within a given market, providing a look into what drives behavior, and offering clues on how to optimize your offerings.
- **Economic Research** - Global and regional macro-economic research via PESTLE and other analytical tools, to identify competitiveness and attractiveness of countries and regions, and growth relationship to sectors.
- **Think Tank** - Analyst led sessions on hot topics. Quick-hitting, topical content that identifies and analyzes emerging trends and opportunities.
- **Industry research: Analysis of key industry level trends** - A comprehensive, bottom-up, top-down analysis and future casting for a given market, providing executives with actionable intelligence to achieve growth in a dynamic and evolving industry.
- **Frost Radar: Tracking competition and benchmarks** - A robust, analytical benchmarking tool that provides objective, independent perspective on companies' innovation capabilities and growth performance in a given market.
- **TechVision: Technology research** - Forward-looking intelligence on emerging technologies, innovations, investments, roadmaps, and IP landscapes that equip our customers with ideas and strategies to leverage disruptive technologies and innovation for future growth.
- **Visionary innovation research: Mega Trends** - Actionable intelligence and value-focused insights on how transformative developments across all industries will impact future markets and the world we live in.

Source: Frost & Sullivan

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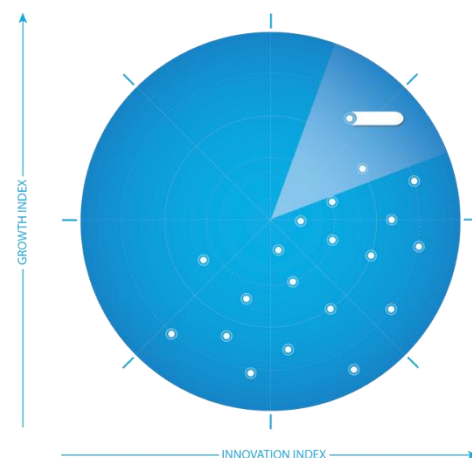


APPENDIX: Frost Radar™

Frost & Sullivan's global team of analysts and consultants continuously monitors industries worldwide to identify the companies shaping tomorrow's market landscape. The Frost Radar™ is a proprietary analytical tool that evaluates organizations based on their innovation focus and growth performance, offering a forward-looking benchmark unlike traditional static assessments.

Grounded in decades of primary and secondary research, Frost Radar™ highlights companies that:

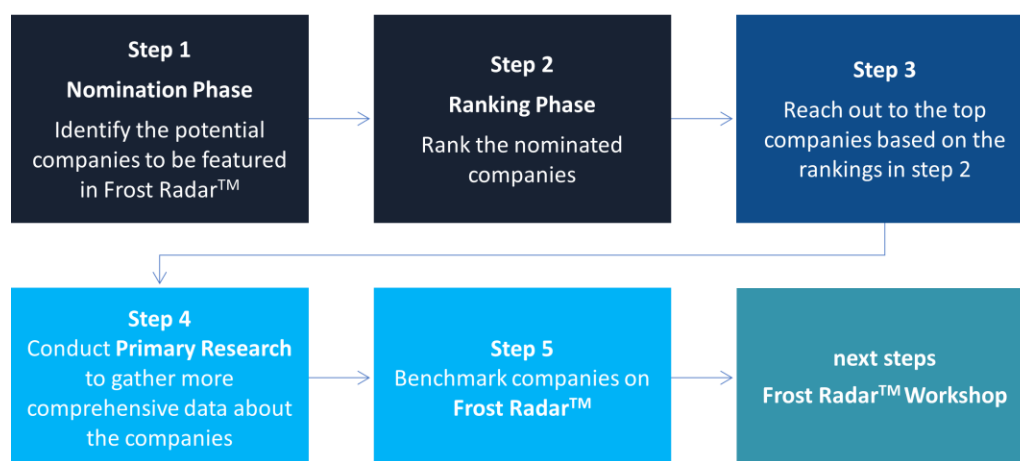
- Demonstrate a visionary understanding of the future.
- Actively address emerging challenges and opportunities.
- Are positioned to lead transformation in their industries?



As part of the Transformational Growth Journey, Frost Radar™ plays a central role in the Growth Pipeline Engine—a system used by CEOs and growth teams to prioritize strategies, allocate resources, and fuel long-term success. It is especially valuable for investors, strategists, and executives, offering clarity on which companies to watch, support, or invest in.

Frost Radar™ isn't just a benchmarking tool. It's a strategic compass that empowers stakeholders to make confident decisions in a rapidly evolving world.

Our Selection Process:



Source: Frost & Sullivan

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Frost Radar Metrics: 2 Major Indices, 10 Analytical Ingredients, 1 Platform

Vertical Axis: The Growth Index

The Growth Index is a measure of a company's growth performance and track record, along with its ability to develop and execute a fully aligned growth strategy and vision; a robust growth pipeline system; and effective market, competitor, and end-user focused sales and marketing strategies.

- **GI1: Market Share:** Market share relative to its competitors in a given market space for the previous three years.
- **GI2: Revenue Growth:** Revenue growth rate for the previous three years in the market/industry/category that forms the context for the given Frost Radar.
- **GI3: Growth Pipeline:** Evaluation of the strength and leverage of the company's growth pipeline system to capture and prioritize growth opportunities.
- **GI4: Vision and Strategy:** Assessment of how well a company's growth strategy is aligned with its vision.
- **GI5: Sales and Marketing:** Measure of the effectiveness of a company's sales and marketing efforts in driving demand and achieving growth objectives.

Horizontal Axis: The Innovation Index

The Innovation Index measures a company's ability to develop products/services/solutions with a clear understanding of disruptive megatrends and evolving customer needs.

- **II1: Innovation Scalability:** Determines whether the organization's innovation(s) is/are globally scalable and applicable in multiple markets and verticals.
- **II2: Research and Development:** Measures the efficacy of a company's R&D strategy based on its investment and contribution to the innovation pipeline.
- **II3: Product Portfolio:** Evaluates the contribution of new products to the company's annual revenues.
- **II4: Megatrends Leverage:** Assesses how a company leverages evolving long-term opportunities and new business models.
- **II5: Customer Alignment:** Evaluates the applicability of a company's products to current and potential customers over a 7-year horizon.

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APPENDIX: Best Practices Implementation with the 10 Growth Process

Competitive Strategy	Most companies appreciate the need for incorporating competitive information into decision making, but few are adept at treating it as an integral component of a long-term growth strategy.
Customer Strategy	The process of increasing revenue by better understanding, anticipating, and responding to customers' changing needs. Turn this into action and see a positive return on those actions.
Distribution Channel Optimization	We help our clients develop and implement compelling supply chain, distribution, and retail strategies integrating digital solutions.
Geographic Expansion	We examine key political, economic, cultural, legal, customer, and infrastructural issues in each country and ensure that our clients leave no stone unturned when undertaking a geographic expansion effort.
Mergers & Acquisitions	Companies looking to expand into new markets, pursue new growth opportunities, and hit aggressive targets must build mergers & acquisitions into their long-term growth strategies.
New Product Development	We understand that the path to new product development success is through the application of a rigorous, balanced process for evaluating any idea prior to entering the market.
New Product Launch	We have developed a new product launch process that is unbiased, repeatable, and focused on implementation success.
Strategic Partnerships	Strategic partnerships deliver access to new markets or customers, accelerate new product development cycles, and improve a company's competitive positioning.
Technology Strategy	We are dedicated to helping our clients foster a culture of innovation and creativity within their organizations, leveraging technology growth opportunities to define strategic goals.
Vertical Market Expansion	Successful companies consistently look beyond their current markets for new growth opportunities. Vertical markets are a compelling path to those new revenue streams.

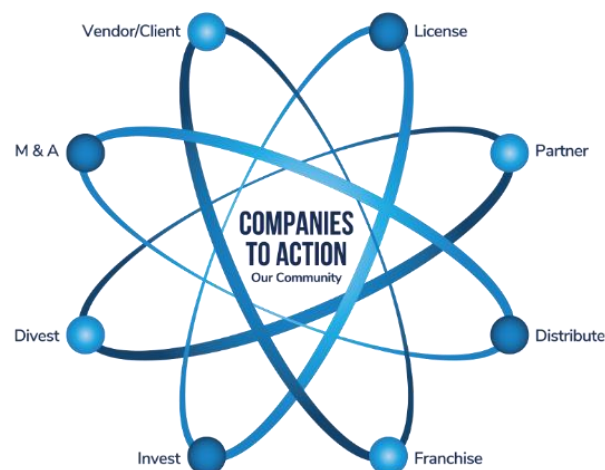
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APPENDIX: Companies to Action

Companies to Action are leaders in the industry that will shape the future of the industry. These are companies that any organization must engage with to achieve growth objectives.

- Which companies are shaping your ecosystem?
- Which companies should you be working with?
- Who should be your suppliers, customers, partners?
- Which companies should be on your radar for strategic investments?
- How are you engaging with the companies shaping the future?



Source: Frost & Sullivan

Top 10 Strategic Imperatives Driving Transformation in ESG Platforms, Global, 2025



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