



Entrepreneurial Marketing Behavior of Agripreneurs: Challenges and Opportunities

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Abstract

The article discusses the relationship between entrepreneurship and marketing behaviour of agripreneurs, highlighting challenges such as fragmented supply chains and limited market access. It also highlights transformative opportunities such as the integration of digital technologies, sustainability initiatives, and direct-to-consumer models. The agricultural sector plays a significant role in global economies contributing significantly to both the livelihoods of individuals and the overall economic development of nations. Agriculture is the backbone of food production providing a diverse array of crops, livestock, and other commodities essential for human consumption. The sector's economic impact extends beyond its direct contributions to include downstream industries such as agribusiness, food processing, and distribution. Sustainable agricultural practices, including precision farming, agroecology and organic farming, have gained prominence as strategies to mitigate the sector's environmental footprint and enhance resilience. As economies transition from agrarian to industrial and more recently, to service-oriented the role of agriculture in GDP may decrease. As a valuable resource for researchers, practitioners, and policymakers, it navigates the evolving terrain of agricultural entrepreneurship, offering insights to shape strategies and initiatives for sustainable and resilient agricultural ventures in the future.

Keywords: Entrepreneurship; Agricultural; Marketing Behaviour

Introduction

Agriculture is the backbone of India where the agro-based industry is considered as an extended arm of agriculture. India manages 17.50 percent of the world's population with 2.4 percent of the world's total land. At the time of independence, more than half of the national income was contributed by agriculture and more than 70 percent of the total population was dependent on agriculture. Agriculture

contributes 18.3 percent to GDP, 11.9 percent of total exports, and employs 58.40 percent of the country's workforce. About 65 percent of the population is directly or indirectly related to agriculture. With the development of agro-based industries, more employment opportunities both at the production and marketing stages can be created. Even though India is the second largest producer of food in the world, it accounts for only 1.60 percent of the total international food trade. This indicates vast potential for agripreneurship. The agricultural

sector plays a vital role in global economies, contributing significantly to both the livelihoods of individuals and the overall economic development of nations [1].

Agriculture is not only a source of income for farmers but also a catalyst for rural development. In many regions, especially in developing countries, rural economies are directly linked with agriculture. When the agriculture sector flourishes, it creates employment opportunities, stimulates local businesses, and contributes to poverty alleviation. Additionally, agriculture provides the basis for vibrant rural communities, fostering social cohesion and preserving cultural heritage [2]. Agricultural activities, particularly conventional farming practices, can impact ecosystems, soil health, and water resources. Conversely, climate change, with its unpredictable weather patterns, poses challenges to agricultural productivity. In terms of global trade, agriculture is a significant player, with nations participating in the international market for agricultural products. Agricultural exports contribute to foreign exchange earnings for many countries, influencing trade balances and fostering economic interdependence. However, the sector is also vulnerable to global market fluctuations, commodity price volatility, and trade policies, all of which can impact the livelihoods of farmers and the overall stability of agricultural economies [3]. With the transition of the economy from agrarian to industrial and, more recently, to service-oriented structures, the role of agriculture has transformed. Technological advancements mark agriculture, the adoption of precision farming techniques, and the integration of digital technologies. The agricultural modernization, coupled with entrepreneurial initiatives, presents vast opportunities and challenges for the sector. Entrepreneurial ventures in agriculture are becoming increasingly prominent as individuals seek innovative ways to harness the potential of the sector. Entrepreneurial activities in agriculture encompass a spectrum of initiatives, from small-scale agribusinesses to tech-driven Ag-tech companies. These ventures not only contribute to economic development but also help to build the sector with fresh ideas, technological innovations, and market-oriented approaches [4]. Entrepreneurship in agriculture is closely linked to the adoption of entrepreneurial marketing practices, where farmers and agribusinesses employ strategic marketing approaches to enhance the value of their products, reach new markets, and create sustainable business models. The significance of the agricultural sector in the economy is multifaceted, encompassing food security, economic development, rural livelihoods, environmental sustainability, and global trade.

Key Concepts in Entrepreneurial Marketing

Innovation and Creativity in Agricultural Marketing: In the ever-evolving landscape of agriculture, entrepreneurial

endeavors are increasingly characterized by the adoption of innovative marketing techniques that redefine traditional practices and pave the way for sustained growth. This exploration delves into how agricultural entrepreneurs employ a spectrum of innovative marketing strategies to navigate challenges, capitalize on opportunities, and contribute to the overall dynamism of the agribusiness sector. Agricultural entrepreneurs are harnessing the power of digital technologies to revolutionize marketing practices. The use of online platforms, social media, and e-commerce enables direct communication with consumers, facilitates market access, and promotes brand visibility [5]. Agripreneurs leverage digital marketing tools to craft compelling narratives about their products, engage with consumers, and build a digital presence that transcends geographical boundaries [6]. This digital transformation not only enhances the reach of agricultural products but also provides a platform for storytelling, allowing consumers to connect with the people and processes behind the products they purchase. Agricultural entrepreneurs are increasingly adopting precision marketing techniques to tailor their approaches based on specific customer segments and market niches. Precision marketing involves the use of data analytics, market research, and consumer behaviour insights to target the right audience with personalized messages and offerings [7]. For example, agribusinesses may use data-driven insights to understand consumer preferences, optimize pricing strategies, and develop customized marketing campaigns. This precision in marketing not only enhances customer satisfaction but also contributes to resource efficiency by focusing efforts on the most promising market segment [8]. Agricultural entrepreneurs are exploring innovative product development strategies to add value to their offerings. This involves transforming raw agricultural products into processed or specialty items that cater to specific consumer demands Sharma, et al. Agripreneurs invest in branding and packaging to create a distinct identity for their products in the market. By offering unique and value-added products, they differentiate themselves from conventional agricultural practices and appeal to consumers seeking high-quality, specialty goods. This not only opens new revenue streams for agribusinesses but also fosters brand loyalty and recognition [9]. Agricultural entrepreneurs recognize the power of collaboration in expanding market reach and accessing new opportunities. Strategic partnerships with retailers, distributors, and other agribusinesses allow entrepreneurs to leverage existing networks and tap into diverse markets [10]. Collaborative marketing initiatives, such as joint promotions or co-branding, enable agripreneurs to share resources, reduce costs, and amplify their market impact. Through these partnerships, agricultural entrepreneurs can navigate the complexities of supply chains, optimize distribution channels, and create synergies that contribute to the overall growth of the agricultural ecosystem. The

adoption of Integrated Marketing Communication (IMC) is becoming prevalent among agricultural entrepreneurs seeking to create a cohesive and impactful marketing strategy. IMC involves the seamless integration of various communication channels, such as advertising, public relations, and direct marketing, to convey a consistent message to the target audience [11]. Agripreneurs deploy IMC to build brand awareness, communicate their value proposition, and establish a strong market presence. By ensuring consistency across all communication channels, from social media to traditional advertising, agricultural entrepreneurs create a unified brand image that resonates with consumers and stakeholders. Innovative marketing in agriculture extends beyond transactional interactions to encompass educational and engaging initiatives. Agricultural entrepreneurs recognize the importance of consumer education in building awareness about sustainable farming

practices, the nutritional value of products, and the broader impact of agriculture on communities and the environment [12]. Through educational campaigns, workshops, and interactive events, agripreneurs not only promote their products but also foster a deeper connection with consumers who value transparency and ethical practices in agriculture. From embracing digital technologies to precision marketing, value-added product development, strategic collaborations, integrated communication, and consumer engagement, agripreneurs are at the forefront of a marketing revolution within the agricultural sector. As these innovative approaches gain traction, the agricultural ecosystem stands poised for sustained growth, increased competitiveness, and a more connected relationship between producers and consumers. Some Case studies and examples of successful marketing innovations in agriculture are shown in Table.

Innovation Focus	Company/Platform	Description	References
Vertical Farming and D2C Sales	Aero Farms	Utilizes vertical farming for locally grown pesticide-free produce emphasizing sustainability and freshness	Sharma [13]
Precision Agriculture	JohnDeere Operations Center	Provides real-time data on crop health weather patterns and equipment performance for data-driven decision-making	John Deere [14]
Blockchain for Supply Chain	IBM Food Trust	Implements blockchain to enhance transparency in the food supply chain allowing consumers to trace product journeys	IBM [15]
Agri-Tourism and Experiential	Châteauform	Combines farming experiences with tourism creating a unique connection between consumers and agricultural practices	Jahdi, et al. [16]
Digital Farmer-to-Farmer Networks	AgriSync	Mobile platform connecting farmers with experts for real-time troubleshooting enhancing communication within the community	AgriSync [17]
Community-Supported Agriculture	LocalHarvest	Online platform connecting consumers with local farmers through subscription-based models promoting local economies	Local Harvest [18]
AgTech Innovation for Pest Management	Semios	Uses IoT devices to monitor pest activity in orchards providing data-driven insights for efficient pest control	Semios [19]
Blockchain-Based Certification	Provenance	Utilizes blockchain for transparent certification of organic products enhancing trust in organic farming practices	Provenance [20]

Table 1: Case studies and examples of successful marketing innovations in agriculture.

Market Orientation in Agribusiness: Market-oriented approaches in agricultural entrepreneurship revolve around aligning farming activities with market dynamics, consumer preferences, and emerging trends. Unlike conventional methods that focus solely on production, market-oriented approaches emphasize the entire value chain, from

cultivation to distribution and marketing. Farmers adopting this approach actively seek to identify market opportunities, understand consumer demands, and tailor their production accordingly [5]. Market-oriented agricultural entrepreneurs prioritize understanding consumer needs and preferences. This involves conducting market research, engaging with

consumers, and adapting production practices to deliver products that align with market demands [21]. Adding value to agricultural products through processing, packaging, and branding is a key principle. Market-oriented entrepreneurs explore ways to differentiate their products, creating a unique selling proposition that resonates with consumers and enhances competitiveness [22].

A market-oriented approach requires flexibility and adaptability. Entrepreneurs actively respond to market fluctuations, changing consumer trends, and external factors such as climate variations. This adaptability ensures sustained relevance in a dynamic market environment [6]. Rigorous market research and intelligence gathering are integral to market-oriented agriculture. Entrepreneurs invest in understanding market trends, competitor activities, and emerging opportunities, enabling informed decision-making [23]. Market-oriented agricultural entrepreneurs optimize supply chain processes to ensure the timely delivery of quality products. Efficient logistics, distribution, and storage contribute to maintaining product integrity and meeting market demands [9].

In the realm of agricultural marketing, adopting customer-centric strategies is pivotal. Market segmentation and targeting tailor approaches to specific consumer segments. Digital engagement and e-commerce leverage technology for direct consumer interaction. Product innovation and value addition enhance differentiation. Customer Relationship Management (CRM) systems build lasting connections, and sustainability and transparency align with eco-conscious consumer demands. These strategies collectively propel agricultural businesses towards adaptability, responsiveness, and sustained consumer loyalty, fostering a dynamic and competitive market presence. Now, let's proceed with Table 2 which depicts these Key Customer-Centric Strategies in Agricultural Marketing. Customer-centric strategies in agricultural marketing revolve around placing the needs, preferences, and experiences of consumers at the forefront of decision-making processes. Unlike traditional approaches that primarily focus on production and distribution, customer-centric strategies prioritize building strong relationships with consumers, understanding their demands, and tailoring marketing practices to meet those demands [24].

Strategy	Description	Reference
Market Segmentation and Targeting	Dividing the market into distinct segments based on demographics preferences and behaviour Targeting involves tailoring marketing efforts to specific consumer segments	Kotler, et al. [25]
Digital Engagement and E-commerce	Leveraging digital platforms and e-commerce for direct engagement with consumers This includes online marketplaces social media and farm-to-consumer e-commerce models	Gupta, et al. [21]
Product Innovation and Value Addition	Introducing innovative products and adding value through processing packaging and branding Aligning products with changing consumer trends and preferences	Humphrey, et al. [22]
Customer Relationship Management (CRM)	Implementing CRM systems to manage interactions with consumers track preferences and personalize communication Building long-term relationships and understanding customer lifetime value	Rezitis, et al. [9]
Sustainability and Transparency	Emphasizing sustainable and transparent practices in agriculture Includes eco-friendly production methods ethical sourcing and providing consumers with information about the origin of products	Grunert, et al. [26]

Table 2: Key Customer-Centric Strategies in Agricultural Marketing.

Implementing customer-centric strategies in agricultural marketing induces transformative impacts. Enhanced market responsiveness allows real-time adjustments to changing demands. Improved profitability and market share arise from aligning products with consumer needs, fostering loyalty. Strengthened brand image and trust result from transparent and sustainable practices. Efficient resource utilization emerges through targeted marketing efforts.

Adaptation to consumer trends ensures competitiveness. These impacts collectively underscore the profound influence of customer-centric approaches on agricultural marketing, emphasizing the sector's evolution toward consumer-oriented sustainability and success. Now, let's proceed with Table 3 depicting the Impact of Customer-Centric Strategies on Agricultural Marketing.

Impact Area	Description	Reference
Enhanced Market Responsiveness	Customer-centric strategies enable agricultural producers to respond more effectively to changing market demands This involves adjusting production distribution and marketing strategies in real-time	Kotler, et al. [25]
Improved Profitability and Market Share	Adoption of customer-centric approaches contributes to improved profitability Aligning products with consumer needs and fostering brand loyalty enables capturing a larger market share and commanding premium prices	Gupta, et al. [21]
Strengthened Brand Image and Trust	Building a customer-centric brand image enhances trust and credibility Transparency in sourcing and sustainable practices resonates with environmentally conscious consumers solidifying brand loyalty	Rezitis, et al. [9]
Efficient Resource Utilization	Customer-centric strategies facilitate efficient resource allocation Targeting specific consumer segments streamlines marketing efforts reduces wastage and optimizes production processes	Hobbs, et al, [6]
Adaptation to Consumer Trends	Understanding and adapting to consumer trends are crucial for sustained success Customer-centric strategies enable farmers to anticipate and respond to shifts in preferences staying competitive	Kumar, et al. [15]

Table 3: Impact of Customer-Centric Strategies on Agricultural Marketing.

Strategies in Entrepreneurial Marketing

Digital marketing: The role of digital platforms and technology in agricultural marketing has become increasingly crucial in reshaping traditional practices and enhancing the efficiency of the sector. Digital platforms, including social media, e-commerce, and agricultural apps, facilitate direct communication between farmers and consumers, providing a platform for marketing agricultural products. These platforms enable farmers to showcase their produce, share real-time updates on farm activities, and engage with consumers, thereby establishing a more transparent and

direct connection. Furthermore, technology such as data analytics, precision farming, and blockchain contributes to optimized decision-making, improved production processes, and enhanced supply chain traceability, fostering sustainability and meeting the demands of a technologically-driven market [27,28]. The integration of digital tools not only expands market reach but also empowers farmers with valuable insights, ultimately transforming the landscape of agricultural marketing. Table 4 depicts some Case studies illustrating successful digital marketing campaigns in the agricultural sector.

Digital Marketing Campaign	Description	Reference
AgriTech App - Connecting Farmers	An AgriTech company developed a mobile app connecting farmers directly with buyers The app allowed farmers to showcase their produce receive market insights and engage in direct transactions This facilitated transparency improved market access and increased income for farmers	Smith J, et al. [29]
Precision Farming Tech Campaign	A precision farming technology provider utilized a multi-channel digital marketing strategy to promote their precision farming solutions This involved targeted social media campaigns informative webinars and interactive content resulting in increased adoption among tech-savvy farmers seeking sustainable and efficient farming practices	Jones M, et al. [30]

Table 4: Case studies illustrating successful digital marketing campaigns in the agricultural sector

Building and Managing Agricultural Brands: Branding serves as a powerful tool for shaping consumer perception in the agribusiness sector. In an environment where numerous products compete for attention, a strong and well-defined brand distinguishes agricultural offerings from their competitors. For example, a brand that emphasizes sustainable farming practices, organic production, or local sourcing communicates a specific set of values to consumers

[27]. The brand becomes a symbol of quality, reliability, and adherence to certain principles, allowing consumers to make informed choices aligned with their preferences. Trust is a cornerstone in agribusiness, where consumers seek assurance regarding the origin, quality, and safety of agricultural products. A robust brand communicates transparency and reliability, addressing the inherent challenges associated with the agri-food supply chain. A

study by Onyango, et al. [31]. Emphasized the role of branding in building trust between consumers and agribusinesses, particularly in regions where food safety concerns are paramount. Establishing a recognizable and reputable brand contributes to the development of a long-lasting relationship between producers and consumers, fostering loyalty and repeat business. A well-crafted brand opens doors to broader market access and allows agribusinesses to position their products as premium offerings. Consumers are often willing to pay a premium for products associated with a trusted and desirable brand. For instance, a brand that emphasizes sustainable farming practices may appeal to environmentally conscious consumers who are willing to invest in products aligned with their values [32]. This premium positioning not only contributes to higher profit margins but also enhances the perceived value of agricultural products. In an era of globalization, branding has become a vital tool for agribusinesses seeking to navigate international markets. A strong brand acts as a cultural ambassador, transcending language barriers and conveying the essence of a product's origin. Global consumers often gravitate toward brands that represent authenticity and cultural richness Umberger, et al. Effective branding in agribusiness ensures that products resonate with diverse audiences, facilitating market entry and fostering a sense of connection irrespective of geographical boundaries. The agricultural sector is susceptible to various risks, including environmental challenges, market fluctuations, and crises such as food safety scandals. A well-established brand serves as a protective shield during times of crisis. A study by Hughner, et al. [32]. Highlighted the role of brand familiarity and trust in mitigating the impact of a food safety crisis on consumer behaviour. Consumers are

more likely to remain loyal to a brand they trust, even in the face of challenges, underscoring the resilience that effective branding affords to agribusinesses. Branding is not static; it evolves with consumer preferences, market trends, and technological advancements. Innovative branding strategies allow agribusinesses to adapt to changing landscapes and stay relevant. For instance, a brand that embraces technology in farming practices may appeal to a tech-savvy consumer base. The ability to evolve and innovate through branding ensures that agribusinesses remain dynamic and responsive to emerging opportunities and challenges.

The importance of branding in agribusiness goes beyond creating a recognizable logo; it is about cultivating a unique identity, fostering trust, and communicating inherent value to consumers. Effective branding differentiates agricultural products, builds trust, facilitates market access, mitigates risks, and fosters adaptability in a constantly evolving industry. As agribusinesses navigate the complexities of the global market, embracing branding as a strategic imperative becomes not only a competitive advantage but also a pathway to sustainable growth and success. In the agricultural sector, where products often share common origins, effective brand building and management are essential for creating differentiation, establishing trust, and enhancing the overall value proposition. Several strategies contribute to successful branding in the agricultural context. Table 5 depicts Strategies for Brand Building and Management in the Agricultural Context. These strategies collectively contribute to the development and management of a strong and resilient brand in the agricultural sector.

Strategy	Description
Sustainable and Ethical Practices	Emphasize environmentally friendly and ethical farming practices to resonate with conscientious consumers [26]
Storytelling and Heritage	Craft a compelling brand story rooted in the farm's heritage creating an emotional connection with consumers [32]
Quality Assurance and Certification	Adhere to rigorous quality standards and certifications (eg organic non-GMO) to communicate a commitment to high-quality safe products [31]
Direct-to-Consumer Marketing	Utilize direct channels such as farmers' markets or e-commerce to establish a direct connection with consumers enhancing brand visibility [33]
Technology Integration	Embrace technology in farming practices and marketing to project a modern forward-thinking brand image [34]
Collaboration and Partnerships	Collaborate with other businesses chefs or influencers in the food and agriculture space to broaden the brand's reach and create synergies
Crisis Communication Preparedness	Have proactive crisis communication strategies to address potential issues such as food safety concerns maintaining transparency and consumer trust [32]
Continuous Innovation	Stay innovative and adaptable by incorporating new technologies introducing novel products and responding to emerging consumer trends [26]

Table 5: Strategies for Brand Building and Management in the Agricultural Context

Challenges and opportunities

Agricultural entrepreneurs face a myriad of challenges in marketing that can significantly impact the success of their ventures. Identifying and understanding these challenges is crucial for devising effective strategies to navigate the complex agricultural marketing landscape. One major challenge is the fragmented nature of agricultural supply chains. Many agricultural products go through multiple intermediaries before reaching the end consumer, leading to inefficiencies, increased costs, and a lack of transparency. This fragmentation poses challenges in ensuring a seamless flow of products from farm to market. Limited access to markets is a persistent challenge for agricultural entrepreneurs, particularly those in remote or rural areas. Geographical constraints, inadequate infrastructure, and insufficient market information can hinder farmers' ability to reach broader markets and secure better prices for their products [35]. The agrarian sector often grapples with inadequate infrastructure, including transportation, storage, and processing facilities. Poor infrastructure contributes to post-harvest losses, reduces the quality of agricultural products, and limits the ability of entrepreneurs to respond efficiently to market demands [24]. Access to timely and accurate market information is critical for making informed decisions. Agricultural entrepreneurs often face a knowledge gap regarding market trends, consumer preferences, and pricing dynamics. Bridging this gap is essential for adapting to changing market conditions and optimizing marketing strategies [36]. The agricultural sector's resistance to modernization poses a significant challenge for entrepreneurs. Outdated farming practices, lack of technological adoption, and limited awareness of modern marketing techniques hinder the sector's overall competitiveness [35].

Limited financial resources often impede the marketing efforts of agricultural entrepreneurs. Insufficient capital for investment in technology, branding, and promotional activities can constrain their ability to create a robust market presence and compete effectively [24]. Addressing these challenges requires a holistic approach that involves policy interventions, infrastructure development, access to finance, and the incorporation of modern technologies. By understanding and mitigating these challenges, agricultural entrepreneurs can enhance their marketing capabilities, improve market access, and contribute more effectively to the growth of the agricultural sector.

In the pursuit of sustainable agricultural development, leveraging effective marketing strategies presents a promising avenue to address various challenges and promote environmentally conscious practices. By integrating sustainable principles into agricultural

marketing, opportunities emerge to enhance economic viability, environmental stewardship, and social equity. A key opportunity lies in fostering value-chain integration that connects producers directly with consumers or downstream markets. By reducing intermediaries, farmers can capture a larger share of the value generated, while consumers gain access to fresher produce with a clear understanding of its origin [37]. Direct marketing channels, such as farmers' markets and community-supported agriculture (CSA), exemplify this approach.

Certification and labeling initiatives, such as organic or fair trade certifications, provide opportunities to communicate sustainable practices to consumers. These programs not only enhance product differentiation but also contribute to building consumer trust by assuring adherence to specific environmental and ethical standards [38]. The integration of digital technologies and e-commerce platforms offers a transformative opportunity for agricultural marketing. Online marketplaces enable farmers to reach a broader consumer base, while innovative technologies, including blockchain, can enhance transparency in the supply chain, assuring consumers of sustainable and traceable agricultural practices [39]. Developing and promoting a sustainable brand narrative is crucial for connecting with environmentally conscious consumers. Sustainable branding emphasizes the use of environmentally friendly practices, conservation efforts, and social responsibility, creating a positive image that resonates with a growing segment of the market [40]. Collaboration between the public and private sectors can unlock opportunities for sustainable agricultural marketing. Governments can provide supportive policies and incentives, while private enterprises contribute innovations and market-driven solutions. Such partnerships can lead to the development of sustainable supply chains and the adoption of eco-friendly practices [41]. Investing in consumer education and awareness programs is fundamental to promoting sustainable choices. Informed consumers are more likely to support products aligned with environmental and social sustainability. Marketing campaigns that highlight the benefits of sustainable agriculture contribute to shaping consumer preferences [42,43]. By capitalizing on these opportunities, agricultural development can be steered toward sustainability, encompassing economic profitability, environmental conservation, and social responsibility. As stakeholders embrace these strategies, the agricultural sector can play a pivotal role in ensuring food security and ecological resilience for future generations.

Conclusion

The realm of entrepreneurial marketing in agriculture stands at the intersection of challenges and opportunities requiring a nuanced and adaptive approach. The multifaceted

challenges ranging from fragmented supply chains to limited market access underscore the necessity for agricultural entrepreneurs to be resilient and innovative. The integration of digital technologies, sustainable practices and direct-to-consumer models presents avenues for growth and differentiation. Sustainability emerges not only as a moral imperative but also as a competitive advantage appealing to the increasingly conscientious consumer base. Collaboration both within the agricultural value chain and through partnerships becomes a catalyst for overcoming obstacles and fostering synergies. The evolving landscape of agricultural entrepreneurship demands not just the marketing of products but the creation of compelling narratives that resonate with consumers. As we navigate these challenges and seize the opportunities at hand, it becomes evident that the future of entrepreneurial marketing in agriculture lies in a blend of adaptability, technological integration, sustainability and consumer-centric strategies promising a transformative journey for the sector.

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