Entrepreneurship Education as a Catalyst for Sustainable Development in Higher Education Institutions

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ABSTRACT
Entrepreneurship education has emerged as a powerful driver of sustainable development, especially in regions grappling with socio-economic challenges like South Africa. This paper draws on a qualitative research method, utilizing secondary data sources from various authors. The data was gathered from published and peer-reviewed publications, internet sources, and textbooks relevant to the issue at hand. Several authors highlighted the crucial role of entrepreneurship education in equipping students with the necessary competencies and attitudes to navigate complex challenges and devise innovative solutions. By fostering creativity, resilience, and adaptability, these programs empower individuals to become agents of change in their communities, driving economic growth, social empowerment, and environmental stewardship. This paper underlines the importance of integrating sustainability principles into entrepreneurship education curricula to ensure the development of socially and environmentally responsible enterprises. Additionally, it emphasizes the need to nurture a culture of entrepreneurship and innovation to unlock the potential for prosperity and resilience in marginalized communities. This approach aligns with the aspirations of the National Agenda 2063 and Sustainable Development Goal 4, which aims to transform economies and create jobs. Entrepreneurship education fosters economic growth, social empowerment, and environmental stewardship, contributing to a more prosperous and resilient society.

Keywords: Entrepreneurship, Catalyst, Sustainable Development.

INTRODUCTION
South Africa faces multifaceted challenges in its pursuit of sustainable development. Despite being rich in natural and human resources, the region grapples with high unemployment rates, inadequate infrastructure, limited access to quality education and healthcare, and environmental degradation. These challenges are exacerbated by historical injustices, economic inequalities, and a lack of viable opportunities for socio-economic advancement. In this context, entrepreneurship emerges as a potential catalyst for addressing these challenges and fostering sustainable development in South Africa. By empowering individuals to create businesses, generate employment, and drive innovation, entrepreneurship education has the potential to transform the local economy, improve living standards, and promote social inclusion. Kirby defined entrepreneurship as an agency of change with characteristics...
such as risk-taking ability need for achievement, locus of control, desire for autonomy, deviancy, creativity and opportunism, and intuition.\textsuperscript{1} Entrepreneurial education is focused on developing youths as well as individuals with passion and multiple skills.\textsuperscript{2} It aims to reduce the risks associated with entrepreneurship thought and guide the enterprise successfully through its initial stage to the maturity stage. According to Brown, entrepreneurial education is designed to communicate and inculcate competencies, skills and values needed to recognize business opportunities, organize, and start new business ventures.\textsuperscript{3} Gorman, Hanlon, and King have pointed out that entrepreneurship education is an educational programme that is focused on impacting students with issues on entrepreneurship.\textsuperscript{4} Entrepreneurship education has to do with encouraging and inspiring children, youths, and elders on how to be independent both in thinking and creativity in business.\textsuperscript{5} In addition, Timmons explained that "Entrepreneurship is the ability to create and build something from practically nothing."\textsuperscript{6} It is initiating, doing, achieving, and building an enterprise or organization. Lessem viewed entrepreneurship as a difficult concept to define but easier to identify as entrepreneurs portray some set of attributes and behaviours.\textsuperscript{7} Entrepreneurship necessitates the dissemination of additional knowledge regarding the opportunities and impacts on the environment, society, and economy that are relevant to young and aspiring entrepreneurs.

Studies reveal that youth, and consequently, younger entrepreneurs, possess a greater awareness of sustainability concerns in contrast to the senior population.\textsuperscript{8} Thus, because of their strategic location, higher education institutions can offer these budding entrepreneurs’ excellent chances to generate original and creative concepts that they can develop into profitable, sustainable businesses.\textsuperscript{9} According to several studies conducted globally, interest in how universities may support sustainable entrepreneurship has grown.\textsuperscript{10} How higher education institutions encourage the development of ideas and sustainable business, however, has not been made obvious. For example, the relationship between education for sustainable development and sustainable entrepreneurship in higher education is covered in research by Lans, Blok, and Wesselink.\textsuperscript{11}

The study undertaken by Brazdauskas & Zirnele focused on the integration of sustainable entrepreneurship within the curriculum.\textsuperscript{12} While Yan et al.’s research focuses on personality traits and intentions of starting a business among higher education students, Kimanzi studied management education for sustainable development and sustainable consumption in higher education institutions in central and Eastern Europe.\textsuperscript{13} While the theoretical aspect of sustainable business is the focus of these research works, they do not neglect other aspects of the field. Studies on the function of higher education establishments in fostering youthful and aspirational entrepreneurs' inventive and sustainable entrepreneurship in

\textsuperscript{6} Jeffry A Timmons, \textit{The Entrepreneurial Mind} (Brick House Publishing Co., 1989).
\textsuperscript{8} Mathew Kimanzi, “The Role of Higher Education Institutions in Fostering Innovation and Sustainable Entrepreneurship: A Case of a University in South Africa,” 2020.
developing nations like South Africa are scant. This forms the main basis of this study. The study is guided by the following research question: What is the role of entrepreneurship education in fostering sustainable development in higher education institutions? The findings are presented subsequently.

EMPirical Literature Review
The role of entrepreneurship education in fostering sustainable development

The foundations of (sustainability-driven) entrepreneurship are largely laid by education. The fourth Sustainable Development Goal (quality education) which advocates for universal access to inclusive and equitable education as well as opportunities for lifelong learning also highlights the significance of education for sustained development. The establishment of sustainability institutes, colleges, and study programs by universities is a response to the demand for environmental education in recent decades. The ability to incorporate Sustainable Development practices and ideas into all facets of teaching and learning, however, is frequently lacking in higher education institutions. Multidisciplinary is typically taught in contrast to sustainability and entrepreneurship taught alone. Additionally, a "profit-first mentality" is a common lesson imparted to entrepreneurial students by business schools, which has a detrimental effect on their desire to practice sustainable tourism. It's essential for educational institutions to evolve their curriculum to reflect the interconnectedness of disciplines and the importance of sustainability in business practices. This can help shape future entrepreneurs who are not only financially successful but also mindful of their impact on the world.

To increase students' comprehension of the advantages of sustainable entrepreneurship, business schools should advocate for sustainable development from an entrepreneurial and "opportunity-identification perspective." More and more people are realizing that entrepreneurship may help with a range of social, economic, and environmental problems. Research in a wide range of scientific fields, such as business, management, economics, social sciences, and psychology, is consequently being conducted on it. Hart and Milstein highlighted the potential for the interaction between entrepreneurship and sustainable development as early as 1999. Schumpeter's theory of "creative destruction" which basically holds that established organizations, institutions, and business models must be destroyed to make room for innovation and new ventures, served as the foundation for their work. To improve students' understanding of the benefits of sustainable entrepreneurship, business institutions ought to promote sustainable development using an entrepreneurial and "opportunity-identification perspective." People are becoming more and more aware of the potential benefits of entrepreneurship in addressing many social, economic, and environmental issues. As a result, it is the subject of research in numerous scientific domains, including business, management, economics, social sciences, and psychology. As early as 1999, Hart and Milstein emphasized the possibility of a relationship between entrepreneurship and sustainable development. Their approach was based on Schumpeter's "creative destruction" idea, which essentially maintains that to generate a place for innovation and new enterprises, established organizations, institutions, and business models must be eliminated. Graduate unemployment is becoming a bigger problem that South Africa needs to solve. Ncanywa states that to address this growing issue, efforts from corporations, educational institutions, and government policymakers must be investigated. Problems with race and multiculturalism had not been made easy by the provinces' diversity in South Africa. According to Fine and Gradin, for example, a sizable portion of the population in South Africa was relocated to urban areas from rural ones or was placed in rural provinces.

People without a background in entrepreneurship predominate in the rural provincial setup. These people lack access to knowledge, lack entrepreneurial abilities such as creativity and invention, lack role models, and are unable to obtain money (Leibbrandt et al., 2007). Since it was mentioned that attending business events helps entrepreneurs develop their skills, there aren't many events in remote areas, and most individuals don't know how to go to them. It is possible that students in many diverse higher education institutions have been affected by this reality. All public institutions have a higher proportion of students

from these rural communities, who struggle with a vague curriculum that lacks exposure to entrepreneurship. The Department of Higher Education and Training (DHET) through Universities South Africa (USAf) is collaborating with the private sector, academia, and government to address the issues surrounding the high rate of unemployment among graduates in South Africa. The goal of these collaborations is to stimulate growth through the entrepreneurship route. Student business owners ought to create long-lasting companies that improve the quality of life and communities for their constituents. The Entrepreneurship Development in Higher Education (EDHE) program was created by DHET. For students to engage in the economy, awareness campaigns were first used to encourage them to think about entrepreneurship as a vocation. The goals of the EDHE project are to give higher education institutions a strategic focus, foster conducive conditions, encourage cooperation and partnership, and unlock their potential. To participate in the economy and as an alternative to the limited number of formal jobs available, the EDHE program sought to increase student awareness of careers in entrepreneurship. Through partnerships with commercial companies, local governments, Technical and Vocational Education and Training (TVET) institutions, and government agencies, particularly the Department of Small Business and Development (DSBD), EDHE is broadening the scope of its recognition. Higher education institutions and small, micro, and medium-sized businesses have collaborated by attending the DSBD annual colloquia.

THEORETICAL FRAMEWORK
The agreement on what constitutes an appropriate definition of entrepreneurship served as the foundation for the development of the theory. This has to do with acknowledging that entrepreneurs can receive training to enable them to launch profitable enterprises. A shift toward the use of larger samples, the separation and attention to entrepreneurship and intrapreneurship form part of the theory development, and advancements in sophisticated research methods and statistical techniques could all serve to further support the theory. Despite the abundance of theories surrounding entrepreneurship, there is a dearth of mathematical models that explicitly analyse entrepreneurial behaviour within closed economic systems. Many have claimed that deterministic statistical models cannot accurately predict the spontaneous behaviour that characterizes entrepreneurship.

Theory of Cantillon
The first person to consider the function of entrepreneurship in the manufacturing process was Cantillon (1680–1734), who saw the entrepreneur as a risk taker who balanced supply and demand in the market. Three categories of economic agents were identified by Cantillon’s theory: hirelings, entrepreneurs, and landowners. To maximize residual claimants, the procedure framed maximizing venture profits. The foundation of Cantillon’s theory was the idea that export markets should boost national economies and cut labour costs in the localities they serve. Innovation in entrepreneurship was crucial for maintaining global competitiveness in trading marketplaces. This method, which is the focus of this article, connected entrepreneurship to sustained economic growth and employment creation. The theory of Cantillon, which highlights the pivotal role of entrepreneurship in economic processes, particularly in balancing supply and demand and maximizing venture profits, is closely related to the concept of entrepreneurship education as

19 De La Rey and Bawa, “Universities SA Expresses Concern over Cuts to Funding for Research Development.”
20 De La Rey and Bawa, “Universities SA Expresses Concern over Cuts to Funding for Research Development.”
21 De La Rey and Bawa, “Universities SA Expresses Concern over Cuts to Funding for Research Development.”
a catalyst for sustainable development in higher education institutions. The theory provides a theoretical foundation for understanding the role of entrepreneurship education in higher education institutions as a catalyst for sustainable development. By promoting risk-taking, innovation, profit maximization, global competitiveness, economic growth, and employment creation, entrepreneurship education aligns with Cantillon’s vision of entrepreneurship as a driving force for societal progress.

METHODOLOGY
Social scientists value both primary and secondary data which is gathered and arranged by others and obtained especially for their research.28 This study drew information from several writers’ secondary sources. Published and peer-reviewed journals, as well as other pertinent web sources, provided the data for this study. The researcher used search engines such as Google Scholar, IBSS, and Scopus to find these publications. The current study focused on publications relevant to the subject matter between the years 2015 and 2020. This timeframe was chosen due to the abundance of literature available in the field of entrepreneurship education during this period. By limiting the scope to these years, the study ensured that it captured the most recent and pertinent research findings, enabling a comprehensive understanding of the subject matter. In terms of inclusion and exclusion criteria. The researchers carefully examined and evaluated each pertinent article to ensure it was pertinent. Those that were judged unnecessary were all left out of the selection process. 45 publications total that were found to be related to the topic under research were discovered from the 864 articles that were obtained using the search engines indicated above. 8 publications were identified as the most effective in addressing the study’s objective. The primary benefit of secondary data is that it frequently follows professional and expert guidelines, which may not be available to lone researchers or small research initiatives. A secondary study brings together previously published studies on the same topic to create a coherent whole.29 It may be advantageous for users to collect data from many sources and analyse it in accordance with their needs.30 Secondary sources investigate or make arguments. Secondary sources contribute to the understanding of a subject by analysing or disputing the context and interpretation of primary sources.31 Sincere utilization of secondary material can lead to original ideas.32

Table 1: Summary of the Reviewed Articles

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<th>Author/s</th>
<th>Title of the article</th>
<th>Aim of the article</th>
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<tr>
<td>1. Ncanywa T</td>
<td>Entrepreneurship and development agenda: A case of higher education in South Africa.</td>
<td>To investigate the role of entrepreneurship within the development agenda of higher education institutions in South Africa.</td>
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<td>2. Kurotimi MF, Franklin A, Aladei G. Helen O</td>
<td>Entrepreneurship education as a 21st century strategy for economic growth and sustainable development.</td>
<td>The aim of this paper was to examine entrepreneurship education as a strategy for economic growth and sustainable development.</td>
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31 Prasanna et al., “Sustainable Management of Transboundary Pests Requires Holistic and Inclusive Solutions.”
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<th>3.</th>
<th>Olanipekun WD, Brimah AN and Rabiu RO.</th>
<th>Entrepreneurial and vocational education revolution: A catalyst for sustainable development.</th>
<th>This paper highlights the importance of the revolution on entrepreneurship and vocational education curriculum which is a catalyst for solving unemployment problems and achieving sustainable development.</th>
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<td>4.</td>
<td>Ogundele MO and Egunjimi FH.</td>
<td>Entrepreneurship education: an instrument for sustainable economic development in Nigeria.</td>
<td>The aim of this study was to highlight the importance of entrepreneurship education as well as its benefits towards enhancing sustainable economy in Nigeria.</td>
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<td>5.</td>
<td>Kimanzi M.</td>
<td>The role of higher education institutions in fostering innovation and sustainable entrepreneurship: A case of a University in South Africa.</td>
<td>The study aimed to find out the role of institutions of higher education in promoting sustainable entrepreneurship, and to establish the characteristics necessary for sustainable entrepreneurs.</td>
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<td>6.</td>
<td>Magaji A.</td>
<td>The role of entrepreneurship education in job creation for sustainable development in Nigeria.</td>
<td>The aim of this paper was to examine the concept of entrepreneurship education, sustainable development, role of entrepreneurs in sustainable development.</td>
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<td>8.</td>
<td>Okeke MN, Okonkwo GI, and Oboreh JC.</td>
<td>Entrepreneurship education as a catalyst for entrepreneurial inclination in selected universities in the South-East Zone</td>
<td>The purpose of this study was to investigate the inclination toward entrepreneurship among university students.</td>
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### PRESENTATION OF RESULTS AND DISCUSSION

This section discusses the eight (8) selected publications presented above:

A study conducted by Ncanywa focused on entrepreneurship as a developmental agenda within a higher education institution in South Africa. The findings highlighted several key characteristics of entrepreneurs as creative and innovative persons who take calculated risks, take initiative, are strategic thinkers, make informed decisions, and work well in a team within the company. The educational system needs to promote economic development through entrepreneurship education, particularly in higher education. The study suggested that the educational system, particularly in higher education, should play a crucial role in promoting economic development through entrepreneurship education. By incorporating entrepreneurship education into the curriculum, educational institutions can equip students with the necessary knowledge, skills, and mindset to become successful entrepreneurs and contribute to economic

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33 Ncanywa, “Entrepreneurship and Development Agenda: A Case of Higher Education in South Africa.”
growth and development. These findings are in line with the theory of Cantillon, which provides a theoretical foundation for understanding the role of entrepreneurship education in higher education institutions as a catalyst for sustainable development. This foundation often includes components such as business planning, market analysis, and feasibility studies, which empower students to navigate uncertainties confidently.

Kurotimi et al. focused on Entrepreneurship education as a 21st-century strategy for economic growth and sustainable development and their findings reported that Entrepreneurship Education has a favourable impact on entrepreneurship engagement, which promotes economic development and growth. The results also show that nations that embraced Entrepreneurship Education earlier than others are more developed and have more innovations influenced by entrepreneurs. Entrepreneurship Education is a viable instrument for entrepreneurship, economic growth, and sustainable development.

Olanipekun, Brimah and Rabiu conducted a study on the entrepreneurial and vocational education revolution for sustainable development and discovered that human resources through knowledge-based capacity are the cornerstone for the management and utilization of natural resources, entrepreneurship and vocational education equip tomorrow’s leaders with skills that will allow them to be self-reliant, other than being employed. The transformative potential of entrepreneurship and vocational education in driving sustainable development by leveraging human capital, fostering self-reliance, diversifying skill sets, and aligning with global development agendas. Investing in these educational approaches is essential for building resilient societies capable of addressing current challenges and creating a more sustainable future.

In the same vein, Magaji has argued that graduates may receive the skills needed to work for themselves and be independent if entrepreneurship education is successfully applied at training facilities. In addition to fostering economic growth and sustainable development, this will considerably help create jobs and reduce the unemployment rate among the country's swarming youth.

According to Ogundele & Egunjimi, entrepreneurship offers a chance to enhance one's quality of life and contribute to society. Entrepreneurship offers opportunities for individuals to enhance their quality of life, achieve socio-economic mobility, contribute to society, and realize their aspirations. By embracing entrepreneurship, individuals can create economic value, drive social change, and make a positive impact on the world around them. These findings are in agreement with Cantillon's vision of entrepreneurship theory which underpins this study that entrepreneurship education promotes risk-taking, innovation, profit maximization, global competitiveness, economic growth, and employment creation as a driving force for societal progress. Kimanzi focused on the role of higher education institutions in fostering innovation and sustainable entrepreneurship in a University in South Africa. The findings of the study pointed out that organizations promoting entrepreneurship education are offering chances to foster innovative and sustainable entrepreneurship. It was also discovered that the quality needed to be a successful sustainable entrepreneur was creativity.

However, Nwambam, Nnennaya, and Nwankpu study's findings showed that while the contents of the entrepreneurship curriculum are pertinent to sustainable development in Nigerian universities, they fall short of providing students with the necessary knowledge, tools, and abilities to launch their own businesses. Additionally, there are insufficiently trained lecturers and instructors, instructional facilities, and materials for teaching entrepreneurship education. They suggested that lecturers and instructors receive regular training and retraining from the institution's authorities to ensure their competency in teaching entrepreneurship education. It was also suggested that universities, the government, and

38 Kimanzi, “The Role of Higher Education Institutions in Fostering Innovation and Sustainable Entrepreneurship: A Case of a University in South Africa.”
individuals provide the necessary resources and facilities to ensure the efficiency and effectiveness of instruction, as this is crucial to the development of the country. Additionally, the public and private sectors should work together to give university graduates the resources they need to apply the fundamental entrepreneurial skills they have learned.

In the context of South Africa, Okeke, Okonkwo, and Oboreh, examined entrepreneurship education as a catalyst for entrepreneurial inclination in selected universities in the Southeast Zone, their findings showed that self-employment is a tendency shared by male and female undergraduate students taking related business courses, and that entrepreneurship education is a forerunner to entrepreneurial inclination. They suggested that entrepreneurship education be promoted at Nigerian universities to encourage graduates to work for themselves. The findings emphasize the role of entrepreneurship education in nurturing and enhancing entrepreneurial skills, knowledge, and attitudes among students. By integrating entrepreneurship education into university curricula, institutions can equip students with the necessary tools and mindset to pursue entrepreneurial ventures.

RECOMMENDATIONS
Higher education institutions should prioritize the integration of entrepreneurship education into their academic curricula across various disciplines. This integration should not only focus on business-related courses but should also extend to other fields to cultivate an entrepreneurial mindset among students from diverse backgrounds. Implement experiential learning opportunities such as internships, apprenticeships, and entrepreneurial projects within the curriculum. These hands-on experiences provide students with practical skills and real-world exposure to entrepreneurship, thereby enhancing their readiness to launch and manage sustainable businesses. Institutions should invest in faculty training and development programs to enhance the capacity of educators to effectively teach entrepreneurship education. Faculty members should be equipped with the necessary knowledge, pedagogical strategies, and resources to deliver high-quality entrepreneurship education that meets the needs of students. Establish collaborative partnerships between higher education institutions, government agencies, industry stakeholders, and community organizations to create a supportive ecosystem for entrepreneurship education. These partnerships can facilitate the exchange of resources, expertise, and networks to enrich entrepreneurship education initiatives and support student entrepreneurship ventures. Ensure that students have access to resources and support services such as mentorship, incubation facilities, funding opportunities, and networking events to facilitate the development and growth of their entrepreneurial ventures. These resources can empower students to overcome barriers and challenges associated with entrepreneurship. Continuously evaluate and revise entrepreneurship education curriculum to align with emerging trends, industry needs, and sustainability goals. Incorporate feedback from students, faculty, industry partners, and other stakeholders to ensure that entrepreneurship education programs remain relevant, impactful, and responsive to changing dynamics.

CONCLUSION
The integration of entrepreneurship education into higher education institutions holds immense potential as a catalyst for sustainable development, particularly in regions like South Africa facing socio-economic challenges. Through a comprehensive review of literature and empirical studies, it's evident that entrepreneurship education equips students with the skills, mindset, and opportunities necessary to navigate complex challenges and drive innovation. However, there are still areas for improvement, such as enhancing faculty training, expanding experiential learning opportunities, and strengthening collaborative partnerships. By prioritizing these recommendations and continuously refining entrepreneurship education curricula to align with emerging trends and sustainability goals, higher education institutions can play a pivotal role in nurturing a new generation of socially and environmentally responsible entrepreneurs who will contribute to lasting economic growth, social inclusion, and environmental stewardship. This synthesis underscores the transformative potential of entrepreneurship education and encourages stakeholders to embrace its role in fostering sustainable development.

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**Mr. Ntsika Dyantyi** serves as a Lecturer in the Department of Business Management Education within the Faculty of Education at Walter Sisulu University. His expertise lies in Educational Management and Leadership, particularly within the realms of higher education and secondary school settings. He actively engages in international research conferences, contributing to the discourse on educational management practices. He also holds memberships in key university committees such as the Faculty Learning and Teaching Committee, Curriculum Transformation Committee, and Research and Higher Degrees Committee. Additionally, He is a valued member of the Entrepreneurship Development in Higher Education (EDHE) under the community of practice, where he contributes to initiatives aimed at promoting entrepreneurship development in higher education.

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