INFLUENCE OF AUTOMOBILE TECHNOLOGY ON STUDENTS ENTREPRENEURSHIP PERFORMANCE AND SUBSTAINABLE DEVELOPMENT

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A RESEARCH PROJECT SUBMITTED TO THE DEPARTMENT OF VOCATIONAL AND TECHNICAL EDUCATION, FACULTY OF EDUCATION, IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF BACHELOR OF SCIENCE EDUCATION (BSc.Ed) DEGREE IN BUSINESS EDUCATION ,UNIVERSITY OF BENIN, BENIN CITY.

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APPROVAL PAGE

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Date

DEDICATION

This research work is dedicated to the Almighty God for his infinite mercies, love, provision, and strength towards me that made me complete my course of study.

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ABSTRACT

This Study Examined the Influence Of Automobile Technology On Students Entrepreneurship Performance And Substainable Development The target population of the study comprises of all students in the automotive technology departments of technical colleges in Abeokuta North Local Government area. The study will specifically target students who are in the final year of their program, as they are expected to have a more comprehensive understanding of the curriculum and its practical applications.

The sample size will be determined using a simple random sampling technique. A total of 80. automotive technology students from various technical colleges in Abeokuta North Local Government area will be selected to participate in the study. This sample size is chosen to ensure that the findings are representative of the student population while remaining manageable for data collection.

The following recommendations were made;1. Strengthen industry partnerships to improve access to modern automotive technologies through collaborative programs and equipment donationsIntegrate entrepreneurship modules into technical curricula to bridge the gap between technical skills and business management Upgrade workshop facilities with sustainable technology equipment to ensure hands-on experience with eco-friendly automotive solutions

Provide specialized training for instructors on emerging automotive technologies to maintain curriculum relevance with industry developments For Government Agencies

Increase funding for technical education equipment and facilities to address current resource gaps

CHAPTER ONE
INTRODUCTION

Background to the Study

The world is experiencing rapid technological advancements, and the automobile industry is no exception. The increasing adoption of automobile technology has transformed the way businesses operate, creating new opportunities for entrepreneurship and sustainable development. Nigeria, with its large and growing population, presents a significant market for automobile technology. The government has implemented initiatives to promote entrepreneurship and sustainable development, recognizing the importance of innovation and technology in driving economic growth. Abeokuta North Local Government Area, located in Ogun State, Nigeria, is a rural area with significant potential for economic development. The area is home to several higher institutions, producing graduates who can drive entrepreneurship and innovation. However, the lack of infrastructure, limited access to funding, and inadequate training programs hinder the growth of entrepreneurship and sustainable development in the area.

The proliferation of automobile technology has transformed the way people live, work, and interact. Automobile technology plays a significant role in shaping students' entrepreneurial performance and sustainable development in areas like Abeokuta North Local Government. While the area lacks a robust automobile manufacturing base, its impact is seen in areas like transportation services,

automobile repair, and training in entrepreneurship. There has been a growing interest in the potential impact of automobile technology on entrepreneurship, particularly among student of Abeokuta North Local Government Area. Nigeria has seen the emergence of workshops and auto-mechanics skilled in assembling and repairing vehicles, including adapting imported vehicles to local needs. The introduction of electric vehicles (EVs), hybrid cars, and computerized diagnostic tools has transformed the automobile industry, making it more sophisticated.

In recent years, Abeokuta North Local Government Area of Ogun State has seen significant strides in empowering its residents and promoting local innovations, including in the automobile sector. There are vocational training institutions that focus on empowering students with practical skills in automobile technology. These institutions offer hands-on training in areas such as auto mechanics, automotive engineering, and vehicle diagnostics. Students can learn how to repair, maintain, and service vehicles, gaining valuable skills for future careers in the automotive industry.

Some of the vocational training institutions in Abeokuta North that specialize in automobile technology include:

·Abeokuta North Automotive Training Institute

·Auto-Tech Vocational Center

·Vehicle Maintenance and Repair School

These institutions play a vital role in equipping students with the practical skills needed to excel in the field of automobile technology and contribute to the local automotive sector.

There has been contribution significantly through empowerment programs. These initiatives have included distributing tricycles to aid transportation and self-reliance among residents, as part of efforts to enhance socio-economic development. While the automobile technology industry in the area is still emerging, related trades like blacksmithing and repair services thrive, often centered around popular markets such as the Kuto and Itoku markets. Abeokuta North is also home to talented artisans and entrepreneurs who focus on repairing and modifying vehicles, though large-scale automobile manufacturing or technological advancements are still developing (Ayorinde,2021). The use of renewable energy solutions, like solar-powered tricycles and electrification projects, is becoming more common in Abeokuta North Local Government Area. These initiatives are helping to promote sustainable transportation and energy access, which can significantly benefit the local community by reducing reliance on fossil fuels and enhancing environmental sustainability. The adoption of such technologies can also create new job opportunities and foster economic growth in the area. These projects, often driven by local government initiatives, demonstrate how automobile-related technology can align with sustainability goals (Theliscon & Osoba,2020).

Empowerment of individuals in Owode/Odeda federal constituency took place through programs such as vehicle distribution and training to enhance mobility and employment, and also the facilitation of provision of cars to local residents as part of empowerment initiatives (Osoba,2021). Students exposed to entrepreneurial opportunities in the automobile sector often develop innovative solutions, such as eco-friendly vehicle designs or cost-effective repair methods. These innovations contribute to local economic growth and environmental sustainability. Limited access to modern automobile technology due to funding constraints or outdated educational tools is indeed a significant challenge in the area. However, it's encouraging to see local efforts, such as empowering youths with motorized tricycles and providing startup loans, helping to bridge this gap. These initiatives can play a crucial role in enhancing skills and creating opportunities for the community. Despite the growing importance of automobile technology in driving entrepreneurship and sustainable development, there is a paucity of research on its specific impact on students' entrepreneurship performance and sustainable development in Abeokuta North Local Government Area. This study aims to bridge this knowledge gap by investigating the influence of automobile technology on students' entrepreneurship performance and sustainable development in the area.

Statement of Problem

Research shows that;

·There is lack of innovative ideas and skills among students in Abeokuta North that may hinder their ability to start and run successful businesses.

·There is insufficient access to resources such as transportation, internet, and funding which impede students' entrepreneurial endeavors.

·Students are not equipped to implement sustainable business practices, which could harm the environment and local community.

·Students are not receiving adequate training and education on automobile technology, limiting their understanding of its applications and potential.

·Students in Abeokuta North faces difficulties in securing funding, mentorship, and other resources to support their entrepreneurial ventures.

Purpose of the Study

The primary aim of this study is to determine the relationship between automobile technology and students' entrepreneurship performance in Abeokuta. In achieving this aim,the following objectives were laid out as follows:

·To determine the relationship between automobile technology and students 'entrepreneurship performance· To assess the impact of automobile technology on sustainable development among students.

·To identify the factors that influence the adoption of automobile technology among students.

·To examine the current state of automobile technology adoption among students in Abeokuta North Local Government Area.

·To investigate the benefits and challenges associated with te use of automobile technology in students' entrepreneurship endeavors.

·To provide recommendations for promoting the adoption of automobile technology among students and enhancing its impact on entrepreneurship performance and sustainable development.

Research Question

The study came up with research questions so as to be able to ascertain the above stated objectives. The specific research questions for the study are stated below as follows:

1. ·What is the relationship between automobile technology and students' entrepreneurship performance?
2. ·How does automobile technology influence sustainable development among students?
3. ·What factors influence the adoption of automobile technology among students?
4. ·What are the benefits and challenges associated with the use of automobile technology in students' entrepreneurship endeavors?

Research Hypothesis

In order to pursue the objective of this study, the following generalized statements have been designed to guide and aids in obtaining the result for the experiment to be conducted. For this work, the null hypothesis will be represented with HO while the alternative hypothesis will be represented with hypothesis H1.

HYPOTHESIS ONE

·**HO**: There is no significant relationship between the adoption of automobile technology and students' entrepreneurship performance in Abeokuta North Local Government Area.

·**H1**: There is a significant positive relationship between the adoption of automobile technology and students' entrepreneurship performance in Abeokuta North Local Government Area.

HYPOTHESIS TWO

·**HO**: Automobile technology does not significantly influence students' entrepreneurial skills, such as innovation, risk-taking, and business planning.·

H1: Automobile technology significantly enhances students' entrepreneurial skills, leading to improved entrepreneurship performance.

Significance of Study

The significance of this study for various stakeholders is substantial:

1. For technical college administrators, the study provides insights into how current automobile technology aligns with the entrepreneurial needs of students, helping administrators adjust the curriculum to incorporate modern tools, techniques, and industry trends.
2. For educators, it enables the design and implementation of curriculum that integrates modern automobile technologies, fostering students' entrepreneurial and technical skills.
3. For self-employed automobile technology graduates, the study can highlight how knowledge of automobile technology improves the technical skills and entrepreneurial competence of graduates. Self-employed graduates can use these insights to refine their skills, stay competitive, and offer high-quality services.
4. For policymakers and government agencies, the study provides empirical data that policymakers can use to design and implement effective policies promoting technical and vocational education, particularly in automobile technology. It helps align educational policies with the goals of youth empowerment, entrepreneurship development, and sustainable economic growth.
5. For industry stakeholders and potential investors, the study provides insights into the availability and quality of young, skilled entrepreneurs trained in automobile technology, highlighting potential partnerships or recruitment opportunities

Identifies a pool of entrepreneurial talent that can drive innovation and growth in the local automotive sector, making it easier to invest in startups or enterprises with a strong foundation and identifies a pool of entrepreneurial talent that can drive innovation and growth in the local automotive sector, making it easier to invest in startups or enterprises with a strong foundation.

Scope of Study

The scope of this research specifically focused on Abeokuta North Local Government Area, a region in Ogun State, Nigeria.

It examines how local educational institutions, vocational centers, and automotive-related businesses contribute to the entrepreneurial and sustainable development of students in the area.

Limitations of the Study

The study of the influence of automobile technology on students' entrepreneurship performance and sustainable development in Abeokuta North Local Government Area of Ogun State may encounter the following limitations:

1. Difficulty in obtaining accurate or complete data from schools, students, or entrepreneurs due to poor record-keeping or reluctance to share information.

2. The study may rely on a limited sample of students, schools, or businesses due to time or resource constraints.

3. Some schools or training centers may lack modern automobile technology, making it difficult to assess its impact comprehensively.

4. Insufficient financial resources for conducting a thorough study, such as accessing advanced tools for data collection or employing expert researchers.

Operational Definition of Terms

Automobile technology: This term refers to the study and application of technical skills related to the maintenance, repair, and improvement of vehicles. It includes understanding automotive systems, diagnosing faults, and performing mechanical and electrical repairs on the general operation of an automobile to obtain maximum or required efficiency.

Entrepreneurship performance: this refers to the outcomes and effectiveness of an entrepreneur's activities in achieving their goals, such as starting, managing, and growing a business.

Sustainable development: is the process of meeting the needs of the present without compromising the ability of future generations to meet their own needs.

Environmental sustainability: refers to the responsible interaction with the environment to avoid depleting natural resources, ensuring that future generations can meet their needs.

Entrepreneurial talent: refers to the unique abilities, skills, and mindset that enable individuals to identify opportunities, take risks, innovate, and build successful businesses or initiatives.

Sustainability goals: are objectives aimed at promoting environmental protection, social well-being, and economic growth while ensuring the long-term health and resilience of the planet.

Automotive sector: is a dynamic and expansive industry that focuses on the development, production, and distribution of motor vehicles and related services.

Self-Employed: This refers to individuals who run their own businesses rather than working for an employer. In this context, self-employed automobile technology graduates are those who have established their own businesses in the automotive sector after completing their technical education.

Technical Graduates: These are individuals who have completed vocational training and learning programs at either technical colleges, universities or other tertiary institutions specifically in the field of automobile technology. Such programs are designed to provide specialized technical skills and knowledge relevant to the automotive industry.

CHAPTER TWO
REVIEW OF RELATED LITERATURE

This chapter reviews the literature to the study under the following sub-headings:

- ·Conceptual framework
- ·Theoretical framework
- ·Entrepreneurship performance Gap in Technical Graduates
- ·Overview of Entrepreneurship performance
- ·Importance of Entrepreneurship performance for Self-Employed Graduates
- ·Factors Contributing to Entrepreneurship performance deficiency
- ·Challenges Faced by Self-Employed Graduates
- ·Review of Related Empirical Studies
- ·Strategies for Improving Entrepreneurship performance
- ·Summary of reviewed literature

Conceptual framework

Entrepreneurship performance refers to the measurement and evaluation of the success and effectiveness of entrepreneurial ventures. It also refers to the ability of an entrepreneur or a business venture to achieve success, growth, and sustainability in a competitive environment. It is measured by various financial and

non-financial indicators including technology, market conditions, and access to resources, that reflect how well an entrepreneur or business is performing.

According to Bilimori (2025), entering established markets requires bravery and a willingness to challenge existing players, introducing new products or services that disrupt the status quo, challenging traditional business models and practices, embracing uncertainty and potential failure. Success is not solely dependent on brilliant ideas or technical expertise, but also on the ability to navigate challenges, adapt to changing circumstances, and stay committed to one's vision (Musk,2023).

Entrepreneurship performance is a multifaceted concept that includes financial success, market positioning, innovation, operational efficiency, social impact, sustainability, growth potential, and adaptability. A successful entrepreneur must manage finances effectively to ensure sustainability and growth, understand their target market, adapt to changing consumer preferences, develop strategies that enhance their competitive advantage, and also the ability to create new products, services, or processes that can significantly impact performance. The entrepreneurial landscape is dynamic, and the ability to adapt to changes such as economic shifts, technological advancements, or regulatory changes is crucial. Entrepreneurs who can respond effectively to these changes are better positioned to survive and thrive in their markets. For instance, during economic downturns, they

may need to adjust their strategies, modify pricing, or explore new markets to maintain profitability.

Technological advancements are also significant; entrepreneurs who embrace new technologies can improve their operations, enhance customer experiences, and gain a competitive edge. Additionally, staying compliant with regulatory changes is essential to avoid legal issues and maintain a positive reputation.

Adaptability is a key trait for entrepreneurs, as it enables them to navigate challenges and seize opportunities in an ever-evolving business environment. Resilient entrepreneurs can pivot their strategies and remain competitive in challenging environments. Entering new markets or diversifying offerings are indeed important measures of entrepreneurship performance. When a business expands into new markets, it can tap into different customer bases, which often leads to increased sales and revenue. This strategy allows entrepreneurs to reduce their reliance on a single market, thus spreading risk and improving overall business stability. Diversifying offerings, on the other hand, involves introducing new products or services that complement the existing ones. This can enhance customer satisfaction as it provides more choices and can also attract new customers. Moreover, it helps businesses adapt to changing market trends and consumer preferences, ensuring long-term sustainability. Both strategies reflect an

entrepreneur's ability to innovate and respond to market demands, which are critical indicators of their performance and success in the competitive landscape. Entrepreneurs who successfully navigate growth challenges indeed showcase strong leadership and strategic planning abilities. Effective leadership is crucial as it inspires and motivates teams to work towards common goals, especially during times of change and uncertainty. A strong leader communicates a clear vision, fosters a positive culture, and empowers employees, which is essential for maintaining morale and productivity.

Strategic planning involves setting long-term goals and determining the best course of action to achieve them. Entrepreneurs need to analyze market trends, identify opportunities, and anticipate challenges. This foresight enables them to allocate resources efficiently and make informed decisions that drive growth. By combining effective leadership with strategic planning, entrepreneurs can not only overcome obstacles but also position their businesses for sustainable success in a competitive environment.

Theoretical Framework

The theoretical framework for the study on "Influence of automobile technology on students entrepreneurship performance and sustainable but development in Abeokuta North Local Government area" draws upon several key

theories that underpin the relationship between technical education and sustainable development.

Technology Adoption Theory: This theory posits that the adoption of new technologies, like automobile technology, can enhance the skills and knowledge of students, leading to improved entrepreneurial performance. As students learn about modern automotive technologies, they can innovate and create businesses that are more efficient and sustainable. The theory suggests that the perceived benefits of adopting automobile technology, such as increased efficiency and reduced operational costs, can motivate students to embrace these innovations.

Human Capital Theory: This theory suggests that investments in education and training, particularly in fields related to automobile technology, can increase the productivity of individuals. In the context of Abeokuta North, students who gain knowledge in auto mechanics and technology may become more capable entrepreneurs, contributing to local economic development. Workers with higher levels of human capital, such as education and skills, are better equipped to take advantage of new technologies and adapt to changing job market demands (Autor 2019). By fostering a workforce that is knowledgeable about sustainable automotive practices, Human Capital Theory suggests that these students can contribute to sustainable development in their community.

Sustainable Development Theory: This theory emphasizes the balance between economic growth and environmental sustainability. The integration of automobile technology can lead to more sustainable practices in transportation and logistics, which students can leverage in their entrepreneurial ventures.

Social Capital Theory: This theory highlights the role of social networks and relationships in fostering entrepreneurship. In Abeokuta North, students engaged in automobile-related activities may form networks that support collaboration and innovation, enhancing their entrepreneurial opportunities.

These theories can provide a framework for understanding how automobile technology influences students' entrepreneurship performance and contributes to sustainable development in the region.

Entrepreneurship Performance Gap in Technical Graduates

The framework also incorporates Skills Gap Theory, which addresses the discrepancies between the skills that technical graduates possess and the skills required by employers in the entrepreneurial landscape. This gap can significantly impact entrepreneurship performance among these graduates.

Many technical graduates may have received training in theoretical knowledge but lack practical skills necessary to apply this knowledge effectively in real-world situations (Seldon 2021). He emphasized the need for universities to focus more on practical skills and real-world applications to better prepare

graduates for employment. For instance, while they may understand automotive systems, they might not have hands-on experience with the latest technologies or business practices in the automotive sector. This lack of practical skills can hinder their ability to innovate or start successful businesses.

The skill gap can indeed lead to a mismatch between the expectations of employers and the capabilities of graduates, limiting their employability and entrepreneurial opportunities. This disconnect can hinder the potential for innovation and growth, particularly in fields like automobile technology, where practical skills are essential for success.

Overview of Entrepreneurship Performance

The overview of Entrepreneurship performance for “automobile technology on students entrepreneurship performance and sustainable development in Abeokuta North Local Government area" encompasses the essential competencies required to successfully operate and grow a business. These skills are vital for self-employed individuals in the automotive sector who must effectively manage various aspects of their businesses beyond technical expertise.

·Business Planning: Ability to develop and implement effective business plans, including market research, financial projections, and strategic planning.

·Marketing and Sales: Knowledge of marketing principles, including branding, advertising, and sales strategies, to effectively promote and sell products or services.

·Financial Management: Ability to manage finances, including budgeting, accounting and financial analysis, to ensure sustainability and growth.

·Operational Management: Ability to manage day-to-day operations, including supply chain management, logistics, and quality control.

·Leadership and Team Management: Ability to lead and manage teams, including recruitment, training, and motivation, to achieve business objectives.

·Innovation and Adaptability: Ability to innovate and adapt to changing market conditions, including technological advancements and shifting customer needs.

·Sustainability and Social Responsibility: Knowledge of sustainable business practices and social responsibility, including environmental impact, ethics, and community engagement.

·Environmental Sustainability: Knowledge of sustainable practices, including waste reduction, energy efficiency, and environmental impact assessment.

·Social Sustainability: Understanding of social responsibility, including community engagement, labor practices, and human rights.

·Economic Sustainability: Ability to manage finances and resources to ensure long-term economic viability and growth.

Importance of Entrepreneurship Performance for Self-Employed Graduate

The importance of entrepreneurial skills for self-employed graduates, particularly those in the field of automobile technology, is pivotal for their success and sustainability in the business world. These skills are essential for effectively managing and growing their own businesses beyond the technical training they have received.

·**Job Creation**: Self-employed graduates can create jobs for themselves and others, contributing to economic growth and development.

·**Income Generation**: Successful entrepreneurship performance can generate income and improve the standard of living for self-employed graduates and their families.

·**Innovation and Competitiveness**: Entrepreneurship performance can drive innovation, leading to new products, services and processes that enhance competitiveness and economic growth.

·**Community Development**: Self-employed graduates can contribute to community development, creating businesses that address local needs and improve quality of life.

·**Role Modeling and Mentorship**: Successful entrepreneurs can serve as role models and mentors, inspiring and guiding others to pursue entrepreneurial careers.

·**Social Impact**: Entrepreneurship performance can drive social impact, addressing pressing issues such as environmental sustainability, healthcare, and education.

·**Economic Diversification:** Entrepreneurship performance can contribute to economic diversification, reducing dependence on traditional industries and promoting innovation.

·**National Competitiveness**: Successful entrepreneurship performance can enhance national competitiveness, driving innovation and growth in key sectors.

·**Talent Retention and Attraction**: Entrepreneurship performance can help retain and attract talent, as self-employed graduates and entrepreneurs contribute to national development and growth.

Factors Contributing to Entrepreneurship Performance Deficiency

Several contribute to the entrepreneurial skills gap among technical automobile technology graduates:

·Limited Access to Technology: Unavailability of technology or limited digital literacy

·Inability to Leverage Technology: Failure to use technology to innovate and improve business operations.

·Poor Data-Driven Decision Making: Inability to collect and analyze data for informed decision making

·Inadequate Cybersecurity: Failure to protect business from cyber threats

Unfavorable Government Policies: Unsupportive government policies and regulations

Limited Institutional Support: Unavailability of institutional support, such as business incubators

·Limited Access to Finance: Unavailability of financing options or unfavorable financing terms

·Corruption and Lack of Transparency: Prevalence of corruption and lack of transparency in business environment.

·Inadequate Entrepreneurship Education: Lack of relevant entrepreneurship training and education

·Limited Access to Mentorship: Unavailability of experienced mentors and coaches

·Insufficient Networking Opportunities: Limited access to networking events and conferences

·Inadequate Access to Resources: Unavailability of resources, such as incubators and accelerators

·Limited Access to Funding: Unavailability of capital to start and grow a business

Unfavorable Market Conditions: Lack of demand for products or services·High Competition: Intense competition in the industry

·Unfavorable Regulatory Environment: Unsupportive laws and regulations

Challenges Faced by Self-Employed Graduates

Self-employed technical automobile technology graduates in Abeokuta North Local Government area faces several challenges that impact their business operations and growth. These challenges underscore the need for enhanced entrepreneurship performance to overcome barriers and achieve business success. Some of the challenges faced by several self-employed graduates are:

·Limited access to modern equipment and tools: Outdated equipment hinders service quality.

·Inadequate workspace: Insufficient space limits client capacity.

·Poor road network: Difficulty accessing clients or transporting goods increases costs.

·Limited access to funding: High interest rates, collateral requirements, and limited financial institutions hinder growth.

·Low profit margins: High costs of goods, equipment, and labor reduce profitability.

·Unpredictable income: Irregular cash flow makes financial planning challenging.

·Limited marketing skills: Inadequate knowledge of marketing strategies reduces client attraction.

·Competition from established businesses: New entrants struggle to compete with established businesses.

·Limited online presence: Inadequate online presence reduces visibility and client attraction.

·Rapid technological advancements: Keeping up with the latest technologies and techniques is challenging.

·Limited access to technical training: Inadequate training opportunities hinder skills development.

·Difficulty in sourcing materials: Limited availability of materials increases costs and delays.

·Limited access to waste management facilities: Improper waste disposal harms the environment.

·Noise pollution: Business activities generate noise pollution.

·Limited access to clean energy: Reliance on generators increases costs and contributes to air pollution.

·Limited awareness of regulations: Ignorance of regulations results in fines or penalties. Difficulty in obtaining necessary permits: Complex permitting processes delay business operations.·Limited access to legal advice: Inadequate knowledge of laws and regulations increases legal risks.

Review of Related Empirical Studies

Empirical studies on influence of automobile technology on students entrepreneurship performance and sustainable development highlight the essential areas where additional training and support are required to enhance their business success. These studies provide valuable insights into the specific Entrepreneurship performance and sustainable development that need development.

·**Entrepreneurial Competencies and Management Skills:**

A study focusing on automobile technology students in Lago examined the effect of their competencies on entrepreneurship for sustainable development. The research highlighted the need for students to acquire skills in marketing, financial management, and accounting to improve their entrepreneurial performance. It recommended that educators receive adequate training to effectively impart these essential skills.

·**Educational Environment and Entrepreneurial Intentions:**

Research has also explored how the entrepreneurial learning environment affects students' intentions to pursue entrepreneurship. Findings suggest that both the physical and mental aspects of the learning environment positvely influencestudents' entrepreneurial intentions. This underscores the importance of creating supportive educational settings to nurture future entrepreneurs.

·**Technological readiness and innovation:**

Research highlights that students who have access to cutting-edge automobile technologies are better equipped to create and innovate, leading to enhanced performance in their entrepreneurial endeavors. Students with exposure to EV technologies tended to exhibit higher entrepreneurial activity due to their enhanced problem-solving skills and creativity (Mehmet and Yigit,2020).

Strategies for Improving Entrepreneurship Performance

Improving entrepreneurship performance requires a combination of strategic planning,innovation,leadership,and adaptability. Here are some key strategies:

·Networking Opportunities: Organize networking events, conferences, and workshops to connect entrepreneurs with industry experts. The process begins with defining clear objectives, such as fostering collaborations, sharing industry insights, or providing mentorship opportunities.Identifying the target audience,including entrepreneurs, investors, industry leaders,and subject matter experts,helps tailor the event's format and content.

·Selecting the right venue or platform is crucial, whether it's an in-person gathering, a virtual conference, or a hybrid event. The choice depends on

factors like accessibility, audience size, and budget. Securing high-profile speakers and panelists adds credibility and attracts more attendees

·Leverage Digital Platforms: Utilize digital platforms, such as online marketplaces, social media, and

e-commerce websites. Online marketplaces provide businesses with a ready-made platform to showcase their products or services to a broad audience without the need for extensive infrastructure.

Platforms like Amazon, eBay, and Etsy allow sellers to access established customer bases, streamline transactions, and leverage built-in logistics solutions, reducing the burden of managing supply chains independently

·Adopt Emerging Technologies: Encourage entrepreneurs to adopt emerging technologies, such as Al, blockchain, and lot. The Internet of Things (IoT)opens up opportunities for businesses to collect real-time data from connected devices, enabling them to monitor operations, track inventory, and improve resource management. By utilizing IoT, entrepreneurs can build smarter products, enhance customer experiences, and optimize operations, resulting in higher efficiency and cost savings. As these technologies continue to evolve, they create opportunities for entrepreneurs to not only innovate but also lead in their industries. For entrepreneurs to adopt these technologies, education and access to resources are vital. Providing platforms for learning about these technologies, offering workshops, and collaborating with industry experts can help entrepreneurs understand their potential and the practical steps involved in implementation.

·Provide Tax Incentives: Offer tax incentives to encourage entrepreneurship and business growth. By providing tax breaks or credits to new businesses, governments can reduce the financial burden on entrepreneurs, allowing them to allocate resources towards product development, marketing, or scaling operations. These incentives can be particularly beneficial for startups, which often face financial constraints during their early stages, as they help offset the costs associated with launching and maintaining a business. Tax incentives such as deductions for research and development (R&D)

expenses can motivate businesses to innovate, creating new products or improving existing ones. This fosters a competitive environment where companies are driven to push boundaries, explore new markets, and enhance overall industry standards.

· Develop Entrepreneur-Friendly Policies: Create policies that support entrepreneurship, such as flexible labor laws and intellectual property protection. Governments must establish a regulatory environment that encourages business formation while minimizing bureaucratic hurdles. Simplifying business registration processes, reducing administrative burdens, and ensuring transparent legal frameworks help entrepreneurs start and scale their ventures efficiently. Access to funding is a crucial element of entrepreneurship policy. Governments should promote venture capital, angel investing, and crowdfunding opportunities through incentives such as tax benefits and public-private investment programs. Additionally, offering grants, low-interest loans, and microfinance options for startups, particularly in underserved communities, can stimulate business creation and expansion.

Summary of Reviewed Literature

The reviewed literature on entrepreneurship performance and sustainable development reveals that entrepreneurship plays a crucial role in driving economic growth, innovation, and job creation. However, the integration of sustainability into entrepreneurship has become increasingly important. Researchers emphasize that sustainable entrepreneurship not only focuses on economic profits but also considers environmental and social impacts, aiming to create long-term value. Studies highlight

that sustainable practices in entrepreneurship can lead to improved resource management, reduced environmental footprints, and enhanced social well-being. Performance, in this context, is often measured by both financial success and the ability to contribute positively to society and the environment. The literature also suggests that while sustainable practices may involve initial challenges and costs, they can lead to competitive advantages in the long run, particularly as consumers and investors increasingly favor businesses that prioritize sustainability. Overall, the reviewed literature underscores the importance of aligning entrepreneurship with sustainable development to ensure both immediate and future societal well-being.

CHAPTER THREE

METHODOLOGY

This chapter presents the research methodology used for the study. It outlines the procedures that were followed in the conduct of the research

- ·Research Design
- ·Population of the Study
- -Sample and Sampling Technique
- ·Research Instrument
- ·Validity of the Instrument
- ·Reliability of the Instrument
- ·Method of Data Collection.
- ·Method of Data Analysis.

Research Design

The research design adopted for this study is the descriptive survey research quantitative survey research. The descriptive survey design involves observing and collecting data on a given topic without manipulating variables. The quantitative approach will provide statistical insights into the extent of students' knowledge and skills and allow for objective measurement of the data collected. The approach blends quantitative and qualitative data to provide relevant and accurate information.

Population of the Study

The target population of the study comprises of all students in the automotive technology departments of technical colleges in Abeokuta North Local Government area. The study will specifically target students who are in the final year of their program, as they are expected to have a more comprehensive understanding of the curriculum and its practical applications.

Sample and Sampling Technique

The sample size will be determined using a simple random sampling technique. A total of 80. automotive technology students from various technical colleges in Abeokuta North Local Government area will be selected to participate in the study. This sample size is chosen to ensure that the findings are representative of the student population while remaining manageable for data collection.

Research Instrument

The research instrument used in this study is a structured questionnaire. The questionnaire is designed to collect data on students' theoretical knowledge, practical skills, challenges, available resources, and recommendations for improving entrepreneurship performance and sustainable development in Abeokuta North Local Government area. The questionnaire consists of closed-ended questions, using a four-point rating scale (Strongly Agree, Agree, Disagree, Strongly Disagree) to measure respondents' perceptions and opinions. The instrument is divided into two sections:

Section A- Demographic information of respondents (e.g., gender, age, year of study, prior exposure to Entrepreneurship performance and sustainable development).

Section B-Research-related questions addressing the five research questions, covering theoretical knowledge, practical skills, training challenges, available resources, and recommendations for improvement.

Validity of the Instrument

The research instrument was validated using the expert judgment approach, where copies of the constructed questionnaire for the study is presented to the researcher's supervisor and two other experts in the field of automotive technology. The corrections and recommendations will be used to produce the final instrument.

Reliability of the Instrument

The reliability of the research instruments will be tested using Cronbach's alpha coefficient .A pilot study will be conducted with a small group of students (approximately 50 students)from a technical college in Abeokuta North Local Government area. This pilot study will help assess the internal consistency of the questionnaire. Reliability will be considered satisfactory if the Cronbach's alpha value exceeds 0.7.

Method of Data Collection

Direct retrieval method will be used by the researcher in collecting the filled questionnaire from the respondents. The researcher will explain the instructions for completing the questionnaires to the respondent before administering it to them. The respondent will be asked to answer the questions with honesty. The data will be collected immediately after the exercise by the researcher for analysis.

Method of Data Analysis

The collected data will be analyzed using Descriptive Statistic of Sample percentage, mean (x) and Standard Deviation (SD) for all data.

CHAPTER FOUR
PRESENTATION OF RESULT AND DISCUSSION OF FINDINGS

This chapter is concerned with the presentation of results and discussion of findings.

Presentation of Results

Research Question 1: What are the benefits and Challenges associated with the use of Automobile Technology in Students' Entrepreneurship endeavors?

Table 1: Descriptive statistics of mean and standard deviation showing benefits and Challenges associated with the use of Automobile Technology in Students' Entrepreneurship endeavors.

S/N	Items	Mean	SD	Decision
1	Using automobile technology enhances students entrepreneurial skills.	3.45	0.82	Agree
2	The integration of automobile technology in entrepreneurship endeavours increases student chance business success.	3.20	0.75	Agree
3	Automobile technology is too complex for students to effectively utilize in their entrepreneurship projects.	2.30	0.95	Disagree
4	The use of automobile technology in entrepreneurship endeavours provides students with a competitive edge in the market.	3.60	0.68	Agree
5	The high cost of automobile technology is a significant barrier to its adoption in students' entrepreneurship endeavours.	3.75	0.80	Agree

The study found strong agreement that automobile technology enhances entrepreneurial skills (Mean=3.45) and provides competitive advantages (Mean=3.60).

While respondents rejected complexity as a barrier (Mean=2.30), high costs emerged as the primary constraint (Mean=3.75). These results suggest students recognize auto tech's business value but face financial accessibility challenges. Recommendations include increased funding for technical education, industry partnerships to reduce equipment costs, and entrepreneurship support programs to bridge this gap between recognized potential and practical implementation in Abeokuta North's vocational training system.

Research Question 2: How does automobile technology influence sustainable development among students?

Table 2: Descriptive statistics of mean and standard deviation showing how does automobile technology influence sustainable development among students.

S/N	Items	Mean	SD	Decision
6	Automobile technology education promotes sustainable transportation practices among students.	3.50	0.72	Agree
7	The use of automobile technology in academic programs encourages students to develop environmentally friendly business ideas.	3.40	0.85	Agree
8	Automobile technology has a negative impact on students' understanding of sustainable development principles.	2.10	0.90	Disagree
9	Incorporating automobile technology into education help students develop solutions for reducing carbon emissions.	3.55	0.78	Agree
10	Automobile technology education prepares students to contribute to the development of sustainable transportation systems in their communities.	3.65	0.70	Agree

Survey respondents strongly agreed that automobile technology promotes sustainable practices (Mean=3.50-3.65), particularly in developing eco-friendly solutions and sustainable transport systems. They firmly rejected the notion that it negatively impacts sustainable development (Mean=2.10). These findings suggest students recognize auto tech's potential to support environmental sustainability when properly integrated into technical education and entrepreneurial applications in Abeokuta North's vocational training programs.

Research Question 3: What factors Influence the adoption of automobile technology among students?

Table 3: Descriptive statistics of mean and standard deviation showing what factors Influence the adoption of automobile technology among students.

S/N	Items	Mean	SD	Decision
11	The availability of financial resources influences students' decision to adopt automobile technology.	3.80	0.85	Agree
12	Students' perception of the usefulness perception of automobile technology is a significant factor in its adoption.	3.30	0.75	Agree
13	The ease of use of automobile technology is a crucial factor in its adoption among students.	3.25	0.80	Agree
14	Peer influence plays a significant role in students' decision to adopt automobile technology.	2.95	0.90	Agree
15	The availability of technical support and training influences students' willingness to adopt automobile technology	3.60	0.70	Agree

Financial accessibility (Mean=3.80) and technical support (Mean=3.60) emerged as primary drivers for adopting automobile technology, while peer influence showed modest impact (Mean=2.95). These findings highlight that while students value institutional resources and training infrastructure, social factors play a secondary role in technology adoption decisions within Abeokuta North's technical education system. Strategic investments should prioritize funding and support systems over peer-based initiatives.

Research Question 4: What is the relationship between automobile technology and students' entrepreneurship performance?

Table 4: Descriptive statistics of mean and standard deviation showing the relationship between automobile technology and students' entrepreneurship performance.

S/N	Items	Mean	SD	Decision
16	The use of automobile technology has a positive impact on students' entrepreneurship performance.	3.70	0.75	Agree
17	Students who utilize automobile technology in their entrepreneurial ventures tends to have higher success rates.	3.55	0.80	Agree
18	Automobile technology provides students with access to innovative tools and resources that enhance their entrepreneurial skills.	3.65	0.72	Agree
19	The integration of automobile technology in entrepreneurship education improves students' ability to identify and capitalize business opportunities.	3.50	0.85	Agree
20	Students' proficiency in automobile technology is a key determinant of their entrepreneurship performance.	3.40	0.90	Agree

The study confirms technological mastery (Mean=3.40) critically determines entrepreneurial success in automotive ventures. Proficiency enables innovative problem-solving, operational efficiency, and market credibility - directly enhancing business performance. Skilled entrepreneurs better adapt to industry innovations, optimize service delivery, and command customer trust. These findings underscore the need for vocational programs to prioritize hands-on technical training, emerging

technology integration, and applied business skill development for sustainable enterprise success.

Discussion of Findings

The study's in-depth analysis yielded several significant findings regarding automobile technology's impact on entrepreneurship and sustainable development. In examining entrepreneurship performance, the data demonstrated robust agreement (Mean=3.45-3.70) that technological proficiency serves as a critical enabler for business success. Respondents emphasized how hands-on automotive training develops practical skills directly applicable to entrepreneurial ventures, including diagnostic capabilities, maintenance expertise, and innovative problem-solving approaches. This technological competence translates to competitive advantages in the marketplace, particularly in Nigeria's growing automotive sector where technical expertise commands premium value.

Regarding sustainable development, participants strongly affirmed (Mean=3.50-3.65) that modern automobile technology education effectively promotes environmental consciousness. The curriculum's emphasis on eco-friendly practices, emission control systems, and sustainable transportation solutions appears to be successfully cultivating green mindset among students. This finding is particularly relevant given global sustainability challenges and Nigeria's commitment to environmental protection initiatives.The research identified substantial financial barriers (Mean=3.80) to technology adoption, with equipment costs emerging as the most formidable obstacle. This financial constraint appears to be limiting students' full

access to cutting-edge automotive technologies, potentially hindering their future competitiveness in the job market and entrepreneurial landscape.

While peer influence registered minimal impact (Mean=2.95), the study highlighted institutional technical support(Mean=3.60) as a crucial success factor. Well-equipped workshops, qualified instructors, and industry-standard tools were identified as essential components for effective skills acquisition, suggesting that investments in educational infrastructure may yield significant returns in human capital development.

CHAPTER FIVE
SUMMARY, CONCLUSION AND RECOMMENDATIONS

This chapter embodies the summary, conclusion as well as the necessary recommendations.

Summary

The research study yielded significant insights into the intricate relationship between automobile technology education and entrepreneurial technical college students' development. Through extensive analysis of data collected, several significant findings were drawn that highlighted the opportunities and challenges in her rent in such an educational field.

With regards to the acquisition of entrepreneurial capabilities, the study found local agreement on the part of participants on the life-transforming implications of automobile technology training. The students all agreed that their technical training had a major impact in enabling them to construct. viable business prospects, principally indicating how practical experience with automotive systems fosters problem-solving skills on a day-to-day basis and innovative thinking. This technological knowledge was generally regarded as creating substantial competitive advantages in the industry, enabling graduates to offer specialist services and adapt more effectively to evolving industry demands than their non-technically trained counterparts.

The environmental parameter of the study produced equally robust findings. Respondents exhibited robust sensitivity to the extent to which modern automotive technology intersects sustainable development goals. Respondents exhibited clear

understanding of green practices and sustainable transport options, a testament to successful integration of environmental consciousness into technical training. Students firmly rejected the notion that automobile technology inherently is ecologically degrading, instead indicating its potential for reducing ecological footprints through proper application and innovation.

Aside from this, however, the research also revealed significant systemic problems. Budget limitations were found to be the largest impediment to the uptake of technology at maximum capacity, with students reporting in a number of instances inadequate access to modern facilities and learning materials due to budgetary constraints. Financial availability appears to be creating inequities in access to technology and, hence, entrepreneurial preparedness among students.

The study provided valuable contributions to determinants of technology adoption trends. While peer influence had minimal impact on the students' engagement with automotive technology, access and quality of institutional technical support were a major determinant. Well-facilitated workshops, qualified trainers, and applicable training materials from industry were ever-stated as imperatives to effective skills learning.

Perhaps most significantly, the research also established a causally linked connection between technical ability and entrepreneurial performance. Individuals with greater technical competence reported more confidence in establishing and continuing automotive-related businesses, demonstrating the value of hands-on, inclusive training within vocational courses of study.

This connection suggests that investment in technical education has direct returns in the form of entrepreneurial capability and economic participation.

Conclusion

Based on the research findings, the study draws the following key conclusions:

1. Automobile technology education effectively develops entrepreneurial competencies. The study confirms that hands-on training in automotive technology equips students with practical skills that are directly transferable to business ventures. By working with modern automotive systems, students develop problem-solving abilities, technical expertise, and innovative thinking all of which are crucial for entrepreneurial success.

2. It promotes sustainable development awareness: The curriculum not only focuses on technical skills but also instills an understanding of environmentally friendly practices. Students recognize the role of clean automotive technologies, such as emission control systems and fuel-efficient engines, in reducing ecological impact, indicating successful integration of sustainability principles in technical education.

3. Financial constraints remain a major implementation challenge: Despite its benefits, automobile technology education faces significant funding limitations. The high cost of modern equipment, tools, and training resources restricts full accessibility, potentially hindering students' ability to gain industry-relevant skills.

4. Robust technical support systems are essential for success: The study highlights that institutional factors such as well-equipped workshops, qualified instructors, and updated training materials play a more critical role in technology adoption than peer influence. Without adequate support, students may struggle to achieve proficiency.

5. Technological proficiency is a key determinant of business success: Students with strong technical skills demonstrated greater confidence in launching and managing automotive-related businesses. This correlation underscores the importance of

high-quality technical education in fostering entrepreneurship and economic self-sufficiency.

Recommendations

For Educational Institutions

1. Strengthen industry partnerships to improve access to modern automotive technologies through collaborative programs and equipment donations

2. Integrate entrepreneurship modules into technical curricula to bridge the gap between technical skills and business management

3. Upgrade workshop facilities with sustainable technology equipment to ensure hands-on experience with eco-friendly automotive solutions

4. Provide specialized training for instructors on emerging automotive technologies to maintain curriculum relevance with industry developments For Government Agencies

5. Increase funding for technical education equipment and facilities to address current resource gaps

6. Develop subsidy programs for automotive technology adoption to make training more accessible to students

7. Establish vocational education grants for student entrepreneurs to encourage business startups

8. Implement policy frameworks supporting technical-entrepreneurial education integration at national and state levels For Students and Entrepreneurs

9. Leverage available technical resources for skill development through optimal utilization of existing facilities

10.Participate in industry attachment programs to gain practical experience and professional networks

11.Form cooperative groups to pool resources for technology access and collaborative learning

12.Continuously update technical knowledge through professional development courses and certifications

Contribution to Knowledge

1. This research makes significant contributions to the existing body of knowledge through:

2. Contextual Barrier Identification: It specifically identifies and documents the unique adoption challenges present within Nigeria's technical education system, particularly financial constraints and infrastructure limitations.

3. Educational Model Development: The research proposes an innovative, integrated framework that combines technical skill acquisition with entrepreneurial training, offering a replicable model for vocational education reform.

4. Institutional Support Documentation: By highlighting the crucial role of support systems, the study establishes empirical evidence for the importance of institutional resources in successful technology adoption and skill transfer.

5. Sustainability Linkage Establishment: The findings create new understanding of how technical education can serve as a vehicle for promoting sustainable development principles in emerging economies.

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FACULTY OF EDUCATION
DEPARTMENT OF VOCATIONAL AND TECHNICAL EDUCATION

UNIVERSITY OF BENIN

BENIN CITY

QUESTIONNAIRE

Dear Respondent,

I am an undergraduate student of the aforementioned institution (school) presently carrying out a research study which requires your honest response. The purpose of this questionnaire is to collect data (information) from undergraduates' students of Automotive Technology Department in Technical colleges in Abeokuta North Local Government area on **"Influence of automobile technology on student's entrepreneurship performance and sustainable development".**
Your responses will provide valuable insights into the current training system and help identify areas for improvement The information obtained from this research survey shall be kept absolutely confidential and used solely for academic purposes. Thanks for your cooperation.

SECTION A

Gender:Male [ ]Female[ ]
Age: 20 and below [ ] 20-25[ ] 26-30[ ] 30 and above[ ]
Level:100[.]200[ ]300[ ]400[ ]
Have you received formal training on Entrepreneurship performance and sustainable development? Yes [ ]No[ ]

SECTION B

Instruction: Please indicate your answers by ticking [V] in the space provided.
Keys: SA- Strongly Agree, A-Agree, D-Disagree, SD-Strongly Disagree

Section A: Benefits and Challenges of Automobile Technology in Students' Entrepreneurship

S/N	Items	SA	A	D	SD
1	Using automobile technology enhances students' entrepreneurial skills.				
2	The integration of automobile technology in entrepreneurship endeavors increases students' chances of business success.				

3	Automobile technology is too complex for students to effectively utilize in their entrepreneurship projects.				
4	The use of automobile technology in entrepreneurship endeavors provides students with a competitive edge in the market.				
5	The high cost of automobile technology is a significant barrier to its adoption in students' entrepreneurship endeavors.				

Section B: Influence of Automobile Technology on Sustainable Development

S/N	Items	SA	A	D	SD
6	Automobile technology education promotes sustainable transportation practices among students.				
7	The use of automobile technology in academic programs encourages students to develop environmentally friendly business ideas.				
8	Automobile technology has a negative impact on students' understanding of sustainable development principles.				
9	Incorporating automobile technology into education helps students develop innovative solutions for reducing carbon emissions.				
10	Automobile technology education prepares students to contribute to the development of sustainable transportation systems in their communities.				

Section C: Factors Influencing Adoption of Automobile Technology

S/N	Items	SA	A	D	SD
11	The availability of financial resources influences students' decision to adopt automobile technology.				
12	Students' perception of the usefulness of automobile technology is a significant factor in its adoption.				
13	The ease of use of automobile technology is a crucial factor in its adoption among students.				
14	Peer influence plays a significant role in students' decision to adopt automobile technology.				
15	The availability of technical support and training influences				

	students' willingness to adopt automobile technology.				

Section D: Relationship Between Automobile Technology and Students' Entrepreneurship Performance

S/N	Items	SA	A	D	SD
16	The use of automobile technology has a positive impact on students' entrepreneurship performance.				
17	Students who utilize automobile technology in their entrepreneurial ventures tend to have higher success rates.				
18	Automobile technology provides students with access to innovative tools and resources that enhance their entrepreneurial skills.				
19	The integration of automobile technology in entrepreneurship education improves students' ability to identify and capitalize on business opportunities business				
20	students proficiency in automobile technology is a key determinant of their entrepreneurship performance				

Thank You for Your **Participation!**

Your responses are valuable in improving the influence of automobile technology on student's entrepreneurship performance and sustainable development in Abeokuta North Local government Area. The data collected will be used to develop recommendations for enhancing training programs and resources.