

RECYCLING BUSINESSES ACROSS DELTA STATE REPORT

A GEO-MAPPED OVERVIEW

+44-729-27385255, +234-803-2959146

hello@petgrave.io

Victoria Building, Teesside University, Middlesbrough, England

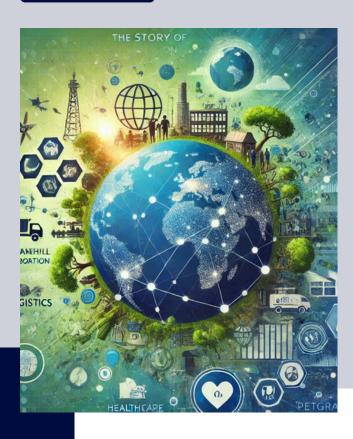
Prepared By:

Oyewale Daniel Oyewola

oyewaledanieloyewola@gmail.com

ABOUT US





At Petgrave.io, we believe that data is more than just numbers—it's the key to unlocking sustainable, socio-economic impact. We specialize in empowering organisations across various industries to harness the power of data and make meaningful change.

With a strong commitment to innovation, collaboration, and sustainability, we tailor advanced data solutions that solve real-world challenges. Whether it's through cutting-edge digital products or business intelligence strategies, we aim to drive positive change that benefits both businesses and the communities they serve.

WHAT WE DO

Our Vision

We envision a world where industry leaders and innovators use data to drive sustainable socio-economic impact.

We see data as a tool not just for solving problems, but for shaping a future where business success and positive global impact go hand in hand.

At Petgrave.io, we're committed to making this vision a reality, using data-driven strategies to help our clients thrive in a rapidly changing world.

Our Mission

Our mission is simple yet powerful: to empower organizations to harness the power of data for creating innovative, sustainable, and impactful business solutions. We don't just deliver data with purpose.

Our Core Values

- Innovation: We embrace creative thinking to solve our clients' most pressing challenges.
- Sustainability: We are committed to using data to foster long-term growth that benefits both businesses and society.
- Collaboration: We believe that the best solutions come from working together, leveraging diverse perspectives and expertise.





INTRODUCTION

The recycling industry in Delta State is vital for sustainable waste management and environmental conservation. This report explores the distribution and focus of recycling businesses across the state, with a focus on their operations, material types handled, and opportunities for improvement.

Project Objectives

- To identify the geographic distribution of recycling businesses in Delta State.
- To analyze the types of materials recycled.
- To provide actionable recommendations to improve the recycling sector



METHODOLOGY

Data Collection

Data was collected using web scraping techniques to identify recycling businesses in Delta State. This approach gathered a list of businesses along with details on materials recycled.

Data Cleaning

The scraped data was cleaned by removing non-recycling businesses. Any business without materials listed was excluded from the dataset. The cleaned data was then saved in JSON format for analysis.

Data Visualization

The JSON data was imported into Power BI for further processing. The data was transformed using Power Query, and visualizations were created using a map, bar chart, pie chart, and a smart narrative summary.





SMART NARRATIVE OF THE DASHBOARD

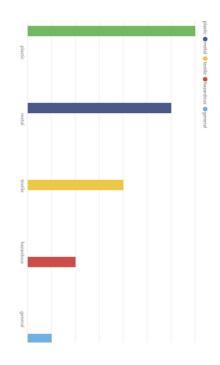
This Power BI visualization showcases the geographical distribution of recycling businesses in Delta State, Nigeria, and highlights the types of materials handled by these businesses. The data includes two main components: Geo-Mapped Distribution and Material count analysis.

Visual Results

The **bar chart** categorizes materials handled by the recycling businesses:

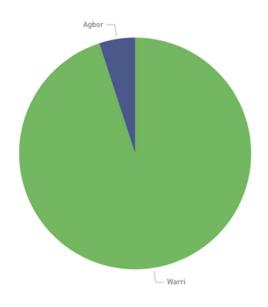
- Plastic and Metal are the most commonly recycled materials.
- Textiles, hazardous materials, and general waste are less represented, showing lower focus on these categories.

Insight: The recycling industry in Delta State predominantly focuses on plastic and metal, indicating potential gaps or underdeveloped markets for other material types



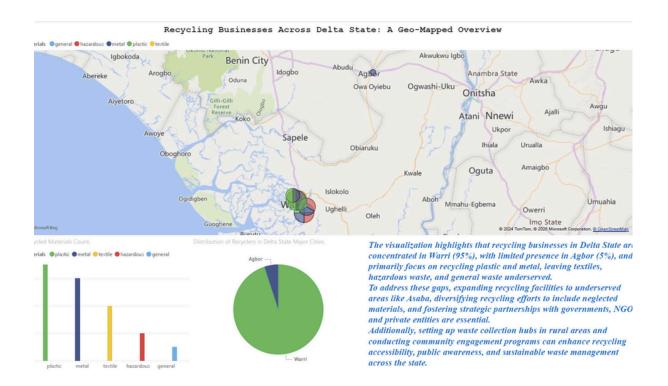
The **pie chart** shows that 95% of the recycling businesses are concentrated in Warri, while Agbor accounts for only 5%.

Insight: Recycling activities are centralized in Warri, with limited geographic spread, which might pose challenges for waste management accessibility in other areas.





THE DASHBOARD



BUSINESS QUESTIONS ANSWERED

1. Where are the recycling businesses located in Delta State?

• Warri (95%) and Agbor (5%).

2. What materials are recycled by these businesses?

 Mainly plastic and metal, with minimal focus on textiles, hazardous waste, and general waste.

3. Are there underserved areas and materials in the recycling sector?

 Yes, areas like Asaba and categories such as textiles and hazardous waste need more attention.

RECOMMENDATIONS

- Expand recycling facilities to underserved areas.
- Diversify recycling efforts to include textiles, hazardous waste, and general waste.
- 3. Foster strategic partnerships with governments, NGOs, and private entities to boost recycling activities.
- Set up waste collection hubs in rural areas and conduct community engagement programs to enhance awareness and accessibility.
- 5. Feedback from residents in Asaba indicates the presence of recycling businesses in the city. This highlights the need for a more comprehensive and extensive data collection initiative to identify and map all recycling businesses across Delta State