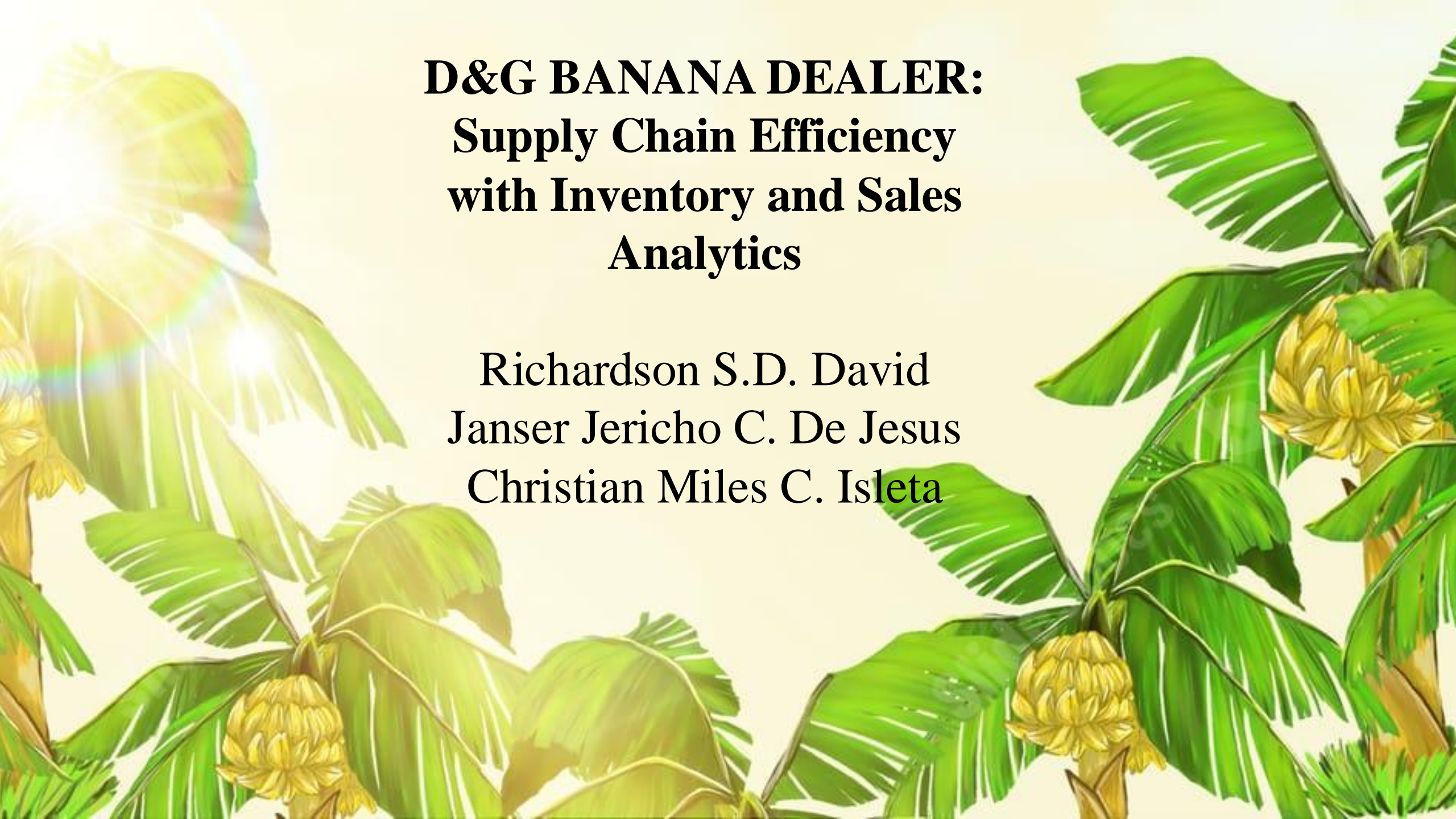D&G

D&G BANANA DEALER:
Supply Chain Efficiency with Inventory and Sales Analytics

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Problem of the company:

D&G Banana Dealer faced significant challenges in this regard. The company struggled with managing perishable inventory, tracking sales across multiple locations, and making data-driven purchase decisions that aligned with fluctuating market demand. These challenges contributed to spoilage, inefficiencies, and ultimately, financial losses.

The Goal:

1. Provide Optimized Purchase Recommendations

2. Track Sales Efficiently

3.Monitor Waste and Improve Inventory Management.

4.Integrate Import Management.
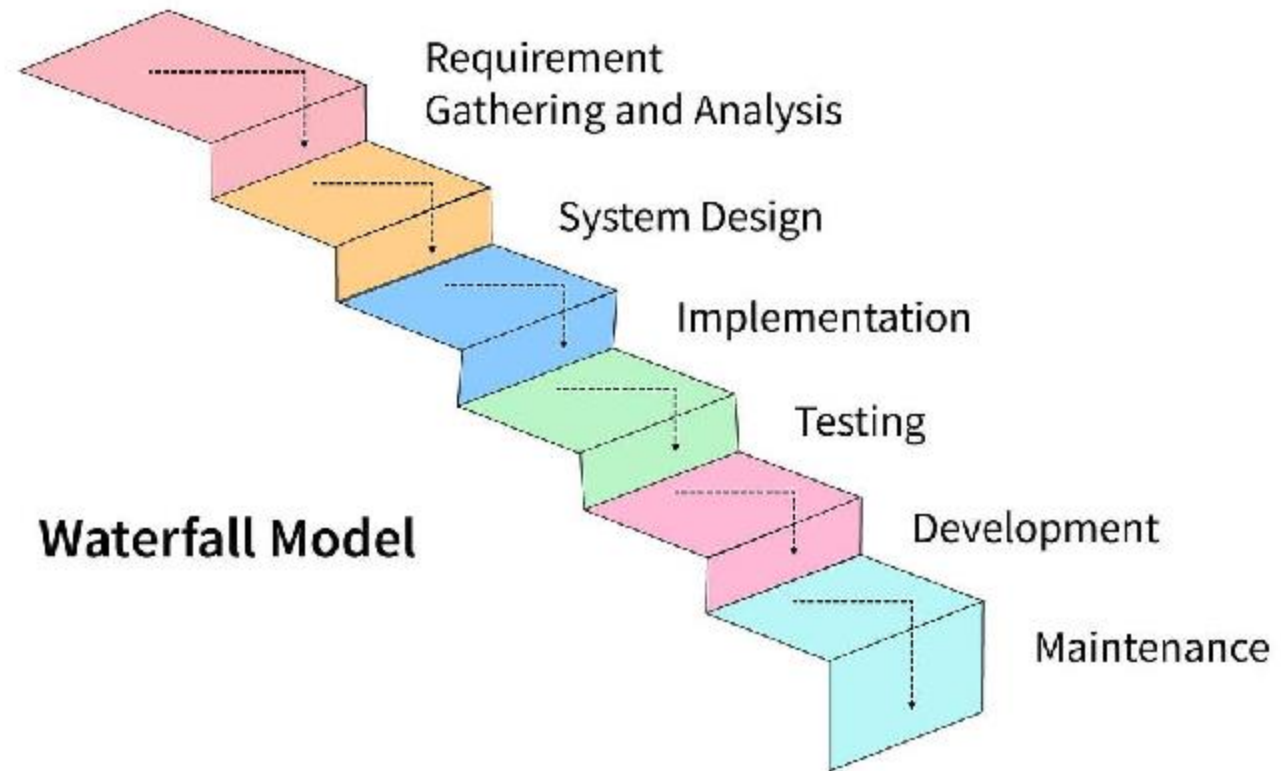
The Beneficiaries

D&G Banana Dealer

Supplier

Tricycle Operator

Researchers

Methodology

Research Instrument:

ISO/IEC 25010 is used by the researchers as their research instrument.

ISO/IEC 25010 is a software quality standard that provides consistent.

Factors	Description
Functionality	Measures how well the system performs the intended tasks.
Usability	Assesses the ease with which users can learn and use the system.
Performance	Evaluates system speed, responsiveness, and efficiency.
Maintainability	Measures how easy it is to update and maintain the system.
Security	Assesses the system's ability to protect data from unauthorized access.

Key Findings

Items	Mean	Descriptive Interpretation
A. Functionality		
• **Suitability**. Can the system perform the tasks required?	3.70	Good
• **Accurateness**. Is the result as expected?	3.60	Good
• **Security**. Does the system prevent unauthorized access?	3.60	Good
Total Mean	**3.63**	**Good**

CONCLUSION

The newly developed web-based inventory management system for D&G Banana Dealer greatly enhanced the company's supply chain efficiency. By incorporating real-time tracking, optimized purchase recommendations, and robust functionality, the system successfully reduced waste, improved sales tracking, and boosted overall profitability. The phased implementation allowed for a seamless transition with minimal disruption to business operations, and the positive feedback from respondents highlights the system's effectiveness and reliability.