

- Why data is crucial in modern business:
 - o Facilitates strategic decision-making
 - o Enhances efficiency and competitiveness
 - o Enables customer personalization

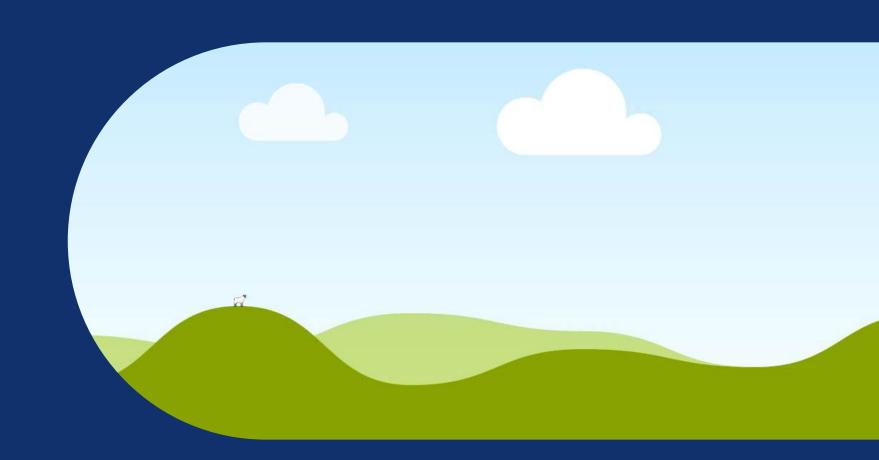
INTRODUC TION

- Overview of topics covered:
- Understanding data and information
- Data generation and manipulation tools
- The impact of data on business success
- Human- and machine-generated data





- Definition: Raw facts and figures collected from various sources.
- Examples:
 - Sales transactions
 - Customer demographics
 - Website traffic data





WHAT IS INFORMATION IN BUSINESS?

- Definition: Processed, structured, and analyzed data providing meaningful insights.
- Example: Analyzing sales trends over time to improve forecasting.



TYPES OF DATA USED IN BUSINESS

- Transactional Data: Purchase records, invoices, receipts.
- Customer Data: Contact details, preferences, feedback.
- Marketing Data: Campaign performance, conversion rates.
- Social Media & Web Analytics Data: Engagement metrics, website visitor behavior.
- Financial Data: Revenue reports, expense tracking, profit margins.

DATA AND INFORMATION SUPPORTING BUSINESS PROCESSES



- Helps businesses make informed decisions
- Enhances customer satisfaction through tailored experiences
- Boosts revenue and profitability
- Aids in problem-solving with data-driven insights
- Optimizes business processes for efficyienc

HOW DATA SUPPORTS DECISION-MAKING



- Real-time analytics: Immediate access to key business metrics.
- Predictive modeling: Forecasting trends and potential risks.
- Data-driven strategy planning: Using data to guide business growth.

HOW DATA IMPROVES CUSTOMER SATISFACTION

- Personalized marketing campaigns
- Understanding customer behavior
- Enhancing support services based on customer needs

HOW DATA INCREASES REVENUE AND PROFITS





HOW DATA HELPS WITH PROBLEM-SOLVING

ROOT CAUSE ANALYSIS FOR BUSINESS CHALLENGES

PROCESS IMPROVEMENT
THROUGH DATA INSIGHTS

HOW DATA IMPROVES BUSINESS PROCESSES



- Automation of workflows
- Continuous performance monitoring

HOW DATA IS GENERATED



- Transactional records from business operations
- Customer interactions via online and offline channels
- Marketing campaigns generating engagement data
- Web analytics tracking user behavior

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USAGE OF DATA IN BUSINESS

- Decision-making based on factual insights
- Targeted marketing and customer engagement
- Risk management through predictive analytics
- Performance monitoring for operational efficiency



TOOLS FOR DATA PROCESSING

- Microsoft Excel: Data entry, analysis, and visualization.
- SQL: Database management and querying.
- Power BI: Interactive business intelligence reporting.
- Tableau: Advanced data visualization and insights.



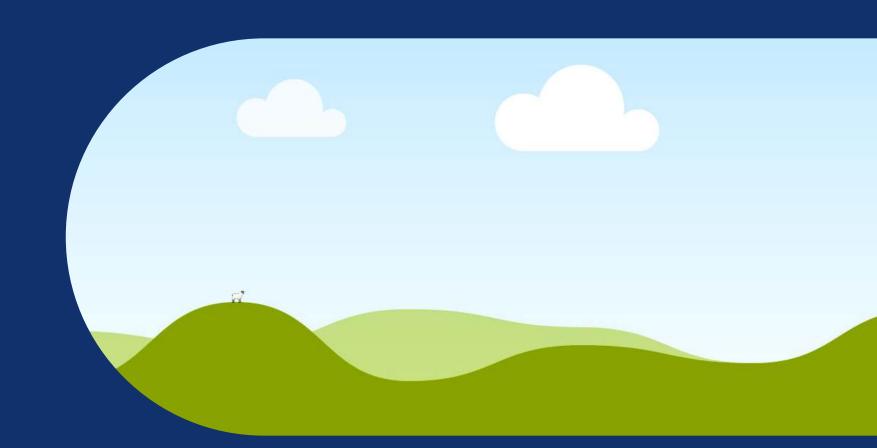
TOOLS USED IN THE PROJECT

- Specific tools implemented for data analysis and visualization
- Examples of usage in business scenarios

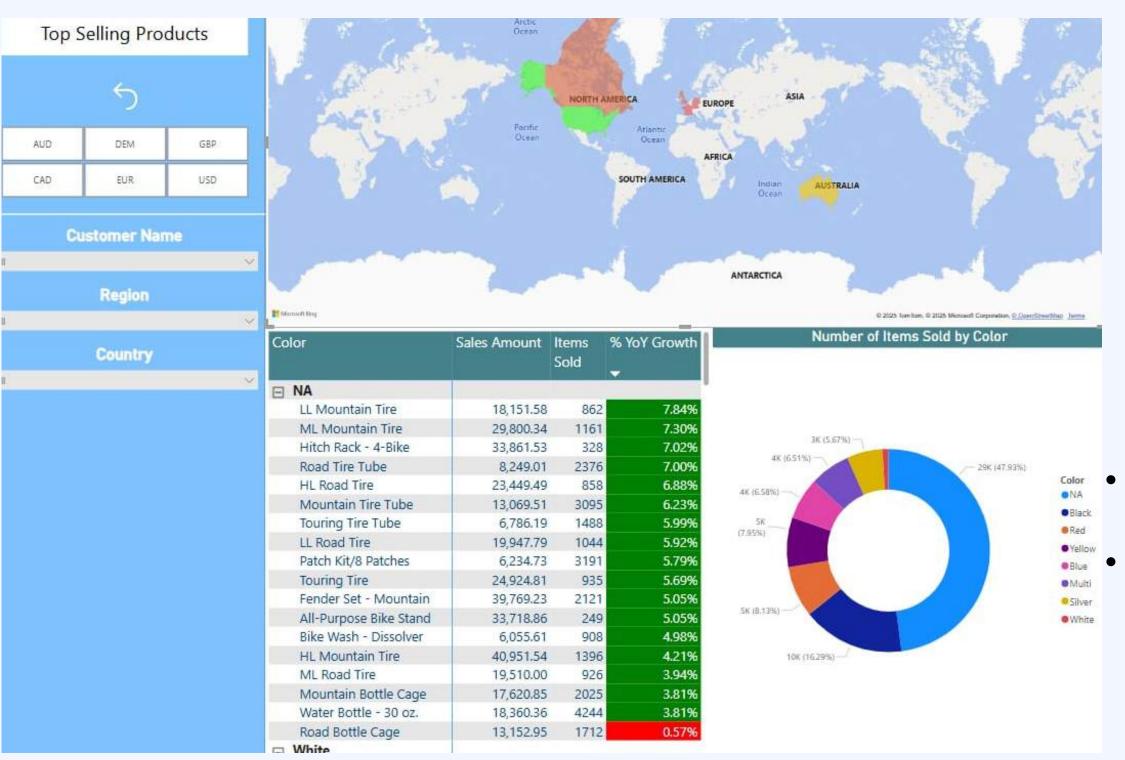


DATA VISUALIZATION IN POWER RI

- Overview of Power BI capabilities
- Benefits of using Power BI for data analytics

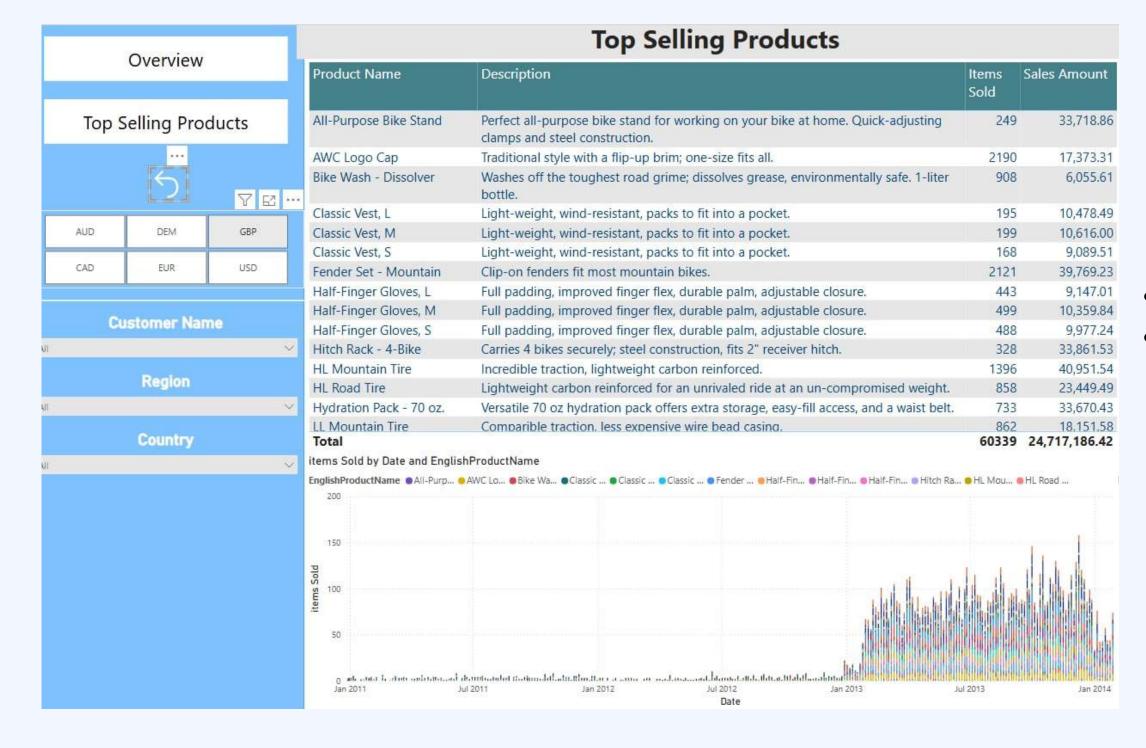


DASHBOARD 1



- Visual representation of sales metrics
- Key insights derived from the dashboard

DASHBOARD 2



- Visual representation of sales metrics
- Key insights derived from the dashboard

ASSESSMENT ON THE IMPACT AND VALUE OF DATA

- How data influenced previous client projects
- Real-world examples of business process improvements



HUMAN- AND MACHINE-GENERATED DATA



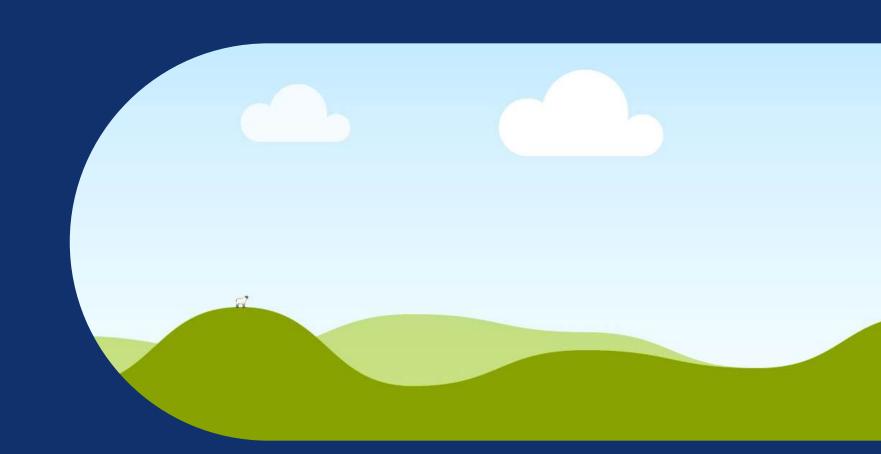
- Definition & comparison
 - Human-generated: Surveys, manual data entry.
 - Machine-generated: IoT sensors, Algenerated logs.
- Examples from real-world business applications

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HUMAN-GENERATED DATA MECHANISMS

- Methods for collecting human-generated data:
- Surveys and feedback forms
- Customer reviews and testimonials
- Employee reports and manual data entries



MACHINE-GENERATED DATA MECHANISMS

- Automated data sources:
- IoT sensors monitoring environmental conditions
- Al-driven data collection and analysis
- System logs from enterprise software





TOOLS FOR HUMAN- AND MACHINE-GENERATED DATA

- Excel & Google Sheets: Manual data entry and processing.
- Apache Kafka: Real-time data streaming and processing.



WHY THESE MECHANISMS AND TOOLS ARE ESSENTIAL

- Ensuring accurate data collection for analysis
- Enabling businesses to extract meaningful insights
- Improving decision-making efficiency

EXAMPLES OF DATA-DRIVEN DECISION MAKING



- Predictive maintenance using IoTgenerated data
- Targeted marketing campaigns using customer segmentation

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CASE STUDY USING DATA TO OPTIMIZE BUSINESS PROCESSES

Real-life example of how data improved operational efficiency

CHALLENGES IN DATA UTILIZATION

- Data security and privacy concerns
- Issues with integrating and managing data silos

FUTURE TRENDS IN BUSINESS DATA USAGE

- The role of Al and machine learning in business intelligence
- Growth and adoption of big data and cloud analytics

SUMMAR

- The importance of data-driven decision-making
- How businesses gain a competitive edge through effective data management



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THANK YOU

FOR YOUR ATTENTION

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