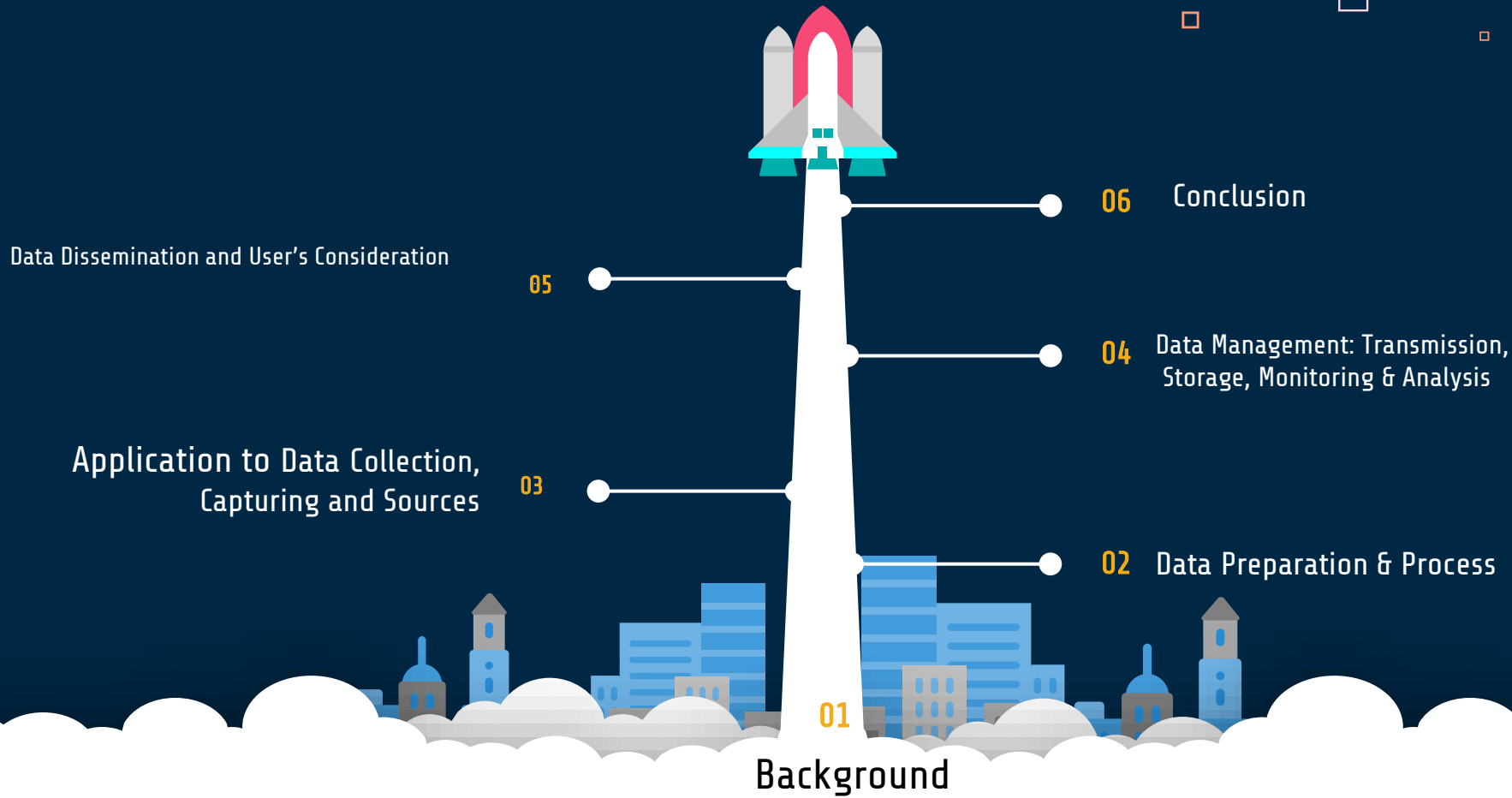
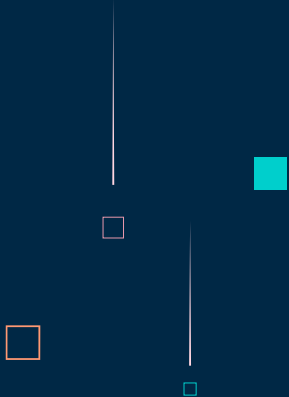


The background is a dark blue gradient. It is decorated with various geometric elements: thin white vertical lines of varying lengths, small squares in teal, orange, and pink, and larger squares in teal and orange. Some of these shapes are solid, while others are outlines. The overall aesthetic is modern and tech-oriented.

DATA ANALYSIS AND PROCESSING



Data Analysis



Levels and Types of Analysis



Descriptive

- Simplest; present facts; summarization



Quantitative

- Measures of central tendency (Mean, Median, Mode)
- Measures of dispersion (Range, Standard deviation)
- Measures of association



Modelling, Projection and Forecasting

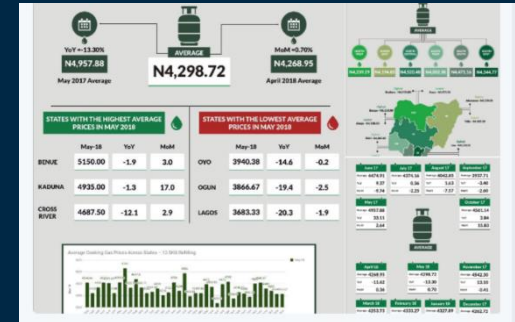
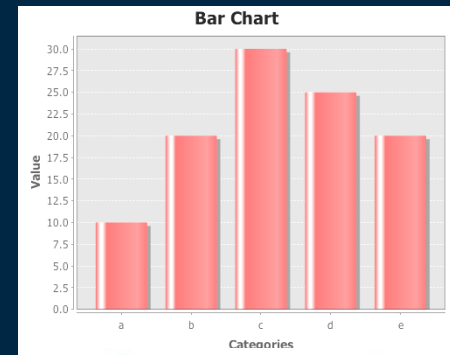
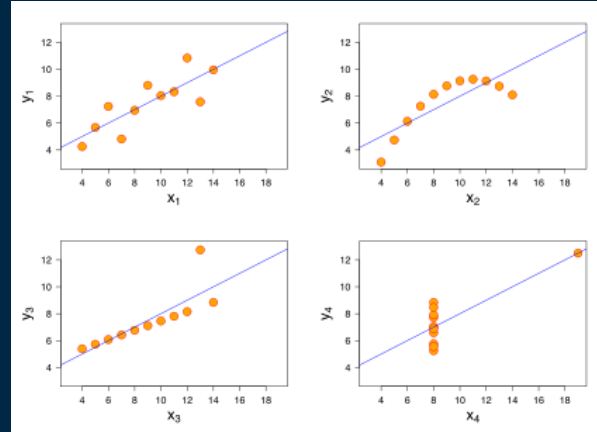
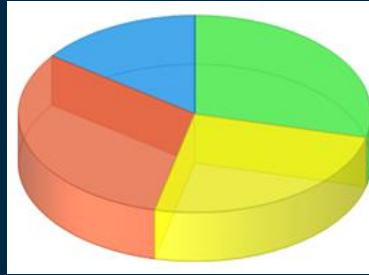


Spatial

Types:

- Table
- Line Chart
- Bar Charts
- Pie Charts
- Histograms
- Scatter plots
- Maps
- Analytics
- etc

| Age Bin | F | M |
|---------|-----|------|
| (20,30] | 900 | 600 |
| (30,40] | 300 | 100 |
| (40,50] | 600 | 900 |
| (50,60] | 500 | 1200 |



Some Software for Data Analysis

There are many Statistical Analysis Packages available today,

From simple to complex and robust analysis

SPSS, SAS, STATA, R, MATLAB, MiniTab, Statgraphics, E-view, Shazam, MS Excel etc.

ArcGIS, Geomedia, etc for Raster and Spatial Data Analysis

Technology and Data Analytics

- **Categories**

- **Descriptive Analytics – Insights into the past**

- ✓ What has happened?

- **Predictive Analytics – Insights into the future**

- ✓ What could happen?

- **Prescriptive Analytics – Advice on possible outcomes**

- ✓ What should we do?

- **Diagnostic Analytics – Root cause of events**

- ✓ Why did it happen?

The background is a dark navy blue. It is decorated with various geometric elements: small squares in teal, orange, and pink, and thin white vertical lines of varying lengths. These elements are scattered across the frame, creating a modern, minimalist aesthetic.

THANK YOU