360 BUSINESS INSIGHTS

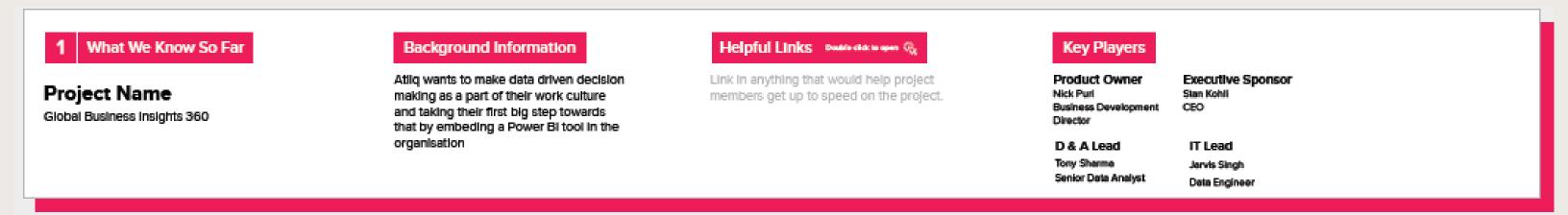
Data Analysis Project using Power Bl AtliQ Hardware Company

BY: AHMED ALI



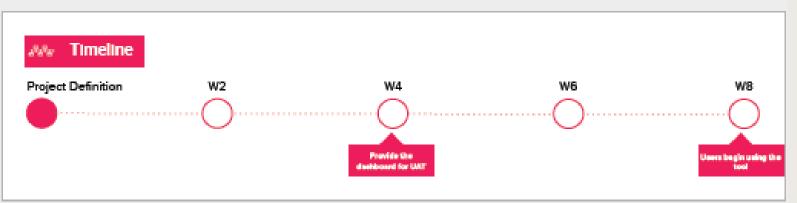
1. PROJECT PLANNING

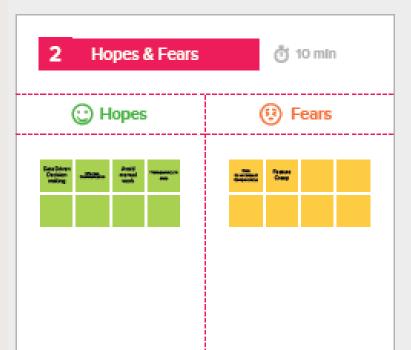
Create Project Charter to describe the whole project with Key Features like Project Goals, Timeline, Risks and Stakeholder Views.

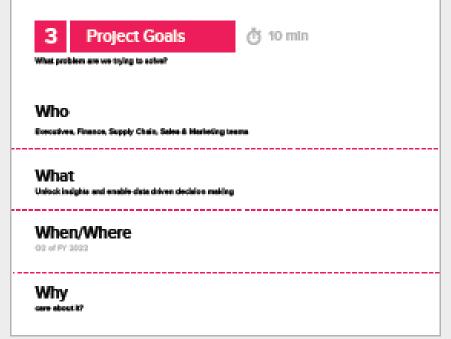


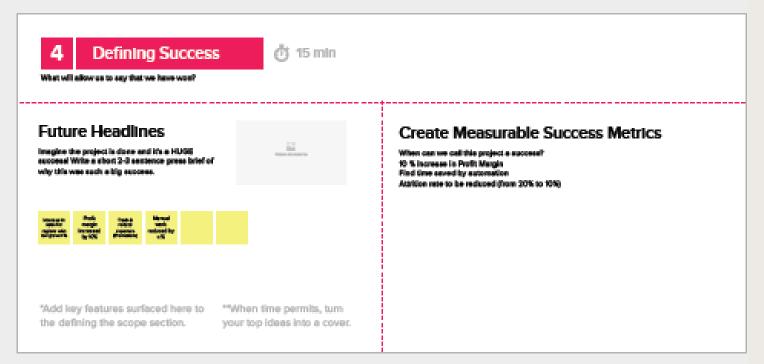












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2. IMPORT & EXPLORE ATLIQ SALES DATA

MORE THAN 1.4 MILLION OF RECORDS WAS IMPORTED.

10 FACT AND DIMENSION TABLES WERE EXPOLRED.

Import Data to MYSQL

EXPLORE DATA using SQL

IMPORT to POWER BI

Import Fact and Dimension tables into MYSQL workbench.

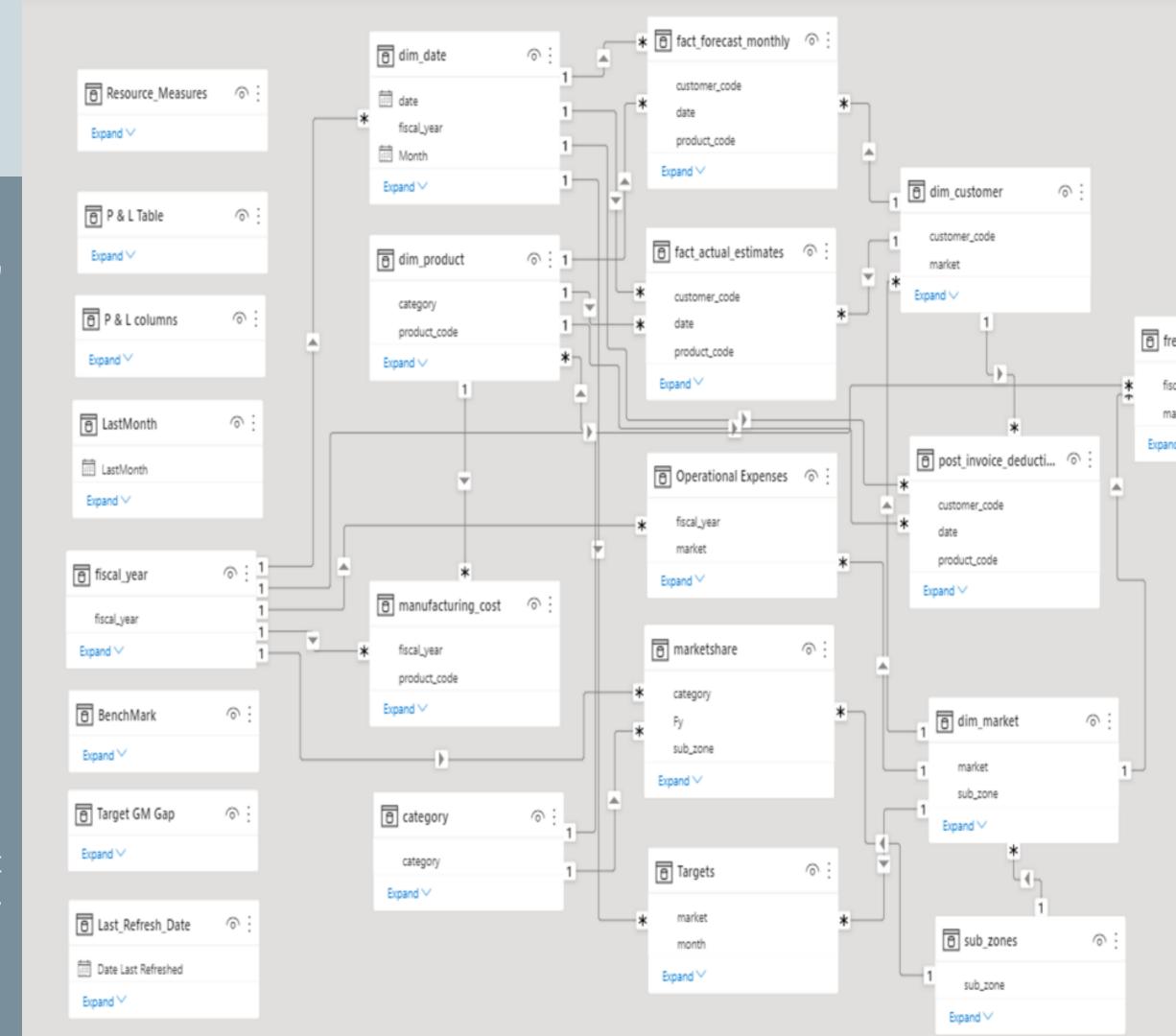
Explore different types of Tables and Columns to have a good understanding of my DATA.

Connect and Load ATLIQ Sales DATA from MYSQL Database into POWER BI.

3. DATA MODELING

After Loading DATA to Power BI, I started doing the following steps:

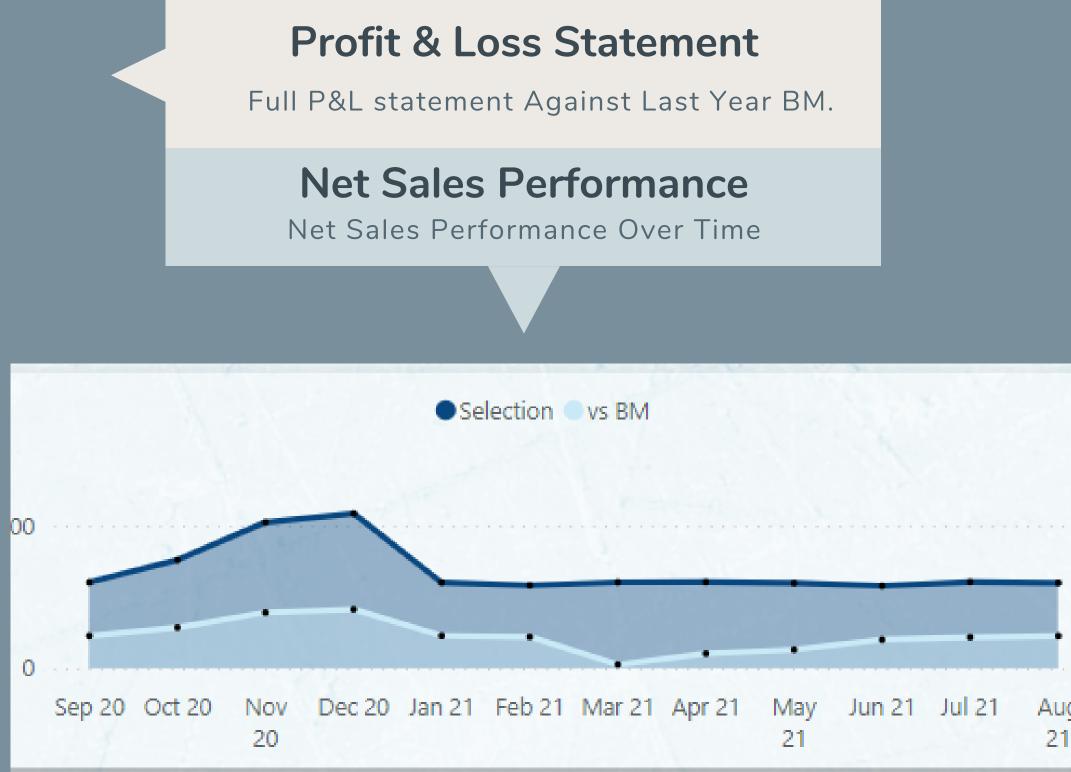
- Cleaning, Formatting and Transforming Data using Power Query.
- 2 Creating Relationships
 between tables through
 Snowflake and Starshema
 Methodology.
- Benchmarks provided by Product Owner.



4.FINANCE VIEW

Creating list of Metrics and Calculated Columns using DAX and Power Query to fulfill the Visuals according to Finance Mock-Up provided by Stakeholders.

Line Item	2021	BM	Chg	Chg %
Gross Sales	1,664.64	535.95	1,128.69	210.60
Pre Invoice Deduction	392.50	124.69	267.81	214.77
Net Invoice Sales	1,272.13	411.25	860.88	209.33
- Post Discounts	281.64	95.85	185.79	193.84
- Post Deductions	166.65	47.43	119.22	251.38
Total Post Invoice Deduction	448.29	143.27	305.01	212.89
Net Sales	823.85	267.98	555.87	207.43
- Manufacturing Cost	497.78	160.30	337.48	210.53
- Freight Cost	22.05	7.16	14.89	207.98
- Other Cost	3.39	1.10	2.29	209.52
Total COGS	523.22	168.56	354.66	210.41
Gross Margin	300.63	99.42	201.21	202.37
Gross Margin %	36.49	37.10	-0.61	-1.65
GM / Unit	5.99	4.79	1.21	25.21
Operational Expense	-355.28	-101.71	-253.57	249.30
Net Profit	-54.65	-2.29	-52.36	2,286.82
Net Profit %	-6.63	-0.85	-5.78	676.38



FINANCE VIEW KPIS

 AtliQ Net Sales has increase by 207.43% in 2021 than 2020 but Gross Margin has decreased by 1.65%.

Here are Top/Bottom Products by Net Sales. Also, you can check P&L Values Change against Last Year.

Below is the KPIs of Finance View Net Sales, Gross Margin and Net Profit Against Last Year.

Finance KPIs

seg	ment	P & L values	P & L Chg %	
+	Accessories	244.85	269.67	
+	Desktop	46.43	4,791.34	
+	Networking	45.16	72.26	
+	Notebook	266.49	208.45	
+	Peripherals	166.51	174.64	
+	Storage	54.42	97.48	
	Total	823.85	207.43	

\$823.85M~

BM: 267.98M (+207.43%)

Net Sales

36.49%!

BM: 37.10% (-1.65%)

GM %

-6.63%!

BM: -0.85% (-676.38%)

Net Profit %

5. SALES VIEW

CUSTOMER PERFORMANCE MATRIX

- In terms to measure Sales performance I have applied Top Customer Performance Categorized by Net Sales, Gross Margin and Gross Margin %.
- Also, Scatter chart having Net Sales and Gross Margin on its axis and showing market and region as the bubbles on the chart.

customer	NS \$	GM \$	GM %
Amazon	\$496.88M	182.77M	36.78%
AtliQ Exclusive	\$361.12M	166.15M	46.01%
Atliq e Store	\$304.10M	112.15M	36.88%
Flipkart	\$138.49M	58.37M	42.14%
Sage	\$127.86M	40.31M	31.53%
Leader	\$117.32M	36.02M	30.70%
Neptune	\$105.69M	49.36M	46.70%
Ebay	\$91.60M	33.06M	36.09%
Acclaimed Stores	\$73.36M	29.58M	40.32%
walmart	\$72.41M	33.06M	45.66%
Electricalslytical	\$68.05M	25.34M	37.24%

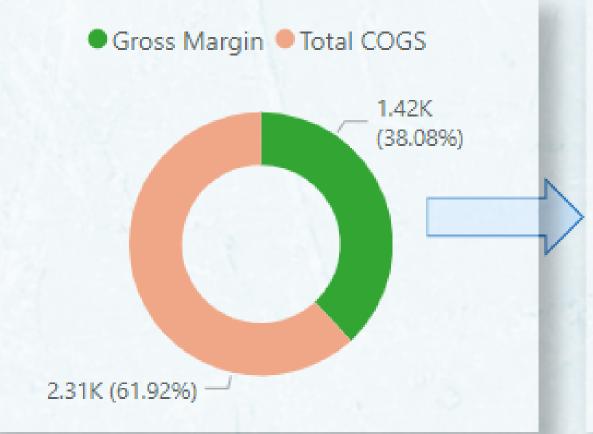


6.MARKETING VIEW

region	NS \$	GM \$	GM %	Net Profit \$	Net Profit %
± APAC	\$1,923.77M	690.21M	35.88%	-281.16M	-14.62%
⊕ EU	\$775.48M	267.80M	34.53%	-95.52M	-12.32%
	\$14.82M	5.19M	35.02%	-0.44M	-2.95%
⊕ NA	\$1,022.09M	459.68M	44.97%	-145.31M	-14.22%
Total	\$3,736.17M	1,422.88M	38.08%	-522.42M	-13.98%

Top Product Visual

Creating Top Product table alongside with product Segment and Category to present Net Sales, Gross Margin and Net Profit.





Unit Economic Donuts

Donut Visual to describe Gross Margin % = Net Sales - COGS

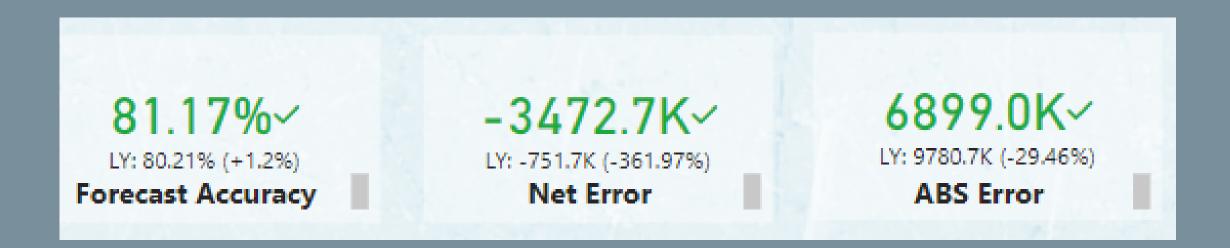
Unit Economic Stacked Column Chart

Shows the increase and decrease of Gross Margin and Net Profit after Operation expenses.

7.SUPPLY CHAIN

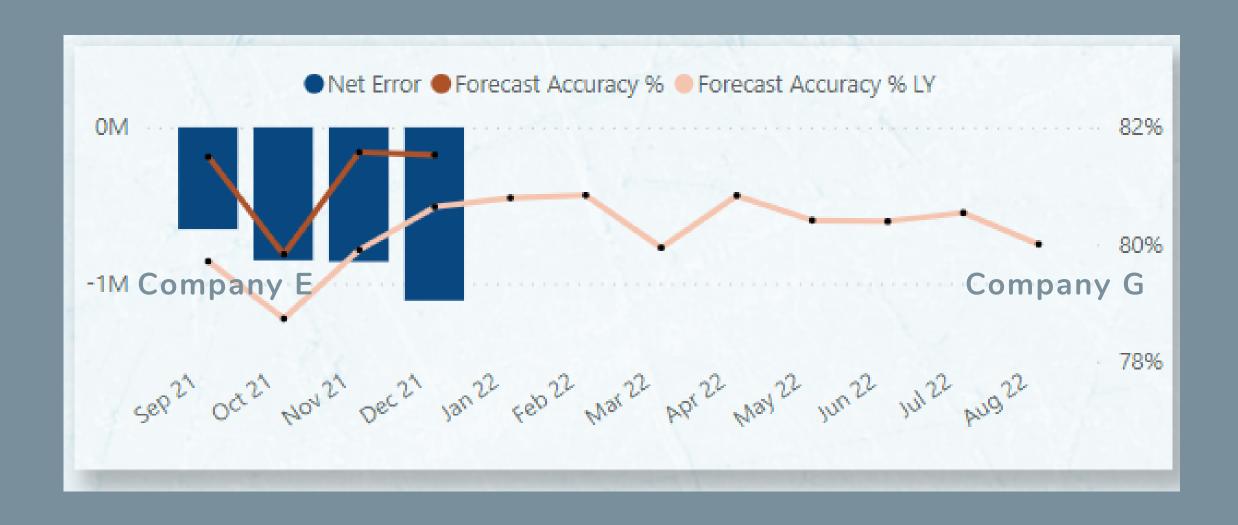
KPIS

 Building Measures from Sold and Forecast Quantity to have Net Error, Absolute Error and Forecast Accuracy



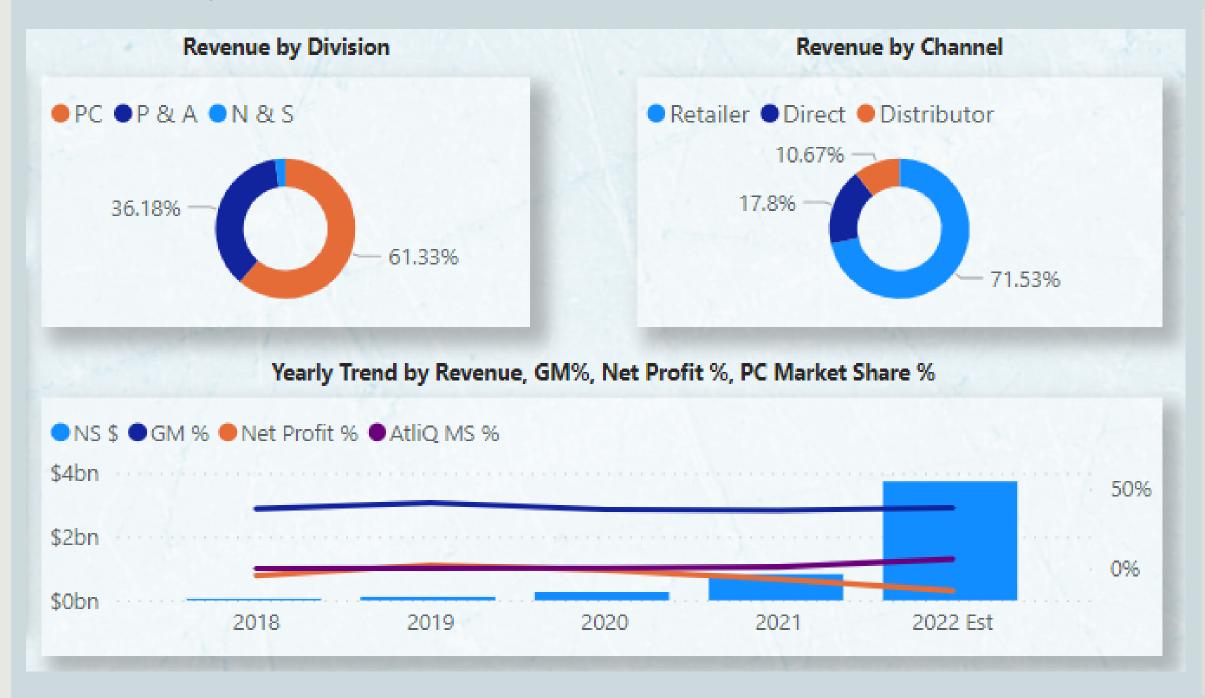
TRENDS OF SUPPLY CHAIN

 Visual Line and cluster column Chart to trend Forecast Accuracy % with Net Error over Time.



8.EXECUTIVE MANAGERS VIEW

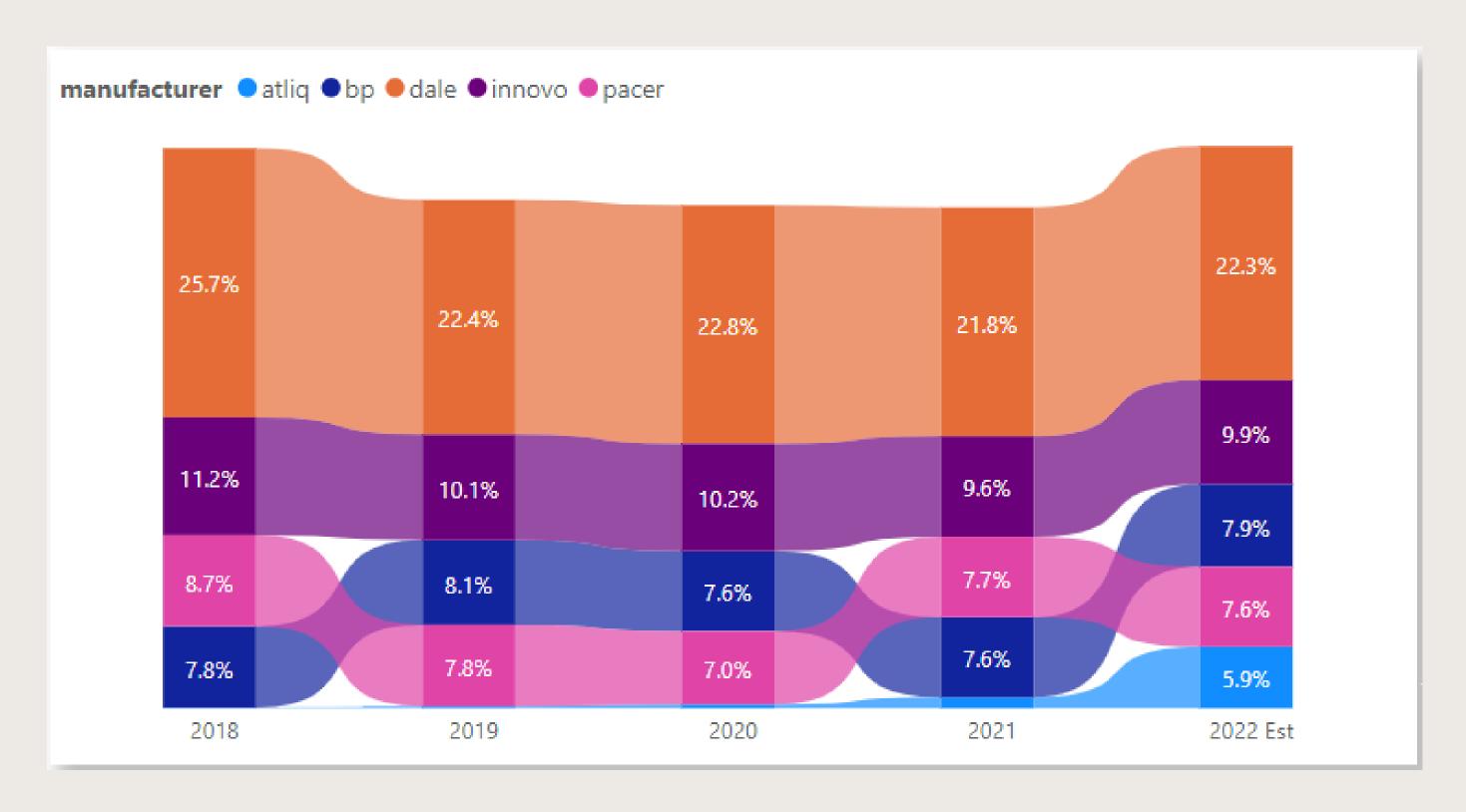
Implementing Stakeholders
Requirements into Executive View.



Create a Donut Chart to show Revenue by Divison and Channel.

Present Yearly trend over Revenue, Gross Margin, Net Profit and Market Share.

PC MARKET SHARE TREND - ATLIQ & COMPETETORS



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CONTACT ME

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You can Check out and Interact with the full Dashboard through the link: