#### TheAnalyticsTeam

# Sprocket Central Pty Ltd

Data analytics approach

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## Agenda

- 1. Introduction
- 2. Data Exploration
- 3. Model Development
- 4. Interpretation

#### Introduction

## Identifying & recommending high value customers

#### The problem

- Sprocket Central Pty Ltd sells high value bikes.
- The marketing team wants to improve the profits.
- Sprocket Central Pty Ltd has provided a new list of 1000 potential customers which of these new customers should be targeted to drive the most value for the organisation.

#### **Data insights**

Targeting high value customers based on customer demographics and attributes.

- Bikes purchases for the last 3 years by gender.
- · wealth segments by age.
- · states by number of owned cars.
- industry bike related purchase.
- Customer classifications.

#### **Data Quality Assessment**

#### **Transactions dataset:**

- Accuracy: missing values for[profit].
- Completeness: in complete values
   [customer id brand product line –
   product class product price].
- Validity: format for [list price product sold date].

#### **Customer Demographic:**

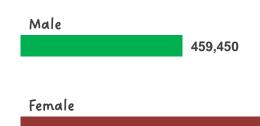
- Accuracy: [age dob].
- Completeness: [job title customer id].
- Consistency: [gender].
- Currency: [deceased customer].
- Relevancy: [default] removed.

#### **Customer Address:**

- Completeness: [customer id].
- Consistency: [states]

## **Bikes past 3 years purchases**

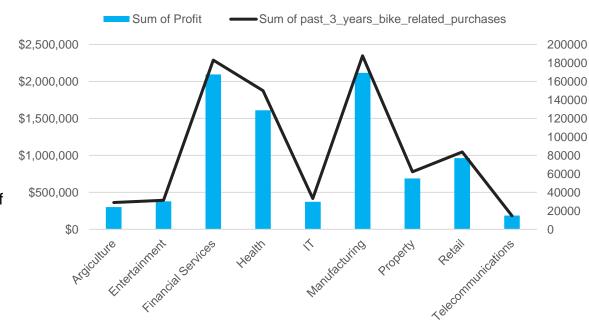
Females are higher than males by 1% for bikes purchases over the last 3 years.



469,888

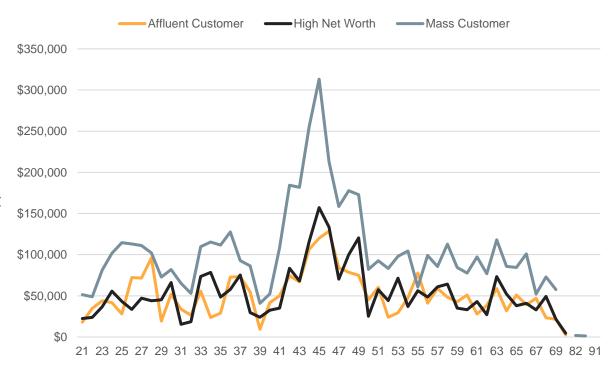
### **Industry bike related purchase**

- Only three industries has high profits.
- Most of the industries are below the average \$968,398.
- There is a direct relation between number of bikes sold and profit made.



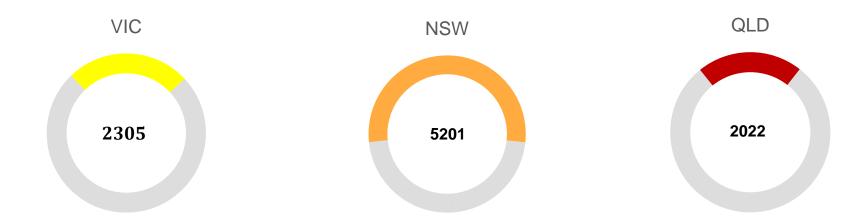
#### wealth segment by age.

- As shown the 3 peaks are from the age of 40 - 50.
- The mass customer makes the most profits for all the ages.



#### states by number of owned cars.

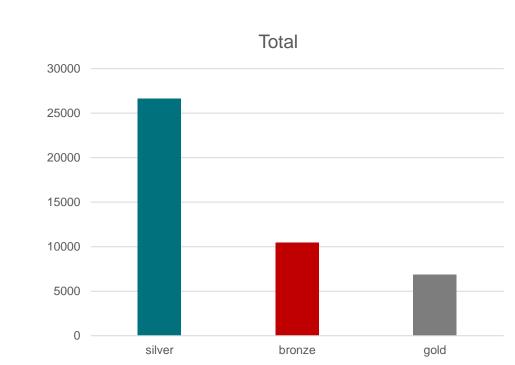
VIC & QLD 've the highest potential since they 've a small portion of the owned cars unlike NSW has the double of their number together.



#### **Model Development**

## **Customer classification - RFM analysis**

I've divided the customers based on the RFM analysis into 3 groups, most of the customers are in the silver section.



#### Interpretation

#### **Customer classification – RFM analysis**

The score is from 30 – 0. higher than 20 is gold, between 20 and 12 is silver, less than 12 is bronze.

1	customer id 💌	transaction_date 🚭	days till now 💌	Count of product_id 💌	Sum of Profit 💌	R▼	F 🔻 I	M 🔻 I	RFM 🔻	customer title 🔻
2	1506	12/30/2017	0	11	6435.1	9	9	9	27	gold
3	2659	12/30/2017	0	3	8143.93	9	0	9	18	silver
4	3433	12/30/2017	0	7	5925.74	9	6	9	24	gold
5	2055	12/30/2017	0	2	5563.63	9	0	9	18	silver
6	2434	12/30/2017	0	6	6874.53	9	5	9	23	gold
7	1000	12/30/2017	0	5	5383.48	9	3	8	20	silver
8	151	12/30/2017	0	3	5665.41	9	0	9	18	silver
9	195	12/30/2017	0	9	9633.41	9	8	9	26	gold
10	934	12/30/2017	0	6	4689.76	9	5	8	22	gold
11	1328	12/30/2017	0	5	5351.58	9	3	8	20	silver
12	1407	12/30/2017	0	5	3796.53	9	3	6	18	silver
13	1970	12/30/2017	0	7	3660.48	9	6	6	21	gold
14	2865	12/30/2017	0	7	5283.91	9	6	8	23	gold
15	3169	12/30/2017	0	3	4539.95	9	0	8	17	silver
16	1787	12/30/2017	0	6	4865.49	9	5	8	22	gold
17	2372	12/30/2017	0	5	3031.18	9	3	5	17	silver
18	993	12/30/2017	0	5	2738.89	9	3	4	16	silver
19	1594	12/30/2017	0	7	4320.3	9	6	7	22	gold
20	1721	12/30/2017	0	2	3766.35	9	0	6	15	silver
21	86	12/30/2017	0	4	2360.09	9	1	3	13	silver
22	1052	12/30/2017	0	5	3260.32	9	3	5	17	silver
23	1985	12/30/2017	0	8	2665.3	9	8	4	21	gold

## **Thank You**