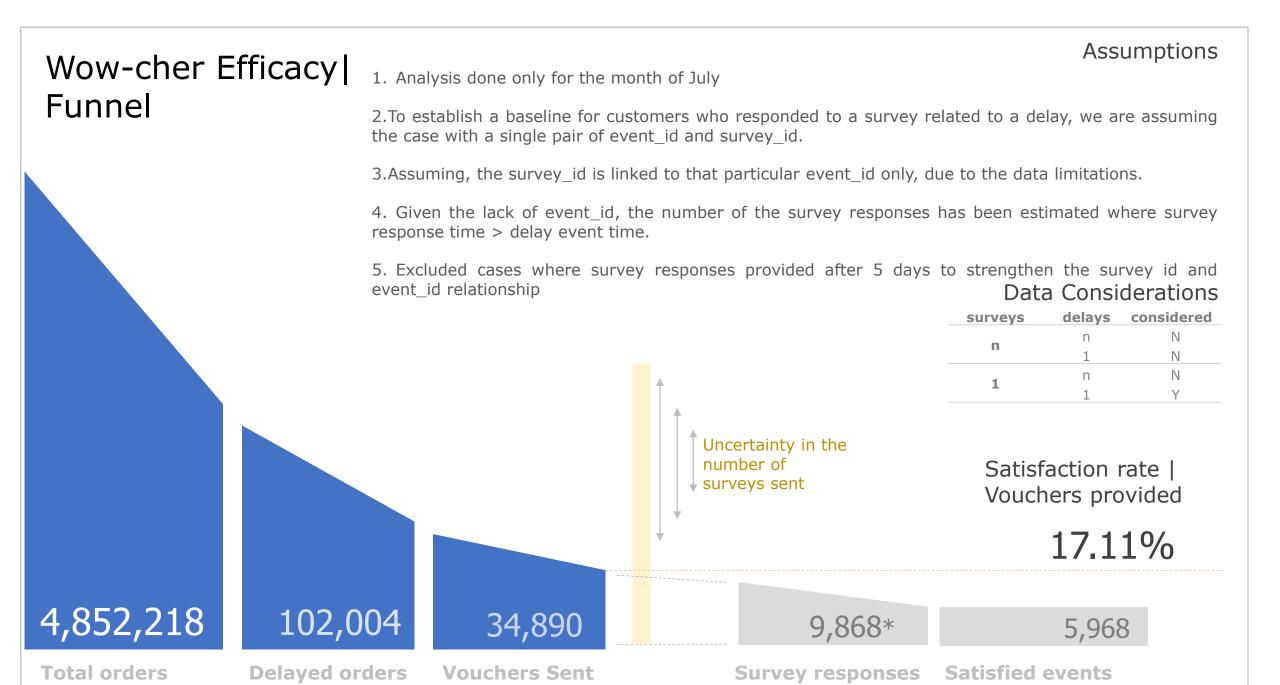
Company X | Wow-cher Case study

By: Adarsh Kalyanshetty

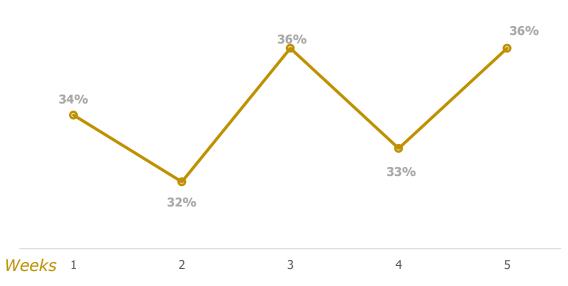


### Product Health | Monitoring Metrics



$$Delay Rate = \frac{Delayed Events}{Total Orders}$$

#### Voucher provision rate



$$Voucher Provision Rate = \frac{Vouchers Provided}{Total Delays}$$

#### \*\*Additional metrics to be monitored (Given more data)

Survey response rate = Surveys responded / Surveys sent Satisfaction rate = Satisfied count / Surveys responded | Satisfied count / Vouchers provided

# Satisfaction Improved? | Control group analysis

Cohort A | No voucher Cohort B | With voucher

Groups	Satisfaction%				
Proportion A	54.27%				
Proportion B	60.48%				

$$Z - statistic = \frac{P_B - P_A}{\sqrt{P_A(1 - P_B)/n}}$$

 $P_A$ : Proportion of Cohort A  $P_B$ : Proportion of Cohort B n: Sample size of Cohort B

Z-score: 12.379 Z-score > Critical value

	Survey Rating	No. of Events	<b>%</b>
Vouchers	0	3,900	39.5%
Provided	1	5,968	60.5%
	Total	9,868	100.0%

		Survey Rating	No. of Events	%
^	Vo	0	8,980	45.7%
Vou	chers	1	10,657	54.3%
		Total	19,637	100.0%

Difference is statistically significant indicating that the vouchers improve satisfaction.

# Explore | Country

Voucher	Survey Ratin	g Bangladesh i	Malaysia	Pakistan	Taiwan	Thailand	Total	Average	STDEV	Low	High
Voucher	0	40.2%	39.5%	38.8%	39.8%	39.6%	39.5%	39.6%	0.5%	39.1%	40.1%
Provided	1	59.8%	60.5%	61.2%	60.2%	60.4%	60.5%	60.4%	0.5%	<i>59.9%</i>	60.9%
No	0	56.7%	46.7%	50.0%	40.5%	42.7%	45.7%	47.3%	6.4%	40.9%	53.7%
Voucher	1	43.3%	53.3%	50.0%	59.5%	57.3%	<i>54.3%</i>	52.7%	6.4%	46.3%	<i>59.1%</i>

- The satisfaction rate in the action group across all countries is greater than the control group
- The satisfaction rates across all countries in the action group are clustered more around the mean when compared to the control group
- Hence, we can conclude that the Wow-cher is providing consistent results across countries when compared to the control group, except in Taiwan
- In Taiwan, we can make some tweaks to the criteria in Wow-cher to improve the customer satisfaction.

### Explore | customer\_value\_index

Voucher	Survey Rating	1	2	3	4	Total
Voucher	0	46%	34%	36%	32%	39.0%
Provided	1	54%	66%	64%	68%	61.0%
No	0	55%	37%	33%	33%	43.9%
Voucher	1	45%	63%	67%	67%	<i>56.1%</i>

- The wow-cher product is more effective for customers with lower customer value index and it gradually becomes less effective as we go higher in the customer value index
- Group with customer value index 3 has a different behavior, need to do an RCA to understand this better
- We can maintain a higher percent of voucher allocation to the group with lower customer value index when compared to the higher index to incentivize future orders
- Assumptions: as same as the first funnel, additionally removed customers with -1 index