

Màpé



Marketing Mix Model Report





Content

1.

- Model Review

2.

- Executive Summary

3.

- Overall Analysis

4.

- Side Model

5.

- Optimization

Model Overview

Sales= intercept

+ CCI+ Sales Event + Black Friday + July 4th

+ National TV+ Magazine

+ Paid Search + Display + Facebook + WeChat

+ Competitor Media Spend

+ Error

Executive Summary

Executive Summary



- National TV has the highest contribution



- Facebook is the most efficient channel



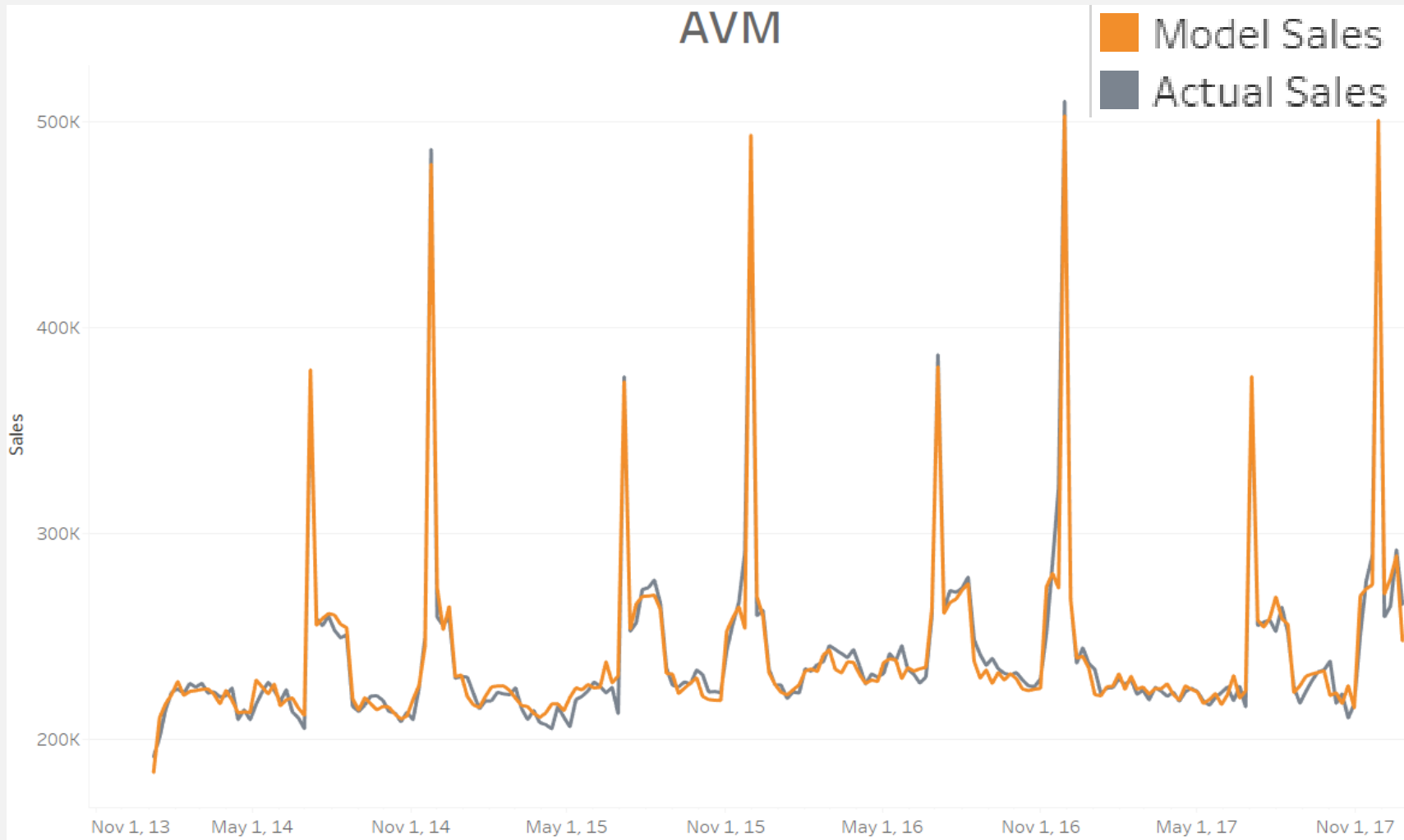
- Increase budget for Facebook, Display, Search and WeChat



- Optimized Sales estimated to increase by 2.6%

Overall Analysis

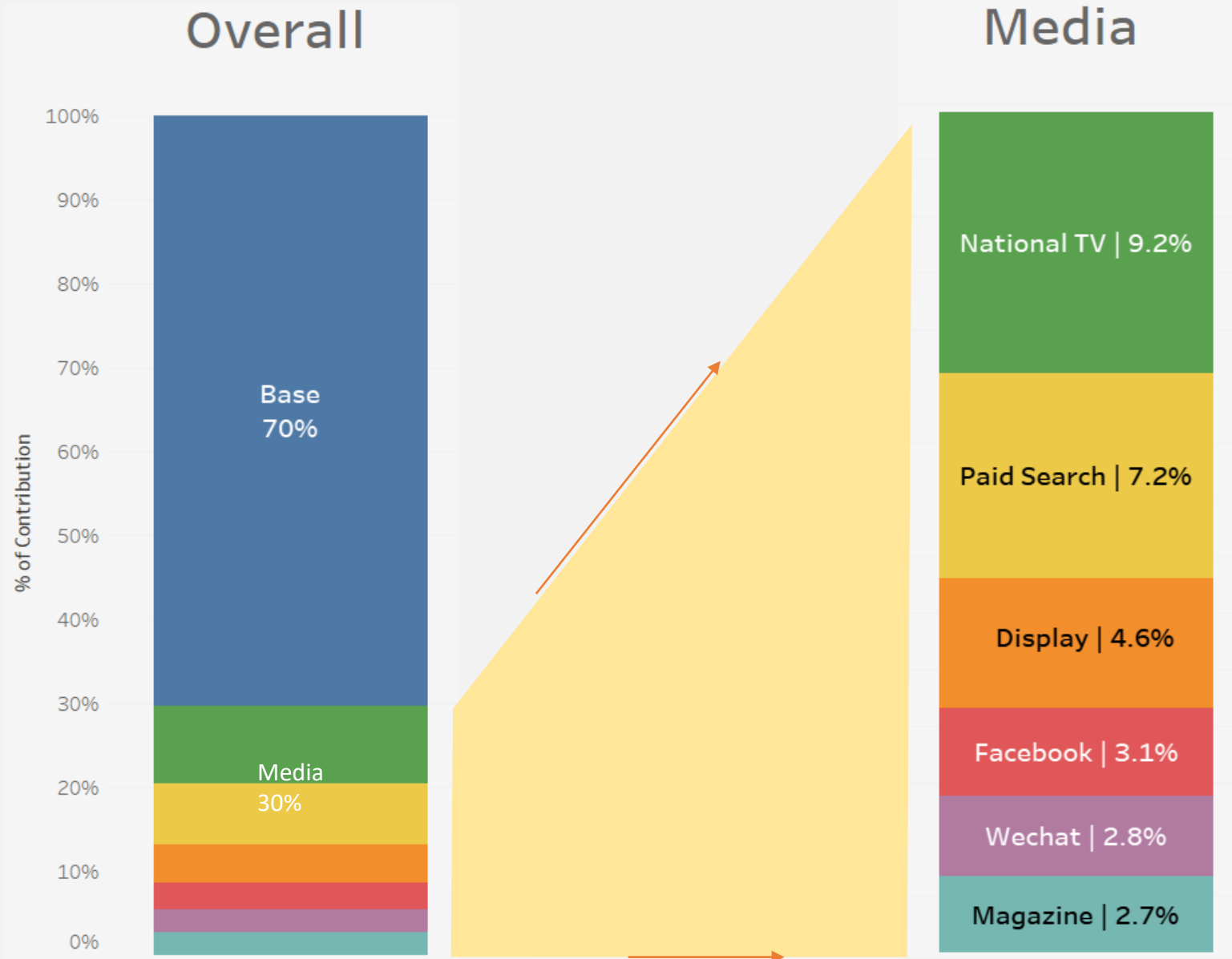
Overall Analysis



97% of the sales
variance could be
explained by the model

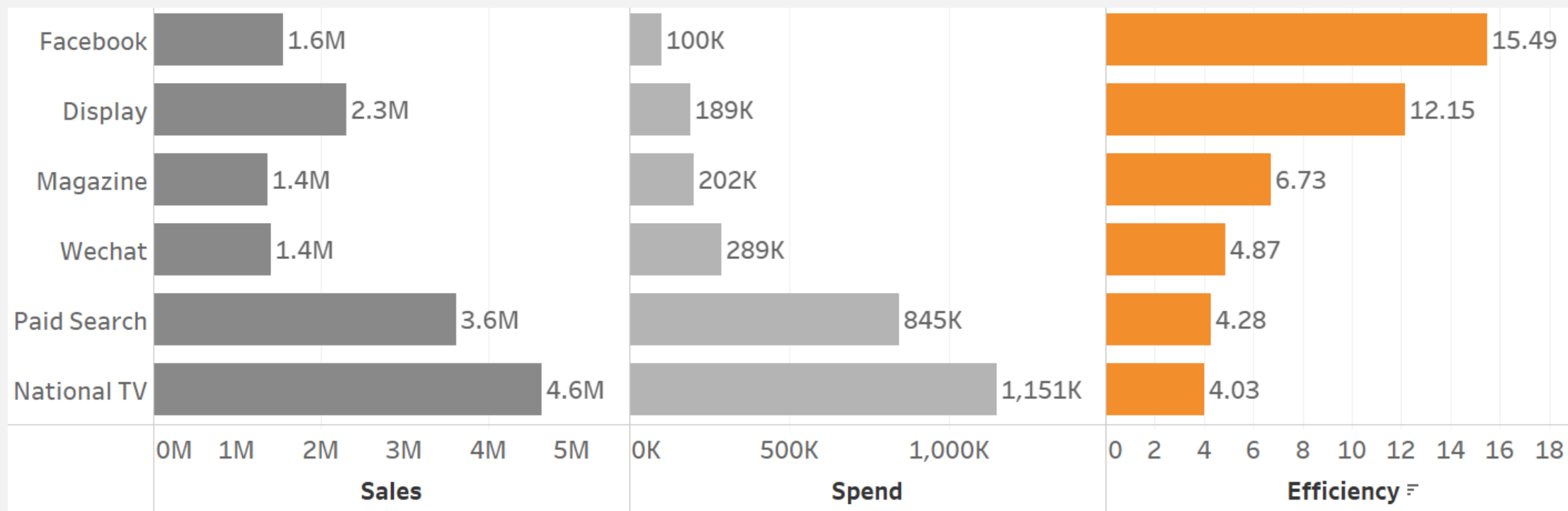
*More details in appendix

Contribution



- **National TV**
contributes the most sales
- **Online media (+...)** is
also very essential

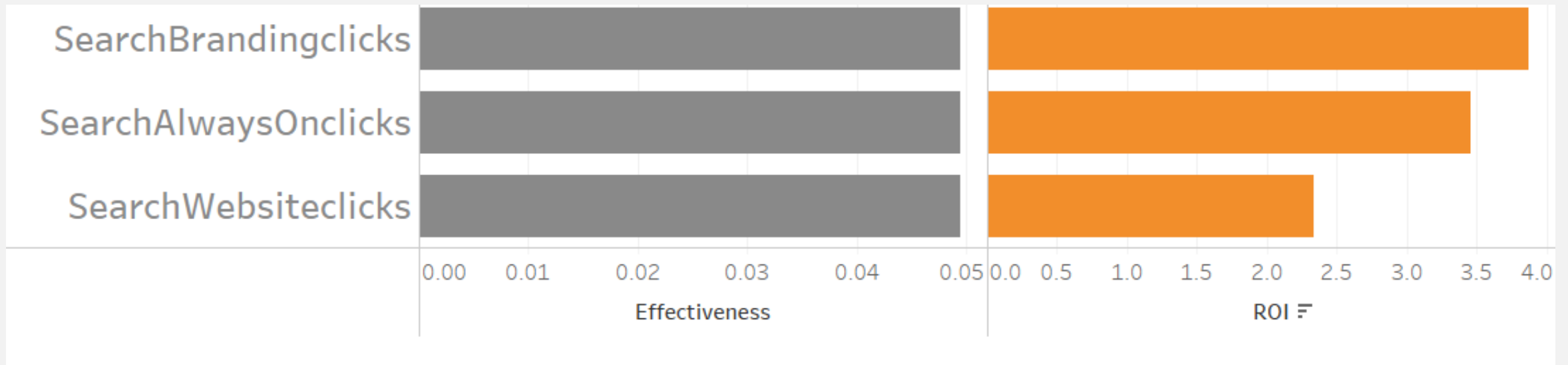
Efficiency



Online media is the most efficient (Facebook, display)

Side Model

Paid Search Channel

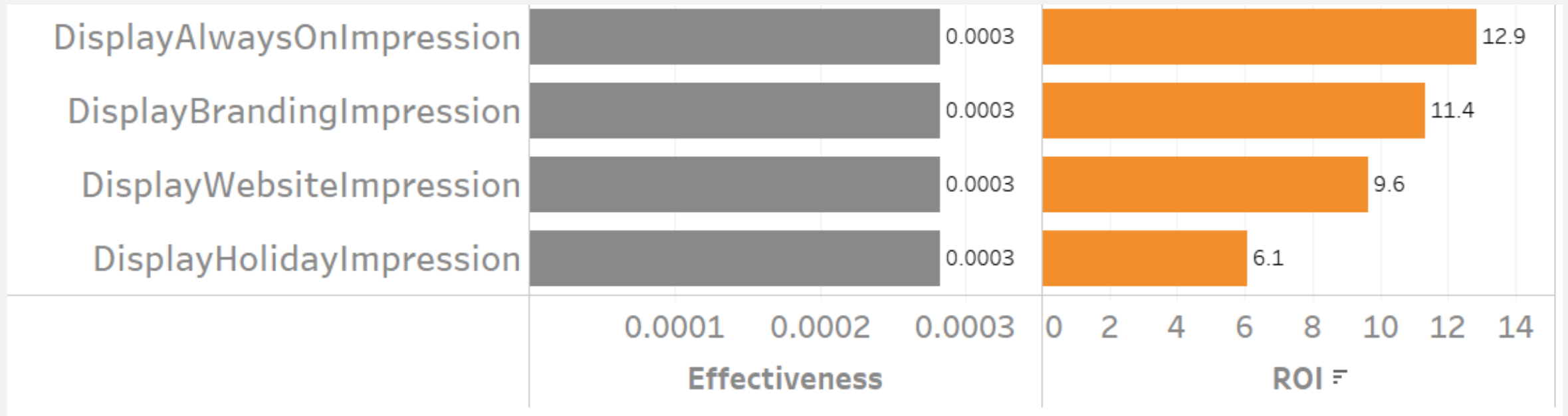


- **SearchBrandingclicks** is the most efficient campaign
- Collect feedback from users to keep improving

Facebook Channel



Display Channel

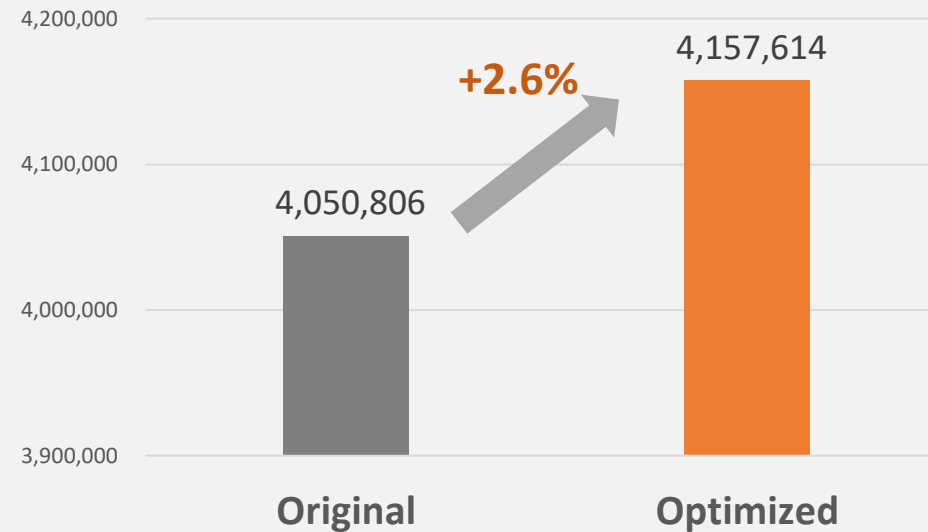


DisplayHolidayImpressions has the lowest efficiency

Optimization

Optimization

Sales Optimization



	National TV	Magazine	Paid Search	Display	Facebook	Wechat
Original Spend	\$ 274,552	\$ 57,547	\$ 209,566	\$ 46,368	\$ 25,771	\$ 9,533
Optimized Spend	\$ 227,814	\$ 46,037	\$ 251,480	\$ 55,642	\$ 30,925	\$ 11,439
+ / -	↓ (46,738)	↓ (11,509)	↑ 41,913	↑ 9,274	↑ 5,154	↑ 1,907

Thank you!



Transformation Parameter

```
transform = {'National TV GRPs': {'lag':1, 'Alpha':0.3, 'Decay':0.8},  
            'Magazine GRPs': {'lag':1, 'Alpha':0.1, 'Decay':0.7},  
            'Paid Search': {'lag':0, 'Alpha':0.99, 'Decay':0.99},  
            'Display': {'lag':0, 'Alpha':1, 'Decay':1},  
            'Facebook Impressions': {'lag':0, 'Alpha':0.7, 'Decay':1},  
            'Wechat': {'lag':1, 'Alpha':1, 'Decay':0.9}}
```