Media Plan Optimization: Incremental Increases in OOH Share Brand Metrics Analysis

October 2024



Project Summary

This report explores the impact of incremental reallocation of budget to achieve media plan optimization

- A prior 2023 study confirmed the importance of OOH in the media mix and determined that historical under-allocation of budget to OOH prevented overall media plan optimization. Findings included OOH:
 - Delivered a strong RROAS that can improve overall campaign RROAS
 - Drove improved brand perceptions throughout the marketing funnel
- Comprehensive econometric modelling was conducted on key Brand Metrics to understand the role of OOH in driving brand measures. Three categories were evaluated within this study: Automotive, CPG Food, and Retail Grocery.
- The 2023 analysis provided RROAS numbers by media channel and optimal allocations by channel, detailing the impact of OOH in the mix in driving key brand perceptions, and included guidelines for allocating media channel spend levels to optimize overall improvements in brand scores.
- This study builds on the 2023 analysis and examines the impact of **incremental reallocation of budget** on the path to full optimization of the total media plan, and the resulting optimal levels for OOH. This analysis supports the recommendation to use an incremental approach to adjusting OOH media allocations rather than single dramatic increases to full optimization.

This document showcases the results of the impact of incremental reallocation of budget on brand metric analysis across the three categories. Brand metric scores are reported to 4 decimal places, as movements within brand metrics are small in terms of overall ROAS, but still represent strong increases. Incremental steps analysis across sales ROI is available in a separate document.

Benchmarketing 2

The "Media Plan Optimization Analysis of Incremental Increase in OOH Share" study was sponsored by The Foundation for Out of Home Advertising Research and Education (FOARE), a 501 (c) (3) not for profit, charitable organization.

Key Findings

Even minimum or increases to OOH achieves significant gains for the total media plan

Optimal budget allocation across **all media channels** demonstrates that **OOH budget** should be **increased** to improve **all** three **brand metric scores**

ROAS across all three brand metric scores increases with increased allocation to OOH

Optimal budget allocation demonstrates that **OOH** has been an **historically significantly under invested** media channel

The majority of the gain in brand metric ROAS is achieved with just the first incremental increase of OOH

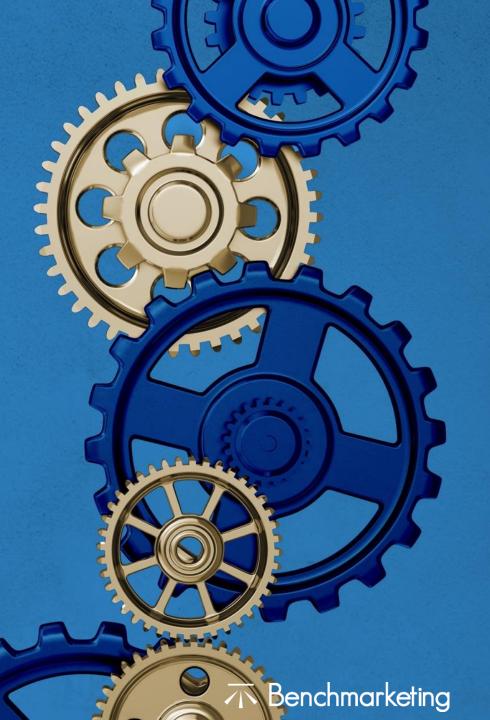
Results provide **confidence** that increasing **OOH** investment only slightly, achieves **significant gains**

Summary Charts: Comparing brand metric models across categories



Brand Awareness - Summary

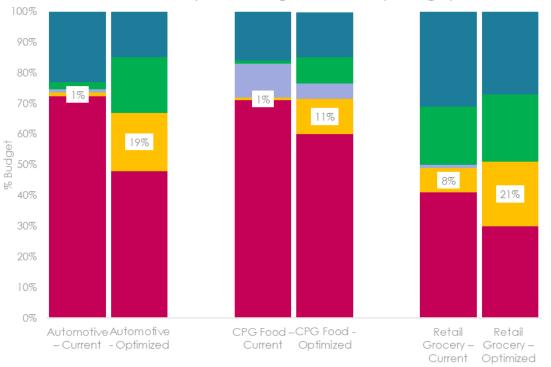




Brand Awareness by Category: Current vs Optimal Media Allocation and ROAS improvement

OOH is increased in all categories to achieve optimization

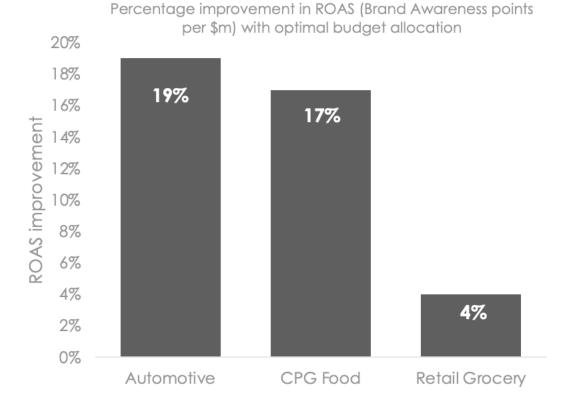
Optimized budget allocations recommends an increase in OOH in all three categories



Current vs Optimized Budget Allocation by Category

■TV ■OOH ■Print ■Radio ■Digital

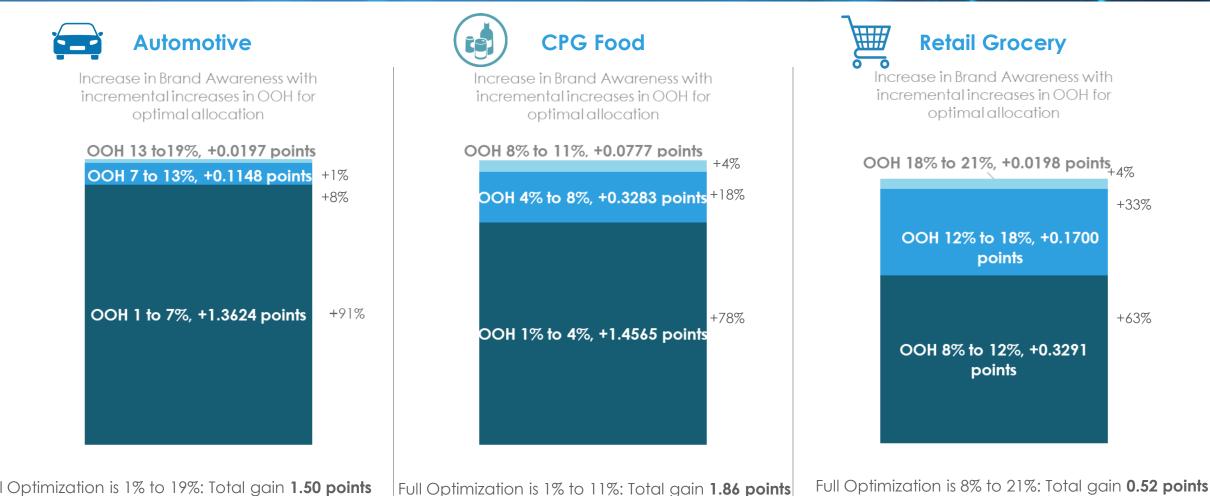
ROAS improves across all categories with an increase in allocation to OOH for optimal budget



- Benchmarketing 6

Brand Awareness: impact of 3 incremental increases across 3 categories

The initial incremental increase in OOH allocation generates the largest gain across three categories



Full Optimization is 1% to 19%: Total gain 1.50 points

91% gain is achieved in the first incremental step

78% gain is achieved in the first incremental step

63% gain is achieved in the first incremental step

- Benchmarketing 7

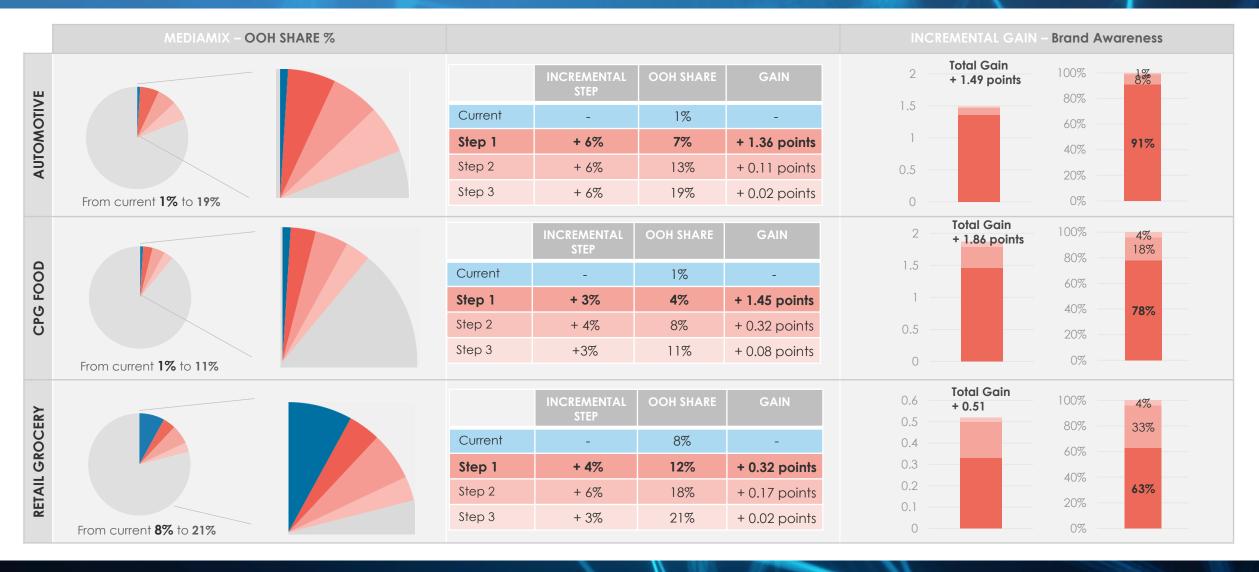
Brand Awareness: incremental steps results summary table – all categories

Majority of gain is achieved in step 1 for all categories

Brand Awareness	Automotive			CPG Food			Retail Grocery		
	% OOH allocation step increase	Increase in Brand Metric	% of total gain in step	% OOH allocation step increase	Increase in Brand Metric	% of total gain in step	% OOH allocation step increase	Increase in Brand Metric	% of total gain in step
Step 1	OOH 1% to 7%	1.3624	91%	OOH 1% to 4%	1.4565	78%	OOH 8% to 12%	0.32910	63%
Step 2	OOH 7% to 13%	0.1148	8%	OOH 4% to 8%	0.3283	18%	OOH 12% to 18%	0.17000	33%
Step 3	OOH 13% to19%	0.0197	1%	OOH 8% to 11%	0.0777	4%	OOH 18% to 21%	0.01980	4%
Total - Optimal	OOH 1% to19%	1.4969	100%	OOH 1% to 11%	1.8625	100%	OOH 8 to 21%	0.51890	100%

BRAND AWERENESS through Incremental OOH Share

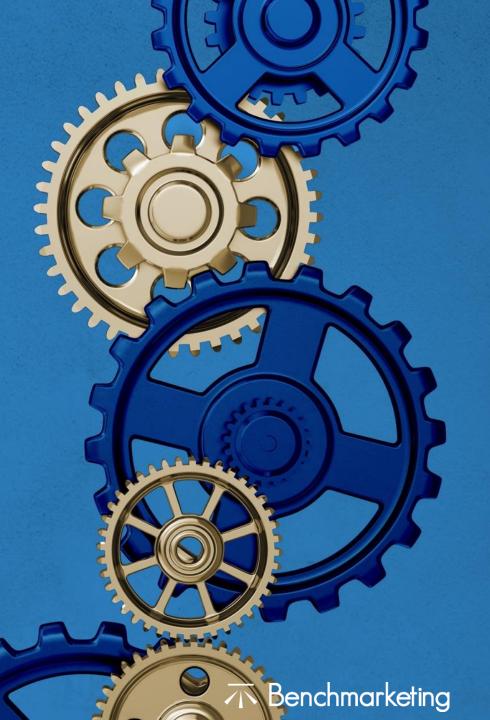
Majority of gain is achieved in step 1 for all categories



- Benchmarketing 19

Consideration - Summary

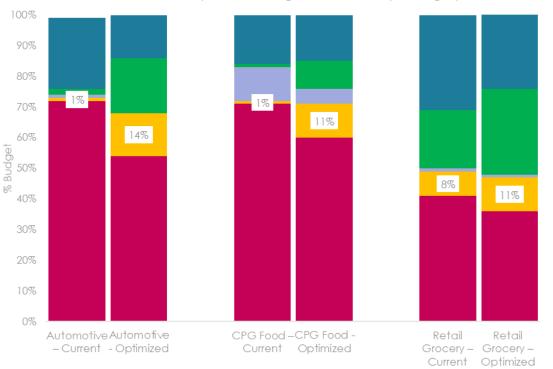




Brand Consideration by Category: Current vs Optimal Media Allocation and ROAS improvement

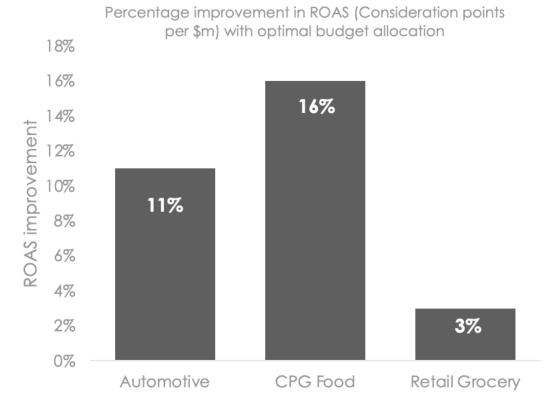
OOH is increased in all categories to achieve optimization

Optimized budget allocations recommends an increase in OOH in all three categories



Current vs Optimized Budget Allocation by Category

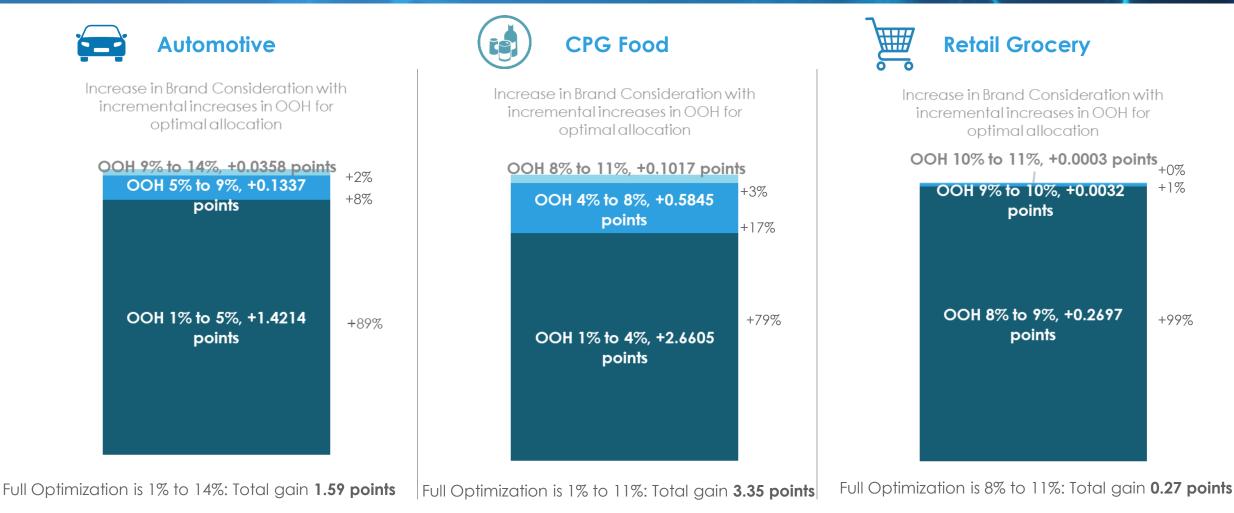
ROAS improves across all categories with an increase in allocation to OOH for optimal budget



■TV ■OOH ■Print ■Radio ■Digital

Brand Consideration: impact of 3 incremental increases across 3 categories

The initial incremental increase in OOH allocation generates the largest gain across three categories



89% gain is achieved in the first incremental step

79% gain is achieved in the first incremental step

99% gain is achieved in the first incremental step

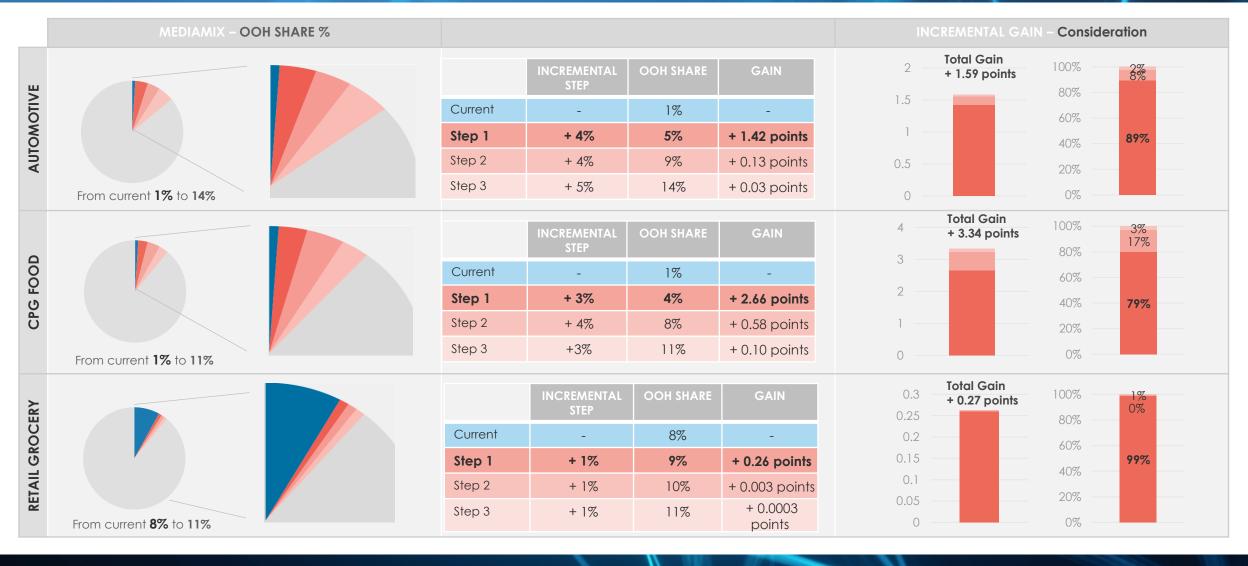
Brand Consideration: incremental steps results summary table – all categories

Majority of gain is achieved in step 1 for all categories

Consideration	Automotive			CPG Food			Retail Grocery		
	% OOH allocation step increase	Increase in Brand Metric	% of total gain in step	% OOH allocation step increase	Increase in Brand Metric	% of total gain in step	% OOH allocation step increase	Increase in Brand Metric	% of total gain in step
Step 1	OOH 1% to 5%	1.4214	89%	OOH 1% to 4%	2.6605	79%	OOH 8% to 9%	0.2697	99%
Step 2	OOH 5% to 9%	0.1337	8%	OOH 4% to 8%	0.5845	17%	OOH 9% to 10%	0.0032	1%
Step 3	OOH 9% to 14%	0.0358	2%	OOH 8% to 11%	0.1017	3%	OOH 10% to 11%	0.0003	0%
Total - Optimal	OOH 1% to 14%	1.5909	100%	OOH 1% to 11%	3.3467	100%	OOH 8% to 11%	0.2732	100%

CONSIDERATION through Incremental OOH Share

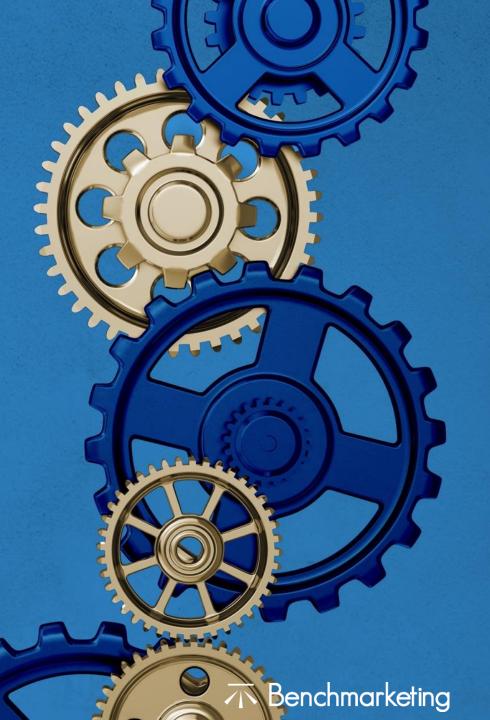
Majority of gain is achieved in step 1 for all categories



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Purchase Intent - Summary





Purchase Intent by Category: Current vs Optimal Media Allocation and ROAS improvement

OOH is increased in all categories to achieve optimization

Current vs Optimized Budget Allocation by Category

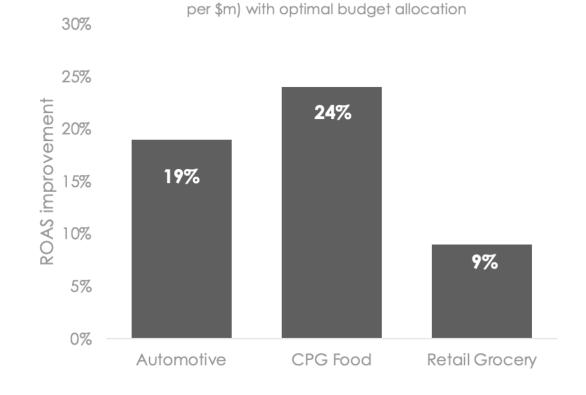
Optimized budget allocations recommends an increase in OOH in all three categories

100% 90% 80% 1% 1% 70% 15% 60% % Budget 13% 8% 10% 40% 30% 20% 10% 0% Automotive Automotive CPG Food - CPG Food -Retail Retail -Current -Optimized Current Optimized Grocery -Grocery -Current Optimized

■TV ■OOH ■Print ■Radio ■Digital

ROAS improves across all categories with an increase in allocation to OOH for optimal budget

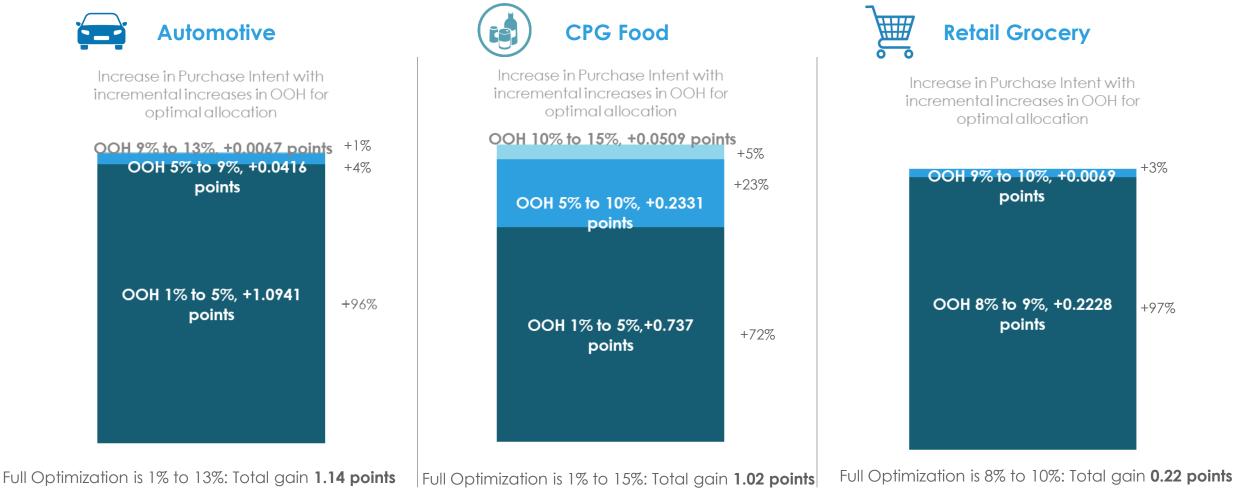
Percentage improvement in ROAS (Purchase intent points



The Benchmarketing 116

Purchase Intent: impact of 3 incremental increases across 3 categories

The initial incremental increase in OOH allocation generates the largest gain across three categories



96% gain is achieved in the first incremental step

72% gain is achieved in the first incremental step

97% gain is achieved in the first incremental step

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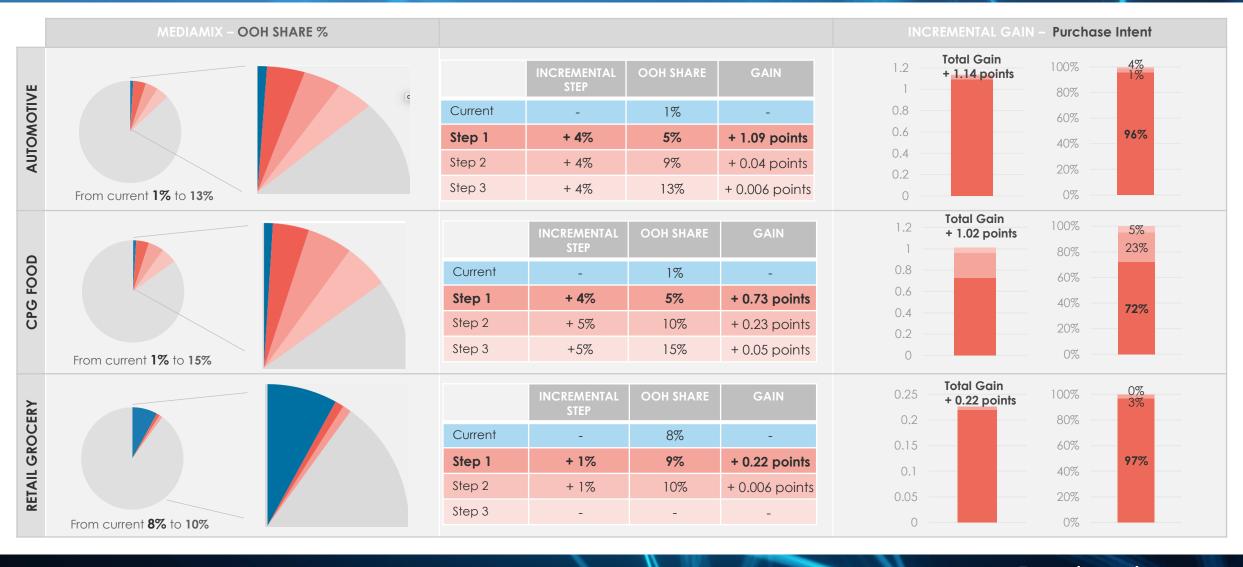
Purchase Intent: incremental steps results summary table – all categories

Majority of gain is achieved in step 1 for all categories

Purchase Intent	Automotive			CPG Food			Retail Grocery		
	% OOH allocation step increase	Increase in Brand Metric	% of total gain in step	% OOH allocation step increase	Increase in Brand Metric	% of total gain in step	% OOH allocation step increase	Increase in Brand Metric	% of total gain in step
Step 1	OOH 1% to 5%	1.0941	96%	OOH 1% to 5%	0.7370	72%	OOH 8% to 9%	0.2228	97%
Step 2	OOH 5% to 9%	0.0416	4%	OOH 5% to 10%	0.2331	23%	OOH 9% to 10%	0.0069	3%
Step 3	OOH 9% to 13%	0.0067	1%	OOH 10% to 15%	0.0509	5%			
Total - Optimal	OOH 1% to 13%	1.1424	100%	OOH 1% to 15%	1.021	100%	OOH 8% to 10%	0.2297	100%

PURCHASE INTENT through Incremental OOH Share

Majority of gain is achieved in step 1 for all categories



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Automotive Budget Allocation: Incremental Steps on Brand Metrics

Detail Charts

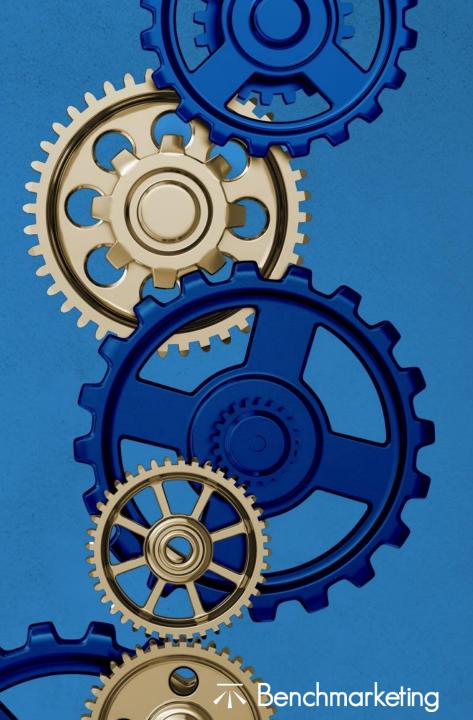
- Brand Awareness
- Consideration
- Purchase Intent





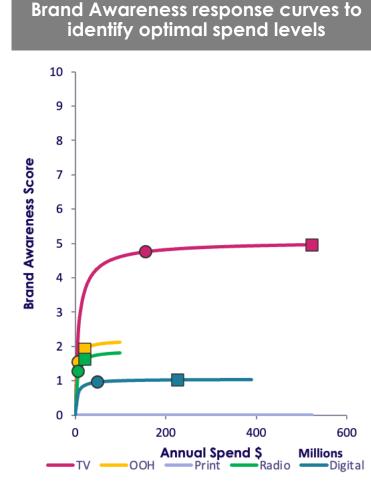
Automotive Brand Awareness – Detail Charts

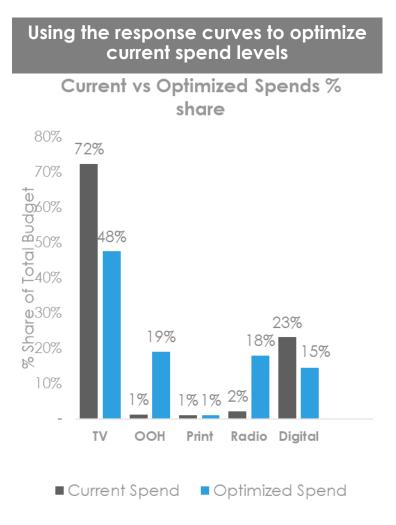




Automotive OPTIMAL OOH allocation for Brand Awareness ROAS

Increase OOH from 1 to 19%





Recommendations and Results

Decrease TV to 48% and **upweight OOH to 19%, Radio to 18%** (Downweight TV and Digital)

Extra **1.4969** Brand Awareness points generated using the same budget

Total media ROAS increases from 0.0367 to 0.0438

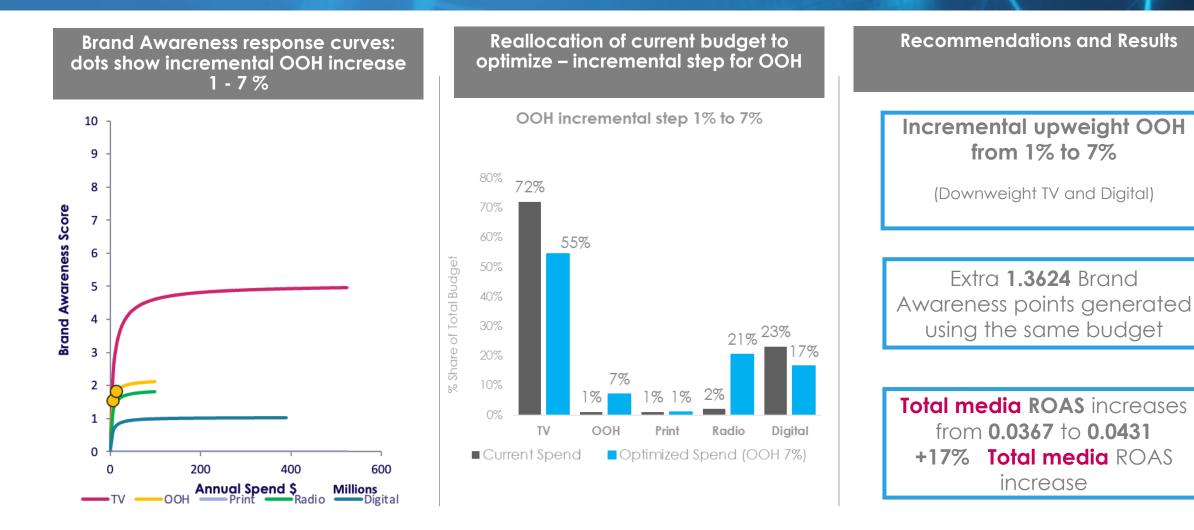
+19% Total media ROAS increase

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Scenario based on average brand 2022 Vivvix spend

Automotive FIRST INCREMENTAL OOH increase for Brand Awareness ROAS

increase OOH from <u>1% to 7%</u> (optimal OOH is 19%)



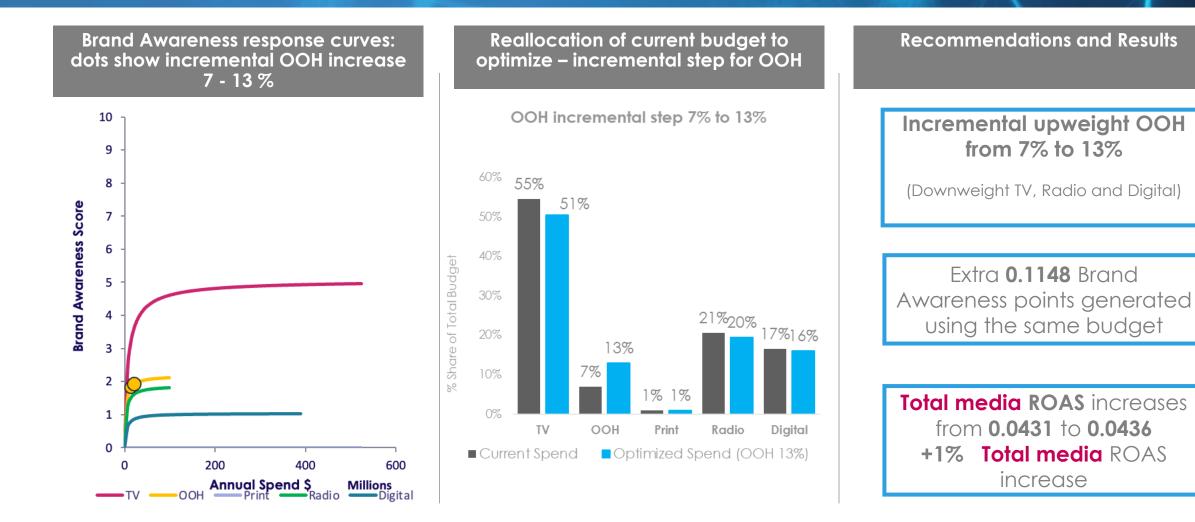
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Scenario based on average brand 2022 Vivvix spend

Automotive <u>SECOND INCREMENTAL OOH increase</u> for Brand Awareness ROAS:



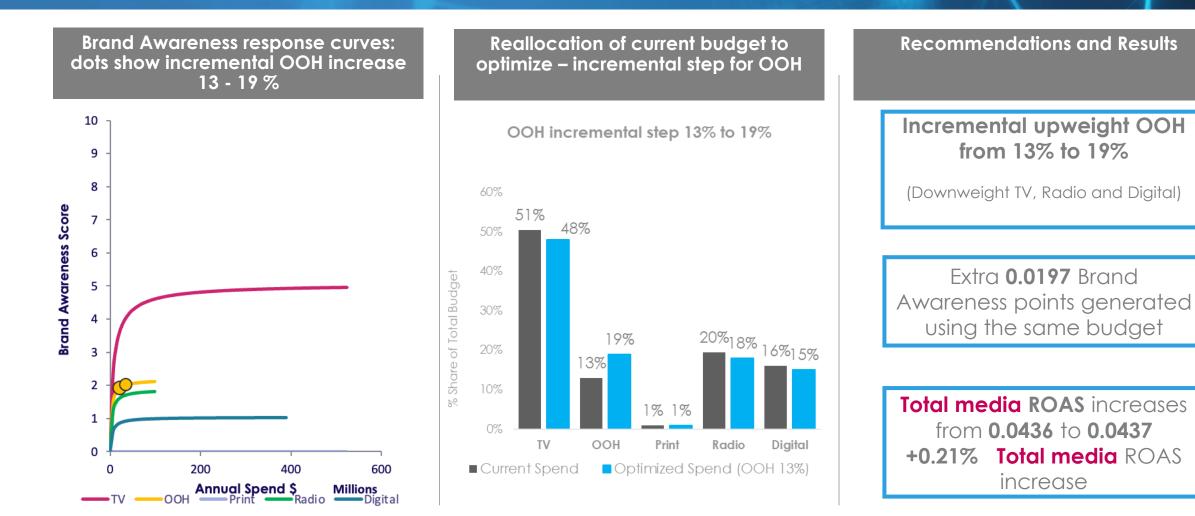
Increase OOH from <u>7% to 13%</u> (optimal OOH is 19%)



Scenario based on average brand 2022 Vivvix spend

Automotive FINAL INCREMENTAL OOH increase for Brand Awareness ROAS:

Increase OOH from 13% to 19%, (optimal OOH is 19%)



The Benchmarketing | 25

Scenario based on average brand 2022 Vivvix spend

Automotive Brand Awareness: optimized vs incremental steps in increasing OOH% allocation The first incremental increase from 1% to 7% generates the largest part of the optimized Brand Awareness increase

Full Optimization

Additional Brand Awareness Points

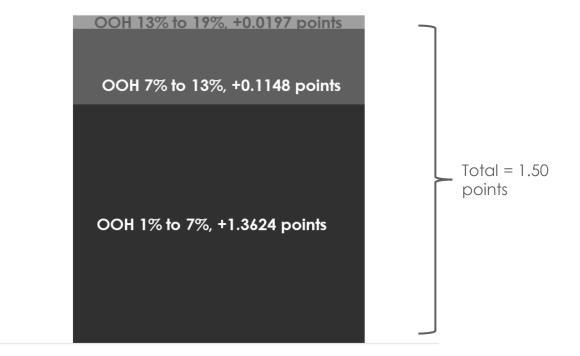
Additional Brand Awareness points generated from optimizing OOH straight to 19%

OOH 1% to 19%,

+1.4969 points

Incremental Optimization

Additional Brand Awareness points generated from incremental increases in OOH



Additional Brand Awareness generated Incrementally

Additional Brand Awareness generated full optimization

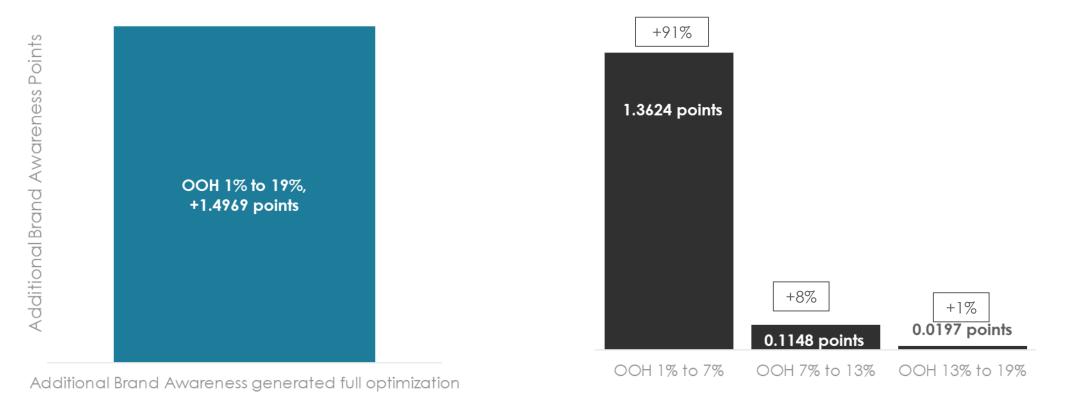
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Automotive Brand Awareness: optimized vs incremental steps in increasing OOH% allocation

The first incremental increase from 1% to 7% generates the largest part of the optimized Brand Awareness increase

Full Optimization

Additional Brand Awareness points generated from optimizing OOH straight to 19%



X% = percentage of total optimized brand awareness points generated in that step

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Incremental Optimization

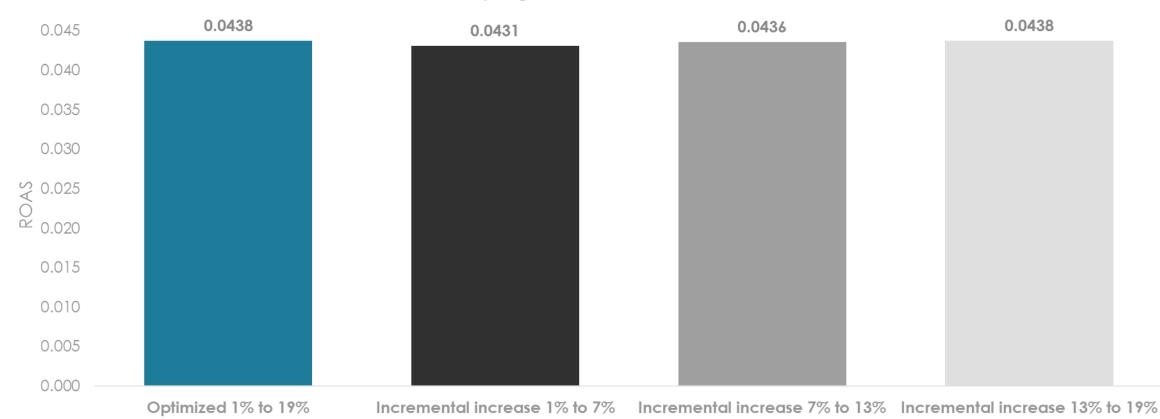
Additional Brand Awareness points generated from

incremental increases in OOH

Automotive Optimizing OOH to 19% vs Incremental increases in OOH allocation: ROAS



Optimal ROAS of 0.0438 with optimal 19% OOH allocation is very nearly achieved within the 7-13% OOH allocation

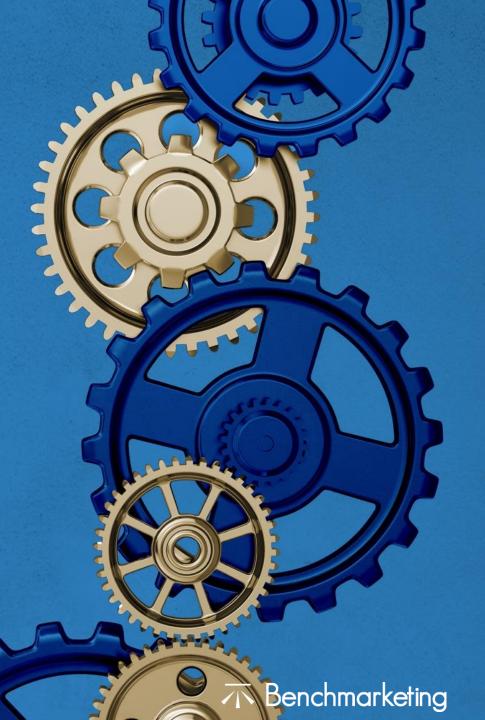


Total Campaign ROAS – Brand Awareness



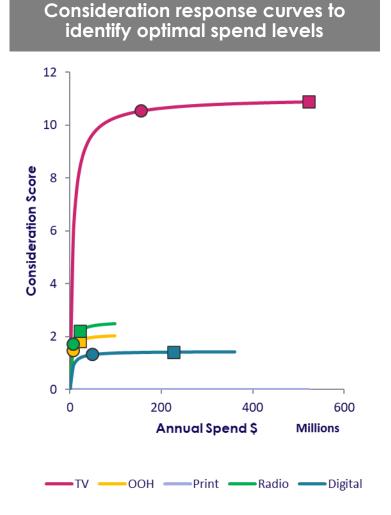
Automotive Consideration – Detail Charts

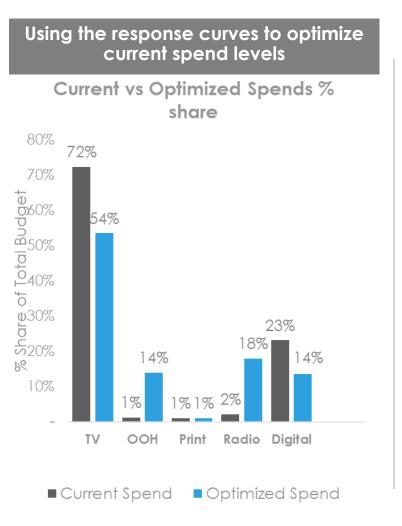




Automotive OPTIMAL OOH allocation for Consideration ROAS

Increase OOH from <u>1% to 14%</u>





Recommendations and Results

Decrease TV to 54% and **upweight OOH to 14%**, **Radio to 18%** (Downweight TV and Digital)

Extra **1.5910** Consideration points generated using the same budget

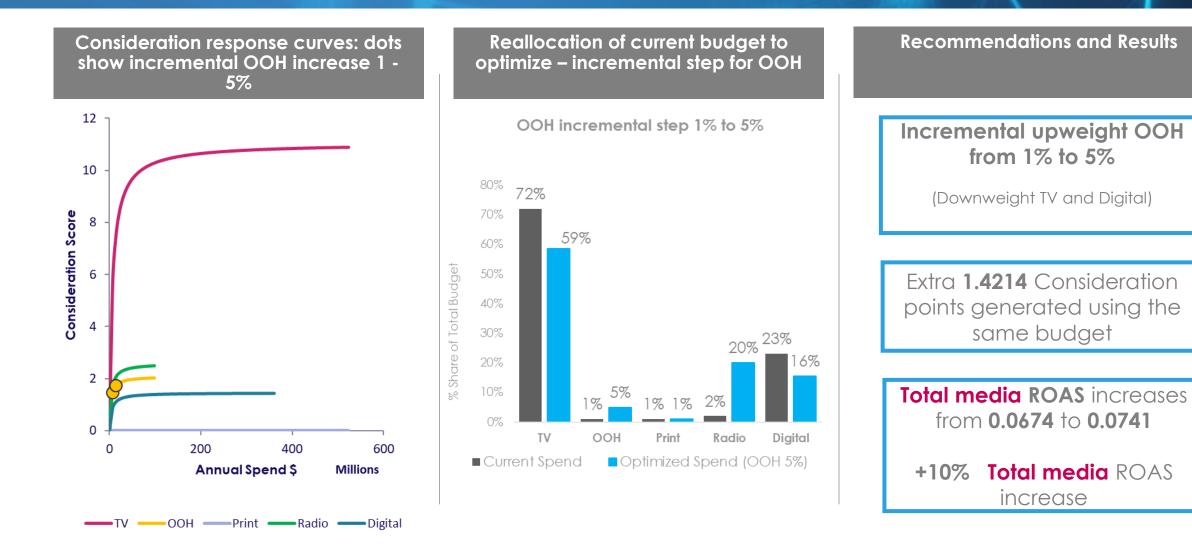
Total media ROAS increases from 0.0674 to 0.0749

+11% Total media ROAS increase

Scenario based on average brand 2022 Vivvix spend

Automotive **FIRST INCREMENTAL OOH increase** for Consideration ROAS

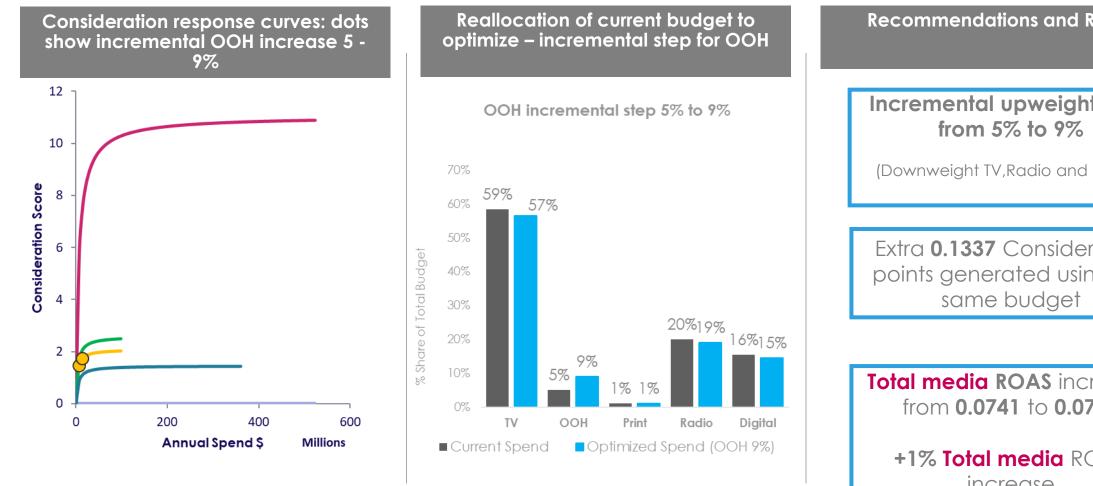
Increase OOH from <u>1% to 5%</u> (optimal OOH is 14%)



Scenario based on average brand 2022 Vivvix spend

Automotive SECOND INCREMENTAL OOH increase for Consideration ROAS

Increase OOH from <u>5% to 9%</u> (optimal OOH is 14%)



Recommendations and Results

Incremental upweight OOH

(Downweight TV,Radio and Digital)

Extra 0.1337 Consideration points generated using the

Total media ROAS increases from 0.0741 to 0.0747

+1% Total media ROAS increase

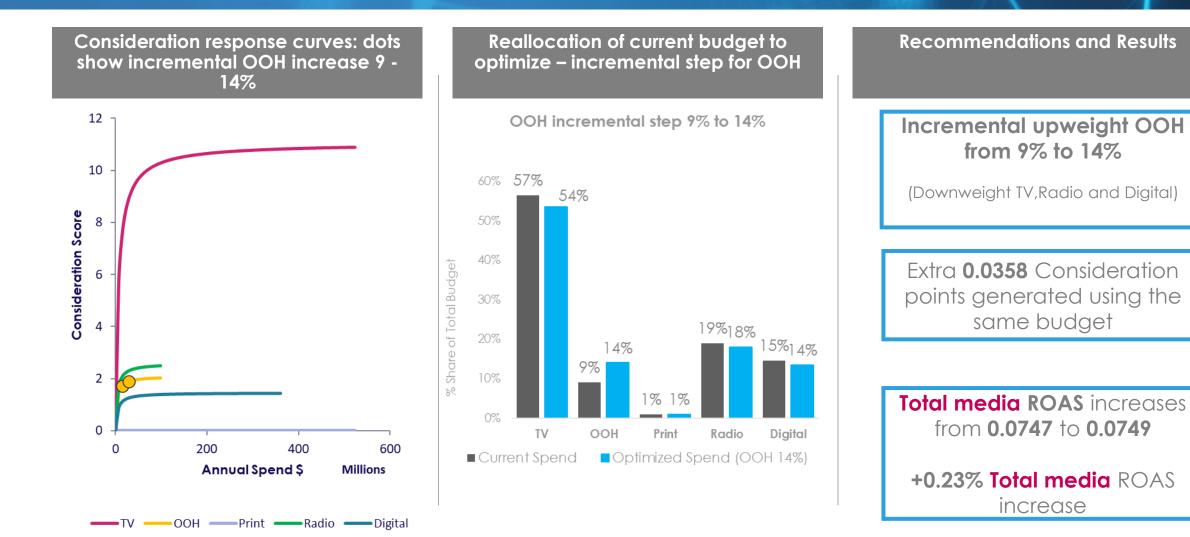
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Scenario based on average brand 2022 Vivvix spend

----OOH -----Print -----Radio -----Digital

Automotive FINAL INCREMENTAL OOH increase for Consideration ROAS

Increase OOH from <u>9% to 14%</u> (optimal OOH is 14%)



Scenario based on average brand 2022 Vivvix spend

Automotive Consideration: optimized vs incremental steps in increasing OOH% allocation



The first incremental increase from 1% to 5% generates the largest part of the optimized Consideration increase

Full Optimization

Additional Consideration points generated from optimizing OOH straight to 14%

Additional Consideration Points

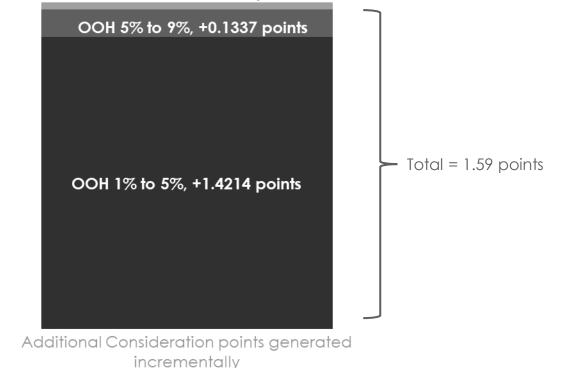


Additional Consideration points generated full optimization

Incremental Optimization

Additional Consideration points generated from incremental increases in OOH

OOH 9% to 14%, +0.0358 points



Automotive Consideration: optimized vs incremental steps in increasing OOH % allocation

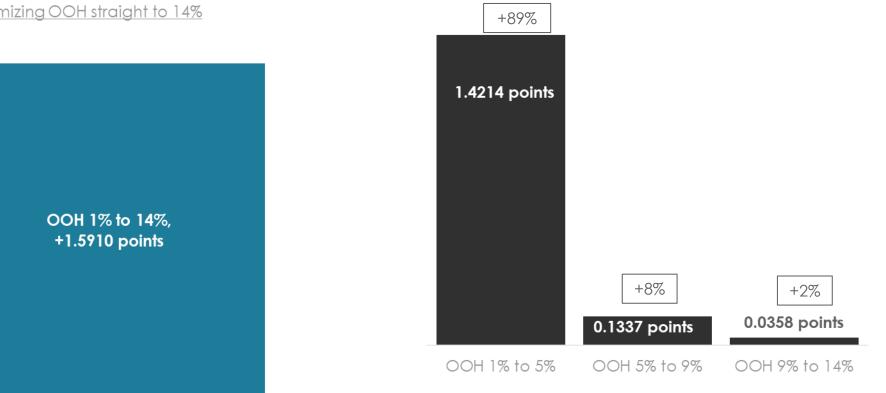


The first incremental increase from 1% to 5% generates the largest part of the total optimized Consideration increase

Full Optimization

Additional Consideration points generated from optimizing OOH straight to 14%

Additional Consideration Points



X% = percentage of total optimized consideration points generated in that step

Incremental Optimization

Additional Consideration points generated from incremental increases in OOH

Additional Consideration points generated full optimization

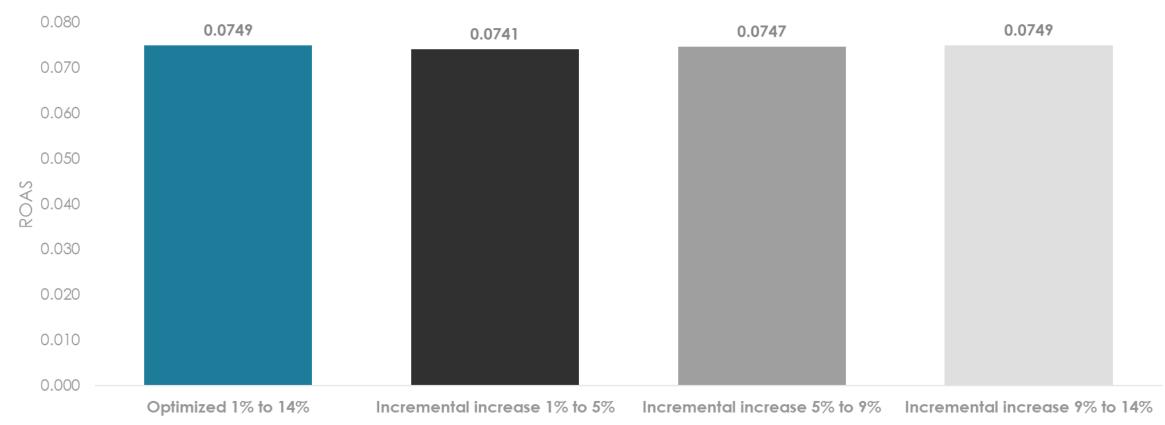
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Automotive Optimizing OOH to 14% vs Incremental increases in OOH allocation: ROAS



Optimal ROAS of 0.075 with optimal 14% OOH allocation is also achieved within the 5-9% OOH allocation

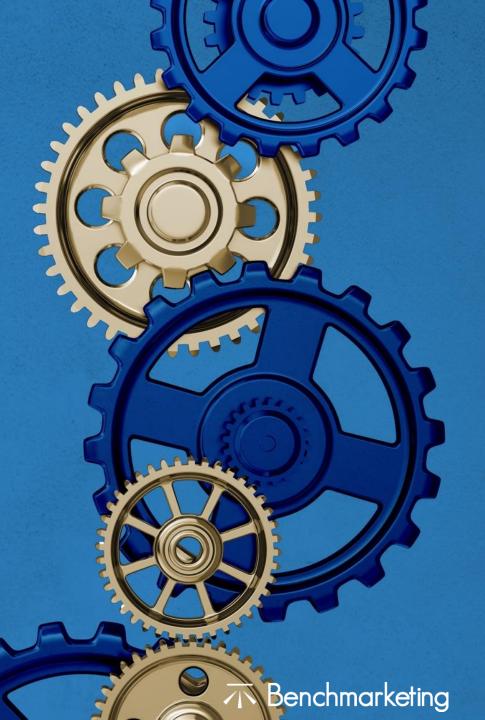
Total Campaign Consideration ROAS





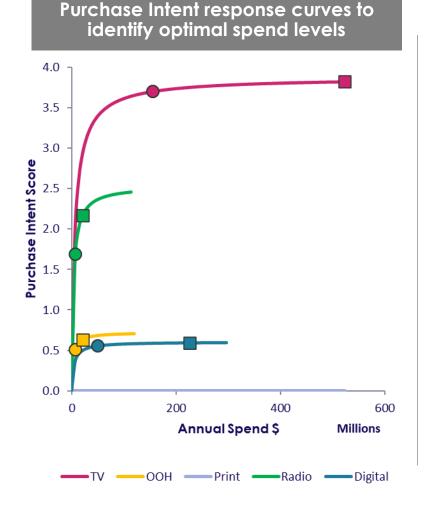
Automotive Purchase Intent – Detail Charts

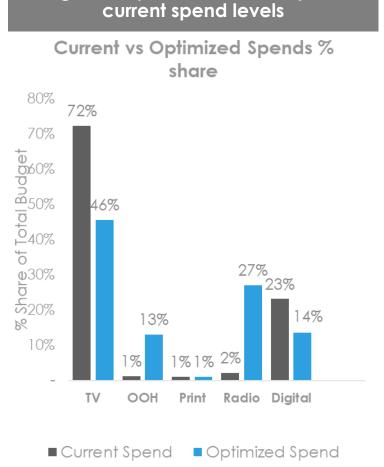




Automotive OPTIMAL OOH allocation for Purchase Intent ROAS

Increase OOH from <u>1% to 13%</u>





Using the response curves to optimize

Recommendations and Results

Decrease TV to 46% and **upweight OOH to 13%, Radio to 27%** (Downweight TV and Digital)

Extra 1.1425 Purchase Intent points generated using the same budget

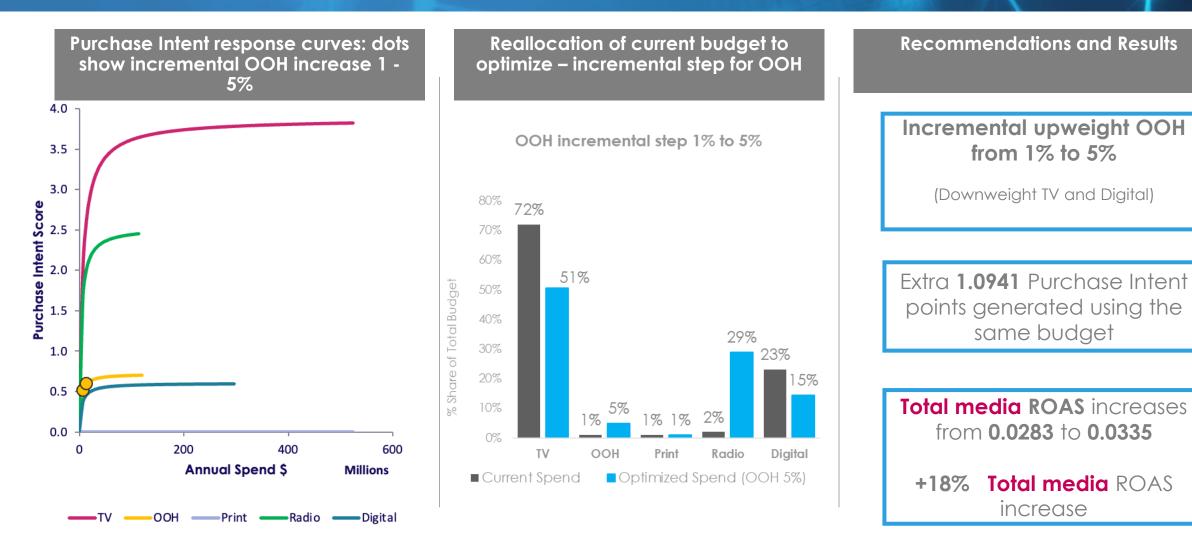
Total media ROAS increases from 0.0283 to 0.0337

+19% Total media ROAS increase

Scenario based on average brand 2022 Vivvix spend

Automotive FIRST INCREMENTAL OOH increase for Purchase Intent ROAS

Increase OOH from <u>1% to 5%</u> (optimal OOH is 13%)

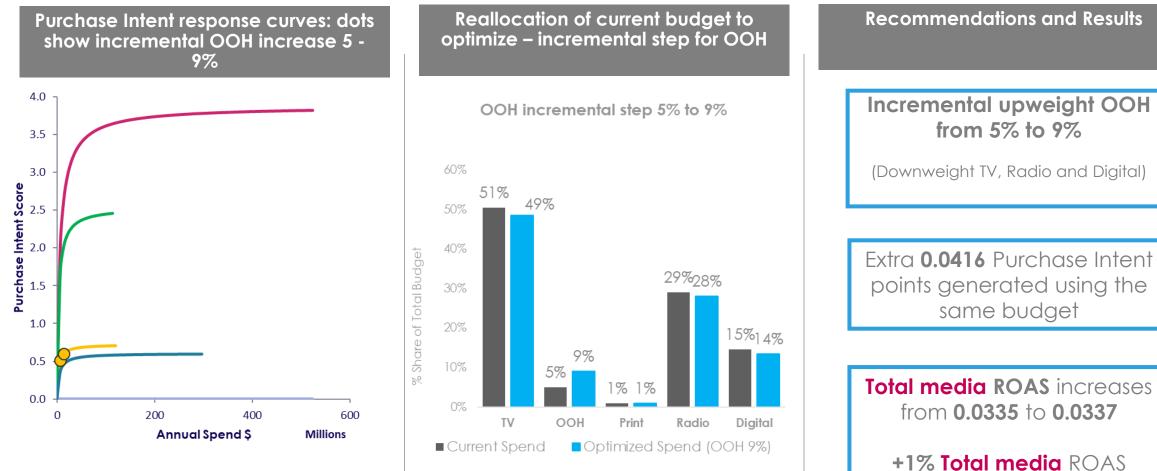


The Benchmarketing 1 39

Scenario based on average brand 2022 Vivvix spend

Automotive <u>SECOND INCREMENTAL OOH increase</u> for Purchase Intent ROAS

Increase OOH from 5% to 9% (optimal OOH is 13%)



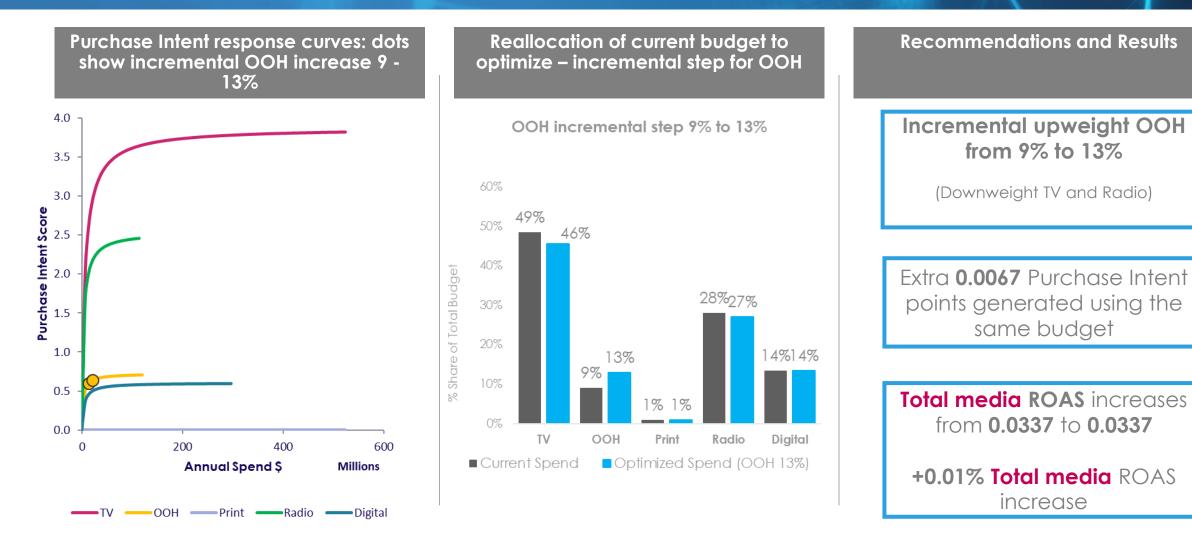
increase

Scenario based on average brand 2022 Vivvix spend

OOH —— Print —— Radio —— Digital

Automotive FINAL INCREMENTAL OOH increase for Purchase Intent ROAS

Increase OOH from <u>9% to 13</u>% (optimal OOH is 13%)



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Scenario based on average brand 2022 Vivvix spend

Automotive Purchase Intent: optimized vs incremental steps in increasing OOH% allocation

The first incremental increase from 1% to 5% generates the largest part of the optimized Purchase Intent increase

Full Optimization Incremental Optimization Additional Purchase Intent points generated from Additional Purchase Intent points generated from optimizing OOH straight to 13% incremental increases in OOH OOH 9% to 13%, +0.0067 points Additional Purchase Intent Points OOH 5% to 9%, +0.0416 points OOH 1% to 13%, Total = 1.14+1.1425 points OOH 1% to 5%, +1.0941 points points

Additional Purchase Intent points generated full optimization

Additional Purchase Intent points generated incrementally

Automotive Purchase Intent: optimized vs incremental steps in increasing OOH% allocation



The first incremental increase from 1% to 5% generates the largest part of the optimized Purchase Intent increase

Full Optimization Incremental Optimization Additional Purchase Intent points generated from Additional Purchase Intent points generated from incremental increases in OOH optimizing OOH straight to 13% +96% Additional Purchase Intent Points 1.0941 points OOH 1% to 13%. +1.1425 points +3% +1% 0.0416 points 0.0067 points OOH 1% to 5% OOH 5% to 9% OOH 9% to 13%

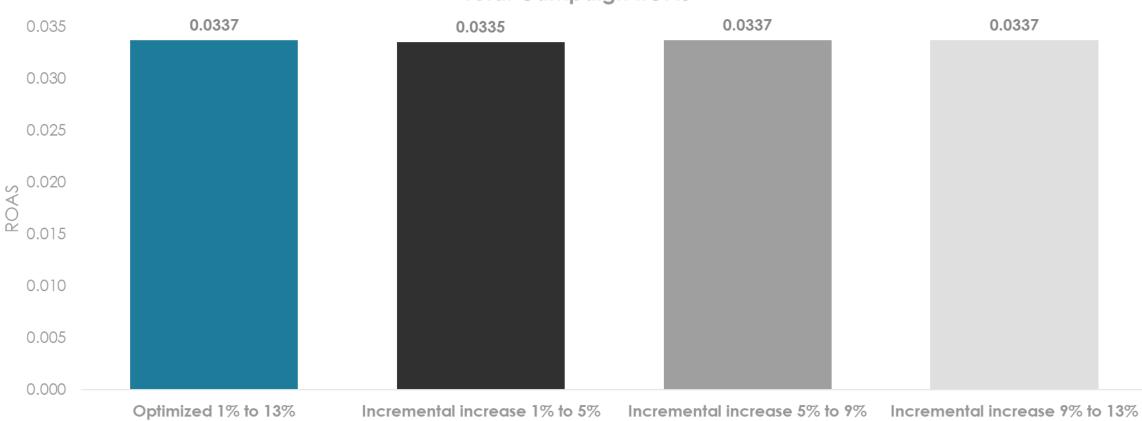
Additional Purchase Intent points generated full optimization

X% = percentage of total optimized purchase intent points generated in that step

Automotive Optimizing OOH to 13% vs Incremental increases in OOH allocation: ROAS



Optimal ROAS of 0.03 with optimal 13% OOH allocation is also achieved within the 5-9% OOH allocation



Total Campaign ROAS

CPG Food Budget Allocation: Incremental Steps on Brand Metrics

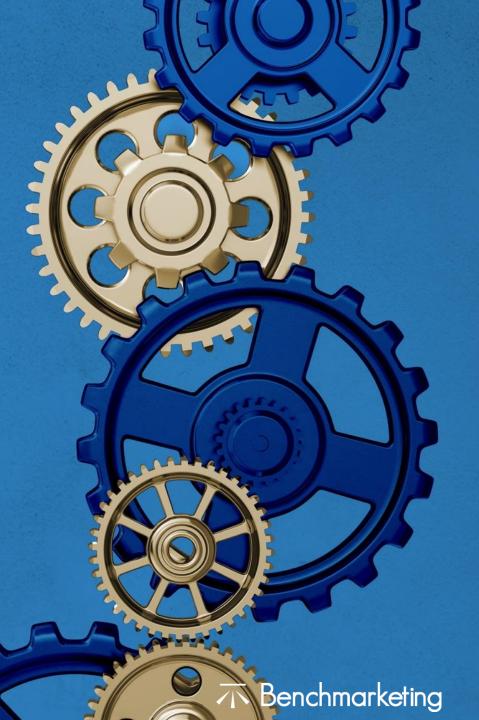
Detail Charts

- Brand Awareness
- Consideration
- Purchase Intent



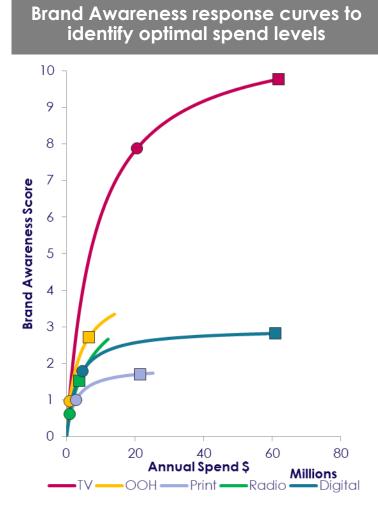
CPG Food Brand Awareness – Detail Charts

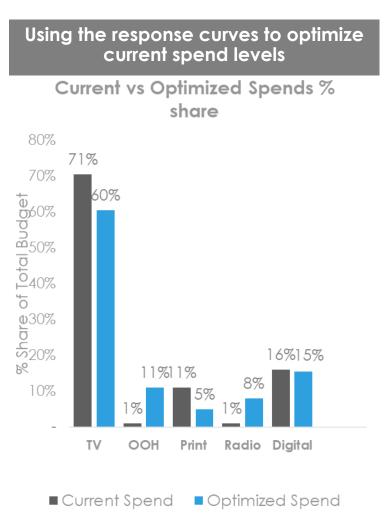




CPG Food FULL OPTIMAL OOH allocation for Brand Awareness ROAS

Increase OOH from <u>1 to 11%</u>





Recommendations and Results

Decrease TV to 60% and **upweight OOH to 11%** Also increase Radio

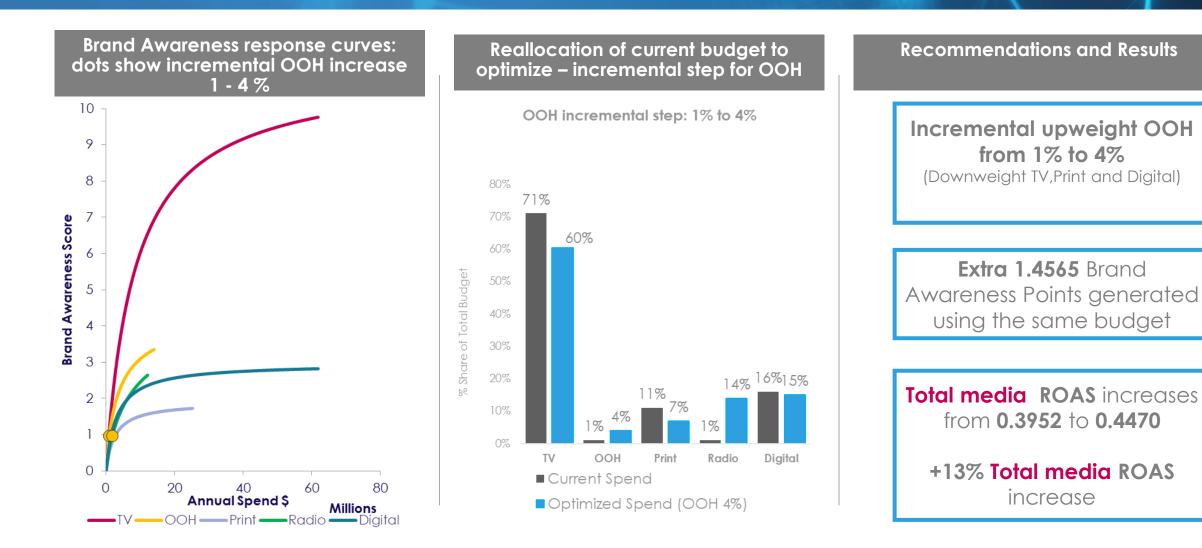
Extra 1.8626 Brand Awareness Points generated using the same budget

Total media ROAS increases from 0.3952 to 0.4614

+17% Total media ROAS increase

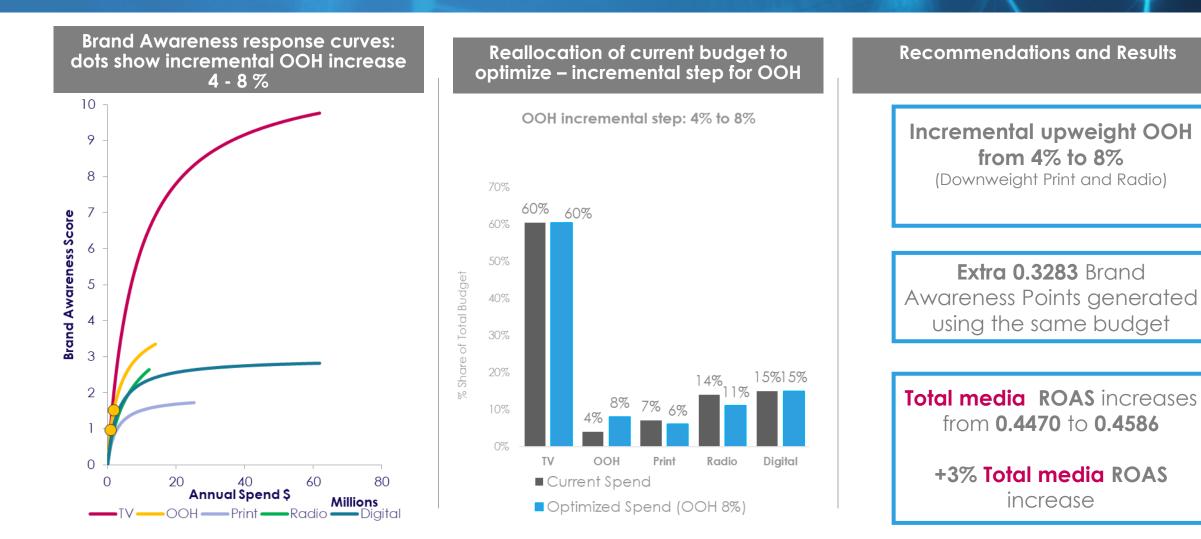
CPG FIRST INCREMENTAL OOH increase for Brand Awareness ROAS

increase OOH from <u>1% to 4%</u> (optimal OOH is 11%)



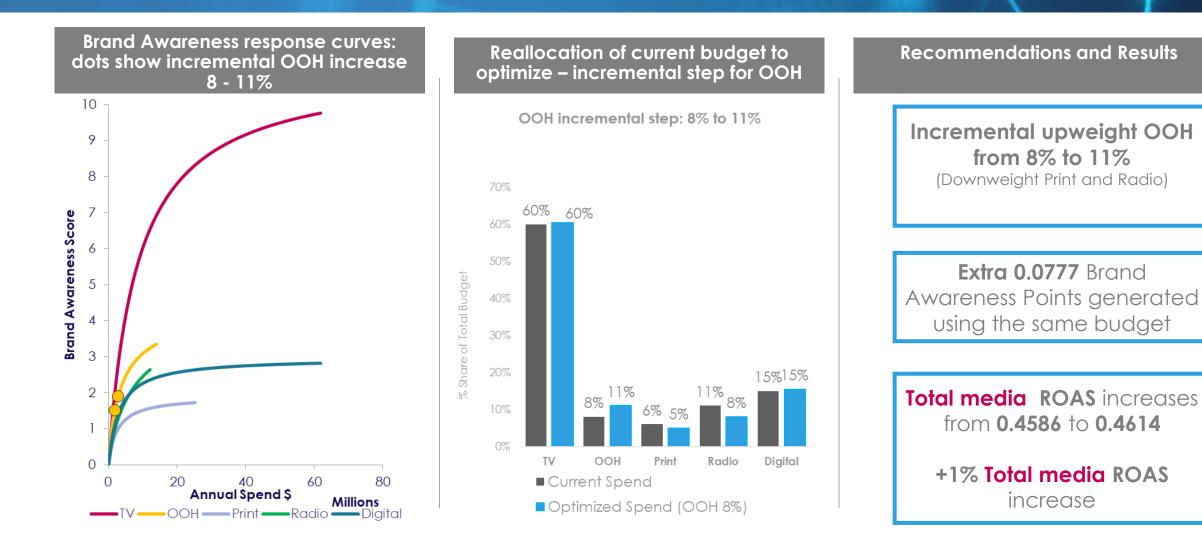
CPG <u>SECOND INCREMENTAL OOH increase</u> for Brand Awareness ROAS

Increase OOH from <u>4% to 8%</u> (optimal OOH is 11%)



CPG FINAL INCREMENTAL OOH increase for Brand Awareness ROAS

Increase OOH from <u>8% to 11%</u> (optimal OOH is 11%)



CPG Food Brand Awareness: optimized vs incremental steps in increasing OOH% allocation The first incremental increase from 1 to 4% generates the largest part of the optimized Awareness increase

Full Optimization

Additional Brand Awareness points generated from optimizing OOH straight to 11%

Incremental Optimization

Additional Brand Awareness points generated from incremental increases in OOH



Additional Brand Awareness generated full optimization

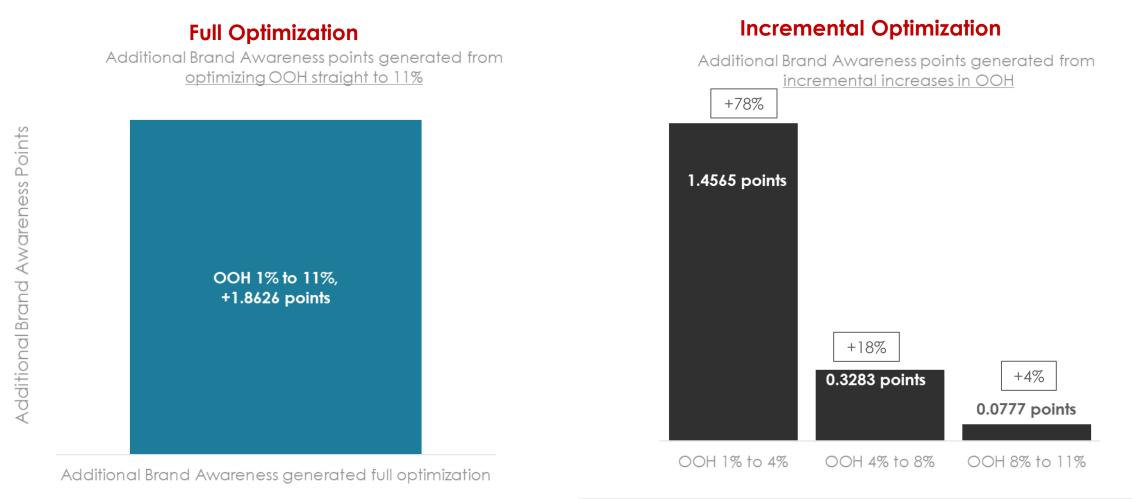
Additional Brand Awareness generated Incrementally

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CPG Food Brand Awareness: optimized vs incremental steps in increasing OOH% allocation



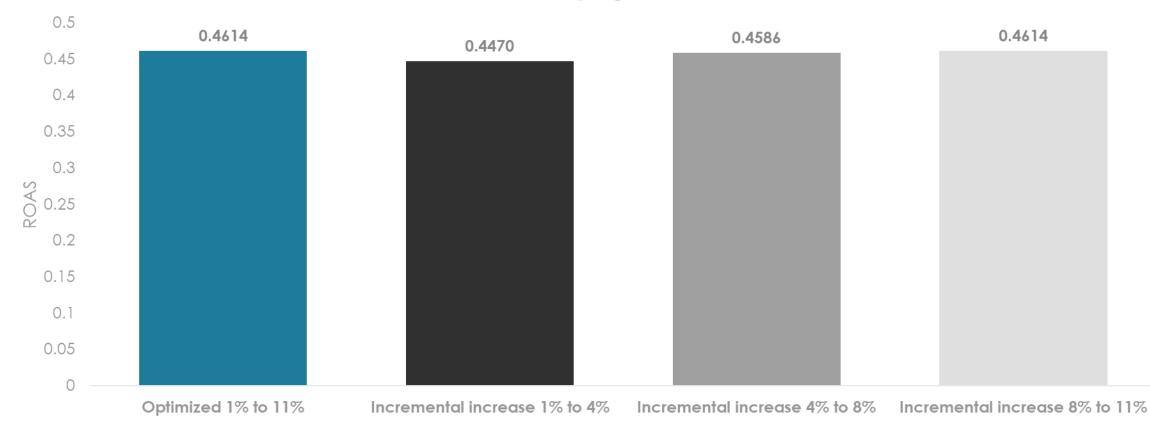
The first incremental increase from 1 to 4% generates the largest part of the total optimized Awareness increase



X% = percentage of total optimized brand awareness points generated in that step

CPG Food Optimizing OOH to 11% vs Incremental increases in OOH allocation ROAS

Optimal ROAS of 0.46 with optimal 11% OOH allocation is very nearly achieved within the 4-8% OOH allocation

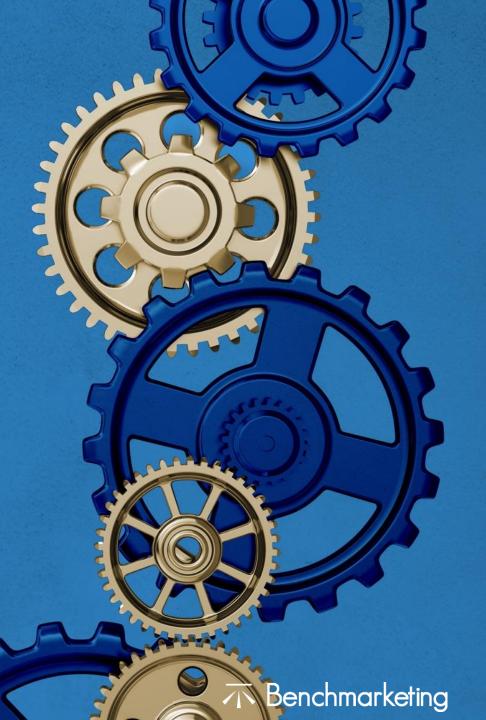


Total Campaign ROAS



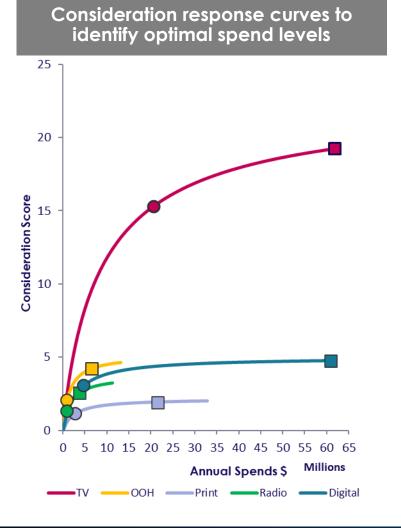
CPG Food Consideration – Detail Charts

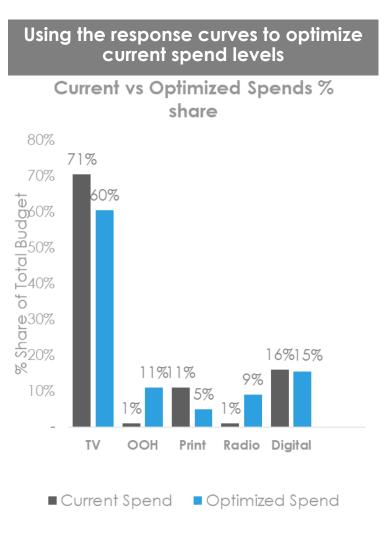




CPG Food FULL OPTIMAL OOH allocation for Consideration ROAS

Increase OOH from <u>1 to 11%</u>





Recommendations and Results

Decrease TV to 60% and **upweight OOH to 11%** Also increase Radio

Extra 3.3466 consideration points generated using the same budget

Total media ROAS increases from 0.7290 to 0.8480

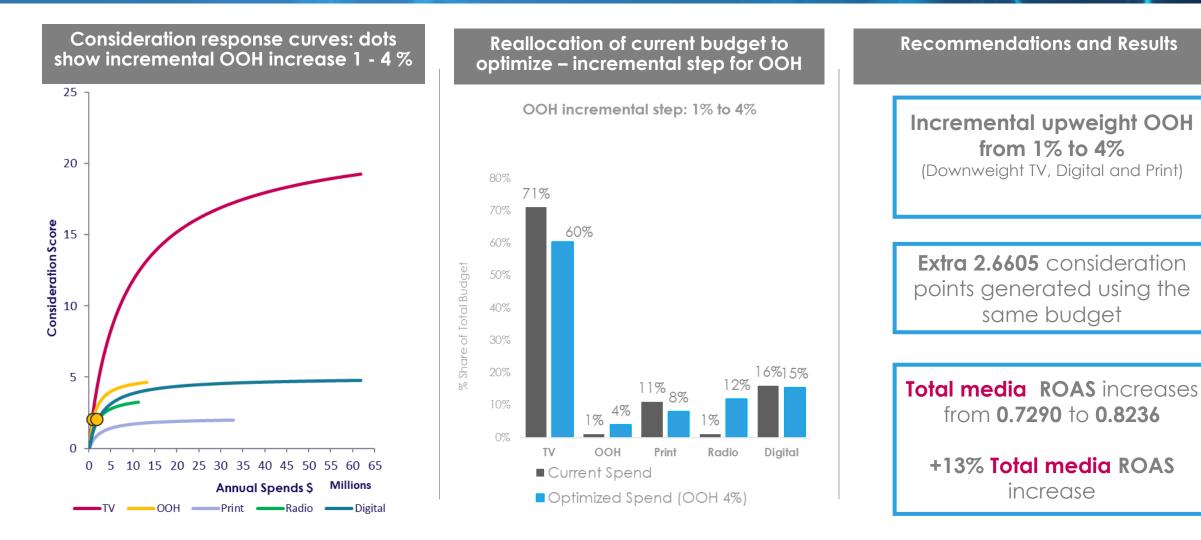
+16% Total media ROAS increase

The Benchmarketing 1 55

CPG Food FIRST INCREMENTAL OOH increase for Consideration ROAS

Increase OOH from <u>1% to 4%</u> (optimal OOH is 11%)



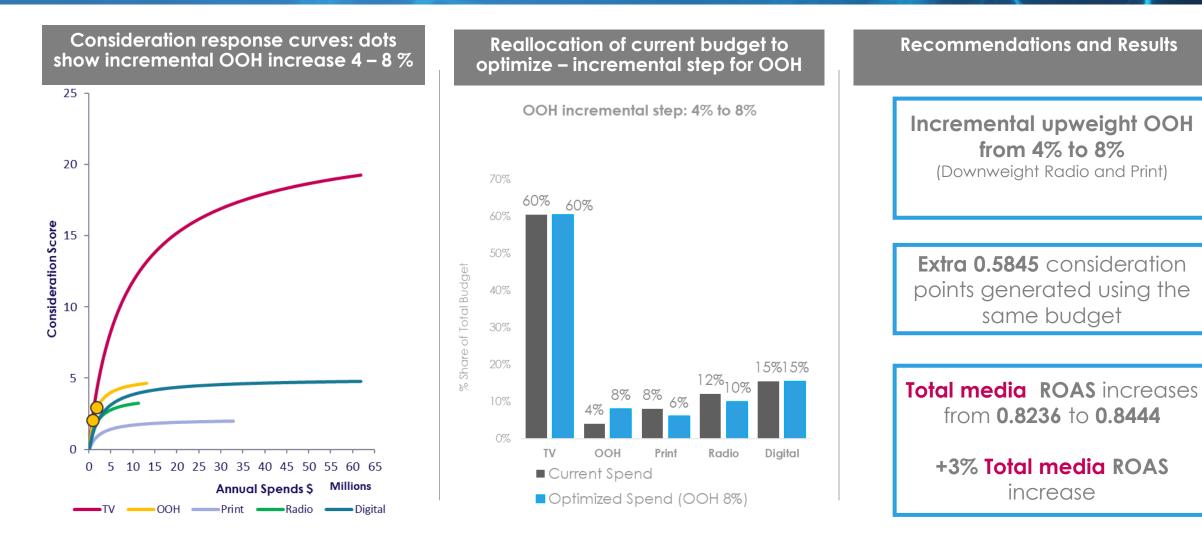


Scenario based on average brand 2022 Vivvix spend Constraints applied: minimum 60% spend has been allocated to TV, minimum 15% Digital allocation

CPG Food <u>SECOND INCREMENTAL OOH increase</u> for Consideration ROAS

Increase OOH from <u>4% to 8%</u> (optimal OOH is 11%)



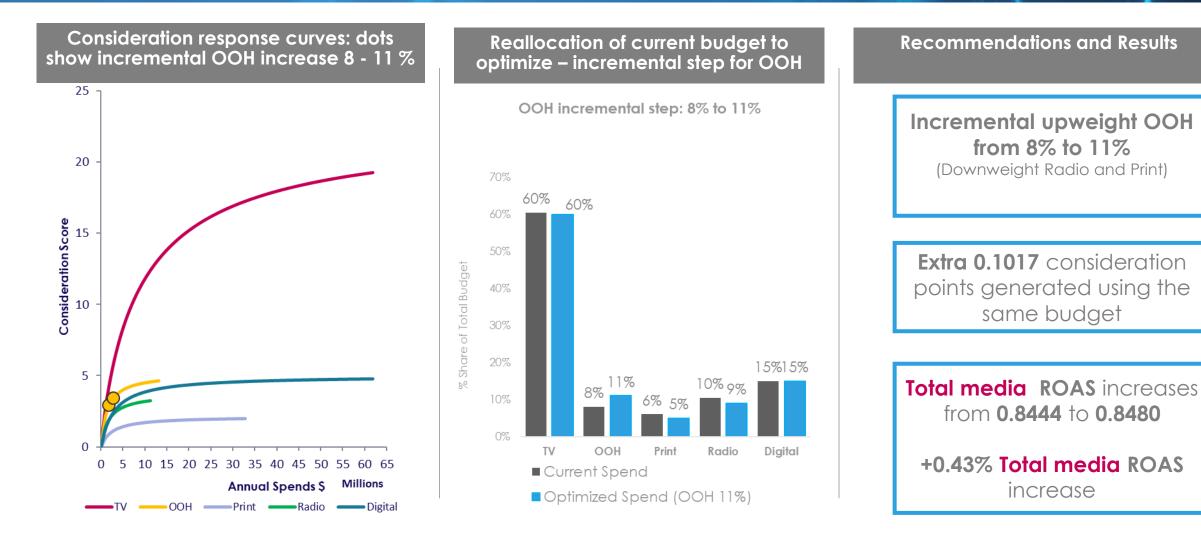


Scenario based on average brand 2022 Vivvix spend Constraints applied: minimum 60% spend has been allocated to TV, minimum 15% Digital allocation

CPG Food FINAL INCREMENTAL OOH increase for Consideration ROAS

Increase OOH from <u>8% to 11%</u> (optimal OOH is 11%)





Scenario based on average brand 2022 Vivvix spend Constraints applied: minimum 60% spend has been allocated to TV, minimum 15% Digital allocation

CPG Food Consideration: optimized vs incremental steps in increasing OOH% allocation



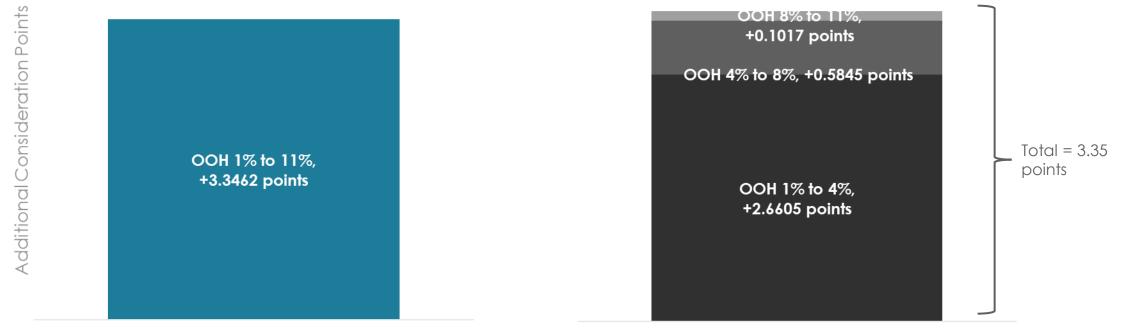
The first incremental increase from 1 to 4% generates the largest part of the total Consideration increase

Full Optimization

Additional Consideration points generated from optimizing OOH straight to 11%

Incremental Optimization

Additional Consideration points generated from incremental increases in OOH



Additional Consideration generated full optimization

Additional Consideration generated Incrementally

The Benchmarketing 1 59

CPG Food Consideration: optimized vs incremental steps in increasing OOH% allocation



The first incremental increase from 1 to 4% generates the largest part of the optimized Consideration increase

Incremental Optimization Full Optimization Additional Consideration points generated from Additional Consideration points generated from incremental increases in OOH optimizing OOH straight to 11% +80% Additional Consideration Points +2.6605 points OOH 1% to 11%, +3.3462 points +17% +0.5845 points +0.1017 points OOH 1% to 4% OOH 4% to 8% OOH 8% to 11%

X% = percentage of total optimized consideration points generated in that step

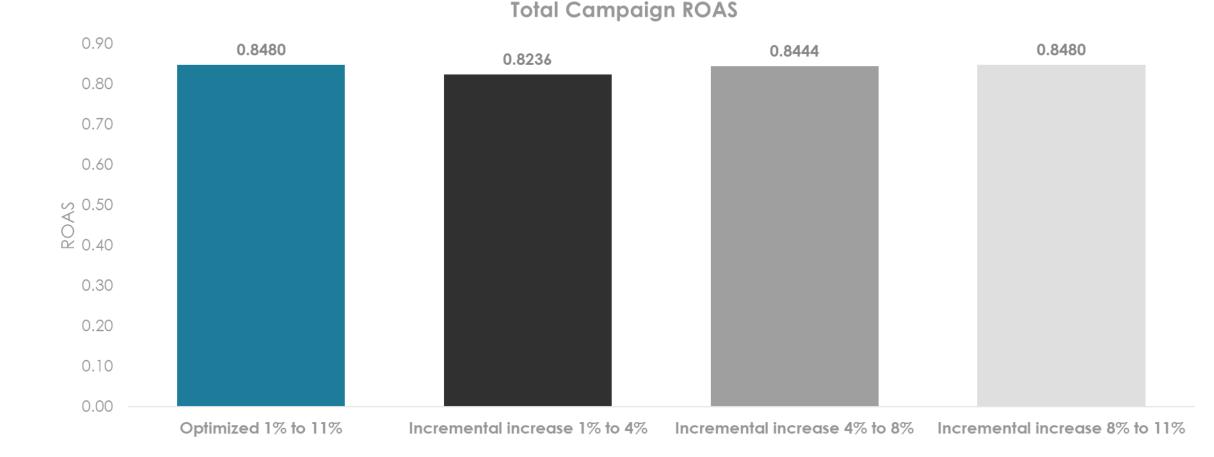
+3%

Additional Consideration generated full optimization

CPG Food Optimizing OOH to 11% vs Incremental increases in OOH allocation ROAS



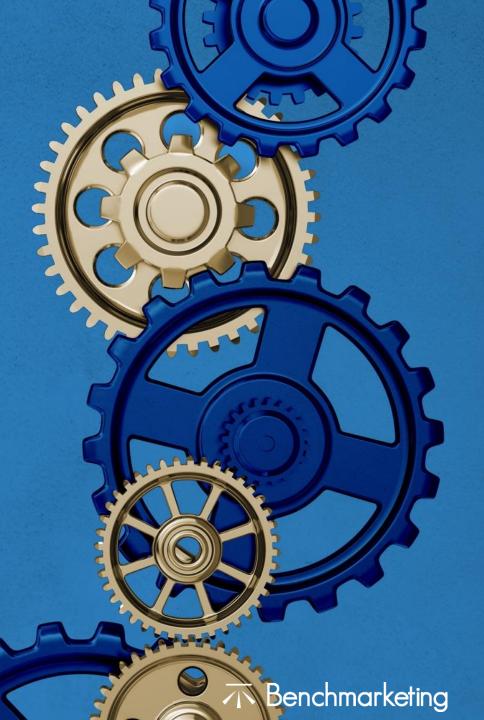
Optimal ROAS of 0.85 with optimal 11% OOH allocation is also nearly achieved within the 4-8% OOH allocation





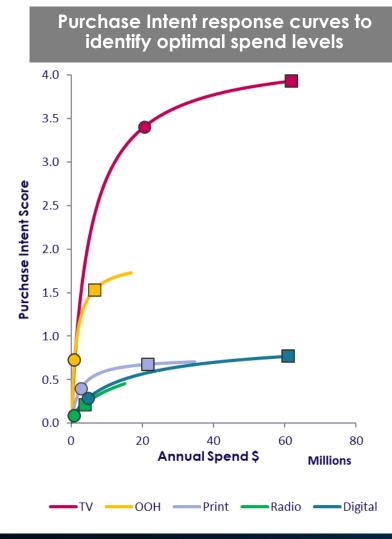
CPG Food Purchase Intent – Detail Charts

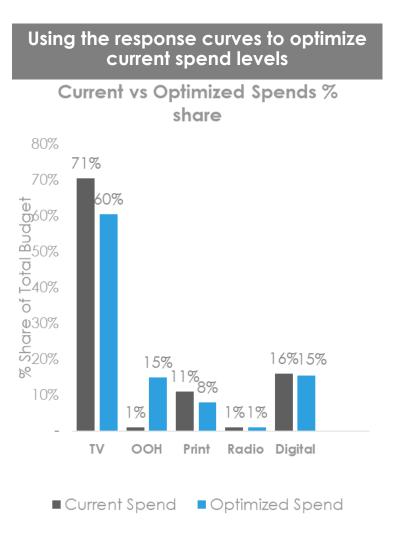




CPG Food FULL OPTIMAL OOH allocation for Purchase Intent ROAS

Increase OOH from <u>1 to 15%</u>





Recommendations and Results

Decrease TV to 60% and **Upweight OOH to 15%** Decrease Print and Digital

Extra 1.0210 Purchase Intent points generated using the same budget

Total media ROAS increases from 0.1536 to 0.1899

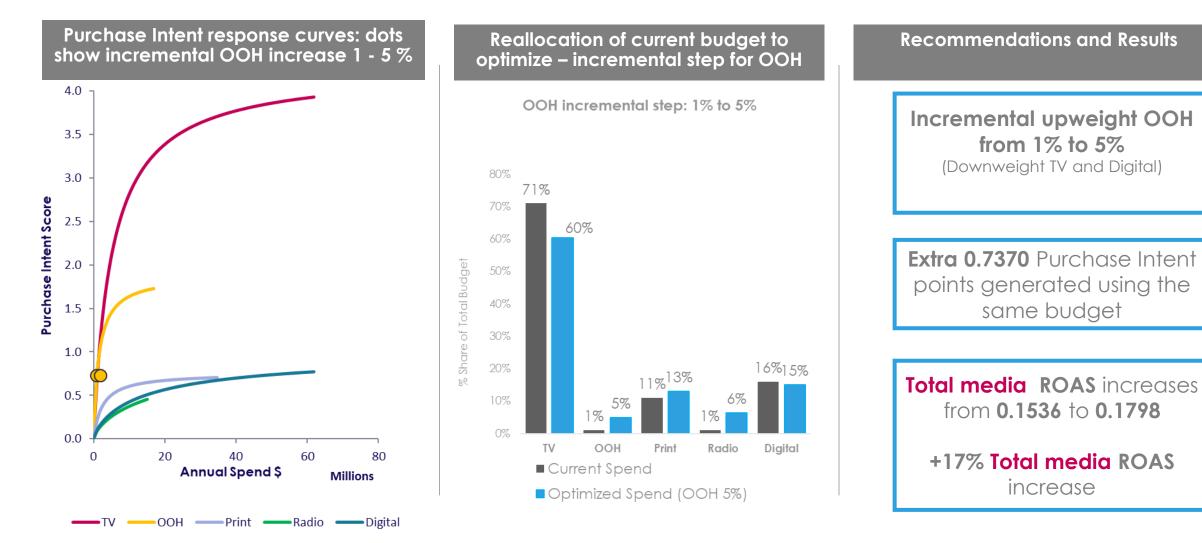
+24% Total media ROAS increase

Constraints applied: minimum 60% spend has been allocated to TV and minimum 15% Digital allocation

CPG FIRST INCREMENTAL OOH increase for Purchase Intent ROAS

Increase OOH from <u>1% to 5%</u> (optimal OOH is 15%)

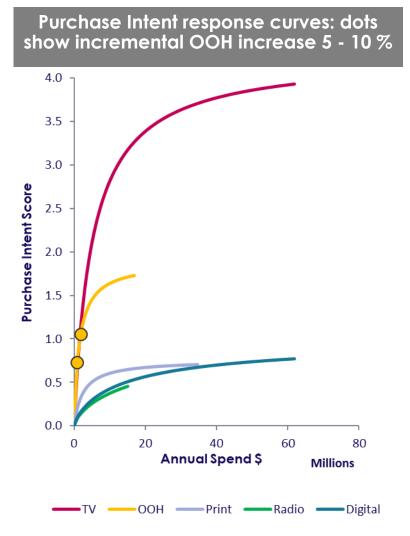




Scenario based on average brand 2022 Vivvix spend Constraints applied: minimum 60% spend has been allocated to TV, minimum 15% Digital allocation

CPG SECOND INCREMENTAL OOH increase for Purchase Intent ROAS

Increase OOH from <u>5% to 10%</u> (optimal OOH is 15%)



optimize – incremental step for OOH OOH incremental step: 5% to 10% 70% 60% 60% 60% 50% Total Budget 40% 30% Share of 1 20% 15%15% ^{13%}11% 10% 20 10% 5% 0% OOH TV Print Radio Digital Current Spend Optimized Spend (OOH 10%)

Reallocation of current budget to

Recommendations and Results

Incremental upweight OOH from 5% to 10% (Downweight Print and Radio)

Extra 0.2331 Purchase Intent points generated using the same budget

Total media ROAS increases from 0.1798 to 0.1881

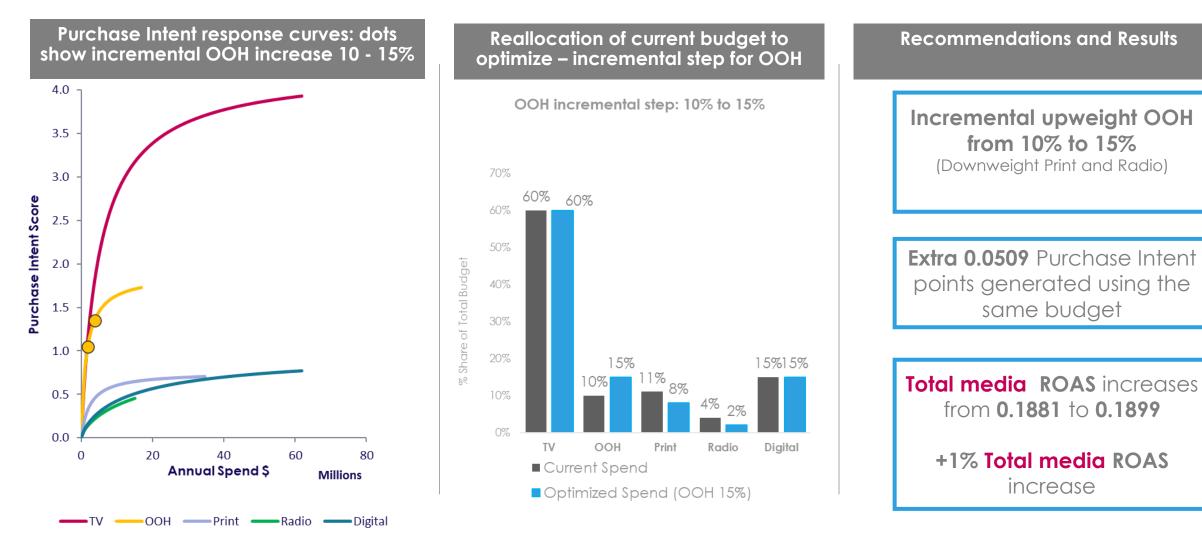
+5% Total media ROAS increase

Scenario based on average brand 2022 Vivvix spend Constraints applied: minimum 60% spend has been allocated to TV, minimum 15% Digital allocation

CPG FINAL INCREMENTAL OOH increase for Purchase Intent ROAS

Increase OOH from 10% to 15% (optimal OOH is 15%)





Scenario based on average brand 2022 Vivvix spend Constraints applied: minimum 60% spend has been allocated to TV, minimum 15% Digital allocation

The Benchmarketing 1 66

CPG Food Purchase Intent: optimized vs incremental steps in increasing OOH% allocation



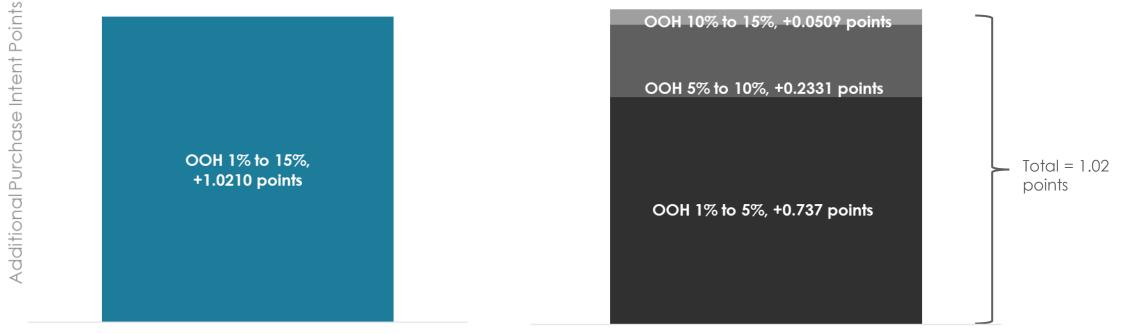
The first incremental increase from 1 to 5% generates the largest part of the optimized Purchase Intent increase

Full Optimization

Additional Purchase Intent points generated from <u>optimizing OOH straight to 15%</u>

Incremental Optimization

Additional Purchase Intent points generated from incremental increases in OOH



Additional Purchase Intent generated full optimization

Additional Purchase Intent generated Incrementally

The Benchmarketing 1 67

CPG Food Purchase Intent: optimized vs incremental steps in increasing OOH% allocation



The first incremental increase from 1 to 5% generates the largest part of the optimized Purchase Intent increase

Full Optimization Additional Purchase Intent points generated from optimizing OOH straight to 15%

Additional Purchase Intent Points +0.737 points OOH 1% to 15%. +23% +1.0210 points +0.2331 points +5% +0.0509 points OOH 1% to 5% OOH 5% to 10% OOH 10% to 15% Additional Purchase Intent generated full optimization

X% = percentage of total optimized purchase intent points generated in that step

Incremental Optimization

+72%

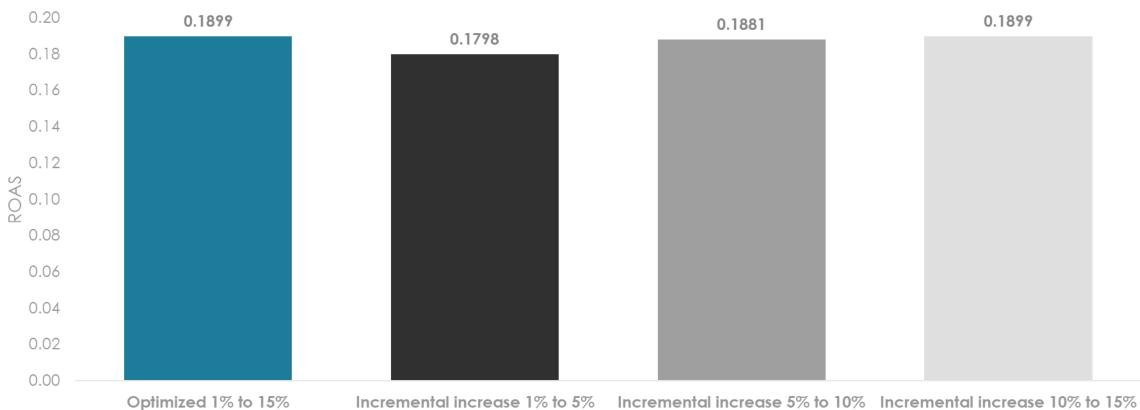
Additional Purchase Intent points generated from

incremental increases in OOH

CPG Food Optimizing OOH to 15% vs Incremental increases in OOH allocation ROAS



Optimal ROAS of 0.19 with optimal 15% OOH allocation is also achieved within the 5-10% OOH allocation



Total Campaign ROAS



Retail Grocery Budget Allocation: Incremental Steps on Brand Metrics

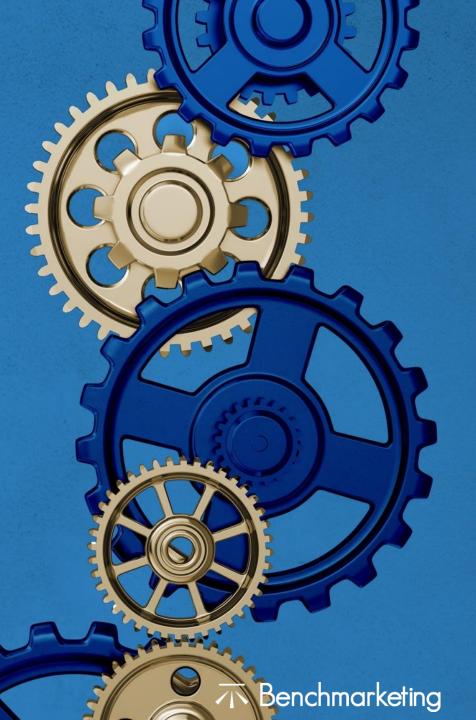
Detail Charts

- Brand Awareness
- Consideration
- Purchase Intent



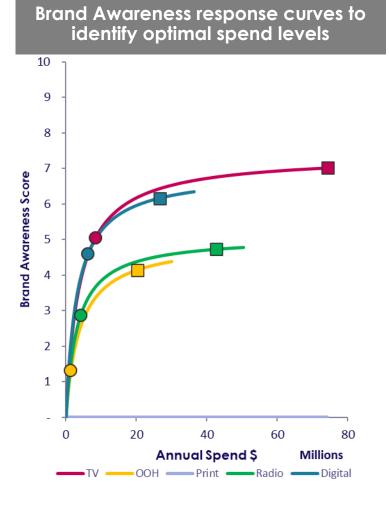
Retail Grocery Brand Awareness – Detail Charts

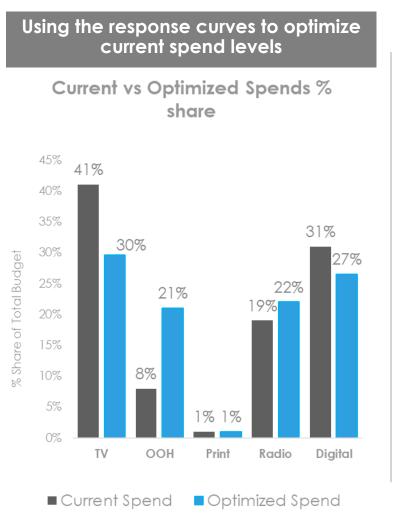




Retail Grocery <u>FULL OPTIMAL OOH allocation</u> for Brand Awareness ROAS

Increase OOH from <u>8 to 21%</u>





Recommendations and Results

Decrease TV to 30% and Digital to 27% Upweight OOH to 21%

Extra **0.5189** Brand Awareness points generated using the same budget

Total media ROAS increases from 0.6667 to 0.6914

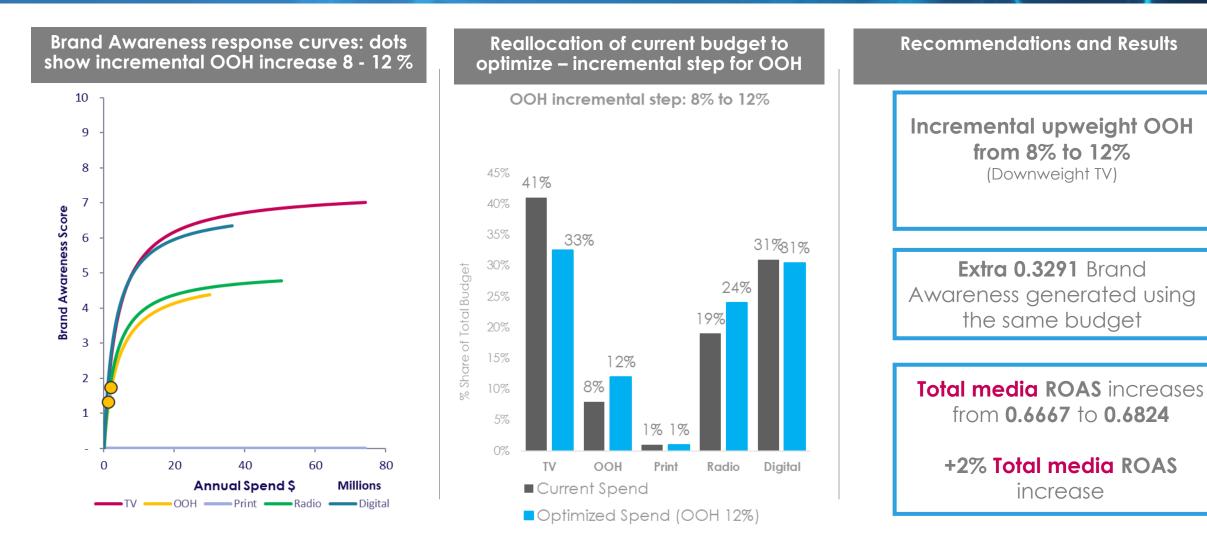
+4% Total media ROAS increase

The Benchmarketing 172

Vivvix spend Scenario based on average brand 2022 Constraints applied: minimum 1% spend has been allocated to Print

Retail Grocery FIRST INCREMENTAL OOH increase for Brand Awareness ROAS

Increase OOH from <u>8% to 12%</u> (optimal OOH is 21%)

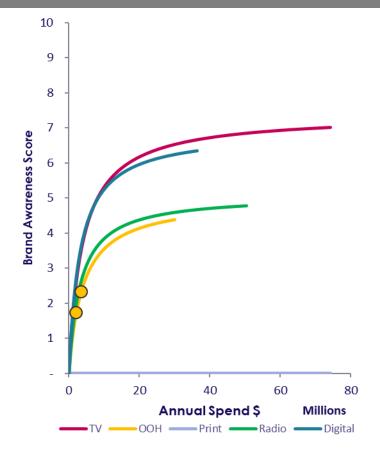


Vivvix spend Scenario based on average brand 2022 Constraints applied: minimum 1% spend has been allocated to Print

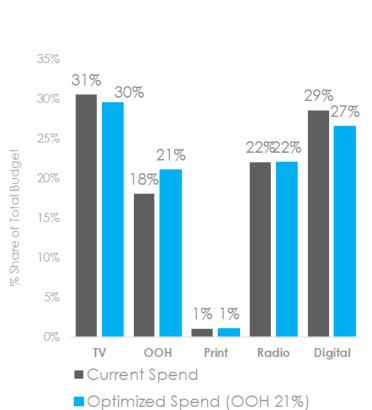
Retail Grocery <u>SECONDARY INCREMENTAL OOH increase</u> for Brand Awareness ROAS

Increase OOH from <u>12% to 18%</u> (optimal OOH is 21%)





Reallocation of current budget to optimize – incremental step for OOH



OOH incremental step: 18% to 21%

Recommendations and Results

Incremental upweight OOH from 12% to 18% (Downweight TV, Radio and Digital)

Extra 0.1700 Brand Awareness generated using the same budget

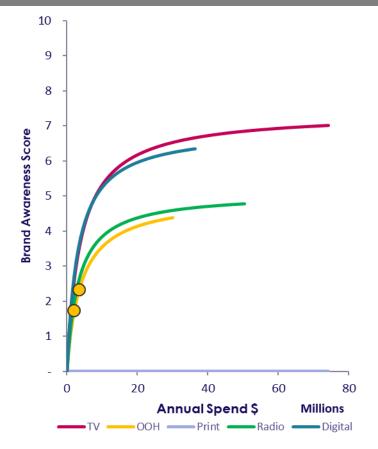
Total media ROAS increases from 0.6824 to 0.6905

+1% Total media ROAS increase

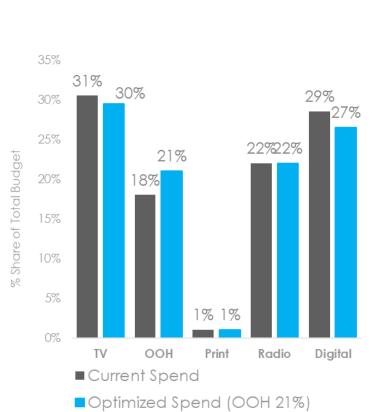
Retail Grocery FINAL INCREMENTAL OOH increase for Brand Awareness ROAS

Increase OOH from <u>18% to 21%</u> (optimal OOH is 21%)





Reallocation of current budget to optimize – incremental step for OOH



OOH incremental step: 18% to 21%

Recommendations and Results

Incremental upweight OOH from 18% to 21% (Downweight TV and Digital)

Extra 0.0198 Brand Awareness generated using the same budget

Total media ROAS increases from 0.6905 to 0.6914

+0.14% Total media ROAS increase

Retail Grocery Brand Awareness: optimized vs incremental steps in increasing OOH% allocation



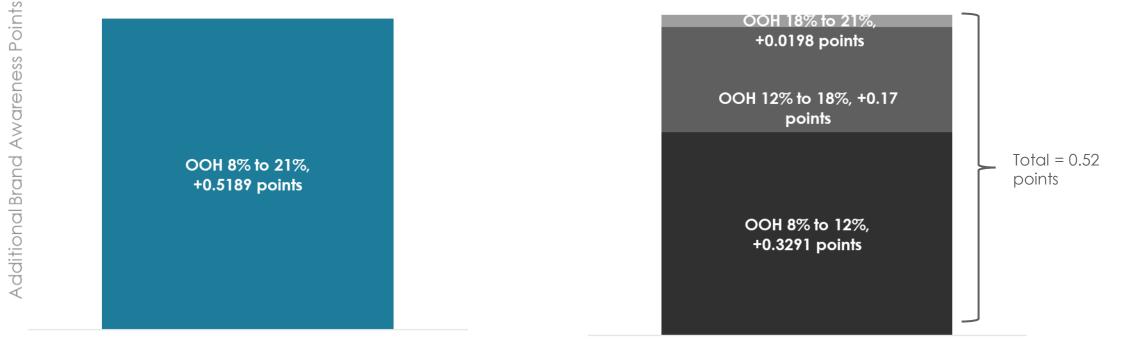
The first incremental increase from 8 to 12% generates the largest part of the optimized Awareness increase

Full Optimization

Additional Brand Awareness points generated from optimizing OOH straight to 21%

Incremental Optimization

Additional Brand Awareness points generated from incremental increases in OOH



Additional Brand Awareness generated Incrementally

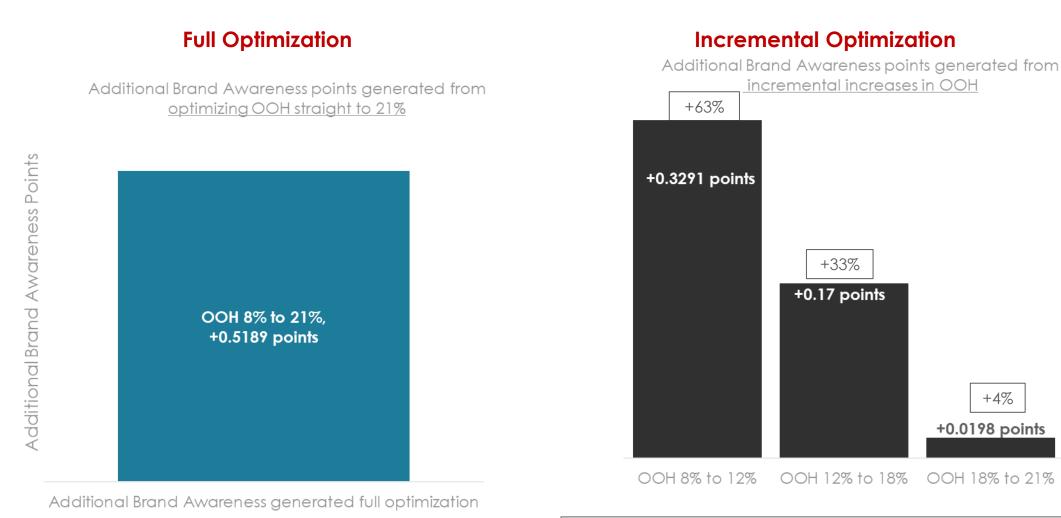
Additional Brand Awareness generated full optimization

Retail Grocery Brand Awareness: optimized vs incremental steps in increasing OOH % allocation



The Benchmarketing 177

The first incremental increase from 8 to 12% generates the largest part of the optimized Awareness increase



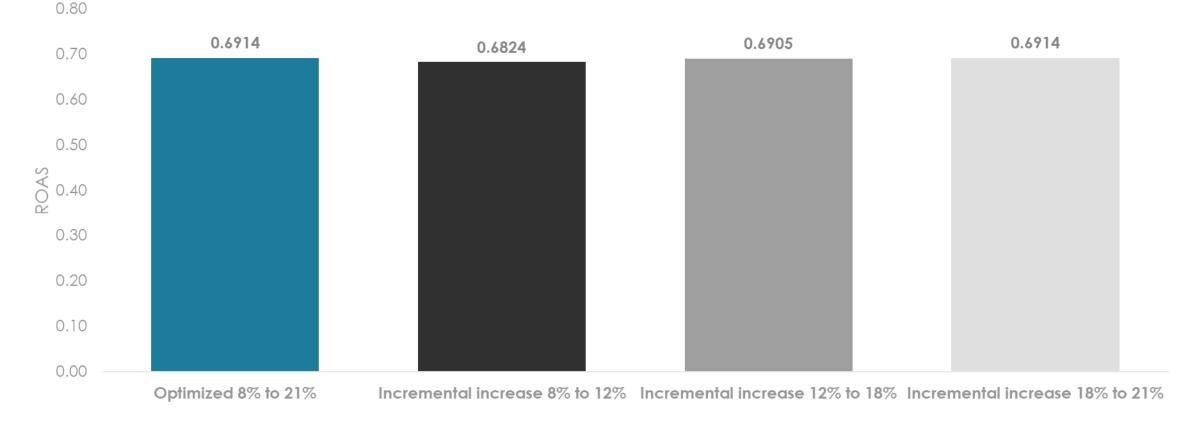
X% = percentage of total optimized Awareness points generated in that step

Retail Grocery Optimizing OOH to 21% vs Incremental increases in OOH allocation ROAS



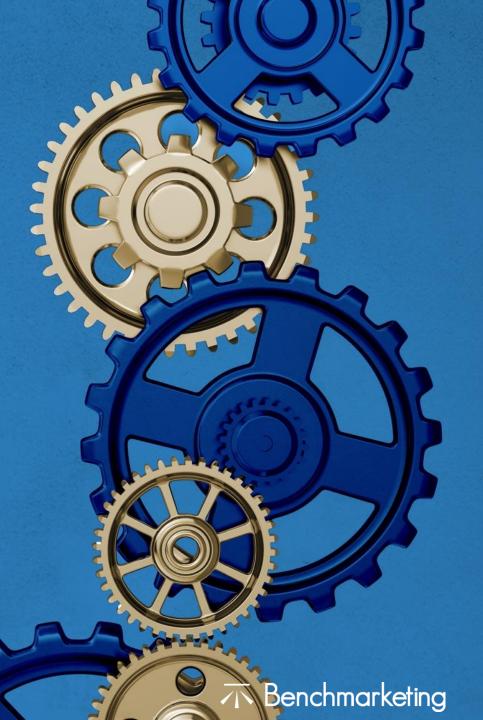
Optimal ROAS of 0.69 with optimal 21% OOH allocation is also achieved within the 12-18% OOH allocation

Total Campaign ROAS



Retail Grocery Consideration – Detail Charts

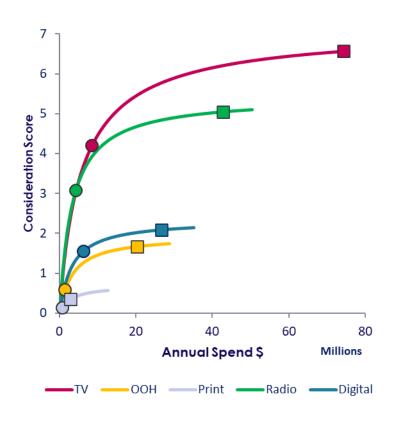




Retail Grocery <u>FULL OPTIMAL OOH allocation</u> for Consideration ROAS

Increase OOH from <u>8 to 11%</u>

Consideration response curves to identify optimal spend levels



current spend levels Current vs Optimized Spends % share 45% 41% 40% 36% 35% 31% 28% 30% Total Budget 25% 25% 19% 20% Share of 15% 11% 8% 10% 5% 5% 1% 1% 0% Digital TV OOH Radio Print

Using the response curves to optimize

Current Spend Optimized Spend

Recommendations and Results

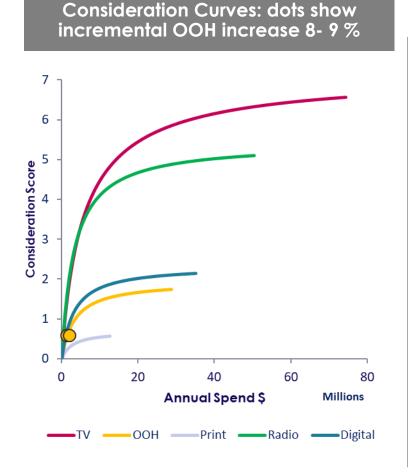
Decrease TV to 36% and Digital to 25% and **upweight OOH to 11%**

Extra **0.2732** Consideration points generated using the same budget

Total media ROAS increases from 0.4529 to 0.4658 +3% Total media ROAS increase

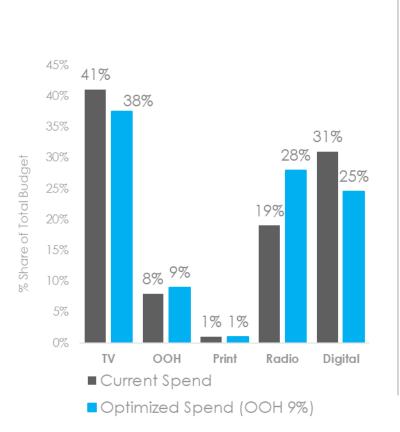
Retail Grocery FIRST INCREMENTAL OOH increase for Consideration ROAS

Increase OOH from <u>8% to 9%</u> (optimal OOH is 11%)



Reallocation of current budget to optimize – incremental step for OOH

OOH incremental step: 8% to 9%



Recommendations and Results

Incremental upweight OOH from 8% to 9% (Downweight TV and Digital)

Extra 0.2697 Consideration points generated using the same budget

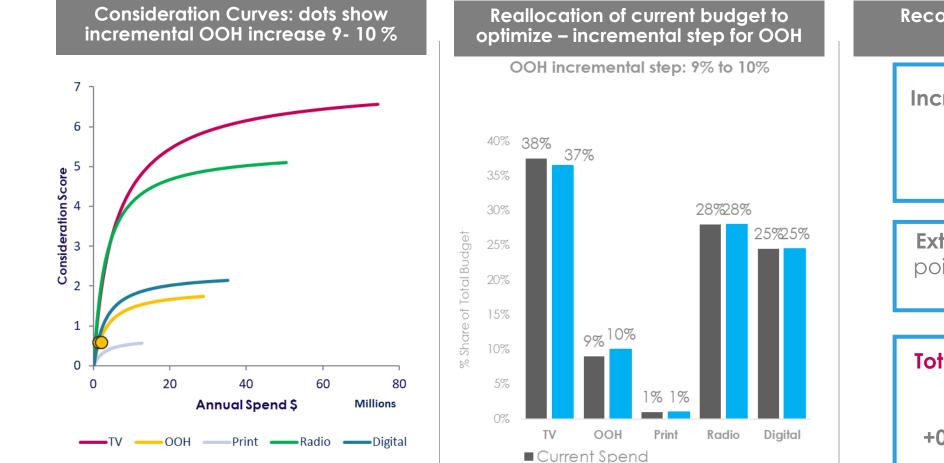
Total media ROAS increases from 0.4529 to 0.4657

+3% Total media ROAS increase

Retail Grocery <u>SECOND INCREMENTAL OOH increase</u> for Consideration ROAS

Increase OOH from <u>9% to 10%</u> (optimal OOH is 11%)





■ Optimized Spend (OOH 10%)

Recommendations and Results

Incremental upweight OOH from 9% to 10% (Downweight TV)

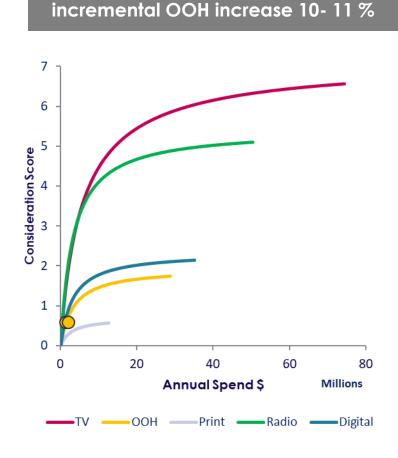
Extra 0.0032 Consideration points generated using the same budget

Total media ROAS increases from 0.4657 to 0.4658

+0.032% Total media ROAS increase

Retail Grocery FINAL INCREMENTAL OOH increase for Consideration ROAS

Increase OOH from <u>10% to 11%</u> (optimal OOH is 11%)



Consideration Curves: dots show

optimize – incremental step for OOH OOH incremental step: 10% to 11% 40% 37% 36% 28%28% 30% 25%25% Total Budget 25% 20% ð 15% 10%^{11%} Share (10% 50 5% 0% Digital TV OOH Radio Print Current Spend Optimized Spend (OOH 11%)

Reallocation of current budget to

Recommendations and Results

Incremental upweight OOH from 10% to 11% (Downweight TV)

Extra 0.00034 Consideration points generated using the same budget

Total media ROAS increases from 0.46587 to 0.46589

+0.0034% Total media ROAS increase

Retail Grocery Consideration: optimized vs incremental steps in increasing OOH% allocation



The first incremental increase from 8 to 9% generates the largest part of the total optimized income increase

Full Optimization

Additional Consideration points generated from optimizing OOH straight to 11%

Additional Consideration Points

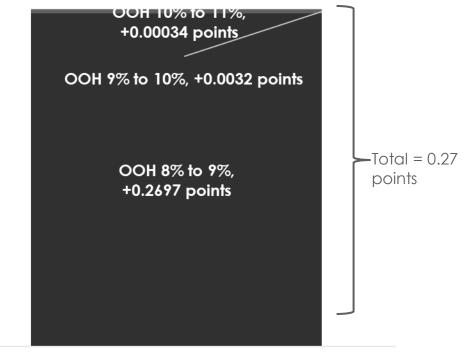
Additional Consideration generated full optimization

OOH 8% to 11%,

+0.2732 points

Incremental Optimization

Additional Consideration generated from incremental increases in OOH

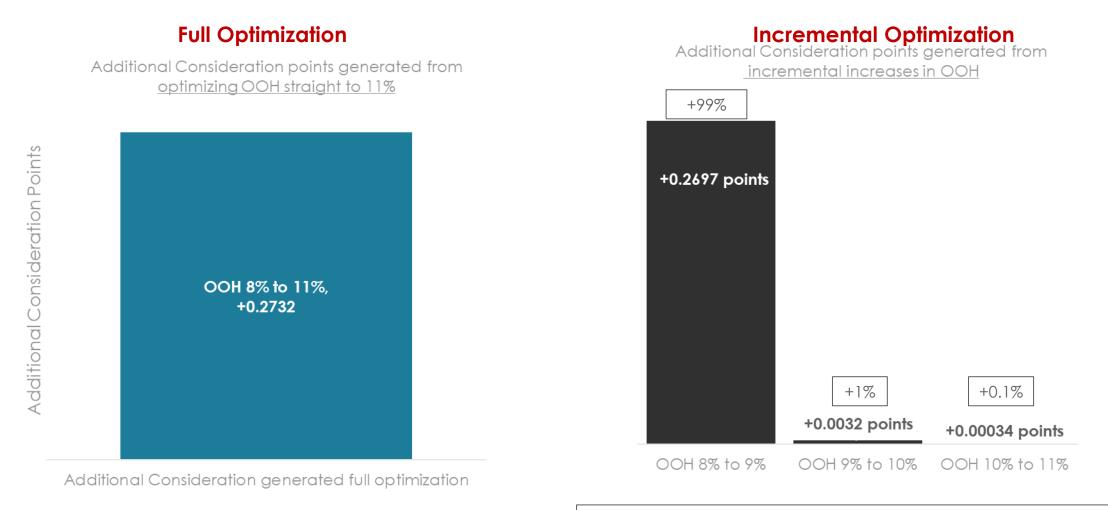


Additional Consideration generated Incrementally

Retail Grocery Consideration: optimized vs incremental steps in increasing OOH% allocation



The first incremental increase from 8 to 9% generates the largest part of the optimized Consideration increase

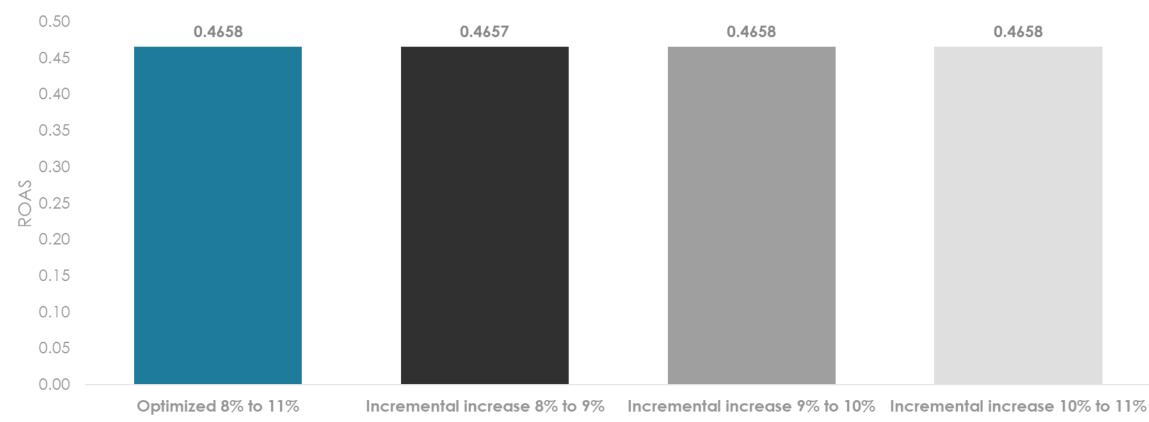


X% = percentage of total optimized Consideration points generated in that step

Retail Grocery Optimizing OOH to 11% vs Incremental increases in OOH allocation ROAS



Optimal ROAS of 0.4658 with optimal 11% OOH allocation is also achieved within the 9-10% OOH allocation

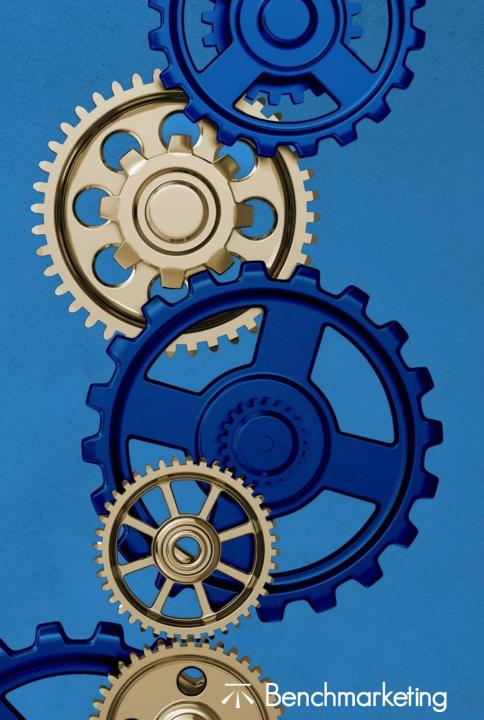


Total Campaign ROAS



Retail Grocery Purchase Intent – Detail Charts

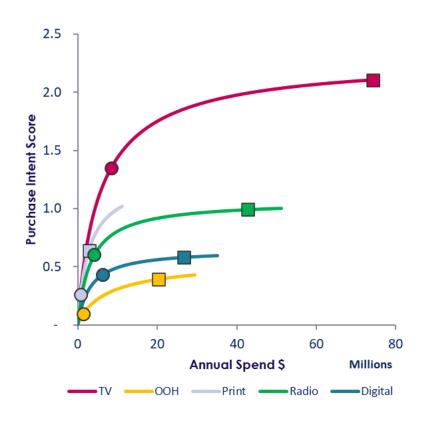




Retail Grocery FULL OPTIMAL OOH allocation for Purchase Intent ROAS

Increase OOH from <u>8 to 10%</u>

Purchase Intent response curves to identify optimal spend levels



current spend levels Current vs Optimized Spends % share 45% 41% 41% 40% 35% 31% 30% Total Budget 25% 25% 19%20% 20% Share of 15% 10% 8% 10% 5% 5% 5% 0% Digital TV OOH Radio Print Current Spend Optimized Spend

Using the response curves to optimize

Recommendations and Results

Decrease Digital to 25% and **upweight OOH to 10%**

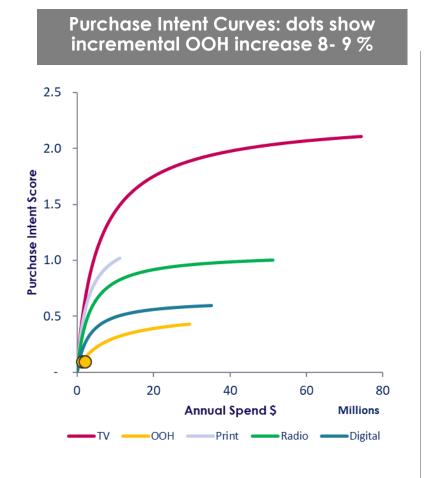
Extra **0.2297** Purchase Intent points generated using the same budget

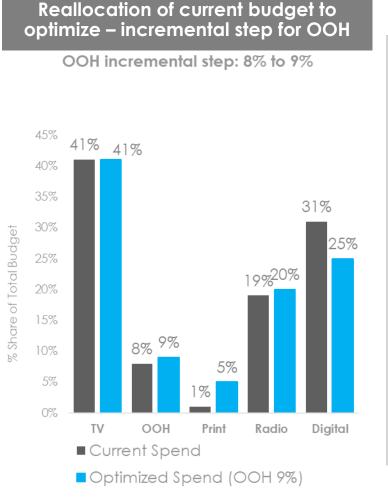
Total media ROAS increases from 0.1243 to 0.1352

+9% Total media ROAS increase

Retail Grocery FIRST INCREMENTAL OOH increase for Purchase Intent ROAS

Increase OOH from <u>8% to 9%</u> (optimal OOH is 10%)





Recommendations and Results

Incremental upweight OOH from 8% to 9% (Downweight Digital)

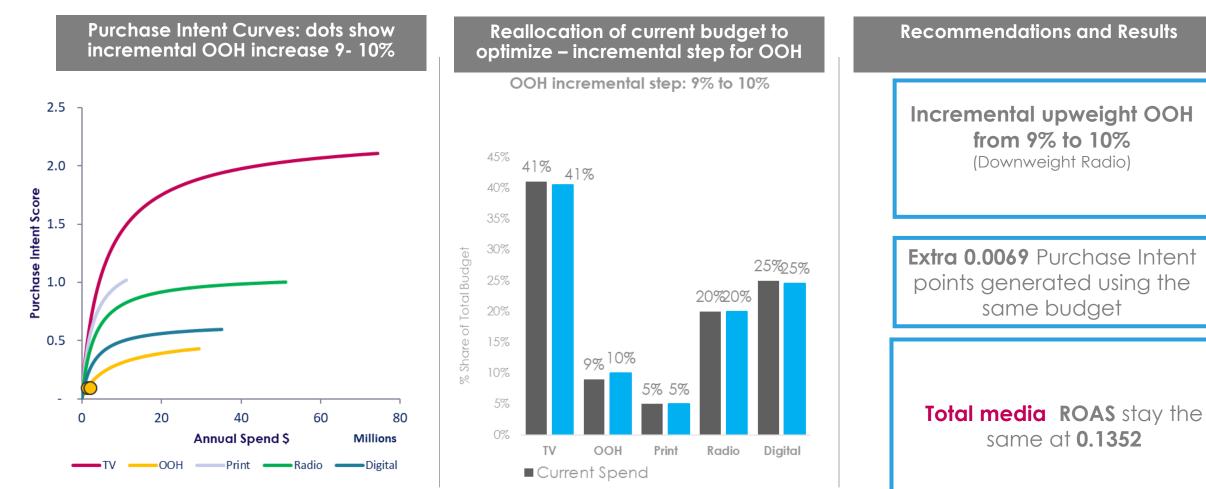
Extra 0.2228 Purchase Intent points generated using the same budget

Total media ROAS increases from 0.1243 to 0.1359

+9% Total media ROAS increase

Retail Grocery FINAL INCREMENTAL OOH increase for Purchase Intent ROAS

Increase OOH from <u>9% to 10%</u> (optimal OOH is 10%)



■ Optimized Spend (OOH 10%)

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Vivvix spend Scenario based on average brand 2022 Constraints applied: Retail Grocery maximums TV 41%, Print 5%, Radio 20%, and minimum of 25% for Digital Retail Grocery Purchase Intent: optimized vs incremental steps in increasing OOH% allocation

The first incremental increase from 8 to 9% generates the largest part of the optimized Purchase Intent increase

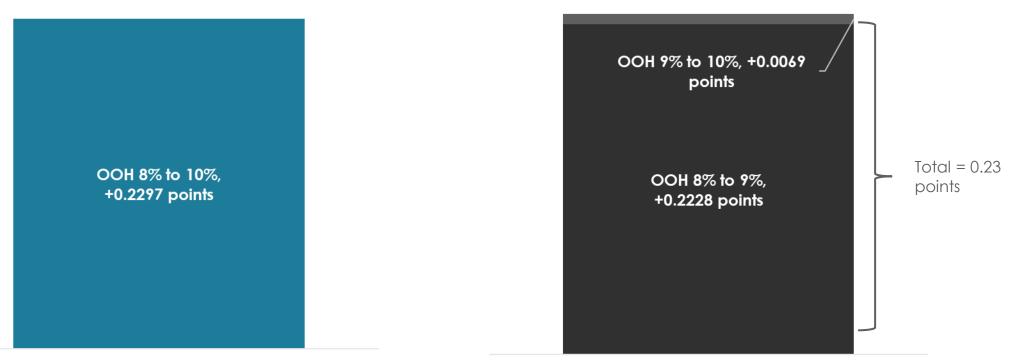
Full Optimization

Additional Purchase Intent Points

Additional Purchase Intent points generated from optimizing OOH straight to 10%

Incremental Optimization

Additional Purchase Intent points generated from incremental increases in OOH



Additional Purchase Intent generated full optimization

Additional Purchase Intent generated Incrementally

Retail Grocery Purchase Intent: optimized vs incremental steps in increasing OOH% allocation

The first incremental increase from 8 to 9% generates the largest part of the optimized Purchase Intent increase

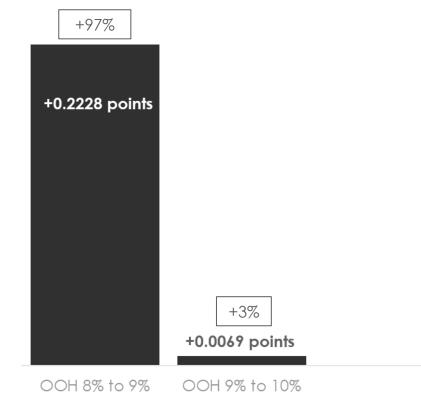
Full Optimization Additional Purchase Intent points generated from optimizing OOH straight to 10%



Additional Purchase Intent generated full optimization

Incremental Optimization

Additional Purchase Intent points generated from incremental increases in OOH

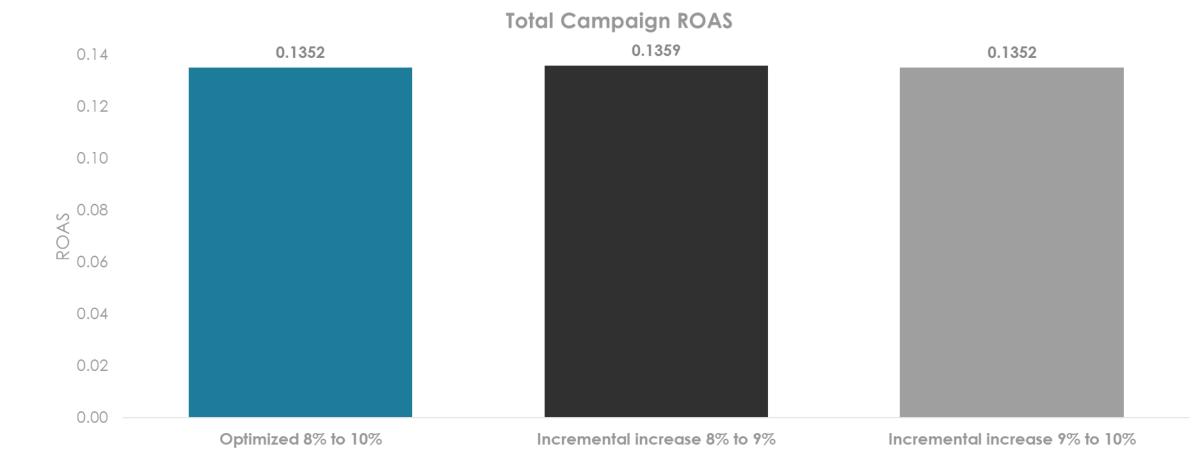


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Retail Grocery Optimizing OOH to 10% vs Incremental increases in OOH allocation ROAS



Optimal ROAS with optimal 10% OOH allocation is also achieved within the 8-9% OOH allocation



- Benchmarketing | 93





2022 Average Spend for all categories by channel

Automotive category has the highest spend

Channel	Automotive Average Annual Spend per brand 2022 \$m	CPG Food Average Annual Spend per brand 2022 \$m	Retail Grocery Average Annual Spend per brand 2022 \$m
TV	153.58	20.07	8.54
ООН	2.57	0.17	1.65
Print	2.32	3.20	0.30
Radio	4.63	0.29	4.03
Digital	49.04	4.39	6.51
TOTAL	212.14	28.12	21.03

Optimising Brand Awareness ROAS – OOH spend ranges current vs optimized

By category, for Small vs Medium vs Large Brands

Current OOH spend range:

OOH Spend Range current \$m	Small	Medium	Large	Spend range current
Automotive	1.00	0.58	6.53	\$0.58m to \$6.53m
CPG Food	0.06	0.02	0.42	\$0.02m to \$0.42m
Retail Grocery	0.31	0.61	4.04	\$0.31m to \$4.04m

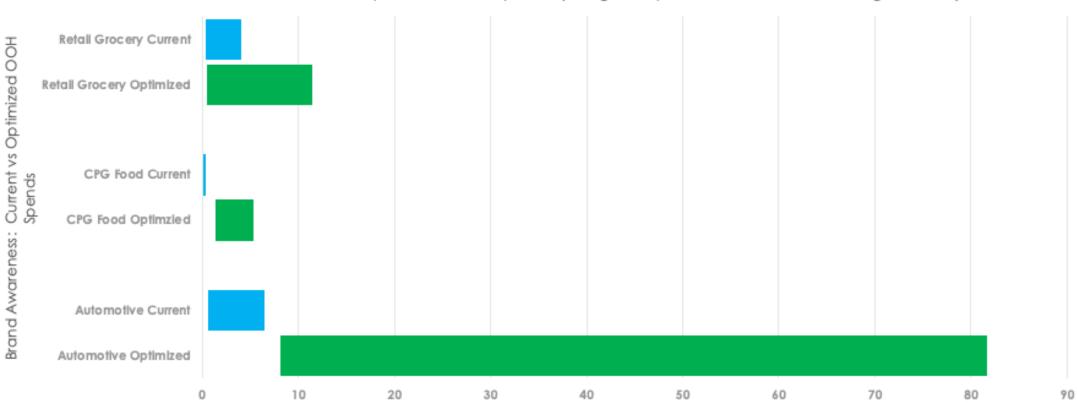
Optimized OOH spend range:

OOH Spend Range optimized \$m	Small	Medium	Large	Spend range optimized
Automotive	8.10	31.92	81.72	\$8.10m to \$81.72m
CPG Food	1.40	2.57	5.29	\$1.40m to \$5.29m
Retail Grocery	0.46	2.29	11.44	\$0.46m to \$11.44m

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Optimising Brand Awareness ROAS – OOH spend ranges current vs optimized

By category, across small, medium and large brands



Brand Awareness: Current vs Optimized OOH Spends (Range of Spend - Small, Medium, Large Brands)



Note: spend ranges based on average 2022 Vivvix brand spend

Optimising Consideration ROAS – OOH spend ranges current vs optimized

By category, for Small vs Medium vs Large Brands

Current OOH spend range:

OOH Spend Range current \$m	Small	Medium	Large	Spend range current
Automotive	1.00	0.58	6.53	\$0.58m to \$6.53m
CPG Food	0.06	0.02	0.42	\$0.02m to \$0.42m
Retail Grocery	0.31	0.61	4.04	\$0.31m to \$4.04m

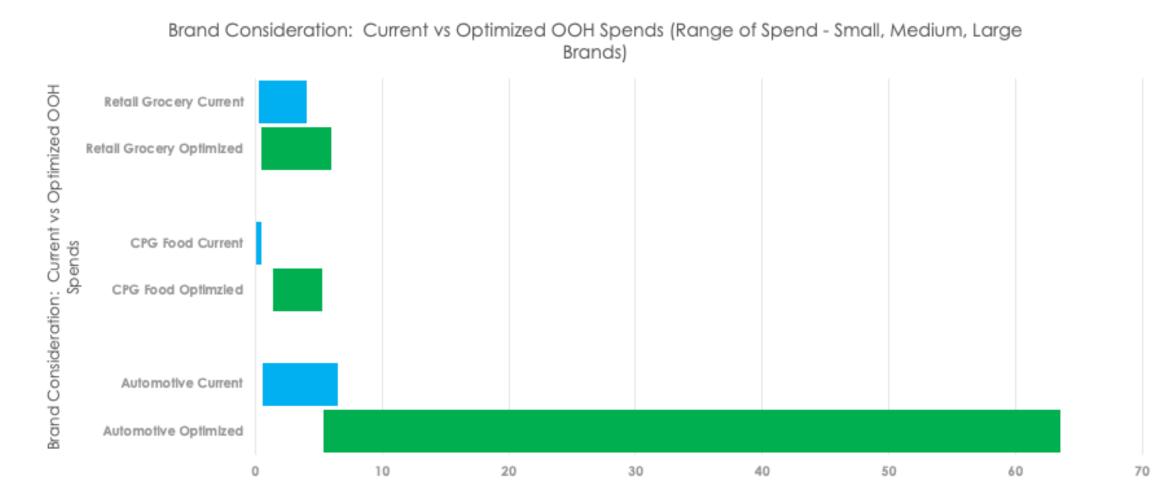
Optimized OOH spend range:

OOH Spend Range optimized \$m	Small	Medium	Large	Spend range optimized
Automotive	5.40	23.52	63.56	\$5.40m to \$63.56m
CPG Food	1.35	2.51	5.29	\$1.35m to \$5.29m
Retail Grocery	0.46	0.91	5.96	\$0.46m to \$5.96m

Benchmarketing 198

Optimising Consideration ROAS – OOH spend ranges current vs optimized

By category, across small, medium and large brands



The Benchmarketing 1 99

Note: spend ranges based on average 2022 Vivvix brand spend

Optimising Purchase Intent ROAS – OOH spend ranges current vs optimized

By category, for Small vs Medium vs Large Brands

Current OOH spend range:

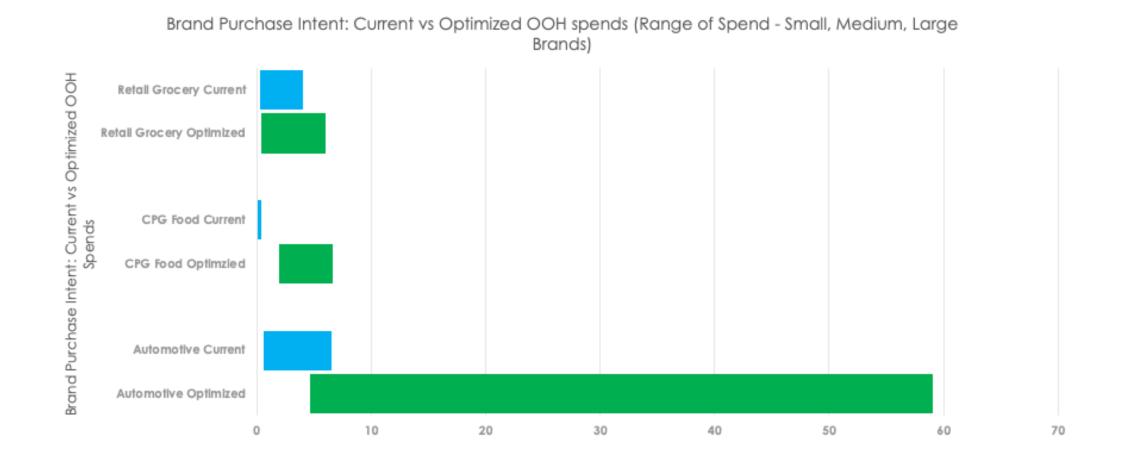
OOH Spend Range current \$m	Small	Medium	Large	Spend range current
Automotive	1.00	0.58	6.53	\$0.58m to \$6.53m
CPG Food	0.06	0.02	0.42	\$0.02m to \$0.42m
Retail Grocery	0.31	0.61	4.04	\$0.31m to \$4.04m

Optimized OOH spend range:

OOH Spend Range optimized \$m	Small	Medium	Large	Spend range optimized
Automotive	4.63	21.84	59.02	\$4.63m to \$59.02m
CPG Food	1.92	3.53	6.61	\$1.92m to \$6.61m
Retail Grocery	0.39	1.27	5.96	\$0.39m to \$5.96m

Optimising Purchase Intent ROAS – OOH spend ranges current vs optimized

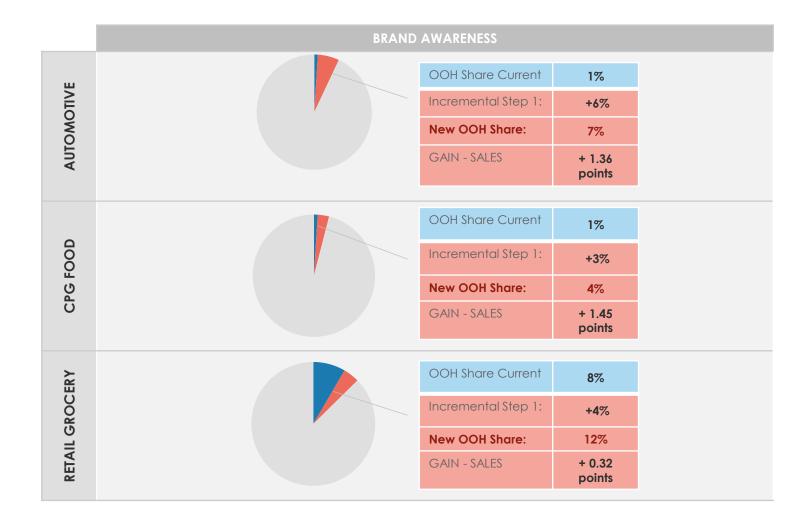
By category, across small, medium and large brands



Note: spend ranges based on average 2022 Vivvix brand spend

The first incremental increase in Brand Awareness OOH achieves Significant Gains

Across sales - Summary Chart for Step 1



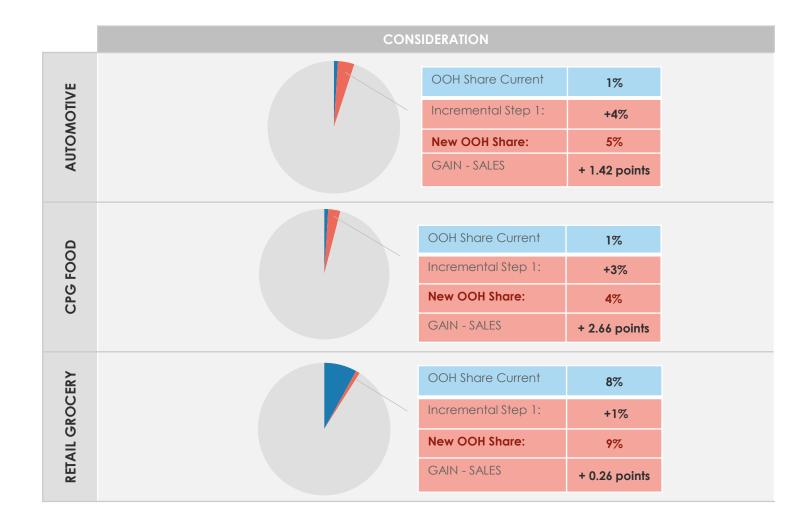
Optimized Media Plan through Incremental increases in Brand Awareness OOH Share

Incremental Steps Summary Chart across Brand Awareness



The first incremental increase in Consideration OOH achieves Significant Gains

Across sales - Summary Chart for Step 1



Optimized Media Plan through Incremental increases in Consideration OOH Share

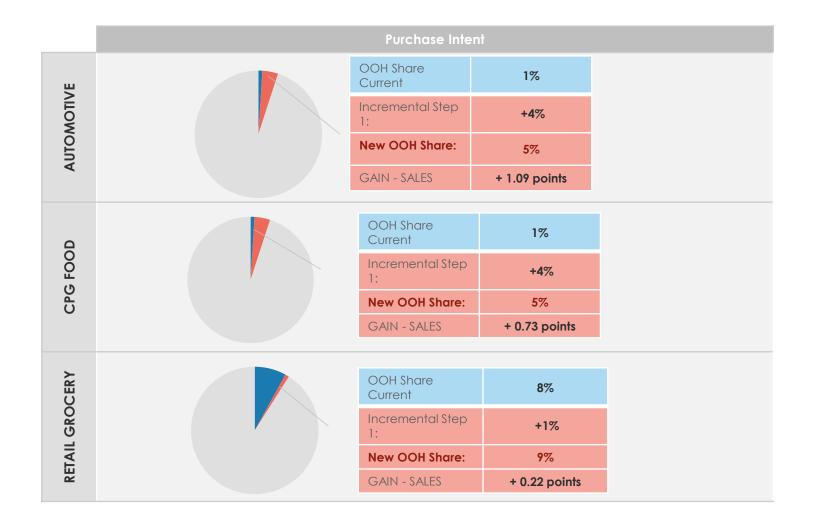
Incremental Steps Summary Chart across Consideration





The first incremental increase in Purchase Intent OOH achieves Significant Gains

Across sales - Summary Chart for Step 1





Optimized Media Plan through Incremental increases in Purchase Intent OOH Share

Incremental Steps Summary Chart across Purchase Intent

