

Out of Home Advertising Association of America

Maximizing OOH in Today's Marketplace Key 2023 Trends & Consumer Insights

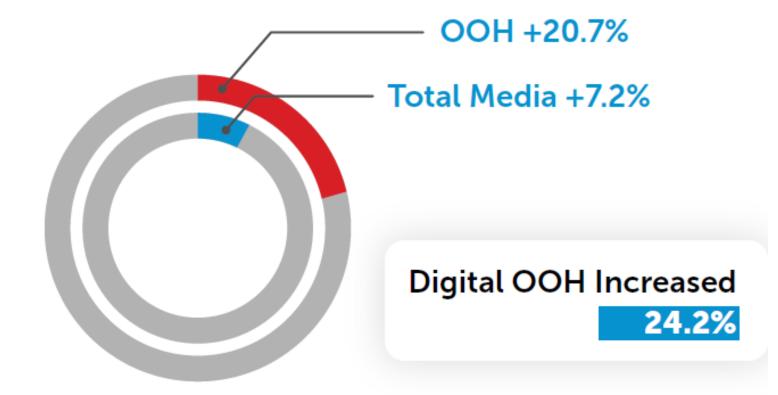


OOH Industry Growth



2022: OOH Fastest Growing Ad Channel, Surpassed 2019



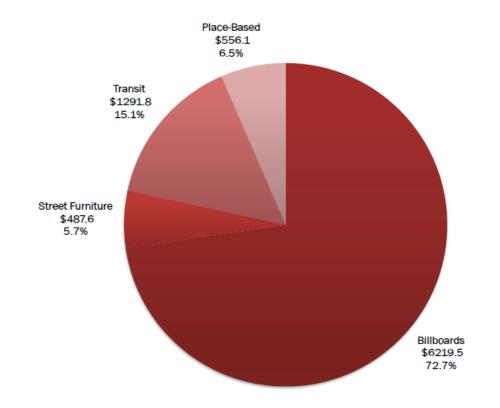


Source: MAGNA

OOH Ad Spend Grew 20.7% to \$8.6 Billion



2022 YE Total OOH Revenue \$8.55 Billion



OOH Grew Across All Category Formats

Billboards	13%
Transit	49%
Street Furniture	27%
Place-Based	67%

Digital OOH represents 29% of total OOH, format figures in millions. Source: OAAA

OOH Ad Spend: Top 10 Product Categories



Top 10 Product Categories:

- 1 Hospitals, Clinics, Medical Centers
- 2 Legal Services
- 3 Quick Serve Restaurants
- 4 Consumer Banking
- 5 Domestic Hotels and Resorts
- 6 Colleges and Universities
- **7** Local Government
- 8 Television and Cable TV
- 9 Food Stores and Supermarkets
- 10 Real Estate Agents, Agencies Brokers

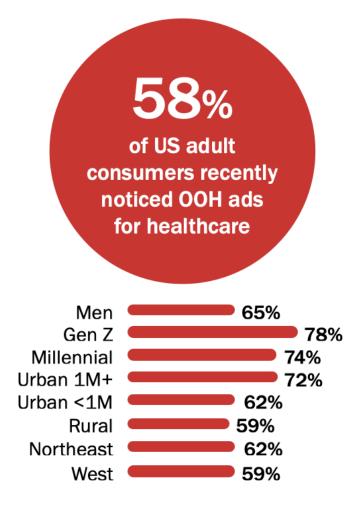
Top 10 Represents 1/3 of Total OOH Spend Source: Vivvix



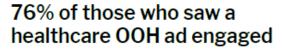
Source: Vivvix

#1 OOH Product Category: Healthcare





Source: The Harris Poll



Actions taken among those who engaged:

Searched for the product, company, or facility online



Asked friends or family if they know about the product, company, or facility online 34%

Visited the product, company, or facility's website 30%

Asked my doctor or other HC provider about the product, company, or facilities

28%

Shared by word-of-mouth information about the product, company, or facility 28%

Engaged with the offering, company, or facility



Followed the product, company, or facility on social media

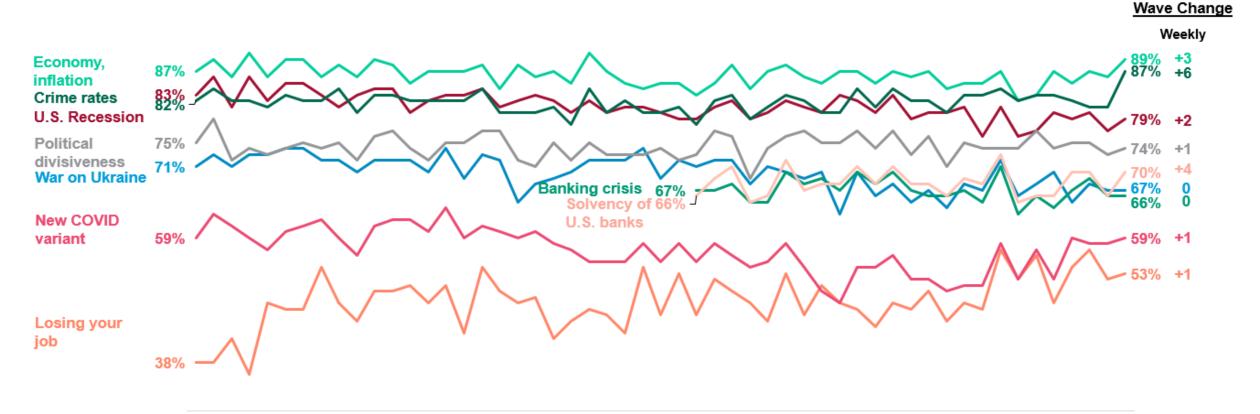


Top 10 00H Advertisers 2022



Source: Vivvix

As COVID Fears Level, Economic and Inflation Concerns Remain High



W133 W135 W137 W139 W141 W143 W145 W147 W149 W151 W153 W155 W157 W159 W161 W163 W165 W167 W169 W171 W173 W175 W177 W179 W181 W183 W185 (09/11) (09/25) (10/09) (10/23) (11/06) (11/20) (12/4) (12/18) (01/01) (01/15) (01/29) (02/12) (02/26) (03/12) (03/26) (04/09) (04/23) (05/07) (05/21) (06/18) (07/02) (07/16) (07/30) (08/13) (08/27) (09/10)

Source: Harris Poll America This Week Tracker (2023)

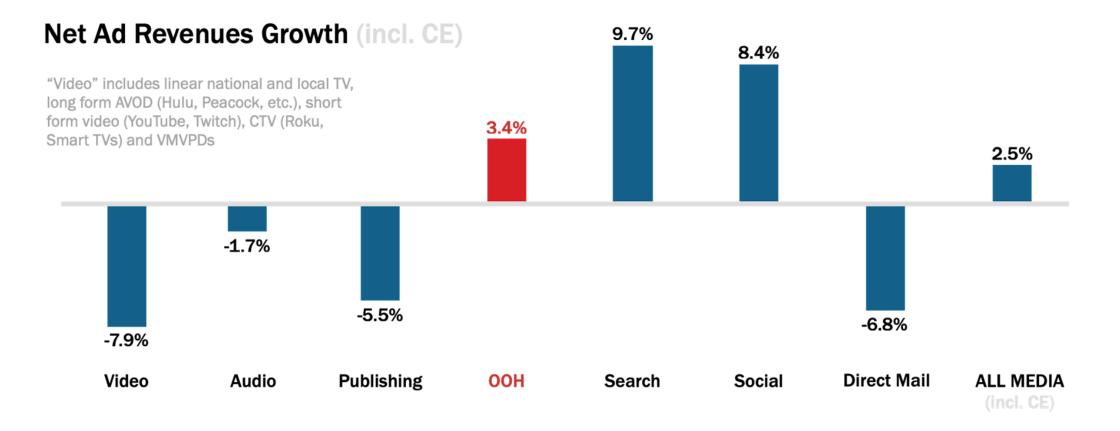
Impact of Maintaining or Increasing Ad Spend in Last Recession

Brands who maintained or increased spend in the last recession



Source: <u>Why advertisers need to keep spending in a recession – and other effectiveness insights</u> <u>from Analytic Partners</u>, Stephen Whiteside, WARC, June 2022

2023 Ad Spend Growth Projections



Source: MAGNA (June 2023) CE= Cyclical events (Political + Olympics)

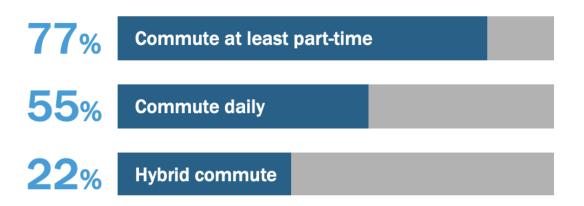
Consumer Journey & Experience

Almost 80% of Workers are Commuting





Commuting to Work - US Adults

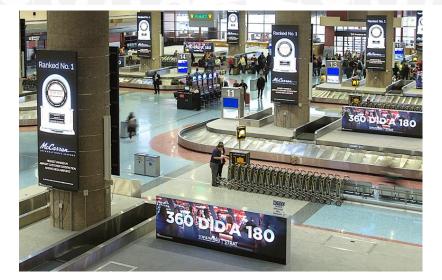


Transit and Airport Volume Continue to Grow



US Air Travel

• Up 17% January-May 2023 vs. same period LY





Transit Ridership

- US: Up 23.7% in Q1 2023 vs. Q1 2022
 - Bus Up 21% in Q1 2023 vs. Q1 2022



Source: APTA, US DOT

Consumer Mobility + OOH Reach Drives Ad Notice



Consumer Mobility Heightens OOH Ad Exposure



of adults have driven or ridden in a vehicle in the past 30 days

56%

of adults have walked in a town, city, or downtown in the past 30 days

OOH's Massive Reach Generates High Consumer Notice



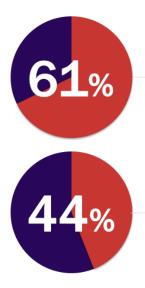
of adults have seen OOH ads in the past 30 days

85%

of adults look at OOH ads all, most or some of the time

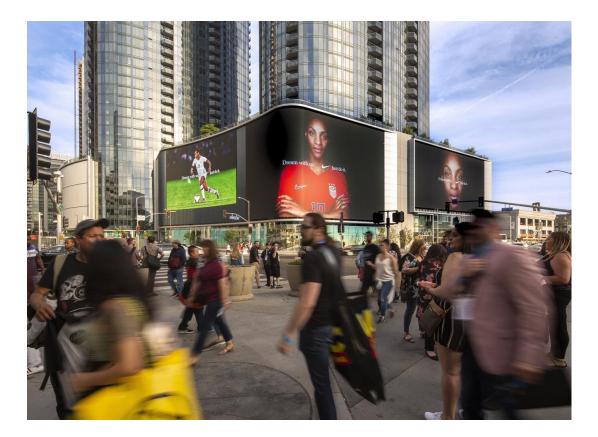
OOH Complements Consumer Experiences, Engages When Most Likely to Act

Engages When Most Likely to Act OOH Ads Evoke High Favorability with Consumers



of adults view billboard ads favorably, high than any competitive media

net favorability rating for OOH ads beats digital media, radio, podcasts, streaming audio



Consumers Are Highly Engaged With OOH



85% of Viewers Find OOH Ads Useful

Types of OOH ad messages consumers find most useful:







COVID safety and hygiene



awareness of new business/service



advertiser services and business hours



advertiser website or social media information



OOH Engagement Drivers: Brand Loyalty, Locality, Influencers, Special Offers



OOH Ads that Best Capture Attention & Engagement:

62% f

feature favorite brand or product

52% highl

highlight local businesses, artists or events

51% feature favorite artist, celebrity or influencer

48% provide access to new product from favorite brand (NFC, QR code, SMS)

Source: The Harris Poll

OOH Ads Most Likely to Engage Consumers: Colorful, Clever and Clear

OOH Ads Most Likely to Engage Consumers:



Colorful and vibrant

Portrays something 38% clever or funny



Simple design, few words, easy to read



Big and bold (e.g., a larger than life mural on a tall building, bus or mobile billboard)



Evokes an emotional feeling/has a serious tone

Abstract and creative 17% illustration with no words

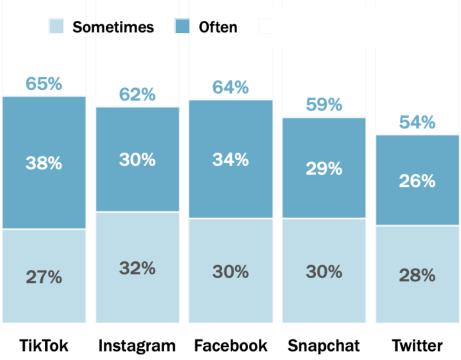


Social Media Users Notice OOH Ads Posted on Platforms

How often do you see out of home advertisements reposted on the following social media platforms?

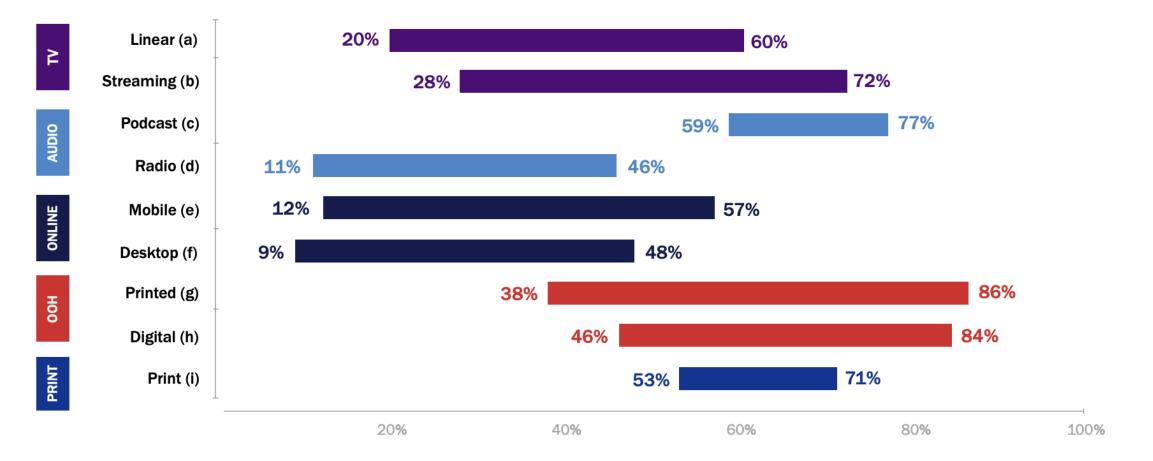
Among users of each social media platform





Source: The Harris Poll

OOH Generates Highest Ad Recall of All Core Media



Source: Solomon Partners

OOH's Valuable Audience



Importance of OOH Ad Messages Reflecting Target Audience Identity.

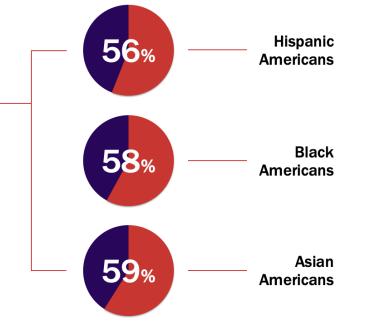
% more likely to notice OOH ads reflecting their cultural identity

OOH viewers are younger and have higher income than the general population

00H's highest indexing viewers: ages 18 - 44

OOH over-indexes with Asian and Hispanic Americans, and with Black Americans in many OOH formats

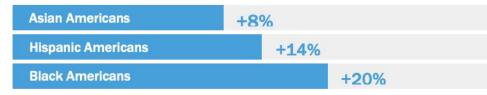
Asian, Black, and Hispanic Americans are more likely more likely to notice OOH ads that reflects their cultural identity



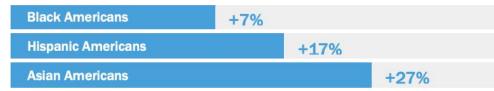
Source: The Harris Poll, Morning Consult

OOH Resonates with Multicultural Consumers

Favorability Toward OOH Advertising Over Indexes with Multicultural Consumers vs. US Adults



More Likely to Notice OOH Ads with Directions to Stores/Restaurants vs. US Adults



More Likely to Visit Stores/Restaurants within 30 Minutes of Seeing Directional OOH Ads vs. US Adults

Black Americans	+28%
Hispanic Americans	+28%
Asian Americans	+40%



2023 Holidays: Consumer Travel Intent



Among the 60% of US adults who plan to travel for the EOY holidays

62% will travel by car

- 59% will travel by plane (87% Urban pop 1M+)
- 25% will travel by bus, train, light rail or subway (33% Millennials, 32% Gen Z)

Holiday travelers plan more vacation days and longer distances vs. 2022

47% will travel over 500 miles round trip
44% will travel for more holiday vacation days than last year (59% Gen Z, 57% Urban pop 1M+)
36% will travel longer distances than last year (50% Urban, 43% Gen Z)

2023 Holidays: Consumer Gift Shopping Intent

Months shoppers plan to do the majority of their purchasing:

38% November
16% December
15% Spread over several months
12% October

Shoppers plan to spend the most in these product categories:

60%	Clothing
41%	Technology products (52% Millennials)
37%	Toys (46% Millennials)
30%	Jewelry or Accessories (49% Gen Z)
30%	Perfume or Cosmetics



Ad messages most relevant to shoppers:

87 %	Value or savings (vs. 75% LY)
80 %	Convenience and/or location (vs. 66% LY)
73%	Special Delivery Options
64 %	Businesses supporting the local community (vs. 56% LY)

Digital Transformation

Consumer Concerns with Digital Media



Consumers are annoyed by ad sponsored digital media content and feeling device fatigue

78%

are annoyed with ads that interrupt viewing, listening, and reading experiences

73%

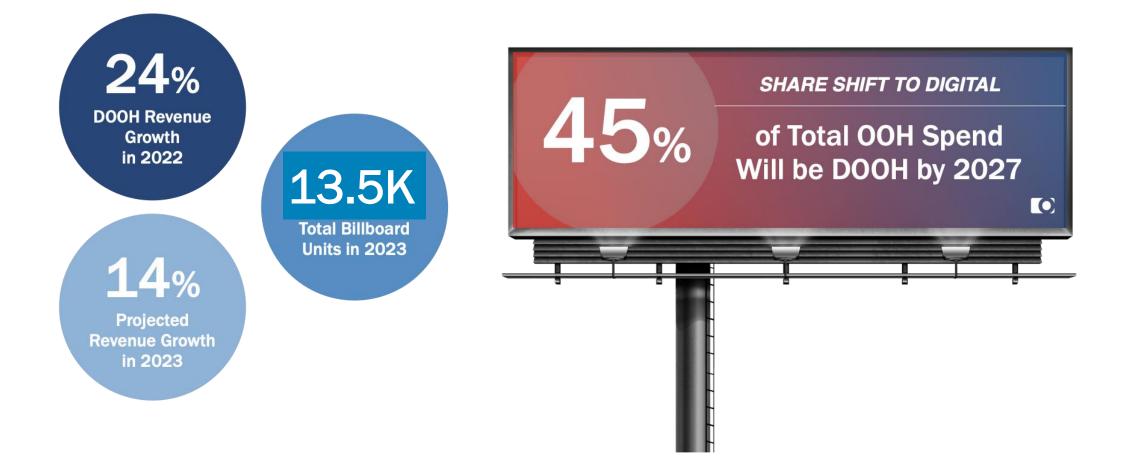
43%

are concerned about personal security and data when using online devices



are actively trying to spend less time on their phone, computer, or reduce TV viewing

Digital: Key Growth Driver for OOH



Digital OOH Generates Consumer Engagement



70%

of consumers have recently noticed digital billboard ads

65%

52%

of viewers took action after seeing digital billboard ads (search, store visit, social media post)

of viewers engaged in a mobile device action (website visit, purchase, access discount)

Source: Morning Consult, Nielsen

Nearly Half Say Contextual OOH Ads Are More Interesting

Dynamic OOH Ad Content Increases Consumer Interest

Percent who find OOH ads with timely information more interesting than typical ads

US Adults	40%			
Millennials		45%		
Bachelor's Degree		45%		
Urban Residents		45%		
Hispanic Americans		46%		
Household Income \$100K+		51%		.%
Adults 30 - 44			51%	
Post-Graduate Degree				56%



Programmatic: Significantly Expanding DOOH Opportunities



Omnichannel Demand-Side-Platform integrations into DOOH Supply-Side Platforms continue to grow

Programmatic DOOH in 2023:

- Projected growth of 48% over 2022
- Projected to be 23% of DOOH

Key Drivers:

- Shorter lead times
- Greater flexibility
- Aggregated Scale
- Consistent targeting/data

VOOH Attributes & Competitive Advantages

Scale: 750K+ digital screens across malls, gas stations, transit systems, offices and more.

Reach: Top 10 VOOH Networks reach 30% more Adults 18-34 than cable and 31% more than broadcast.

Premium Inventory: Delivered on high-quality large screens with 100% viewable ads — no "above or below" the fold and no bots.

Reliable: Ever-present. No need to turn on, tune in or click. Cannot be delayed, skipped, or blocked.

Greater Recall: DOOH generates up to 82% ad recall – higher than all other media channels. More trusted than other digital channels including online, mobile, and social.



WA

OOH Effectiveness

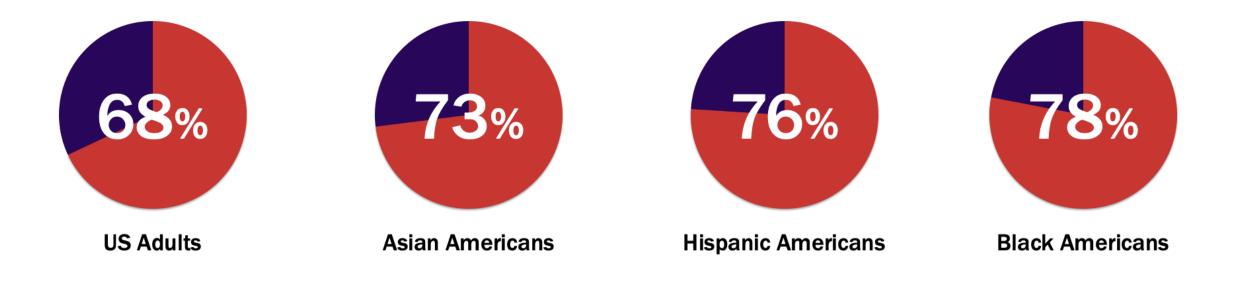
Almost Four in Five Act Following Recent OOH Ad Exposure

78% of US adults took an action after recently seeing an OOH ad including:

44% used search to look up information about the advertiser
41% watched a television program
29% visited an advertiser's social media
29% visited an advertiser's website
28% tuned to a radio station
24% visited an advertised restaurant
23% visited a store or other business advertised
22% watched a movie in the theater
21% talked about the advertisement or product with others

OOH Engages Consumers On Journeys to Retail Stores

Almost ~70%+ Notice OOH Ads on Their Way to In-Store Shopping



OOH Influences Consumer Purchase Decisions

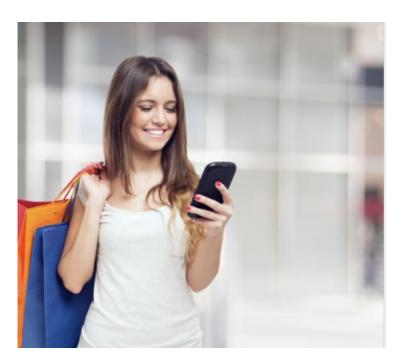


Almost Half Say OOH Ads Impact In-Store Purchase Decisions

US Adults	42%
Adults 18-29	45%
Men	48%
HHI \$100K+	50%
Bachelor's Degree	50%
Adults 30-44	51%
Hispanic Americans	51%
Post-Graduate Degree	54%
Black Americans	57%



OOH Primes Mobile Activation



76% of US adults took an action on their mobile device after recently seeing an OOH ad including:

51% used search to look up information about the advertiser
43% made an online purchase
33% visited an advertiser's website
accessed a coupon, discount code, or other info using QR code, tap or SMS/text
26% downloaded or used an app shown in the ad

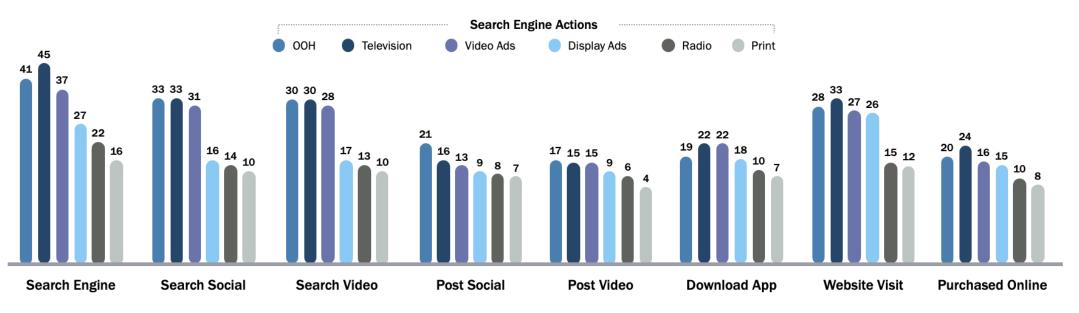
Source: Morning Consult

OOH Most Efficient at Driving Online Activation

Top Efficiencies - OOH Ads Prompted Consumers to Take Action:

41% used a search engine	33% visited a website	21% posted in social media	19% downloaded an app
33% searched social media	30% searched for video	20% made an online purchase	18% posted a video

Interpreting Survey Chart Results | Within the past six months, 41% of US adults used a search engine to look up information after seeing an out of home ad. Methodology: Conducted online between March 3 and 31, 2022, among a representative sample of 1,580 US residents aged 16-64. Ad spend data supplied by MAGNA | Source: OAAA, Comscore



OOH Ads Amplify All Media Plans – Delivers Huge Boost to Search ROI



Source: Benchmarketing

OOH Engages Gen Z + Millennials – Reaches Them Again on Social Media



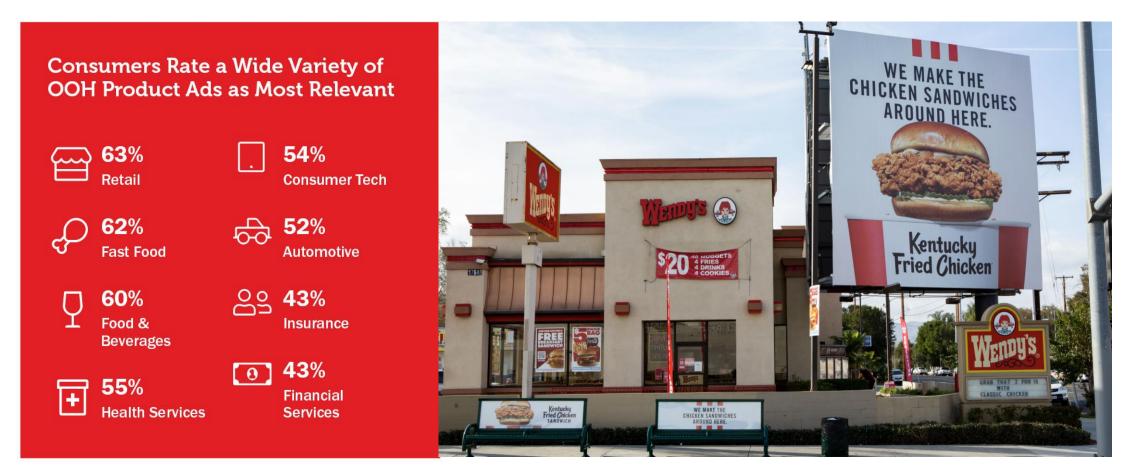
OOH Ads Deliver Important Earned Impressions Through Social Media

67% of both Gen Z and Millennials have seen an OOH ad reposted on social media

91% of Gen Z and **82%** of Millennials would reshare an OOH ad on social media



OOH Key Product Category Ads Most Relevant to Consumers



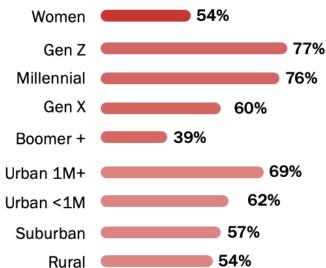
Source: The Harris Poll

OOH Reaches QSR Consumers → Drives Sales

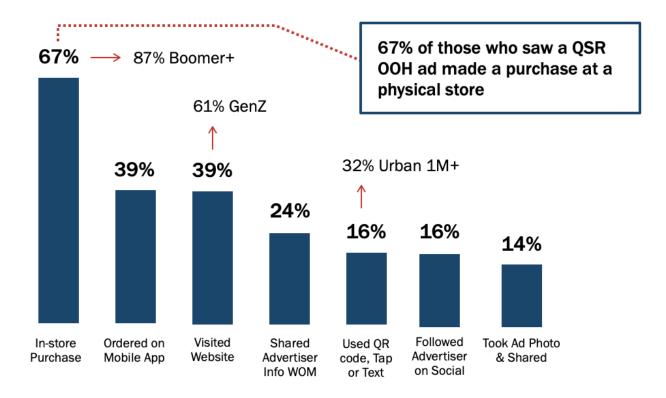
6 in 10 Recall Seeing OOH QSR Ads Recently

(Especially Younger & Urban Americans)

Men 65%



OOH QSR Ads Engaged Almost 9 in 10 Recent Viewers



OOH Automotive Ads Generate Consumer Notice & Action



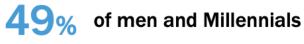
OOH Automotive Ads Generate Attention

Consumers who recently noticed an OOH automotive ad:



of consumers in 52% cities of 1M+ in size

50% of Gen Z



38% of adult consumers

OOH Automotive Ads Drive Activation

Among those consumers who recently noticed an OOH automotive ad:

43% took an action after seeing th <mark>e</mark> ad
38% visited the dealer or brand website
38% did online research about the dealer or brand
30% shared information by word of mouth
23% visited the dealer/brand showroom
21% followed the dealer or brand on social media
20% called the dealership
19% purchased a vehicle
17% leased a vehicle

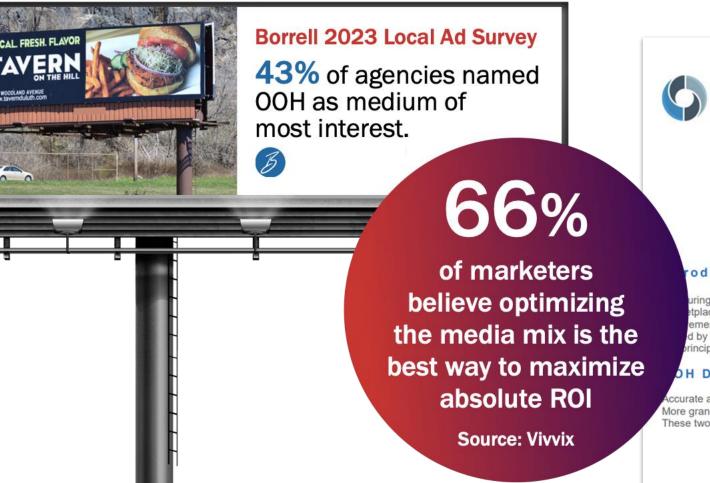
OOH Impact with Key Product Categories

OOH impact in driving notice and engagement, along with ad message content most likely to resonate with consumers

- Alcoholic Beverages
- Automotive
- Cannabis
- Financial Services
- Healthcare Services
- Home Improvement/Hardware Stores
- Hotels
- Insurance Services

- Legal Services
- Luxury Apparel
- Pharmaceuticals
- Political
- Quick Service Restaurants
- Sports Betting
- TV/Video Streaming Services

Measurement of OOH Performance and Audience







Modeling Out of Home Media

Best Practices for Marketing Mix and Attribution Models

October 2021

oduction

uring the in-market performance of Out of Home media (OOH) exposures on etplace outcomes offers a few unique challenges. It is also subject to the same ements as modeling other media. Both buyers and sellers of OOH are best d by models and data that are accurate and actionable. This guide sets out a few principles that, if observed in practice, will help both parties achieve those ends.

OH Data Inputs for Marketing Mix Models

Accurate and precise data inputs enable model outputs that are accurate and precise. More granular inputs enable more granular models and more actionable insights. These two universal principles translate into the following best practices for OOH.

Borrell Local Ad Spend Research: OOH Important to Master Marketers

Determining ROI:

Most important issue for local advertisers to solve

Large local businesses \$1 million+ in sales:

- 42% of novice marketers are the business owner vs.
 29% for Master Marketers
- 44% of Master Marketers use OOH vs. 21% of Novice Marketers
- Master Marketers spend 4X more on total advertising and 5X more on OOH

Source: Borrell

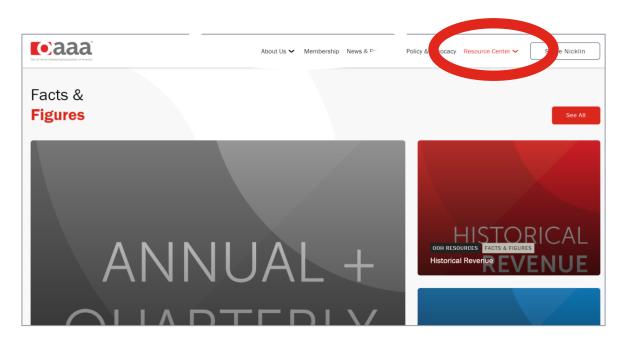


Out of Home Advertising Association of America

OAAA Member Benefits – Marketing Resources



OOH Facts & Figures



- MegaBrands top 100 00H advertisers
- OOH Revenue quarterly analysis of OOH performance
- Market Share tracking OOH share of total ad spend
- Revenue by Format ad spend by OOH's four categories
- Historical Revenue OOH ad spend trends by year
- OOH Measurement links to US market lists by DMA and CBSA

OAAA Website – Marketing Research Studies

Caaa	About Us 🗸	Membership	News & Events 🗸	Policy & Advocacy	Resource Center 🗸	
Home / Resource Center / Marketing Research						
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Remaining 2023 Marketing Research Initiatives



OOH ROI/MMM Media Allocation Analysis and Recommendations

<u>(Benchmarketing)</u>

(Sequent Partners)

Prove the value of OOH in comparison to core competitive media channels, and provide benchmarks for OOH allocation of media spend based on budget size, KPI and product category.



Marketing Mix Modeling (MMM) Case Study with Major Brand

In 2021, OAAA produced best practices for performance measurement of OOH in marketing mix modeling (MMM) and attribution models. This before and after ROI case study with a major brand will show current modeling practices have undervalued OOH and, therefore, should increase both consideration of and media share allocation to OOH by brands, agencies and the modelers.

OAAA Website – Customized Marketing Resources

About Us ✔ Membership News & Events ✔ Policy & Process Resource Center ✔ Steve Nicklin
Customized Marketing Research Request
Please detail your research needs by completing the customized request form. Please allow a minimum of one business day for a response from an OAAA team member.
ADVERTISING MEDIA SPEND – Kantar
 DEMOGRAPHIC ANALYSIS (by select geography) - EASI Demographics
 DMA DEMOGRAPHIC PROFILES & STATE DMA MAPS - SRDS

Local Sales Product Category Analysis and Planning

- Develop a sales strategy by product category and month
- Can be done on more focused segmentation levels such as category, sub-category and micro-category
- Data for approximately 180 DMA markets across the US



2021 Industry Product Categories Total Ad Spend by Month

INDUSTRY CATEGORY	Total Ad Spend	January 2021 Ad Spend	Monthly % of Annual Category Total	February 2021 Ad Spend	Monthly % of Annual Category Total	March 2021 Ad Spend	Monthly % of Annual Category Total	April 2021 Ad Spend	Monthly % of Annual Category Total	May 2021 Ad Spend	Monthly % of Annual Category Total	June 2021 Ad Spend	Monthly % of Annual Category Total	July 2021 Ad Spend	Monthly % of Annual Category Total
Grand Total	189,232,136,159	16,185,657,987	8.6%	14,099,315,423	7.5%	15,608,465,567	8.2%	14,520,684,808	7.7%	16,068,296,417	8.5%	15,805,804,992	8.4%	15,782,195,095	8.3%
Retail	26,614,850,293	2,524,632,502	9.5%	2,107,607,651	7.9%	2,127,143,696	8.0%	1,854,551,415	7.0%	2,083,458,706	7.8%	2,249,629,896	8.5%	2,251,286,955	8.5%
Media & Advertising	17,445,220,987	1,476,025,786	8.5%	1,312,153,113	7.5%	1,368,410,663	7.8%	1,370,341,730	7.9%	1,500,548,902	8.6%	1,428,923,848	8.2%	1,490,801,549	8.5%
Insurance & Real Estate	15,818,328,517	1,448,529,670	9.2%	1,277,913,028	8.1%	1,364,646,886	8.6%	1,277,724,201	8.1%	1,454,280,497	9.2%	1,378,657,397	8.7%	1,312,412,276	8.3%
Misc Services & Amusements	15,491,086,738	1,243,189,798	8.0%	1,122,901,675	7.2%	1,181,087,894	7.6%	1,140,762,248	7.4%	1,302,398,824	8.4%	1,296,436,926	8.4%	1,310,451,038	8.5%
Financial	11,492,739,249	887,046,228	7.7%	792,350,763	6.9%	953,061,236	8.3%	940,972,067	8.2%	964,193,513	8.4%	978,671,249	8.5%	1,074,403,540	9.3%
Medicines & Proprietary Remedies	9,252,513,598	856,623,50	3.378	761,780,946	8.2%	797,415,342	8.6%	804,610,977	8.7%	848,986,345	9.2%	820,316,294	8.9%	750,630,914	8.1%
Automotive, Automotive Access & Equip	8,095,763,179	841,148,1	10.4%	51,319,879	8.0%	718,075,300	8.9%	623,511,222	7.7%	596,847,905	7.4%	585,243,304	7.2%	648,747,275	8.0%
Communications	6,818,668,565	619,453,155		500,543,776	7.3%	578,091,477	8.5%	446,710,065	6.6%	552,093,640	8.1%	535,145,385	7.8%	481,713,350	7.1%
Restaurants	6,434,484,072	590,972,832	9.2%	449,997,930	7.0%	547,526,708	8.5%	472,142,997	7.3%	517,212,021	8.0%	530,284,095	8.2%	529,859,998	8.2%

Source: Kanta

OOH Effectiveness – Case Studies Library



About Us V Membership News & Events V Policy & Advol V Resource Center V

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Home / Resource Center / Case Studies

ada 00H Case Study

Case Studies

McDonald's

Background

McDonald's was looking for a way to reach their 18-49 target demographic across the nation to promote their 2 for \$4 mix and match for breakfast. Typically, when executing a campaign there is a threshold goal that is needed to cover 80% of stores in the US. Media coverage in markets must be fair and equitable throughout.

Objective

To showcase the 2 for \$4 breakfast, McDonald's launched a campaign in the breakfast hours to highlight the deal. The creative directly took on one of McDonald's biggest competitors featuring a video of a consumer eating gas station breakfast and the reaction to eating the featured McDonald's product.

Strategy

The time frame of 5:00 am to 10:00 am was chosen to support the \$2 for 4 deal to reach consumers on the go around the breakfast hour. The campaign was introduced in all markets nationwide and within 10 miles of 88% of restaurant locations.

Plan Details

Market: National (200 DMAs) Flight Dates: 2/24/20-3/19/20 QOH Eormats: Digital jass stations Target Audience: Adults 18-49 Audience TRP: 12.1 Audience Areach: 3.9% Audience: Frequency: 3.1x Total Impressions: 24.1 Million

Results

Post Exposure: 23.3% impressions were followed by McDonald's visits yielding 5.6 million store visits within 14 days. Attribution: Incremental 7.3% behavioral lift for March or 379,000+ incremental visits. The campaign generated \$2.7 million in sales with a \$1.27 CPIV and ROAS of \$6.



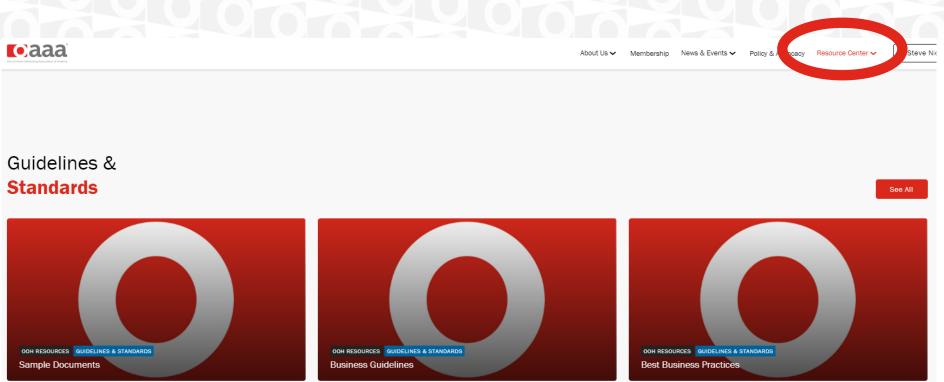






McDonald's was looking for a way to reach their 18-49 target demographic across the nation to promote their 2 for \$4 mix and match for breakfast.

Guidelines & Standards



- <u>Sample Business Documents</u>: Format Contracts, Proof of Performance Report, Request for Information, Request for Proposal
- <u>Guides</u>: Planning for OOH Media, Video OOH, OOH Measurement & Analytics
- Best Practices: 00H Advertising, Audience Exposure, 00H Marketing Mix Modeling and Attribution, Photography, Creative, Principles for Privacy & Data, Code of Conduct, DOOH
- <u>Standards and Specifications</u>: Standard OOH Business Practices, Print Specifications, Place-Based DOOH Practices, Open Direct, Digital Aspect Ratios
- <u>Guidelines</u>: Mobile and Social Applications for OOH, OOH Data Exchange API, OOH Data Usage, Digital Display API Monitoring, Digital Lighting, Digital Billboard Security

OOH – Sales Training

	About Us 🗸	Membership News & Events 🗸 Policy & Ale cacy Resource Center 🗸
Home / News & Events / Educational Resources	Educational Resources	INTRODUCTION to MODULES MODULE 1 - VALUE OF OOH ADVERTISING MODULE 2 - MEASURING OOH AUDIENCES MODULE 3 - UNDERSTANDING CLIENT OBJECTIVES MODULE 4 - CRAFTING CLIENT PROPOSALS MODULE 5 - SALES STRATEGIES USING OOH RATINGS MODULE 6 - TURN YOUR PRESENTATION INTO COMPELLING CONVERSATIONS MODULE 7 - A REVIEW OF BASIC SELLING SKILLS
caaa geopoth PROFESSIONAL TRAINING CURRICULUM		MODULE 8 - EXPRESSING THE TRUE VALUE OF OOH MODULE 9 - TRANSIT EDUCATIONAL RESOURCES SELERS' TRAINING Module 9 - Exploring Geopath OOH Transit Ratings Slides Facilitator Guide Participant Guide

OOH Sales Training: Module 4 - Crafting Client Proposals

MEDIA PLANNING PROCESS



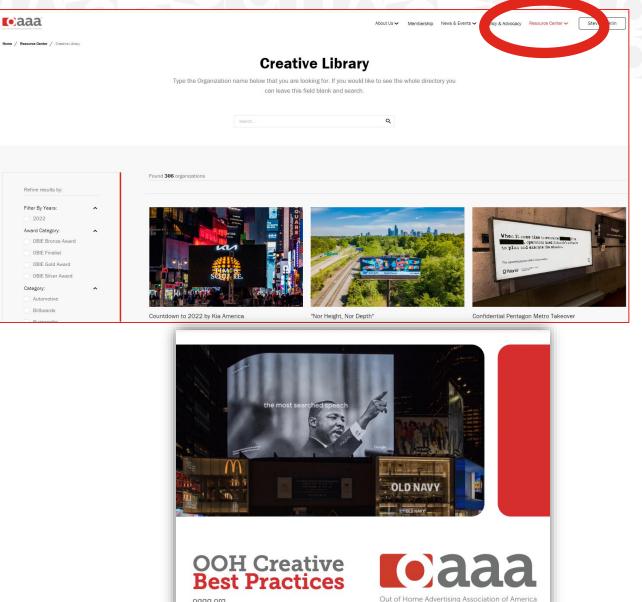
establishing Mat is the creative message? What is their market positioning? Brank to their market positioning? Brank to their competitors do?

OOH

Creative Resources

Where industry experts go to share and learn

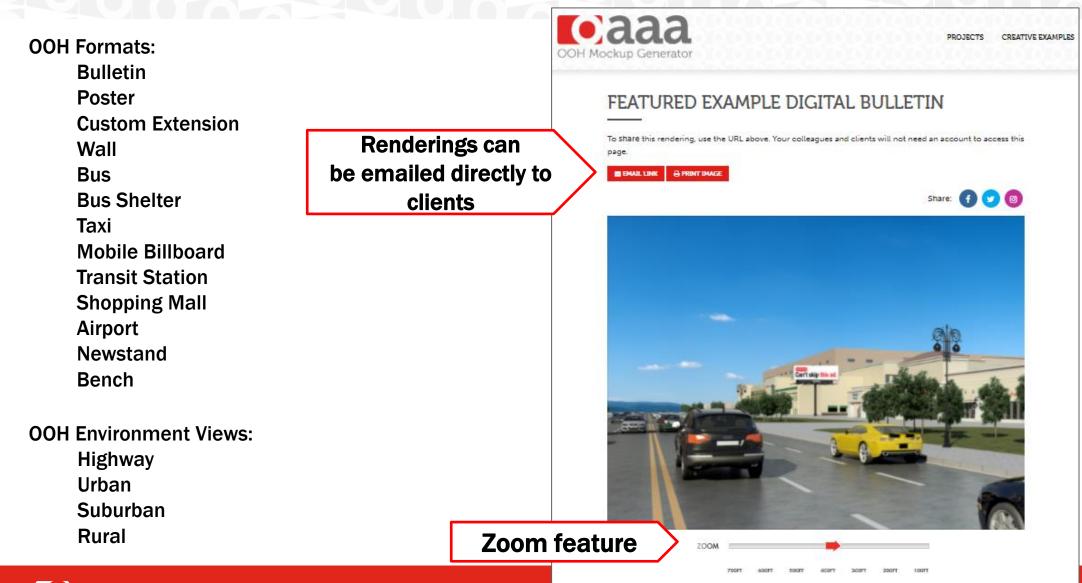
- Learn from OOH industry experts to enhance your clients' creative campaigns
- Access creative tools and best practices:
 - OOH Mockup Generator one of the best resources an OOH media company can utilize, as the right creative dramatically increases advertiser response and enhances the probability of ad renewal.
 - Creative Library Access to archives of OOH creative across formats
 - Creative Best Practices Released annually providing guidance on how to tailor OOH Creative
- Stay connected through special reports, newsletters, ondemand video series, and more



OOH Creative Mockup Generator – https://oohmockupgenerator.oaaa.org/

OOH Mockup Generato		P	ROJECTS CREATIVE EXAMPLES	
creative in the environment. Once to zoom in and out to see the wor colleagues and clients, and print o	account. Members should contact OAAA at	d transit be able ling with (202)	Register for Access	 Free to use One time registration
Airport LG	Airport XL	Building	Bulletins	Effective Creative = Advertiser Results = Higher Renewal Rates
Bulletins with	Digital Bulletins	Bench	Bus Front	

OOH Creative Mockup Generator - https://oohmockupgenerator.oaaa.org/



OOH Industry Directories

- Member Directory Access to and placement in the OAAA's directory comprised of OAAA Members.
- **Tech Locator** An easy-to-use online tool, allows anyone the ability to quickly search for providers offering data and technologies essential to the growing OOH business.
- **OOH Media Locator** has multi-level search capabilities to locate media operators by CBSA or DMA market, media category, and a specific format.

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	Member Directory		Tech Locator		Media Locator Type the Organization name below that you are looking for. If you would like to see the whole directory you
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Bilboerds Y	A3 Media LLC Organization Research A3 Media LLC	Attribution and Allocation Madelens	Webinar Fact Sheet	Bilboards 🗸	
Street Furniture V Trensit V	Pinferred Address: 2821 Delta Lane Teoper, PA 19403	Augmented Reality/Virtual Reality	Easely deploy the most advanced computer vision technology to any corners or mode player and soflect audience data in real-time.	Street Furniture Transit	
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THANK YOU!

Questions/Feedback/Requests: snicklin@oaaa.org