Data Accuracy: How to Fix Programmatic's Unsolved Problem

MMA Webinar Series November 14, 2018

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WHO: The People We Serve

Prime Audience: Chief Marketers

By helping Marketers do Mobile better, everyone wins. MMA membership represents Marketers, Agency, Media and Technology Enablers from across the globe.

WHY: Our Reason for Being

Mission: To accelerate the transformation and innovation of marketing through mobile, driving business growth with closer and stronger consumer engagement.

WHAT: Our Strategic Priorities



Cultivating Inspiration

Aimed at the Chief Marketer; guiding best practices and driving innovation

Building Capability for Success

Fostering know-how and confidence within the Chief Marketer's organization



Demonstrating Measurement and Impact

Proving the effectiveness and impact of mobile through research providing tangible ROI measurement and other data



Advocacy

Working with partners and our members to protect the mobile marketing industry

MMA IS 800+ MEMBERS STRONG GLOBALLY

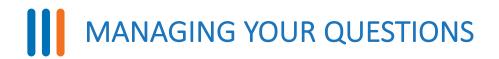


MARKETERS, AGENCIES, MEDIA SELLERS, TECHNOLOGY & OPERATORS



MMA: Reshaping the Future of Marketing





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Presenter

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Jake Moskowitz *Head of The Emodo Institute* Emodo Jake.Moskowitz@emodoinc.com Leo Scullin VP of Industry Programs Mobile Marketing Association Leo@mmaglobal.com

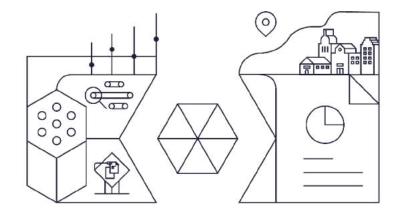


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Introduction

The Emodo Institute

- We focus on research, education and resolution of data concerns that challenge mobile advertising.
- We help media planners, buyers and service providers sharpen the efficacy of mobile data, so their campaigns can have a greater impact.





Introduction

JAKE MOSKOWITZ

Head of the **Emodo Institute** Former VP Innovation @ Nielsen Former Director of Media Innovation @ AT&T Focused on mobile media since 2004





How do you buy targeting data?

Why do you choose certain segments?





By the End of This Presentation, You'll Know:

How serious an issue Data Accuracy is for programmatic advertisers All the potential points of failure in the making a segment Key questions to ask data vendors to differentiate between similar offerings How to calculate the real value of targeting data, accounting for inaccuracies









Step 1: Accept We Have a Problem

A Quick Game of "The Current State"

The current state of advertising data

3rd party targeting data is a



industry

The current state of advertising data



13

130,000+

Different segments available within leading data stores

The current state of advertising data



Source: Liveramp Data Store



of impressions are fraudulent

The current state of advertising data



Source: IAS Media Quality Report

of impressions are non-viewable

The current state of advertising data

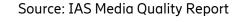


Source: IAS Media Quality Report

reduction in viewability issues over 2.5 years (since the industry took it seriously)

The current state of advertising data





of location data is inaccurate

The current state of advertising data



Source: Ericsson Emodo Internal Data

of demo targeting data is inaccurate

The current state of advertising data



Source: Nielsen DAR Benchmarks, Q1 2018, M/F 10-20 year age gaps

There are



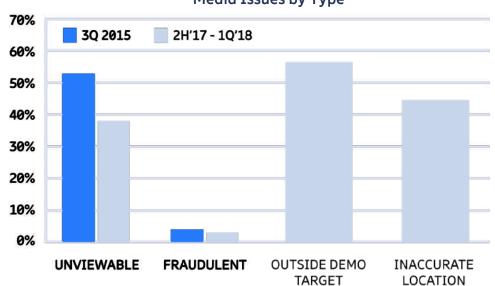
ad industry standards, regulations or initiatives to improve data accuracy

The current state of advertising data



We've Done So Much Work to Eliminate Media Waste

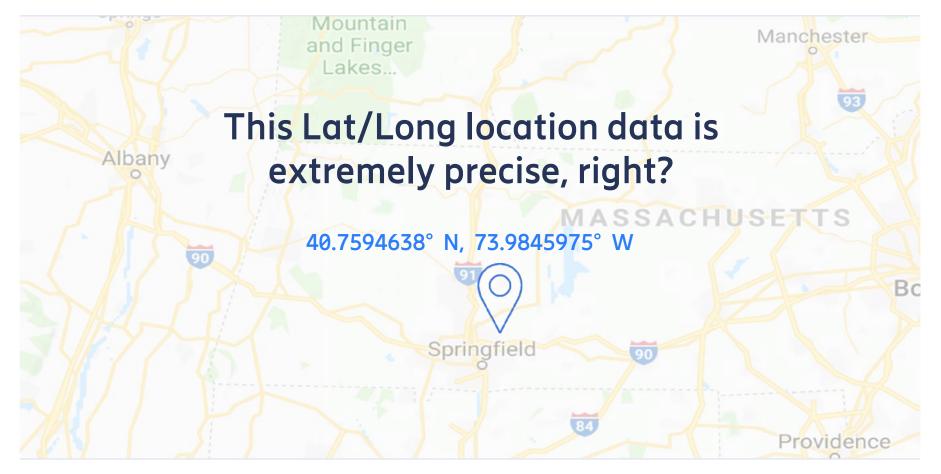
But data accuracy is just as big a problem... if not bigger



Media Issues by Type

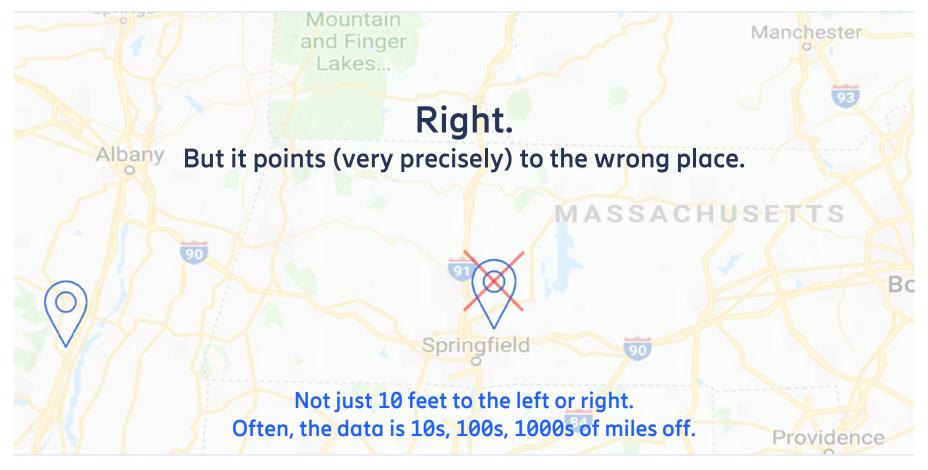
Sources: IAS Media Quality Reports 3Q'15 and 2H'17 for Direct Publisher Display; Nielsen DAR Benchmarks Reports 1Q'18 for M/F 16-30 years; Ericsson Emodo Verification Benchmarks 2017-18







Step 1: Accept we have a problem





Step 1: Accept we have a problem

Step 2: Understand Why Data is Inaccurate Why does this happen?





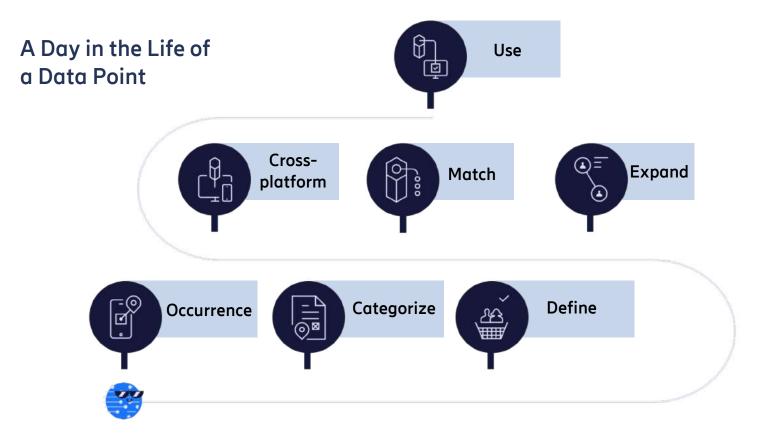
Data Science is Veiled Science





Step 2: Understand Why Data is Inaccurate

A Day in the Life of a Data Point





A Day in the Life of a Data Point

NAME -	_	PROVIDER	REQUES	RESTRI	СРМ	IOS RE	ANDRO			60M devices that have visited a Hyundai dealer in the last 30 days?
]	Shoppers > Auto > Hyundal				\$1.00	170,000	130,000			in the last 50 days:
	> Interest > Auto > Makes & Models > Hy				\$1.00	710,000	78,000			
	> Past Purchases > Autos > Makes > Hyu				\$1.25	860,000	240,000			
	interest > Auto > Makes & Models > Hyun				\$1.00	340,000	730.000			
	Past Purchases > Autos > Makes > Hyundai				\$1.25	340,000	730,000	s	EGMENT NAM	
	Dealerships > Hyundal > Recent			3	\$1.25	25,000,000	35,000,000		> Auto	omotive Dealerships > Hyundai > Recent
	···· > Makes & Models > Hyundai				\$1.00	4,200,000	4,000,000			
	re > Makes & Models > Hyundai > Accent				51.00	290,000	450,000			View Storefront Page
	e > Makes & Models > Hyundal > Azera				\$1.00	82,000	82,000	- 1	DESCRIPTION Devices that h	ave visited a Hyundai dealership location at least
	» > Makes & Models > Hyundai > Elantra				\$1.00	1,300,000	1,400,000	\$		■ past 30 days
	> Makes & Models > Hyundal > Elantra				\$1.00	300	41,000		DATA SOURCE	EMETHOD
	Makes & Models > Hyundai > Elantra GT				\$1.00	24,000	36,000	8	•	
	Makes & Models > Hyundai > Elantra				\$1.00	41,000	37,000		DATA SOURCE	E DETAIL
								۵	Pricing	
									DIGITAL MARK	ETING CPM

So, what do we end up with?



More segment stuffing...

102M devices that are active members of the BP Motor Club?

NAME ~		PROVIDER	REQUES	RESTRI	CPM	IOS RE	ANDRO
	> Likely Auto Club Member > Allstate Motor				\$0.75	30,000,000	34,000,000
	> Likely Auto Club Member > Any				\$0.75	9,800,000	11,000,000
	> Likely Auto Club Member > BP Motor Club				\$0.75	45,000,000	57,000,000
	> Likely Auto Club Member > Car Dealer/M	1			\$0.75	33,000,000	35,000,000
	> Likely Auto Club Member > Other Insuran				\$0.75	30,000,000	33,000,000
	> Likely Country of Origin > New Domestic				\$0.75	53,000,000	64,000,000
	> Likely Country of Origin > New Domestic				\$0.75	13,000,000	20,000,000
	> Likely Country of Origin > New European				\$0.75	58,000,000	66,000,000
	> Likely Country of Origin > New Japanese				\$0.75	68,000,000	74,000,000
	> Likely Country of Origin > New Japanese				\$0.75	41,000,000	47,000,000



And another...

128M likely Millstone coffee drinkers?

N/	AME -	PROVIDER	REQUES	RESTRI	CPM	IOS RE	ANDRO
	CPG > Beverage > Likely Coffee Brand > Hills Brothers	Acres 1			\$1.00	57,000,000	78,000,000
0 /	CPG > Beverage > Likely Coffee Brand > Keurig Coffee				\$1.00	41,000,000	18,000,000
	CPG > Beverage > Likely Coffee Brand > Luzianne Coffee				\$1.00	13,000,000	16,000,000
	CPG > Beverage > Likely Coffee Brand > Millstone Coffee				\$1.00	56,000,000	72,000,000
	CPG > Beverage > Likely Coffee Brand > Peets Coffee	1			\$1.00	63,000,000	69,000,000
	CPG > Beverage > Likely Coffee Brand > Starbucks Cof				\$1.00	19,000,000	18,000,000
	CPG > Beverage > Likely Juice/Non-Carbonated Bever				\$1.00	56,000,000	71,000,000
	CPG > Beverage > Likely Juice/Non-Carbonated Bever				\$1.00	52,000,000	71,000,000
	CPG > Beverage > Likely Juice/Non-Carbonated Bever				\$1.00	34,000,000	42,000,000
	CPG > Beverage > Likely Juice/Non-Carbonated Bever				\$1.00	50,000,000	60.000,000

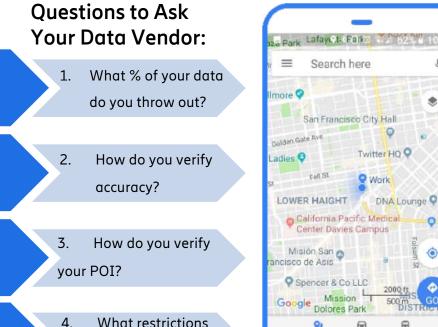


Step 3: Ask Your Data Vendors Revealing Questions

What Could Go Wrong?

Bad Data Sources:

- Tech problems: Data captured isn't correct 1. because technology failed, such as "last known location"
- Low quality data: Data that isn't 2. persistently collected, honestly provided, adequately scalable, etc.
- Categorizations are wrong: store 3. definitions are wrong or too liberal; irresponsible assumptions about meaning
- Privacy restrictions: no use of deterministic 4. data due to privacy concerns (only modeled data used)





Step 3: Ask Your Data Vendors Revealing Ouestions

on use of deterministic?

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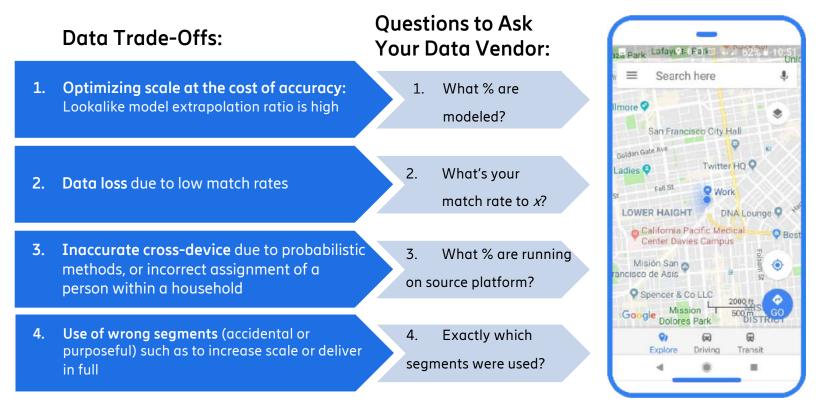
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What Could Go Wrong?





Step 4: Calculate the Cost of Bad Data

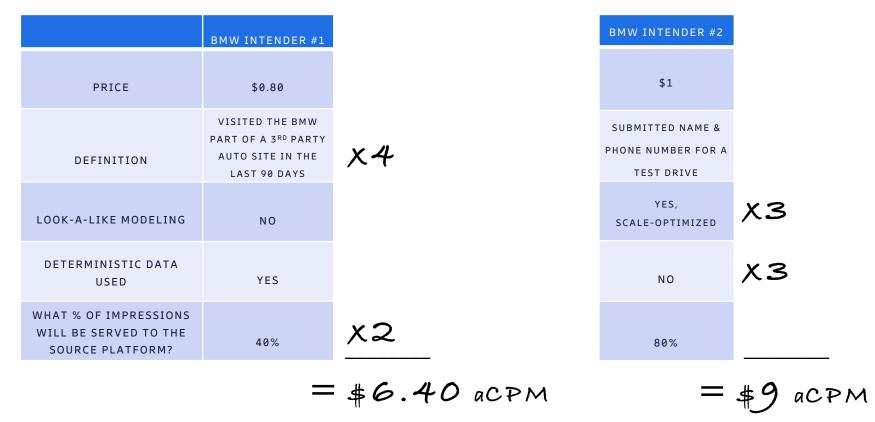
Step 4: Calculate Your "aCPM"

Inaccurate data is a primary cause of wasted impressions.

- The aCPM adjusts cost for lost value from data inaccuracy
- Applies the accuracy rate to the original CPM to calculate cost of only the accurate impressions.
- Example: If CPM is \$3.00 and data is 50% accurate, the aCPM would actually be \$6.00
- Taking steps to improve accuracy can significantly reduce aCPM



Team Exercise: Calculate an aCPM





Step 4: Calculate the Cost of Bad Data

Summary



- 1. <u>Prioritize</u>: Establish data accuracy as a top priority equal to media quality
- 2. <u>Be Aware</u>: Keep in mind what goes on behind the curtain and how those steps can affect the accuracy of data segments
- 3. <u>Ask</u>: Seek deeper answers to revealing vendor questions
- 4. <u>Calculate</u>: Assess the value of data options by doing a simple aCPM calculation



Q&A

Presenter



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Moderator

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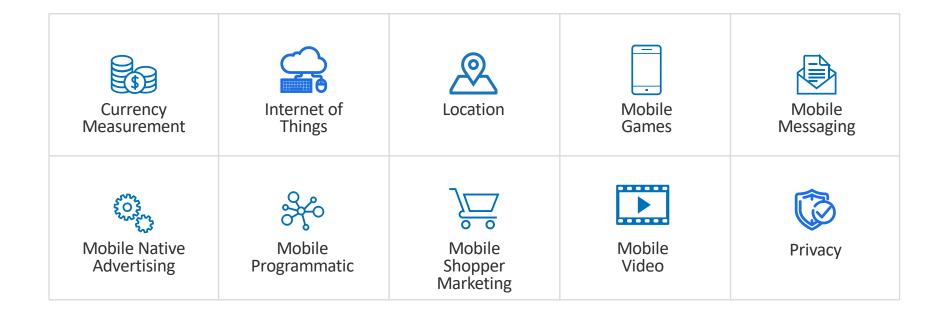
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