Mather Economics

Digital Advertising Revenue Analysis & Pricing Strategy

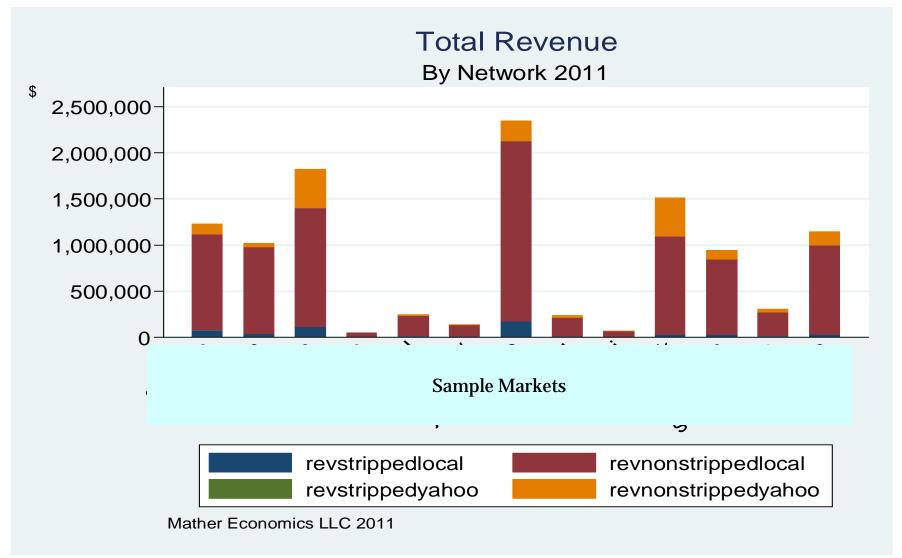
2012

mather:

Mather Economics LLC 43 Woodstock Street Historic Roswell District Roswell, GA 30075 770-993-4111 voice www.mathereconomics.com

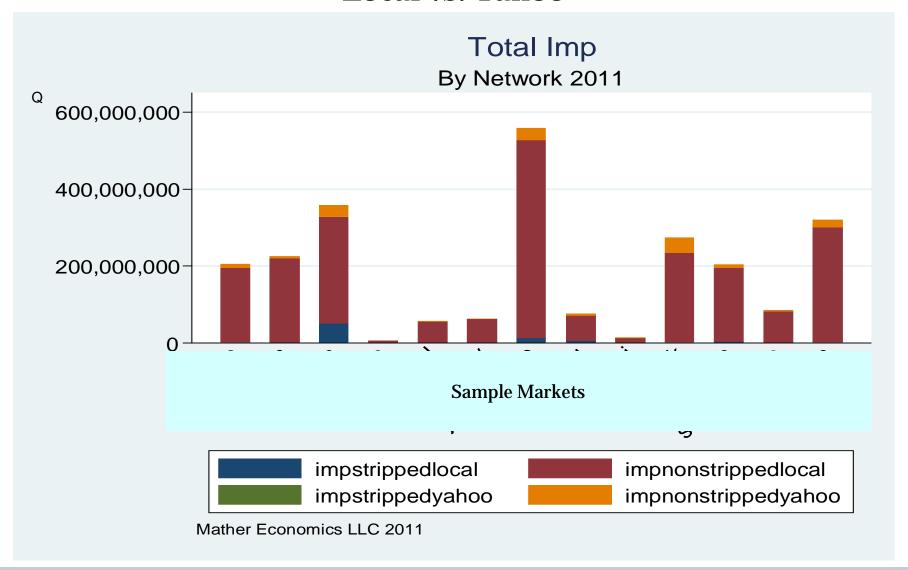
Digital Advertising Analysis & Pricing Strategy

Total Digital Advertising Revenue by Network: Local vs. Yahoo

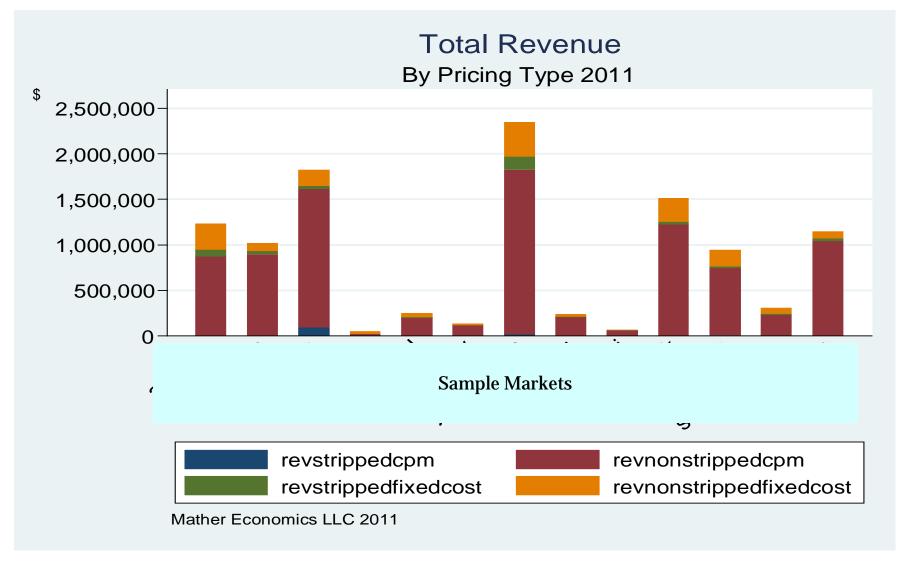


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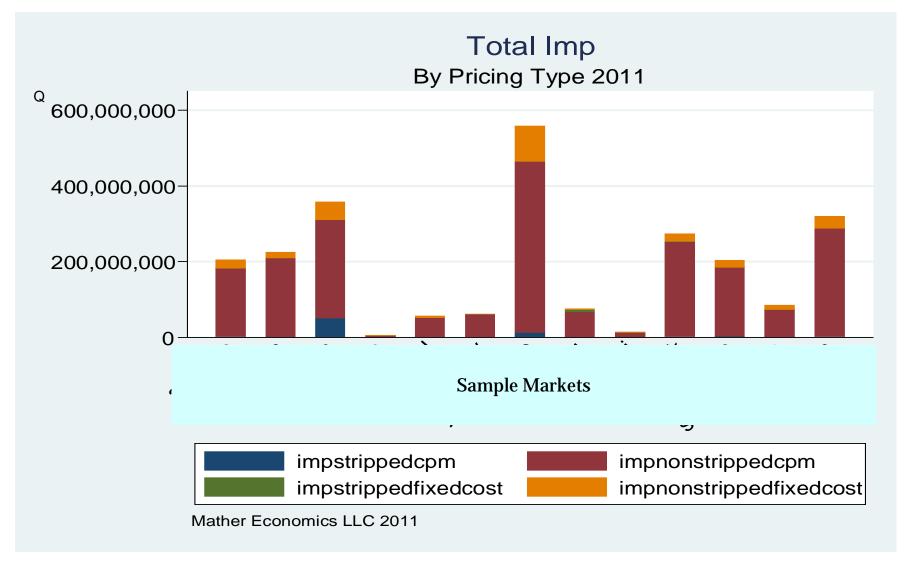
Total Impressions Served by Network: Local vs. Yahoo



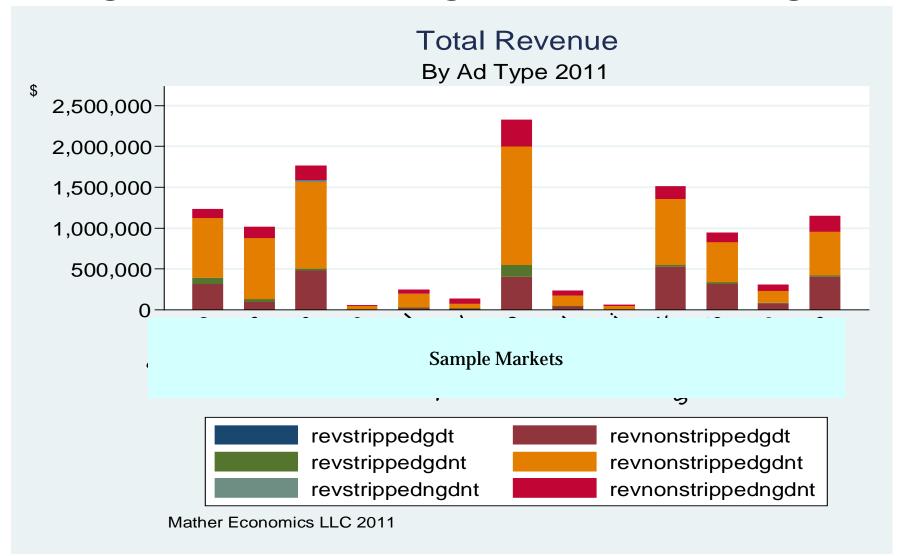
Total Digital Advertising Revenue by Pricing Type: CPM vs. Fixed Price Ads



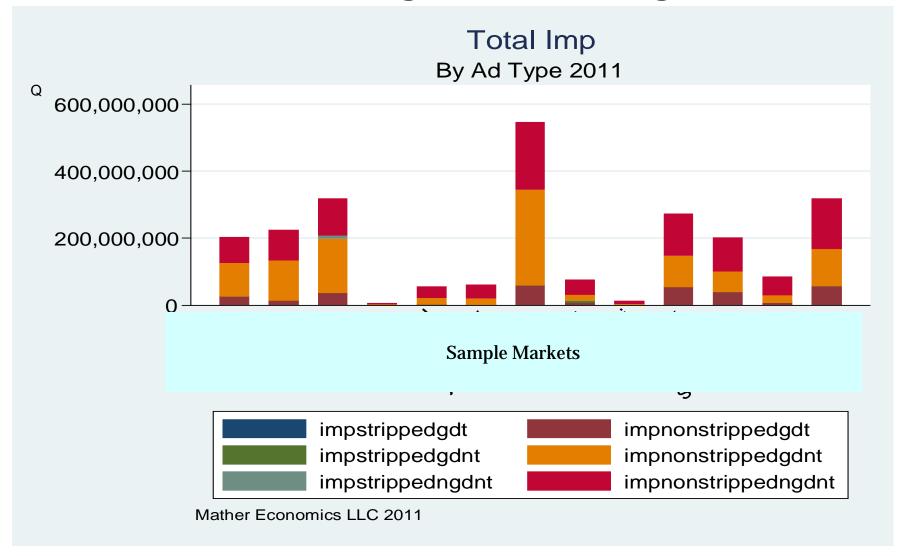
Total Impressions Served by Pricing Type: CPM vs. Fixed Price Ads



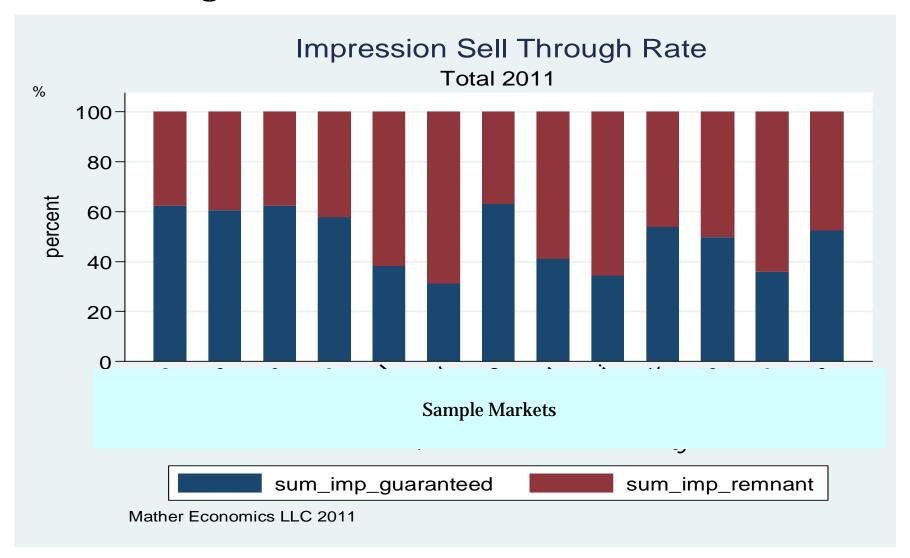
Total Digital Advertising Revenue by Impression Categories: Guaranteed Targeted vs. Guar. Non-Targeted



Total Impressions Served by Impression Category: Guaranteed Targeted vs. Non-Targeted



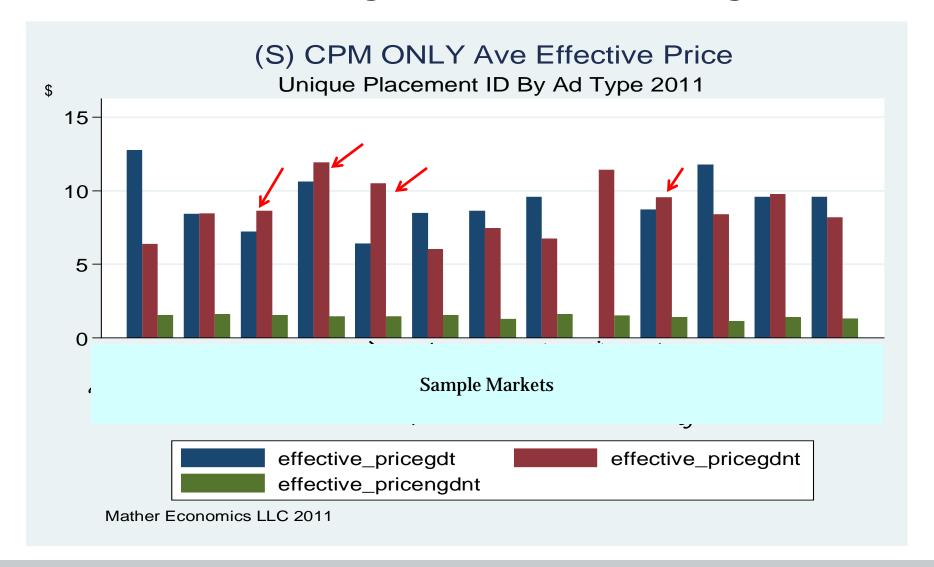
Guaranteed Impressions Sell Through Rate: Average Sell Through Rate is 55% (Guaranteed vs. Remnant)



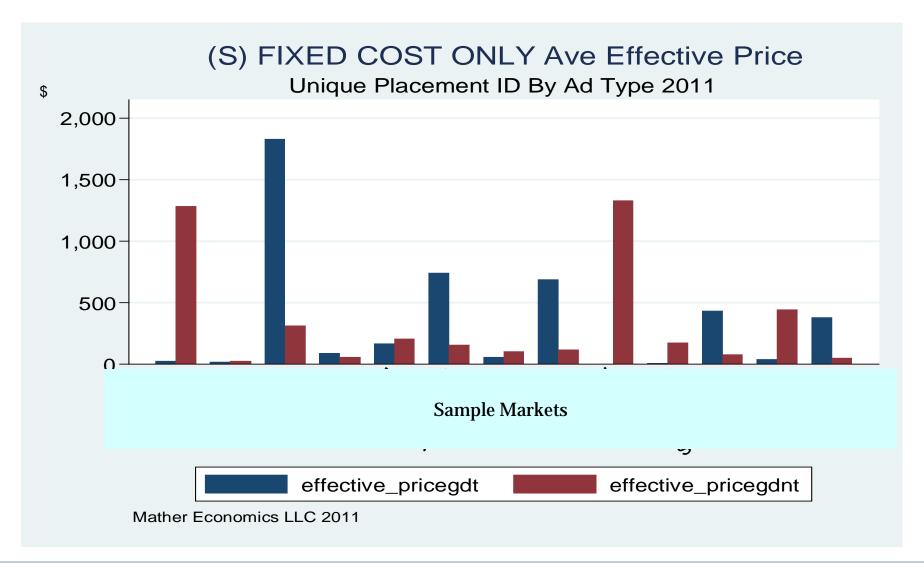
Impression Efficiency = Number of Impressions Needed₁₀ To Generate \$1 in Gross Revenue (Lower is Better)



Average Net CPM by Impression Category: Some Markets Show Lower Targeted CPM Than Non-Targeted



Average Fixed Cost Pricing: Guaranteed vs. Non-Guaranteed (Most Non-Guaranteed)



Common Digital Ad Sizes

Leaderboard A 728x90 D

Wide Skyscraper 160x600

В

Half Page Ad 300x600

M

Mobile 300x50

Medium Rectangle

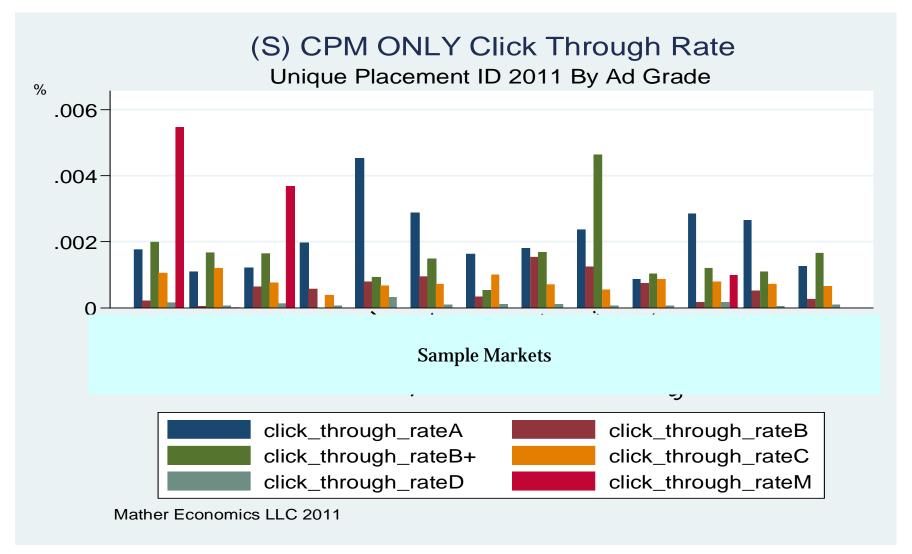
300×250

Square Button 125×125

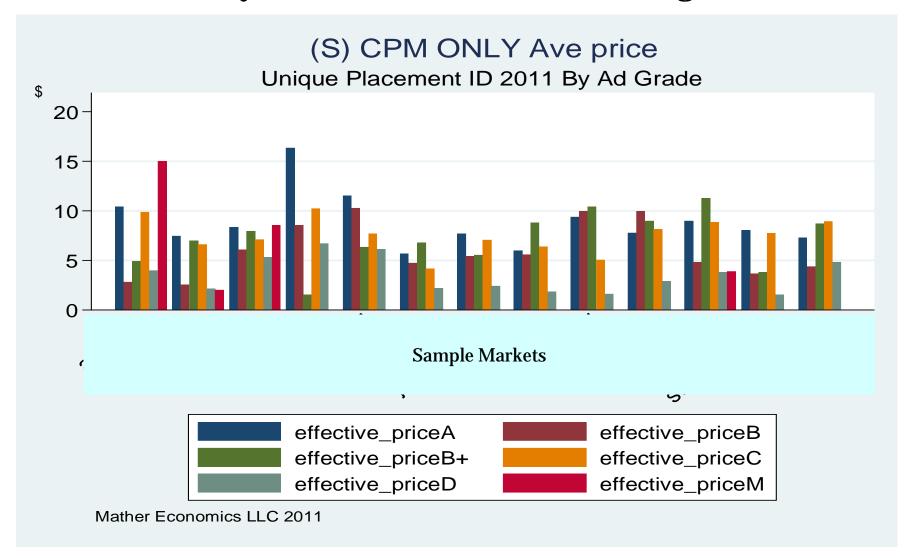
B+



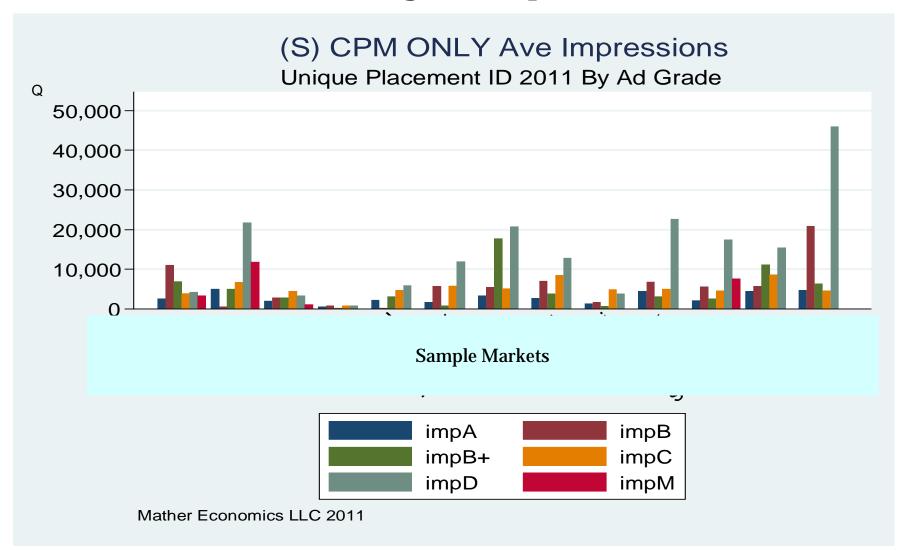
Click Through Rates — CPM Only: Leaderboard Has Highest Click-Through, Half-page Also High



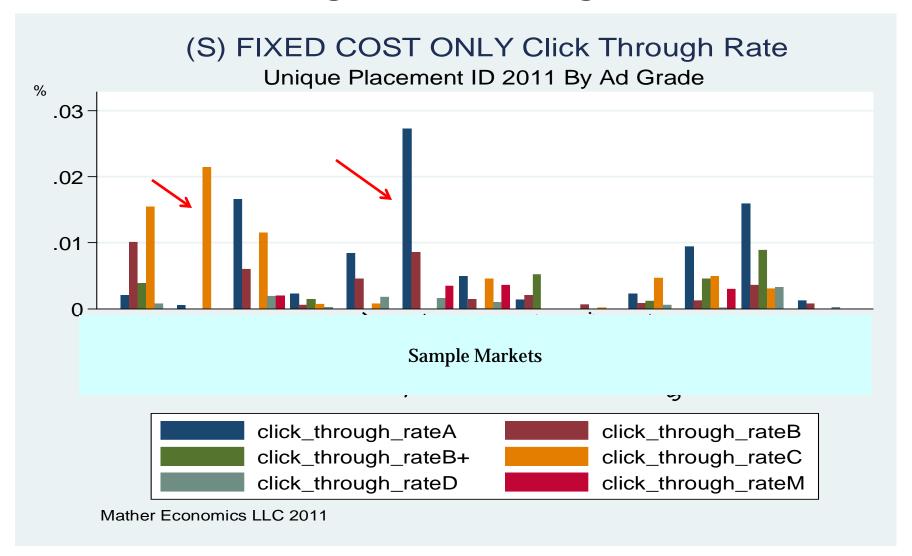
Average Prices By Ad Size – CPM Contracts Only: CPMs not Always Consistent with Click Through Rates



Average Impressions by Ad Size – CPM Only: D position Delivers Highest Impressions



Click Through Rates – Fixed Cost Only: A and C positions Have Highest Click Through Rates

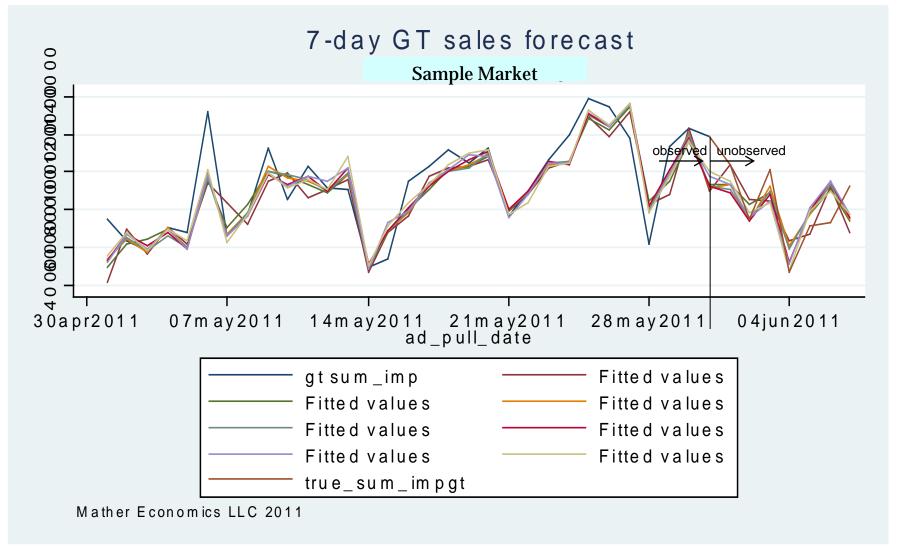


Measuring Price Elasticity Analysis For Digital Advertisers – Combined Networks

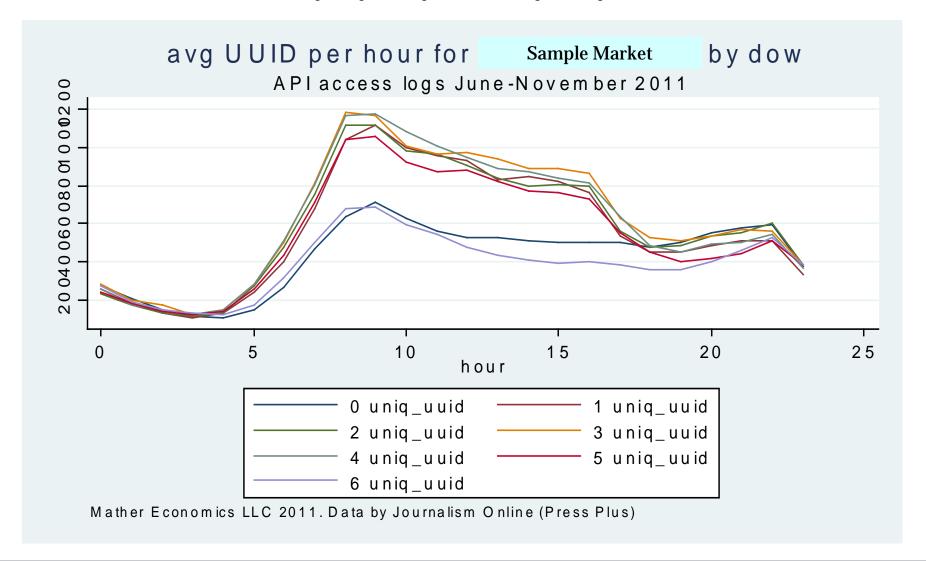
- Elasticities show relationship between price and impressions
- Elasticity = Sensitivity
- Cross-price elasticities show relationship across GDT/GDNT prices and impressions

Cross Price Elasticity Analysis - Combined Networks						
Cross Price Ela			ned Networks			
	Imp - GDT	Imp - GDNT				
Price - GDT	-2.525***	0.0603	Sample Market			
Price - GDNT	-0.481***	0.469***				
Price - GDT	-0.615***	-0.0513	Sample Market			
Price - GDNT	1.105**	-1.856***				
Price - GDT	-0.287***	0.0137	Sample Market			
Price - GDNT	0.359***	0.0894***				
Price - GDT			Sample Market			
Price - GDNT	-0.354**	-0.0835				
Price - GDT	-0.212*	0.216***	Sample Market			
Price - GDNT	0.169	0.358***				
Price - GDT	0.554***	-0.194**	Sample Market			
Price - GDNT	-0.0802	-0.308***				
Price - GDT	-0.210***	-0.0199	Sample Market			
Price - GDNT	0.0473	0.0802				
Price - GDT	-0.607***	-0.0917**	Sample Market			
Price - GDNT	-1.134***	-0.175*				
Price - GDT	0.842**	-0.556***	Sample Market			
Price - GDNT	-0.697**	-1.649***				
Price - GDT	-0.424***	0.0736***	Sample Market			
Price - GDNT	0.249***	-0.0237				
Price - GDT	-0.680***	0.0253	Sample Market			
Price - GDNT	-0.224***	0.0854*				
Price - GDT	0.295	0.518**	Sample Market			
Price - GDNT	0.465	1.972***				
Price - GDT	-0.217***	0.110***	Sample Market			
Price - GDNT	0.190***	-0.113**				

Forecasting Inventory Important For Pricing Optimization (How Much Can We Sell Guaranteed?)



Day Part Targeting & Pricing Potential: Can Forecast Inventory By Day Part By Day Of Week



- Dynamic Rate Card This tool will incorporate analytics on price elasticity and available inventory to offer prices
 - Price elasticity by industry category
 - Value of ads measured by click-through rate
 - Predicted sales updated with actual sales daily

Sample Publication	
CURRENT DATE	9/20/2011

AD TYPE	GT ▼
ADVERTISER	Movie Studios ▼
SIZE	160_600
TARGET TYPE	Hour of Week ▼

	IMPRESSIONS DESIRED	1,000
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order summary:

AVG EFFECTIVE CPM	\$33.89
TOTAL PRICE	\$33,890.31

CONTRACT START 9/28/2011 CONTRACT DAY SELECTION

Week1	9/28/2011	9/29/2011	9/30/2011	10/1/2011	10/2/2011	10/3/2011	10/4/2011
Day	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday
Select	>	~					
Week2	10/5/2011	10/6/2011	10/7/2011	10/8/2011	10/9/2011	10/10/2011	10/11/2011
Day	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday
Select							

Advertising Pricing Conclusions

- Advertising pricing is analogous to other inventory-management pricing optimization opportunities; once inventory "expires", it is worthless
- Price elasticity differs by Line of Business, Sections, Day of Week,
 Volumes; Understanding elasticity critical to pricing success
- Reservation systems enable supply/demand balancing of advertising inventory via pricing process
- Forecasting digital impression inventory important to pricing strategy; Digital Audience pricing needs to be integrated with Advertising pricing
- Dynamic pricing can yield incremental revenue & operating profits;
 Substantial ROI opportunity

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