

#### **MSMI Consulting Team**



July. 24, 2014







- Industry Analysis 2 mins
- Competitive Analysis 5 mins
- Forecasting 8 mins
- Conclusion & Next Steps 2 mins





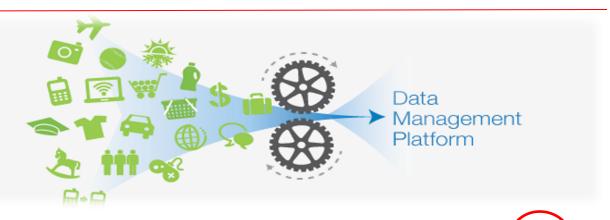
> Industry Analysis

Comparative Analysis

Perceptual Map SWOT Matrix Insights



### **Industry Analysis**



# Only 60% tightly integrate (Construction Marketing Intelligence with decision making

--GIA: "The State of Market Intelligence in 2013"

Because clients want:

- Insights or the facts?
- Specific data on typical problems.
- Doable recommendations & suggestions.



> Industry Analysis

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### **Industry Analysis**

Trend 1

More consolidation in advertising related industries

better negotiating power

economies of scale





> Industry Analysis

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Perceptual Map SWOT Matrix Insights **Industry Analysis** 

But...

More consolidation, even acquisition, for **3**<sup>rd</sup> party research suppliers...

definition inconsistence

brings more challenges

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better negotiating power

Trend 2

creativity



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**Industry Analysis** 

But...

More consolidation, even acquisition, for **3**<sup>rd</sup> party research suppliers

#### definition inconsistence

+ disparate array of services

+ clients' requests for more integrated insights

## brings more challenges

Trend 2



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# **B**

### **Industry Analysis**

Trend 3

# Standardization in the industry is more and more difficult

Opportunity for SMI? Multi-domain Data Standardization Service



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### **Industry Analysis**

#### **Other Trends**

More demands for:

- Audience Segmentation Profiling
- Interest Based Measurement
- Cross-platform Audience Measurement



Industry Analysis

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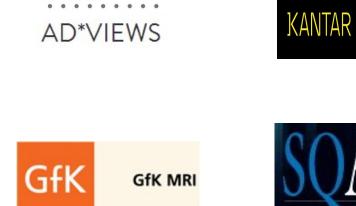
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### **COMPARATIVE ANALYSIS**

#### • 4 major competitors:

nielsen





Ad\$pender

Stradeo

#### • 21 variables:

Features/Benefits/USP/Coverage (media, industry & market) /Data source/Users/Clients/direct competitors/Technology/ etc.



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### **COMPARATIVE ANALYSIS**

Products

Company	Products
SMI	DataMiner
Nielsen	Monitor plus+ Ad *Views
Kantar	Ad\$pender, StrADegy
SQAD	Netcosts, MMG National, WebCosts, Spot TV, Spot Radio, Hispanic Spot TV Plus
Gfk MRI	Survey of the American Consumer, Consumer Insights, Market Solutions



> Industry Analysis

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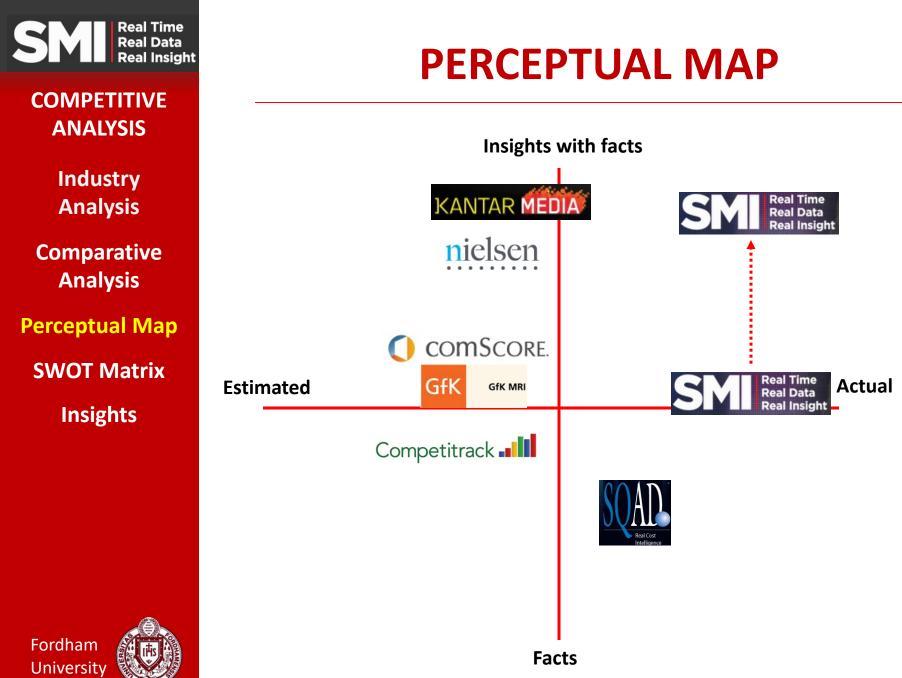
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### **COMPARATIVE ANALYSIS**

#### Media Coverage

Media Type	SMI	Nielsen	Kantar	SQAD	MRI
Broadcast	V	V	V	V	V
Print Media	V	V	V	V	V
Cable	V	V	V	V	
Online	V	V	V	V	٧
Digital	٧	٧	٧		V
Outdoor	٧	V	V		





> Industry Analysis

**Comparative** Analysis

**Perceptual Map SWOT Matrix** Insights

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#### **STRENGTHS WEAKNESSES** 1. 100% accurate data **1.** Fewer services 2. Not yet 100% data coverage 2. Large coverage 3. Less comprehensive data **3.** Transparency 4. Proprietary service 4. Low brand awareness **OPPORTUNITIES THREATS 1.** Growth in various fields 2. Need for deeper and more profound analytics

**SWOT MATRIX** 

**1.** Competition 2. Companies who are masters in digital space

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#### **INSIGHTS FROM COMPETITIVE ANALYSIS**

COMPETITIVE ANALYSIS

> Industry Analysis

Comparative Analysis

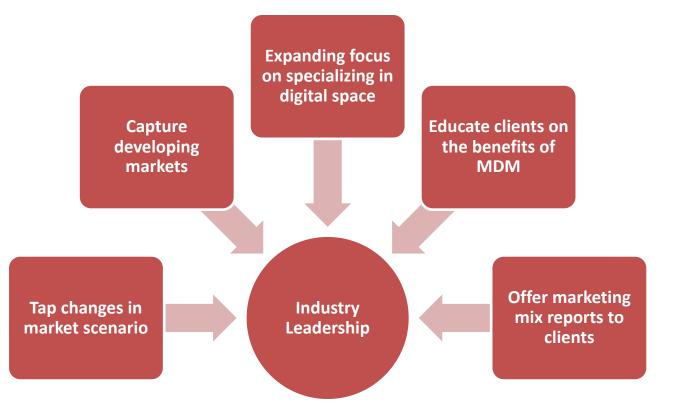
Perceptual Map

SWOT Matrix

Insights

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USP: SMI provides real clarity and timeliness on shifts happening in the media industry by creating standardized coding, and providing relevant and meaningful insights to agencies as well as corporations.





# FORECASTING





#### FORECASTING

Overview

Introduction

Methodology

Regression Analysis & Backtesting

Results

Conclusions and Next Steps

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### **OVERVIEW**

- Developed forecasting models to predict quarter line revenue(domestic/Ad revenue) of public companies
- Models were examined by actual figures of latest 6 quarters
- 8 Companies were examined: Walt Disney Company, Viacom, Discovery Communications, Clear Channel Media Holdings, Yahoo!, AOL, AMC Networks, Google
- 8 out of 8 models (companies) achieved less than 3% Average Absolute Deviation (Average of the 6 quarter absolute error rate)



FORECASTING Overview Introduction Methodology Regression

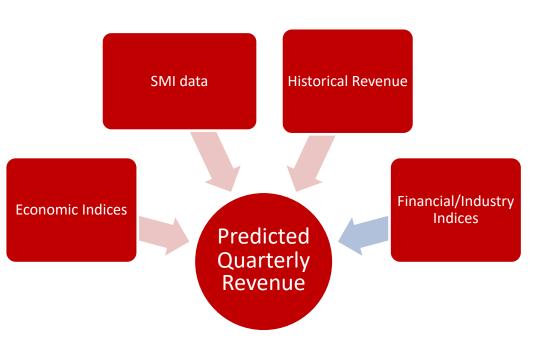
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### INTRODUCTION



Data Source:

- Federal Economic data, Yahoo! Finance, Standard Media Index, Public financial reports
- Time Range: From Jan 2009 Jun2014
  - Every company has a **unique** combination of variables



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### INTRODUCTION

#### **Approach A (Completed)**

Organized at Quarterly Level

-Model valid from: End of current quarter until Release of financial report (at least 1.5 months gap)

\*Shorter valid period, but more accurate

#### **Approach B (Incomplete)**

Organized by every first 2 months of quarter

-Model valid from: End of first 2 months until financial report is released (at least 2.5 months gap)

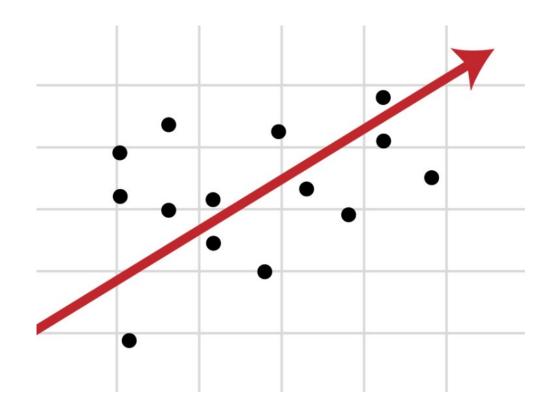


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#### Linear Regression w/ backtesting









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## RESULTS

#### Average Abs Deviation(<u>Approach A</u>): Our team v/s Last team

Company	% Error Our Team	% Error Last Team	% Improvement
*Google	1.50%	8.69%	82.74%
Viacom	1.90%	3.63%	47.66%
AOL	2.53%	4.50%	43.78%
Yahoo!	1.68%	2.98%	43.62%
Disney	2.87%	6.75%	57.48%
Clear Channel	2.81%	1.82%	-
AMC	1.76%	1.81%	2.76%
Discovery	1.80%	1.70%	-

- Google---- All 6 quarters < 2%
- 8 of 8 companies< 3%
- 5 of 8 companies< 2%



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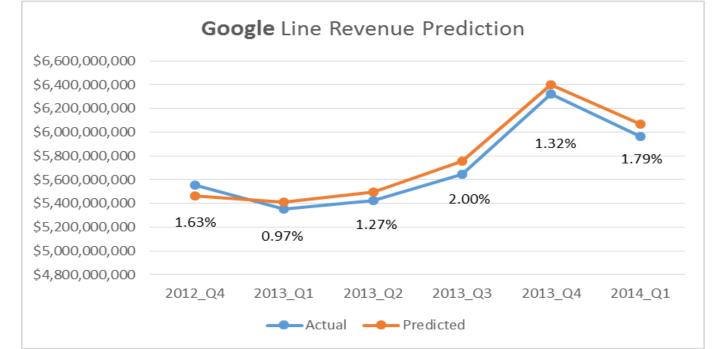
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### **REGRESSION ANALYSIS & CENSORED BACKTESTING**



Historical Revenue	Financial Indices	SMI Data	Economic Indices
Lag_Rev	Avg_NASDAQ, T_Bill_6Month	TotSpend, Digital_US PC_Retail, PC_Finan, PC_Tele, MST_Display	Lag_Avg_GDP

Average Absolute Deviation =1.50%

%Error of all 6 quarters  $\leq 2\%$ 



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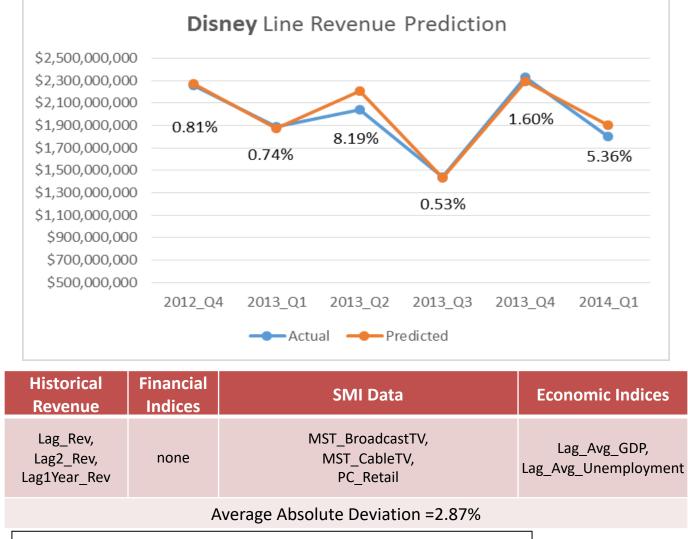
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### **REGRESSION ANALYSIS & CENSORED BACKTESTING**



- %Error fluctuating
- Assumption: Revenue not well explained by Ad spend



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• For further improvement

## RESULTS

#### Average Abs Deviation(<u>Approach B</u>): Our team v/s Last team

Company	% Error Our Team	% Error Last Team
Google	-	8.69%
Viacom	-	3.63%
AOL	-	4.50%
Yahoo!	-	2.98%
Disney	-	6.75%
Clear Channel	2.50%	1.82%
AMC	-	1.81%
Discovery	3.28%	1.70%



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### **REGRESSION ANALYSIS & CENSORED BACKTESTING**

#### Line Revenue Prediction for 2014 Q2 (Approach A)

Company	Prediction	Actual	% Error
Google	5710980800	6030780000	5.30%
Viacom	1335480405	-	-
AOL	346589827	-	-
Yahoo!	951864549	-	-
Disney	1873762069	-	-
Clear Channel	801911834	-	-
AMC	443996174	-	-
Discovery	433567155	-	-



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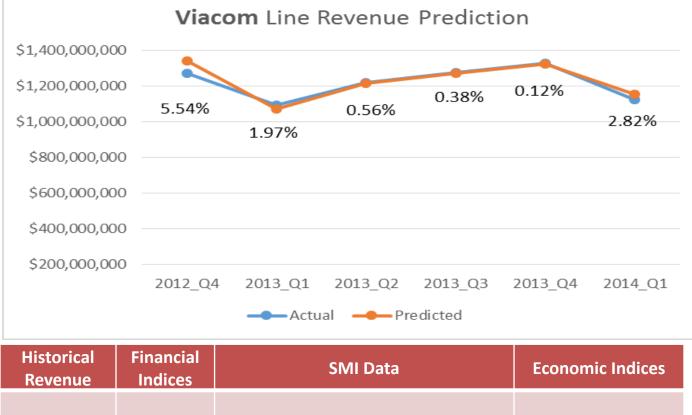
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## **CONCLUSIONS & NEXT STEPS**

- 1. For **Disney**, consider introducing new variables other than Ad Spend (e.g data from entertainment industry)
- 2. Extend the *Approach B* to the next level
- 3. Accuracy impacted by quickly expanding **Ad Spend** data
- 4. Great potential to predict revenue of more public companies, with customized approaches

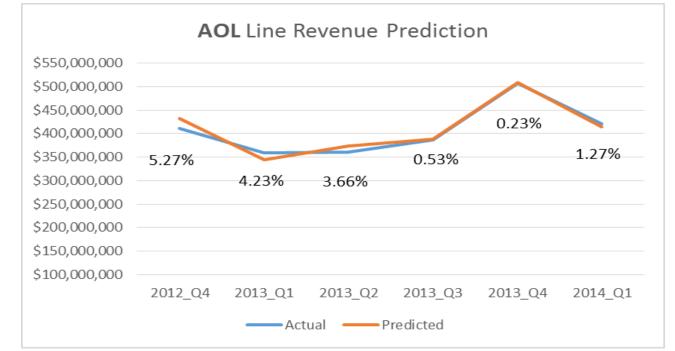




Lag_Rev,	T_Bill_6Month	Magazines_US, Television_US, MST_CableTV, PC_Ent	Lag_Avg_Unemployment	
Average Absolute Deviation =1.90%				

- Very satisfying accuracy
- AAD of latest 5 quarters = 1.17%





Historical Revenue	Financial Indices	SMI Data	Economic Indices
Lag_Rev, Lag2_Rev	none	TotSpend, MST_AdNetwk, MST_Exchng, PC_Auto, Digital_US	none
Average Absolute Deviation =2.53%			

- %Error significantly dropping
- AAD of latest 3 quarters= 0.68%



