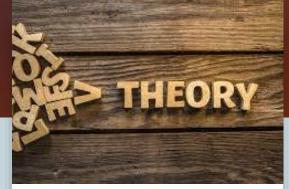
# **Death to Buckets**

Fundraising Decisions at the Individual Level

# SIMIOCLOUD

### Agenda







Segmentation in the nonprofit industry is behind the times.

The Challenges of Donor Segmentation The Solution in Theory

The Solution in Practice

Competition for donors is fierce as the donor pool shrinks.

It's time to utilize data science to fully optimize your fundraising efforts.

### Challenges

### **Organizational Alignment**



Is there an internal fight for the donor?



Event Attendees, Grateful Patients and Volunteers



Mid-level and Major donors



Membership Program versus Donors?





## **The Cultivation Fallacy**



"Acquire new donors through any means, we will cultivate them"

"Our messaging and mission appeal will win them over"



Most programs essentially promote ALL 0-12 month recency donors



Organizations have as many "onetime" donors as they have "multidonors" Is your new donor acquisition plan tied to long-term value?



## **The Cultivation Fallacy**



Acquire the "right" donors who are predicted to convert and provide high long-term value

Remove new donors predicted to have low long-term value from systematic campaigns

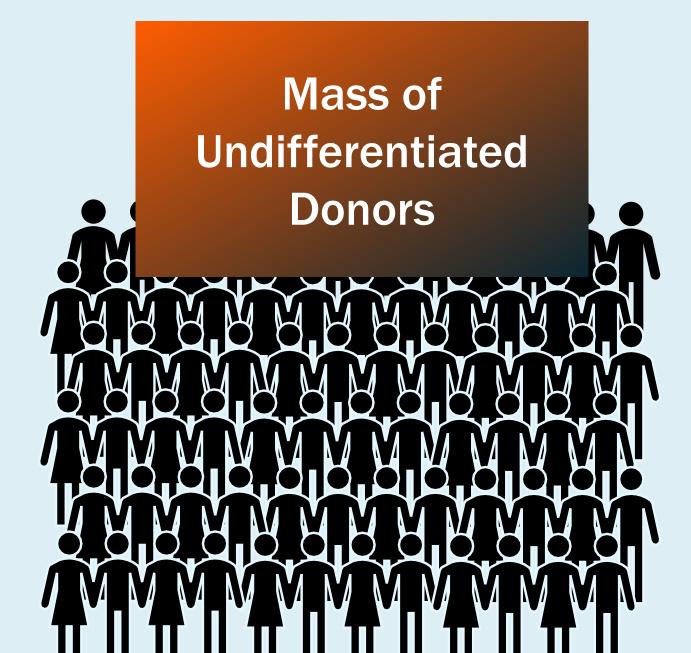




Initial gift amount is ALWAYS a powerful predictor of long-term value, but isn't the only one



One-time givers help short term cash flow, but you should control longer term cost Is your new donor acquisition plan tied to long-term value? – WHY NOT?





### Intuition

Intuition is used to determine marketing strategy

# <u>5</u>23

### Singular Thinking

One "lever" is used to separate the masses for simplicity



### Budgets

Budgets define campaign volume versus predicted performance setting the budget

### What is a "BUCKET"?

The "Mass of Undifferentiated Donors" are broken into segments based upon a finite number of characteristics

✓
RFM

The traditional solution is <u>Recency</u>, <u>Frequency</u> and <u>Monetary</u> Values of past donations



Sophisticated buckets add Acquisition Channel and Demographic Information

## Leaky BUCKET Problem?

A "segment" is a collection of few to many donors who will all be treated in the same fashion

### **Big Buckets**

Some segments are too large, so additions are layered on based upon "universal" understanding, not "local" knowledge

### **Potential Error**

There was no <u>direct</u> statistical support for the splitting of segments



## Simpson's Paradox

A phenomenon in which a trend appears in several different groups of data (buckets!) but disappears or reverses when the groups are combined (all donors)

### **Marginal Segment**

A large segment has shown to be marginal in the past, so split it with a universal truth? (e.g., females outperform males)

### **Potential Error**

It is possible that in this localized segment (or in many segments), males outperform females.



#### Lack of Meaningful Bucket Data





### **One-Time Donors**

While better than nothing, one transaction is not enough to make informed decisions



### Lapsed/Dormant Donors

Really "old" information becomes less relevant in distinguishing a good bucket from bad

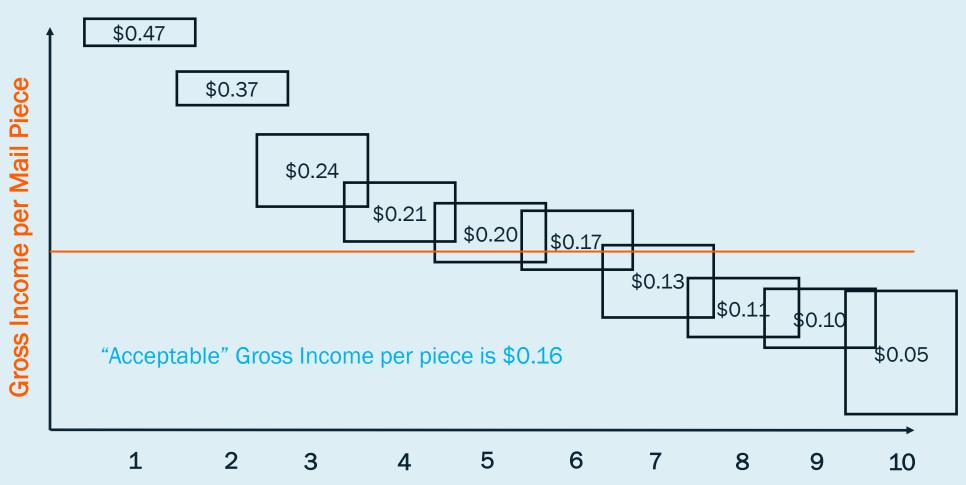


### Consumer Data

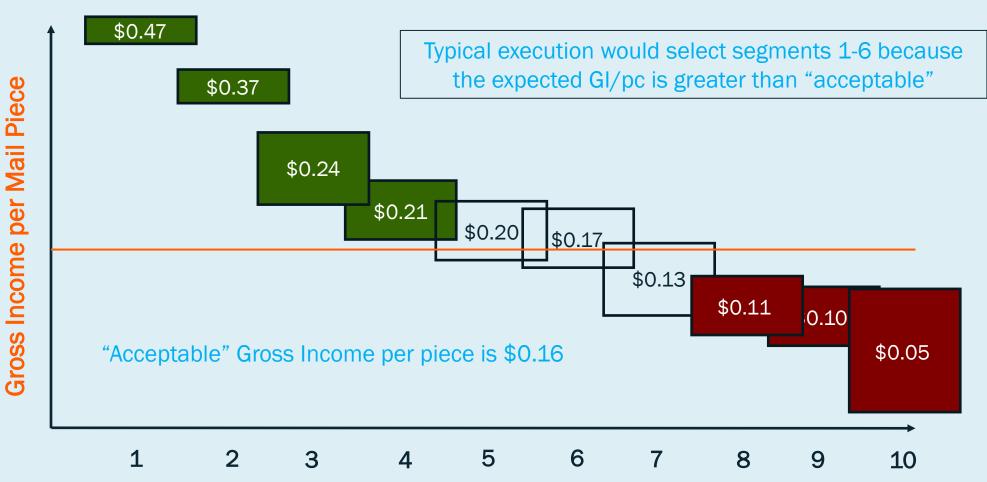
Manually adding consumer data is costly and prone to error



**Donor Segments** 



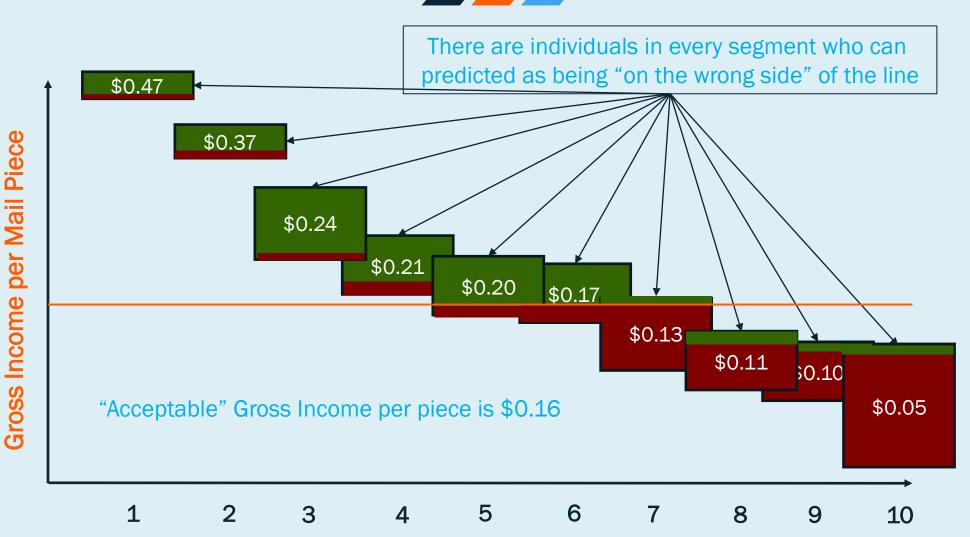
Ranked Donor Segments



Ranked Donor Segments



Ranked Donor Segments



Ranked Donor Segments

### **The Solution in Theory**

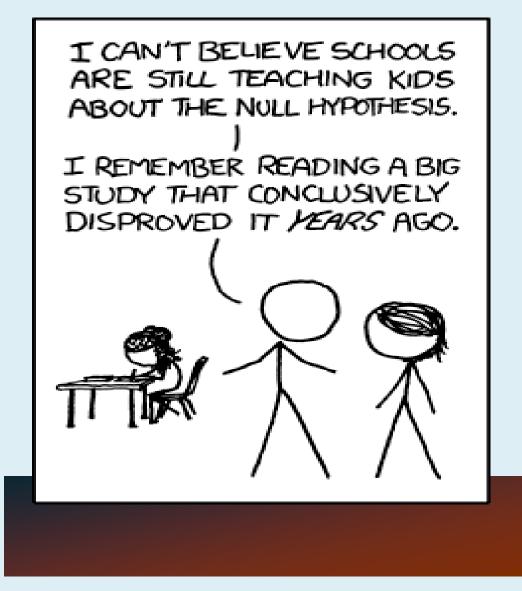
Extensive data exists on all donors

Each donor is a bucket

Algorithms or Models are created using <u>ALL</u> the data

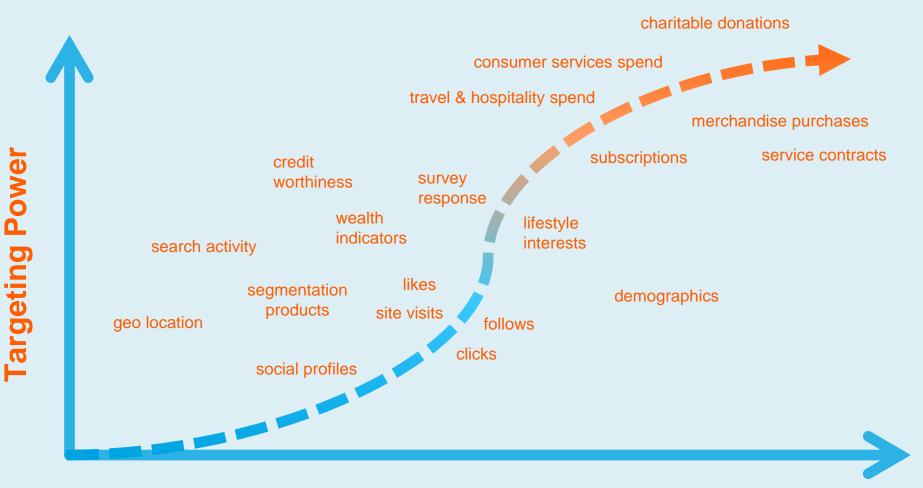
Models are predictions of response, revenue and/or long-term value

Fundraising decisions are, therefore, made at the donor level, not with leaky buckets



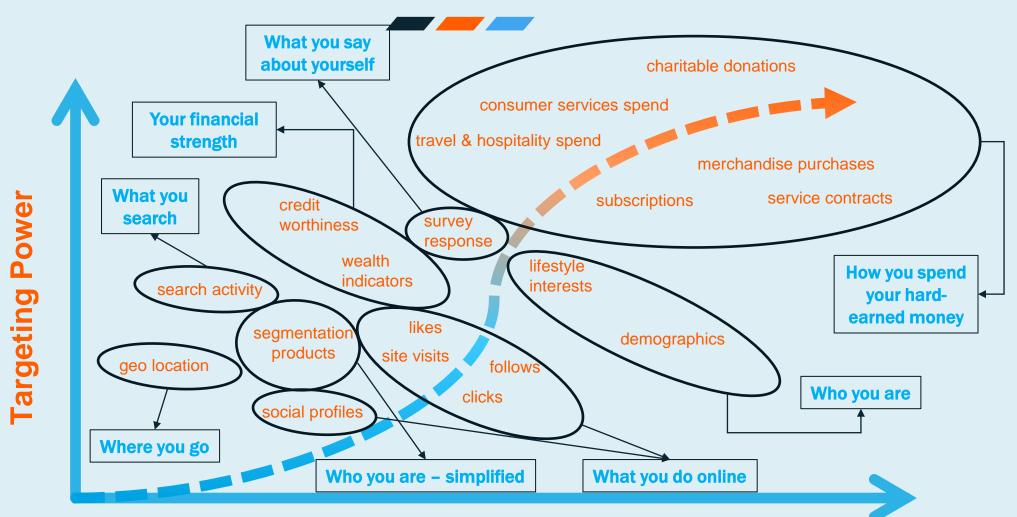
### **VAST CONSUMER DATA**



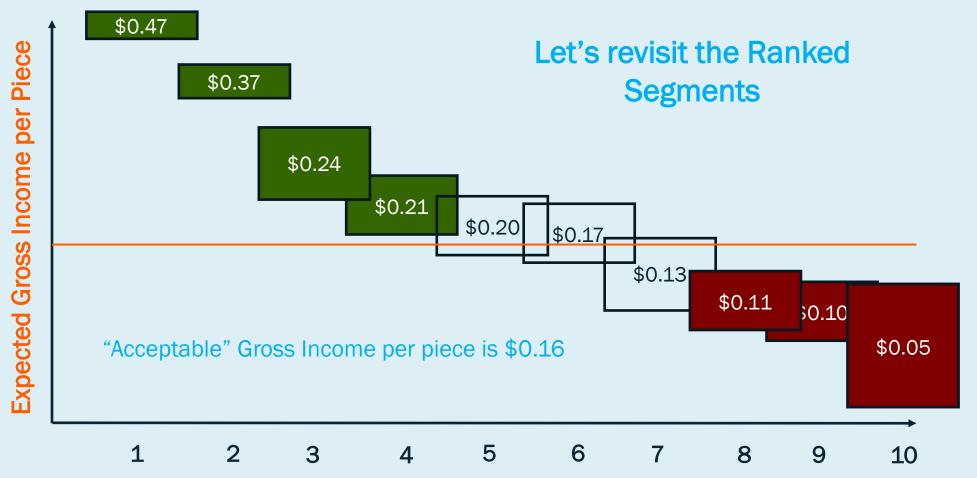


**Brand to Direct Marketing Spectrum** 

### **VAST CONSUMER DATA**



**Brand to Direct Marketing Spectrum** 

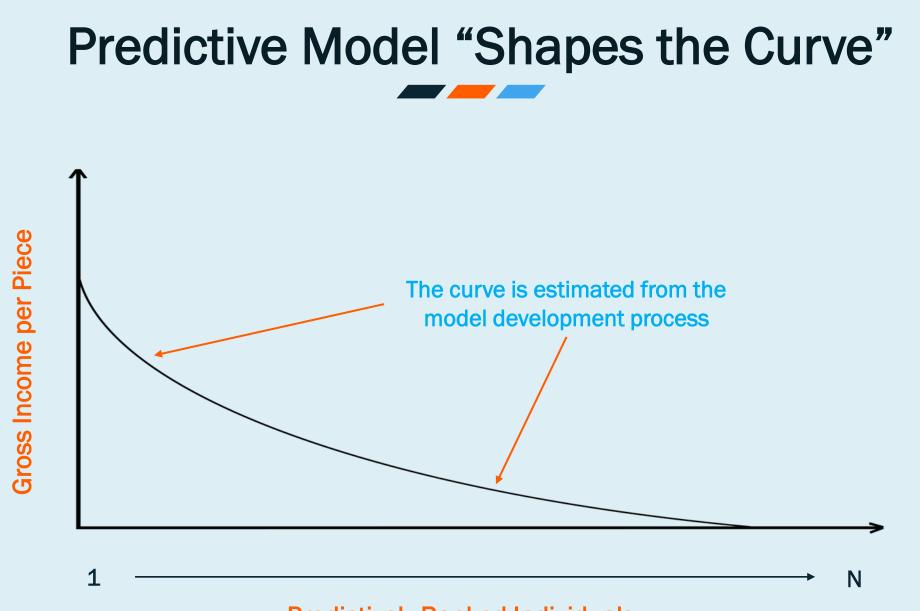


Ranked Donor Segments

# **Predictively Ranking Individuals**

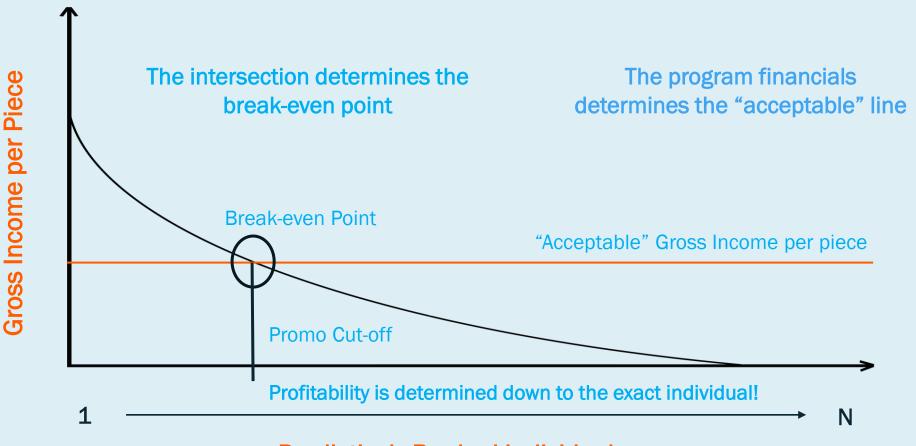






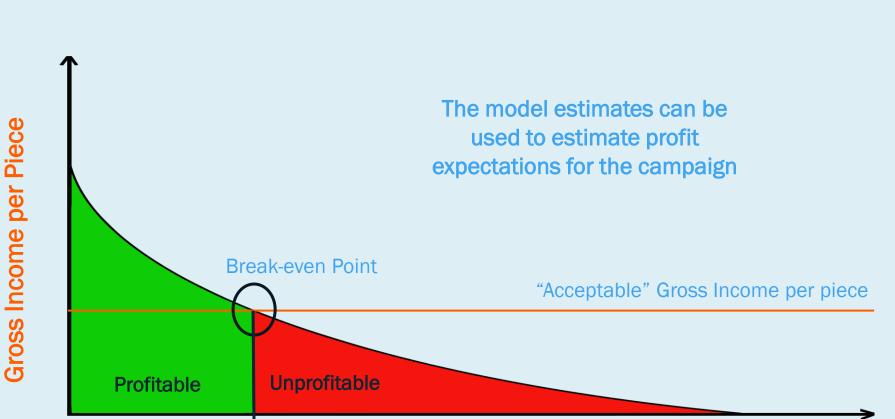
**Predictively Ranked Individuals** 

## **Determining Promotion Cut-Off**



**Predictively Ranked Individuals** 

### **Predicted Profit Can Be Estimated**



**Predictively Ranked Individuals** 

Ν

1

### **The Solution in Practice**

The "Segmentation Process" in place for many organizations is very complex

#### **Lapsed Donor Reactivation**

Mixture of Segmentation, Processing and Model Scores

#### **Donor Renewal**

Segmentation

Model scores are not typically utilized in nonprofit



## Lapsed Donor Segmentation

#### The "Superdupe" Approach

## Rationale: Allow for interactions of lapsed donors and outsourced acquisition names

Segment Description	Latest Donation Amount	Sum of Count
37-48 mo, Multi-Gift		<mark>11304</mark>
37-48 mo, Single-Gift		<mark>8507</mark>
49-60 mo, Multi-Gift		9729
49-60 mo, Single-Gift		<b>11505</b>
61-120 mo, Multi-Gift		<mark>31038</mark>
61-120 mo, Single-Gift		<b>36391</b>
121+ mo, Multi-Gift		14383
121+ mo, Single-Gift		24401
Grand Total		147258

#### Steps

- A. Insert all lapsed donors into the Merge/Purge
- B. Allow for acquisition sources to deliver lapsed donors names
- C. Flag and select for mail all that "overlap"

#### **Potential Issues**

- A. How are lapsed donors defined?
- B. Expected counts of superdupes is variable
- C. Changes in "mixture" of outsourced names has unknown affect on performance
- D. Managing outsource vendors is troublesome

## **Lapsed Donor Segmentation**

#### **The Balance of Lapsed Names**

Rationale: Select the intersection of segments and top model segments

		Model Score									
Segment Description	Latest Donation Amount	01	02	03	04	05	06	07	08	09	10
49-60 mo, Single-Gift	C: \$10-14.99	127	449	696	986	1140	1188	2154	2126	1066	3047
	D: \$15-24.99	112	303	444	592	612	723	1475	1293	488	1877
	E: \$25-49.99	104	311	426	573	584	659	1407	1296	454	1759
	F: \$50-99.99	66	92	121	132	258	152	352	490	111	467
	G: \$100-249.99	25	54	39	42	126	60	135	193	29	130
	H: \$250-499.99	1	1	2	4	4	1	4	6	5	7
	I: \$500-999.99	1	1	1	3		1	2	5		3
	J: \$1,000-1,999.99			1		1	1	1			2
	K: \$2,000-4,999.99										
	L: \$5,000-9,999.99	1								1	
	M: \$10,000+										

#### **Potential Issues**

- A. Mix of names that "fall" into this process changes depending upon superdupes
- B. Segments are assumed to be as important as model scores
- C. Model may not be aligned with the campaign objective, e.g. targeting prospects versus lapsed donors
- D. Model scores are "cherry picked"

## **Lapsed Donor Segmentation**

#### The Balance of Lapsed Names

#### Rationale: Select the intersection of segments and top model segments



- C. Model may not be aligned with the campaign objective, e.g. targeting prospects versus lapsed donors
- D. Model scores are "cherry picked"

# **Donor Renewal Segmentation Example**

#### Renewal Names Methodology:

Create buckets based upon Recency, Frequency, Gift Amount & Package

					NTF - DIRECT	Package	Non-Package
Recency	Frequency	Largest Gift Amount	Total File	Mid-Level*	MAIL	Responsive	Responsive
0-3 mos	MULTI	\$0.01 - \$4.99	1119	0	0	703	416
	MULTI	\$5.00 - \$9.99	3252	0	5	1363	1884
	MULTI	\$10.00 - \$14.99	31302	1	1	13670	17631
	MULTI	\$15.00 - \$24.99	41981	2	2	18048	23928
	MULTI	\$25.00 - \$49.99	68553	16	7	25629	42902
	MULTI	\$50.00 - 99.99	40415	220	3	13714	26267
	MULTI	\$100.00 - \$249.99	28799	975	0	8187	16289
	MULTI	\$250.00 - \$499.99	3345	428	0	394	1127
	MULTI	\$500.00 - \$999.99	1677	490	0	129	375
	MULTI	\$1,000.00 - \$1,999.99	646	386	0	58	154
	MULTI	\$2,000.00 - \$4,999.99	145	101	0	11	38
	MULTI	\$5,000.00 - \$9,999.99	41	21	0	4	9
	MULTI	\$10,000+	9	3	0	1	6

#### **Potential Issues**

- A. Segment definitions, e.g. Largest Gift Amount
- B. Large segments



#### **Opportunities**

- A. Use models to simplify the process for donor selections
- B. Use of models will precisely indicate which donors should be promoted
- C. Develop models specific to package types

## Low Risk Model Evaluation & Testing

How can you evaluate models relative to current segmentation methodology?

#### Simple Approach to Identify the Opportunity

- A. Develop Models
- B. Generate Selection using Segmentation Method
- C. Generate Selection using Model
- D. Enumerate the Overlap
- E. Determine the Opportunity
- F. Test in Market

Selected?		Modeled				
3	electeur	Yes	No			
Segmentation	Yes	Agree: Promote	Re-key and Promote			
Segme	No	Key & Test	Agree: Do Not Promote			

If either the "Segment Only" or "Model Only" quantities are large, the opportunity for performance improvement with the model exists

## Low Risk Model Evaluation & Testing

**Some Important Considerations** 

#### **Considerations:**

- A. Overall Size of the Universe / Donor File
- B. Availability of Data to Develop Effective Model
- C. Cost of the Model Development / Application
- D. Organizational Alignment / Agreement for Process Change

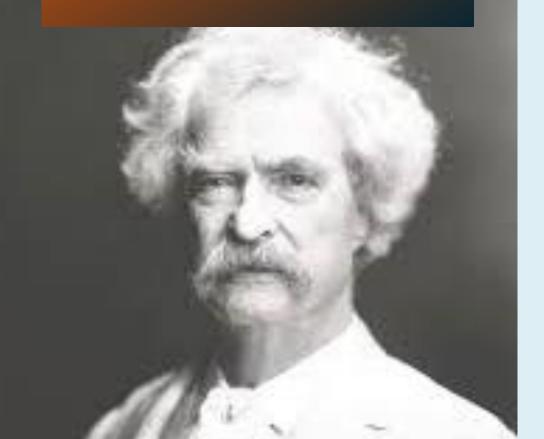
Selected?		Modeled				
3		Yes	No			
mentation	Yes	Agree: Promote	Re-key and Promote			
Segme	No	Key & Test	Agree: Do Not Promote			

## So is it a Bucket Funeral?





### Reports of my death are greatly exaggerated" – Mark "McBuckets" Twain



### **Segmentation versus Modeling?**



### Small Organizations

Segmentation for donor file Modeling for Acquisition



### Mid-Sized Organizations

Segmentation or modeling for donor file

Modeling for Acquisition



### Large Organizations

Predictive modeling should be used for:

- Renewal Programs
- Donor Upgrades to Mid-level, Sustainer and Major Donor
- Lapsed Renewal
- Modeling for Acquisition

### What Should You Do?





Ask Yourself: Is Your Segmentation Optimal?



Consult with an Analytical Expert



#### Engage with a Data Company Execute a project that accomplishes the following:

- Understand how your selection process will change
- Use actual data & build predictive models
- · Identify the opportunity for improvement
- Test, test, test

## THANK YOU DOUG KACZMAREK dkaczmarek@mooredmgroup.com SimioCloud.com

