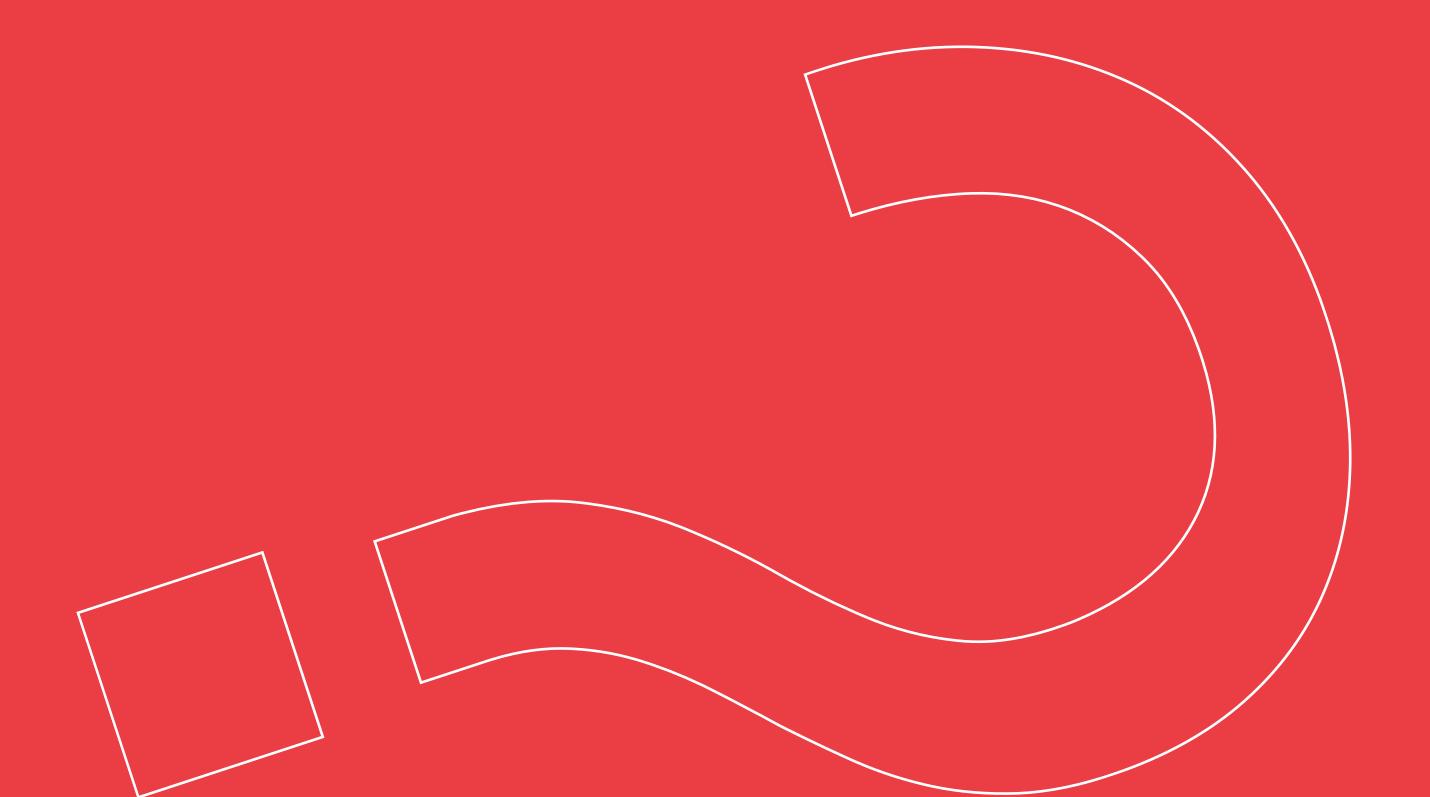
### BUS 139 Data-driven Marketing



#### Step 2: Collection and Preparation



The reason we use data is to make better business decisions and that starts by asking questions.



1. **Customer Data**Demographics, social media behavior, segmentation etc.

2. Response Data

Campaign metrics, open rate,
click-through-rate,
engagements, etc.

3. Sales and Financial Data
Sales forecasts, eCommerce,
lifetime value, marketing
contribution, ROI, etc.

4. **Goal-based Data**Conversion, key performance indicators (KPIs), retention, acquisition, awareness, etc.

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# 4. **Goal-based Data**Conversion, key performance indicators (KPIs), retention, acquisition, awareness, etc.

### Data problems typically come in two forms: too much and not enough.

```
CHARTS
           SALES REPORTS
COMMENTS
            PURCHASE ORDERS
           HISTOGRAMS
                        EMAIL CAMPAIGNS
                             Q2 SALES
    NET PROMOTER SCORES
SOCIAL NETWORK DATA AGE YOUTUBE ANALYTICS
```

WEBSITE ANALYTICS

## There is no "right" data. Data are always context specific.

- (A) Demographics
- B Psychographics
- C Purchasing history
- D All of the above

## Four-step process to collect and prepare data to answer a question.

STEP 1: CREATE A QUESTION

STEP 2: IDENTIFY THE ATTRIBUTES OF THE QUESTION

STEP 3: IDENTIFY THE DATA SOURCES OF THE ATTRIBUTES

STEP 4: PREPARE THE DATA FOR ANALYSIS

## Four-step process to collect and prepare data to answer a question.

WHICH CUSTOMERS SPEND THE MOST \$ ON OUR PRODUCT?

DEMOGRAPHICS, SALES HISTORY, STORE LOCATIONS, ETC.

WEBSITE METRICS, PURCHASE HISTORY, ETC.

MISSING DATA? MESSY DATA? NO DATA?

#### STEP 1: CREATE A QUESTION

#### What are the right questions to ask?

- Questions that lead to sales
- Questions that inform you of your competition
- Questions that reveal something about your customer
- Questions that lead to action

#### STEP 2: IDENTIFY THE ATTRIBUTES OF THE QUESTION

## Which data inputs should we use to surround the question?

- Customer Data
- Response Data
- Sales and Financial Data
- Goal-based Data

#### STEP 3: IDENTIFY THE DATA SOURCES OF THE ATTRIBUTES

#### Where do data come from?

- Make it
- Scrape it
- Buy it
- Harvest it

#### STEP 4: PREPARE THE DATA FOR ANALYSIS

#### What to do when data isn't perfect?

- Organize
- Enhance
- Enrich
- Replace

#### Preparation, like the data itself, is always context specific.

#### BINNING

CUSTOMER AGES			
31			
33			
31			
32			
36			
31			
38			
32			
33			
39			
34			
37			
35			
31			

#### ANOMALIES

AVG. RESPONSE RATE
2.1%
2.3%
1.8%
16%
3.1%
1.4%
1.6%
1.9%
2.0%
2.3%
2.2%
1.7%
0.02%
1.3%

#### INSPECTION

GENDER
M
F
M
M
M
F
F
U
M
F
F
M
M

#### **Example:**

What is the impact of customer churn reduction on my revenue?

#### **Example:**

What is the impact of <u>customer</u> churn reduction on my <u>revenue</u>?

Number of Customers

Amount of Churn

**Total Revenue** 

#### The model you create simply quantifies the attributes.

	Churn Reduction Impact = <u>Customers</u> x <u>Revenue</u> x <u>Churn</u>		
	Input		
What is the impact of customer churn on my revenue?	Customer Base	5,000	
	Annual revenue per customer	\$720	
	Annual Churn Rate	30.0%	
Assumptions	Churn rate reduced by 5%	28.5%	
	Churn rate reduced by 10%	27.0%	
	Churn rate reduced by 25%	22.5%	
	Churn Analysis		
Impact	Total revenues (no churn)	\$3,600,000	
	Customers lost to churn	1,500	
	Revenues lost to churn	\$1,080,000	
	Revenues with churn	\$2,520,000	
	Revenues lost with 5% churn reduction	\$1,026,000	
	5% churn reduction revenue impact	\$2,574,000	