

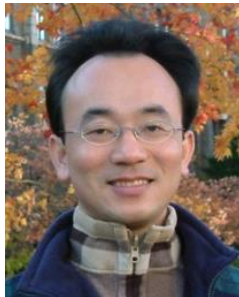
## 社群網路行銷分析

### 社群網路行銷研究 (Social Media Marketing Research)

1032SMMA03

TLMXJ1A (MIS EMBA)

Fri 12,13,14 (19:20-22:10) D326



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2015-03-20



# 課程大綱 (Syllabus)

週次 (Week)	日期 (Date)	內容 (Subject/Topics)
1	2015/02/27	和平紀念日補假(放假一天)
2	2015/03/06	社群網路行銷分析課程介紹 (Course Orientation for Social Media Marketing Analytics)
3	2015/03/13	社群網路行銷分析 (Social Media Marketing Analytics)
4	2015/03/20	社群網路行銷研究 (Social Media Marketing Research)
5	2015/03/27	測量構念 (Measuring the Construct)
6	2015/04/03	兒童節補假(放假一天)
7	2015/04/10	社群網路行銷個案分析 I (Case Study on Social Media Marketing I)
8	2015/04/17	測量與量表 (Measurement and Scaling)
9	2015/04/24	探索性因素分析 (Exploratory Factor Analysis)

# 課程大綱 (Syllabus)

週次 (Week)	日期 (Date)	內容 (Subject/Topics)
10	2015/05/01	期中報告 (Midterm Presentation)
11	2015/05/08	確認性因素分析 (Confirmatory Factor Analysis)
12	2015/05/15	社會網路分析 (Social Network Analysis)
13	2015/05/22	社群網路行銷個案分析 II (Case Study on Social Media Marketing II)
14	2015/05/29	社群運算與大數據分析 (Social Computing and Big Data Analytics)
15	2015/06/05	社群網路情感分析 (Sentiment Analysis on Social Media)
16	2015/06/12	期末報告 I (Term Project Presentation I)
17	2015/06/19	端午節補假 (放假一天)
18	2015/06/26	期末報告 II (Term Project Presentation II)

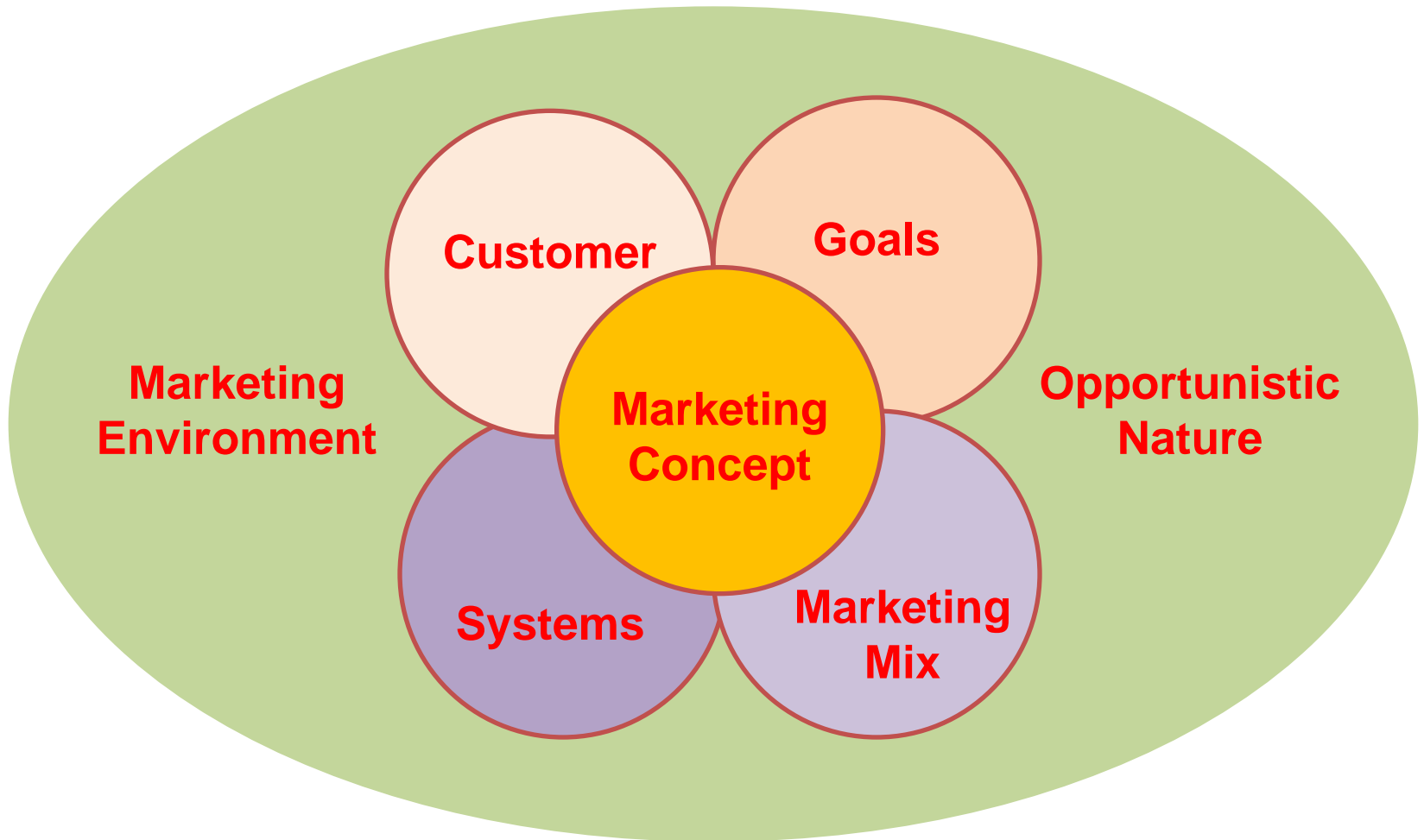
# Outline

- Marketing Research
- The Marketing Research Process
- Basis of Social Media Marketing Theory

# Marketing Research

- Marketing Research is the planning, collection, and analysis of data relevant to marketing decision making and the communication of the results of this analysis to management.

# The Nature of Marketing Research



# Capturing Marketing Insights

- Collecting Information and Forecasting Demand
- Conducting Marketing Research

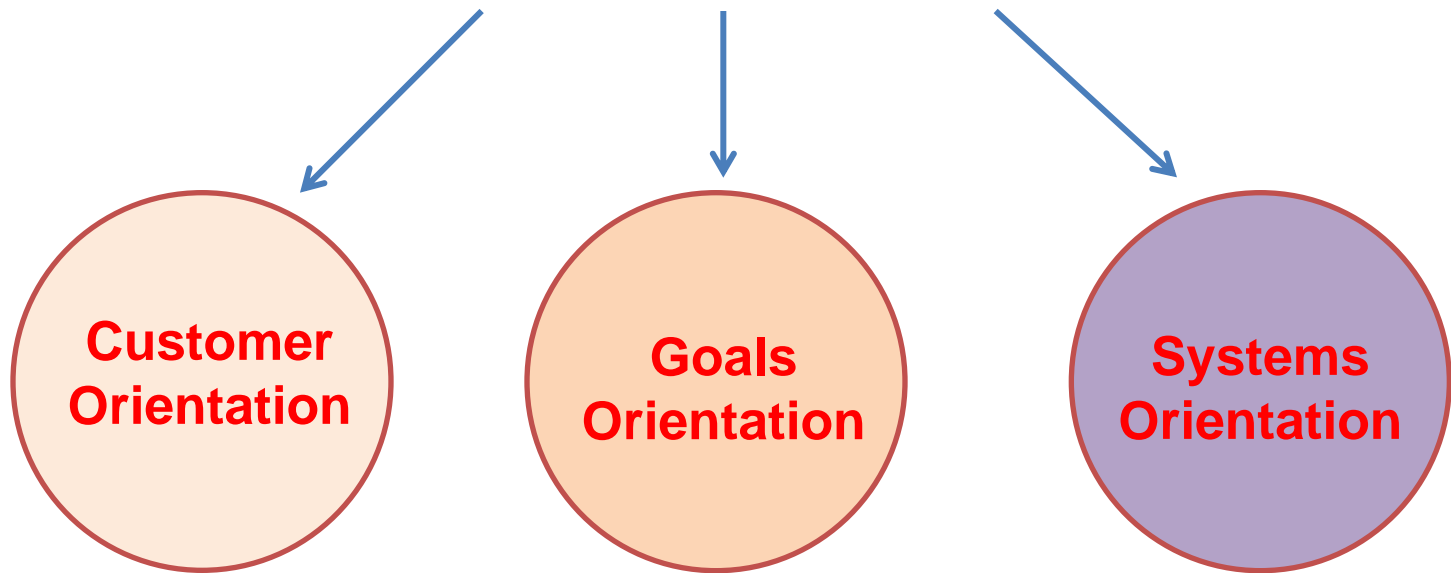
**Good marketers  
need **insights**  
to help them  
interpret past performance  
as well as  
plan future activities**



# Marketing Research

**systematic design, collection,  
analysis, and reporting of  
data and findings  
relevant to a specific  
marketing situation  
facing the company.**

# Definition of Marketing Research



# The Marketing Research Impact

## Its Importance to Management – Three Critical Roles

- Descriptive
  - The gathering and presenting of statements of fact
- Diagnostic
  - The explanation of data or actions
- Predictive
  - The specification of how to use descriptive and diagnostic research to predict the results of a planned marketing decision

# The Problem Definition Process

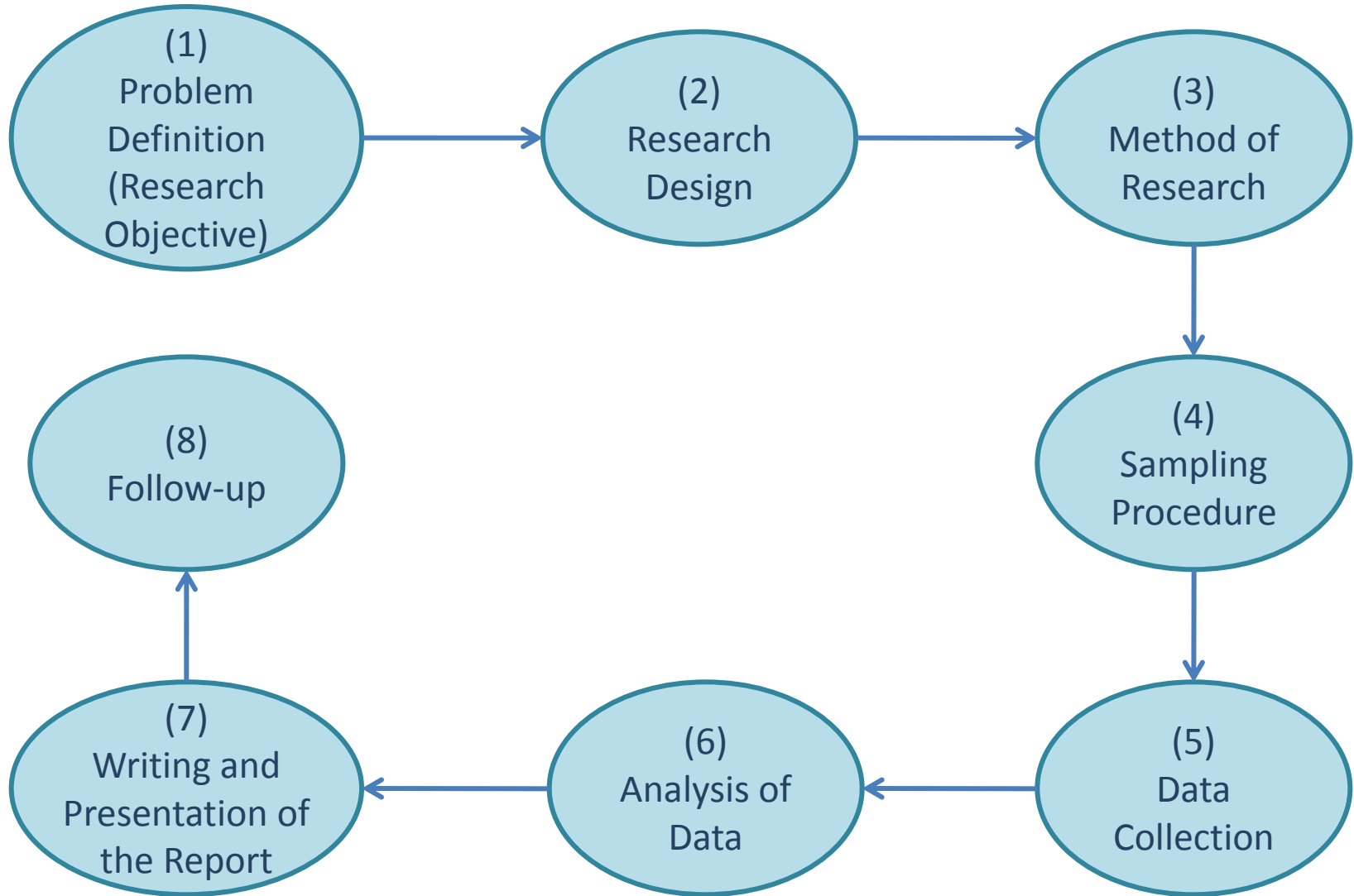
## 8 Steps

1. Recognize the problem or opportunity
2. Find out why the information is being sought
3. Understand the decision making environment
4. Use the symptoms to help clarify the problem
5. Translate management problem to marketing research problem
6. Determine whether the information already exists
7. Determine whether the question can be answered
8. State the research objectives

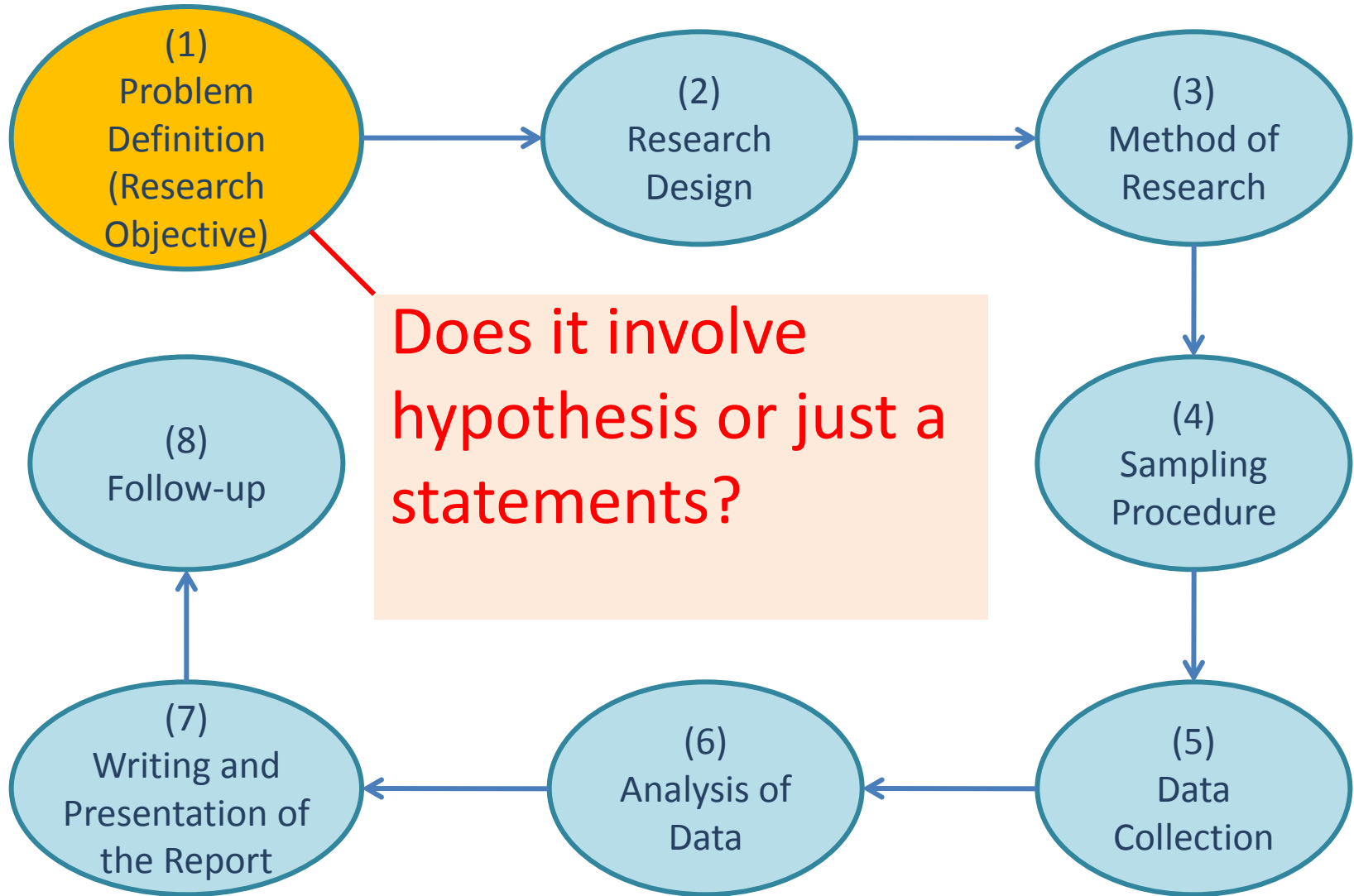
# Understand the Decision-Making Environment



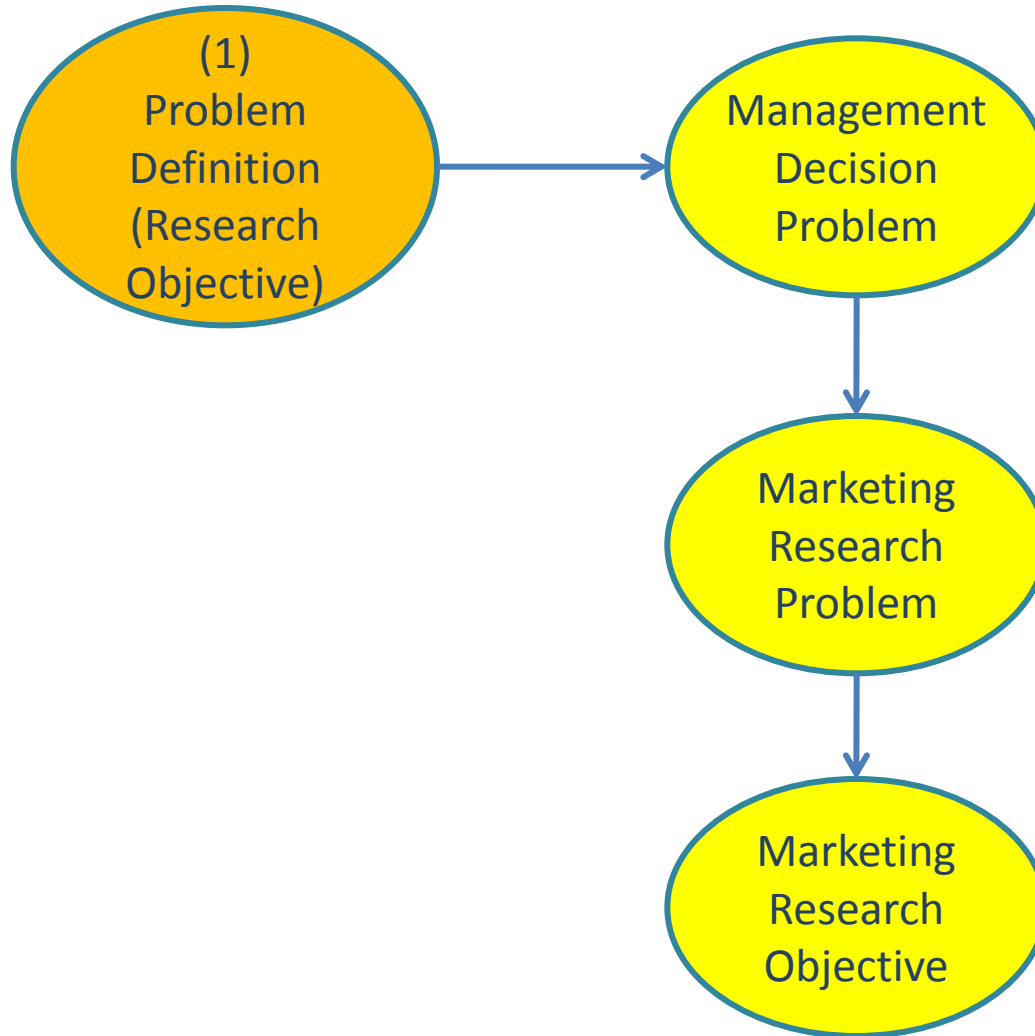
# The Marketing Research Process



# The Marketing Research Process

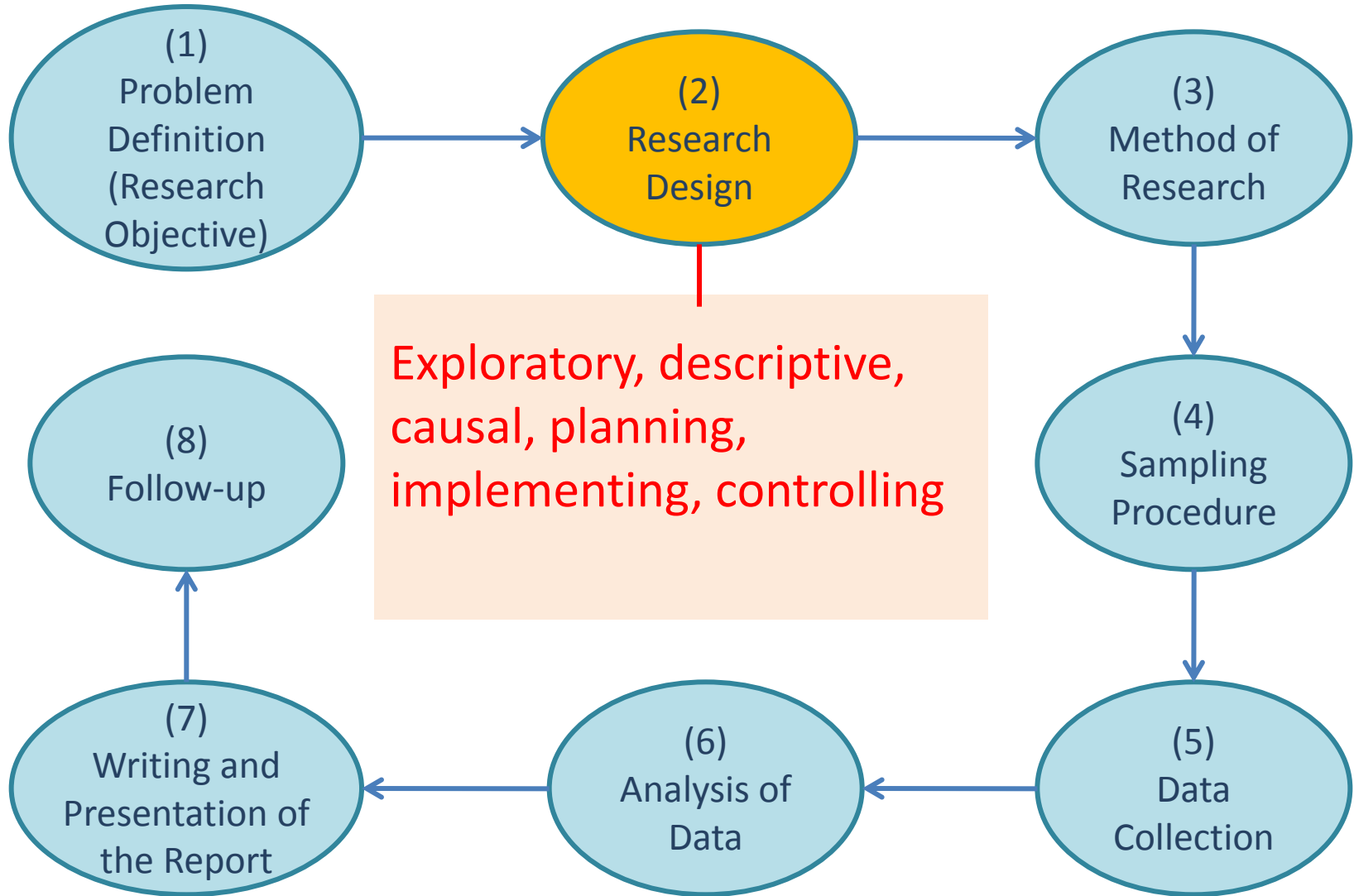


# The Marketing Research Process

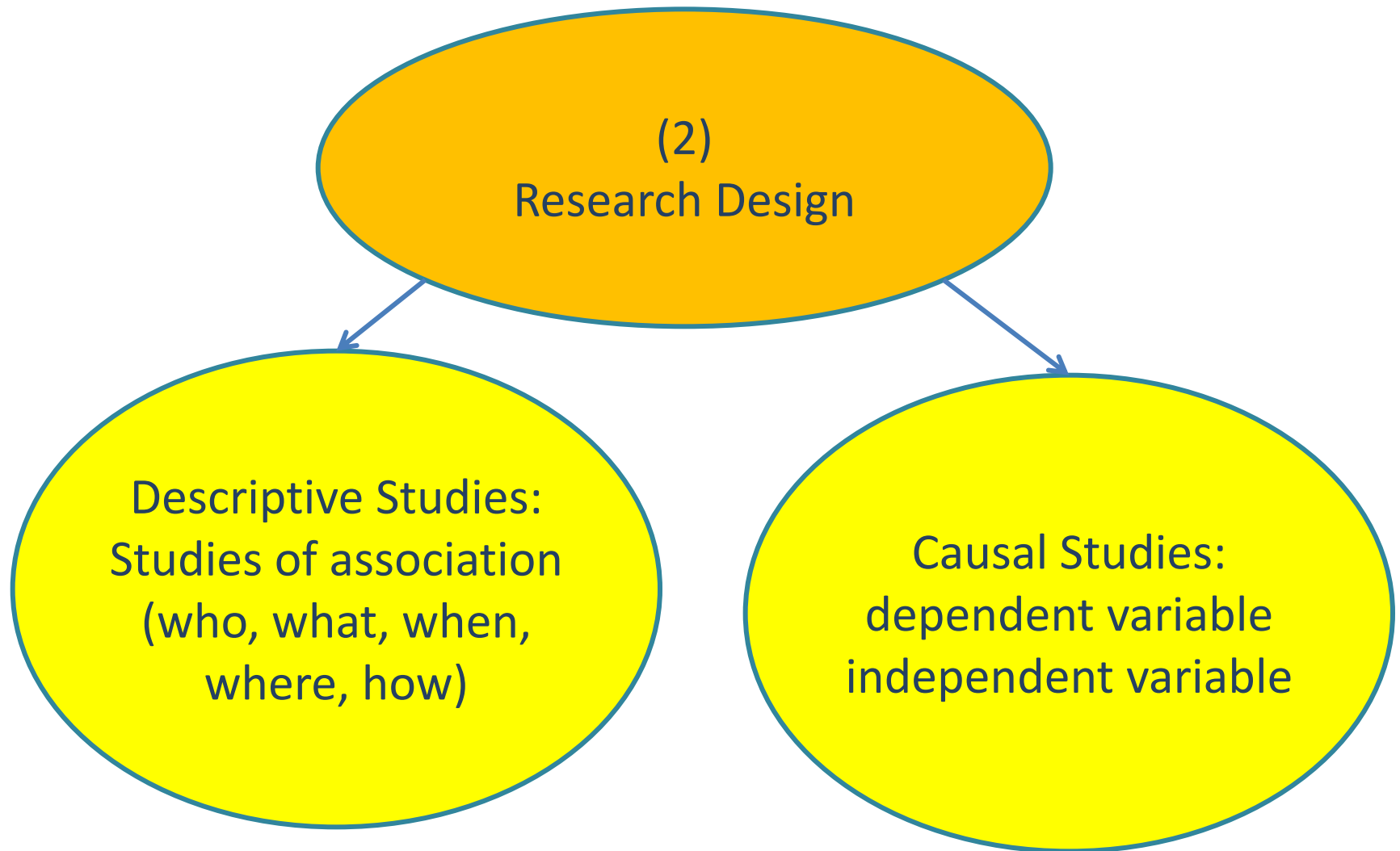




# The Marketing Research Process



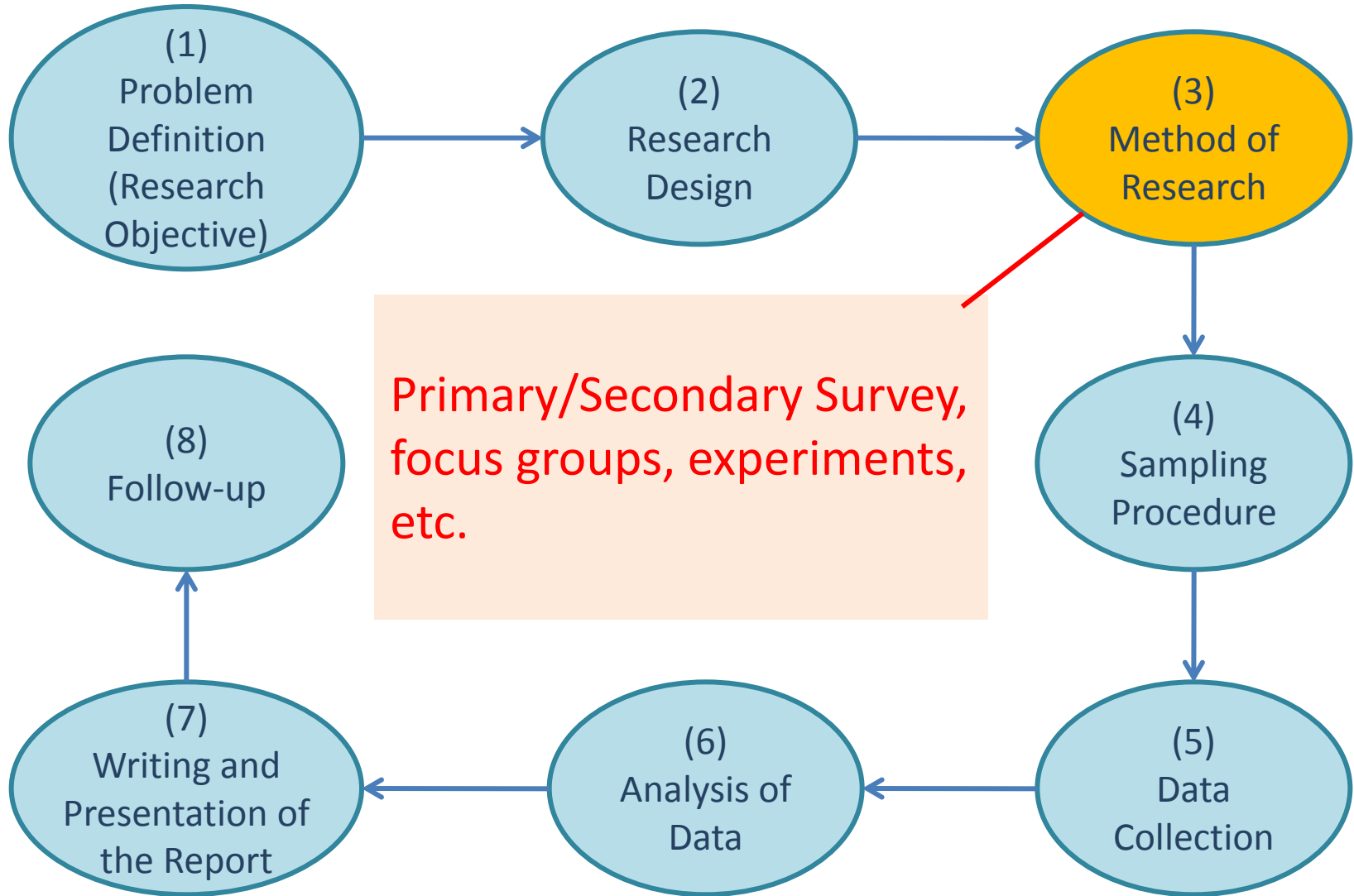
# The Marketing Research Process



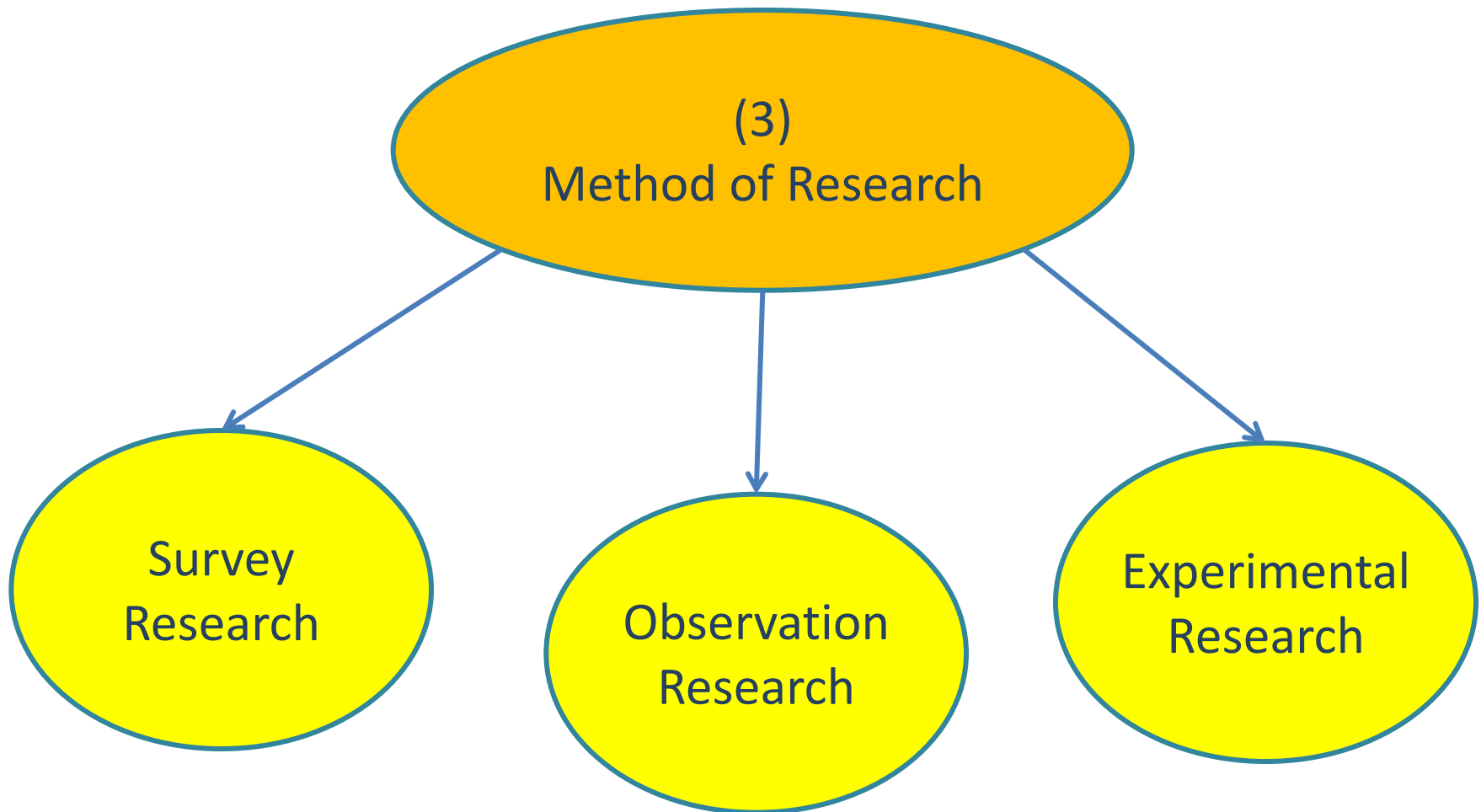
# Marketing Research Design

- Marketing Research Design
  - “The plan to be followed to answer the marketing research objectives.”
- It is the detailed blueprint used to guide the research study towards its objectives including what and how you will conduct the research study.

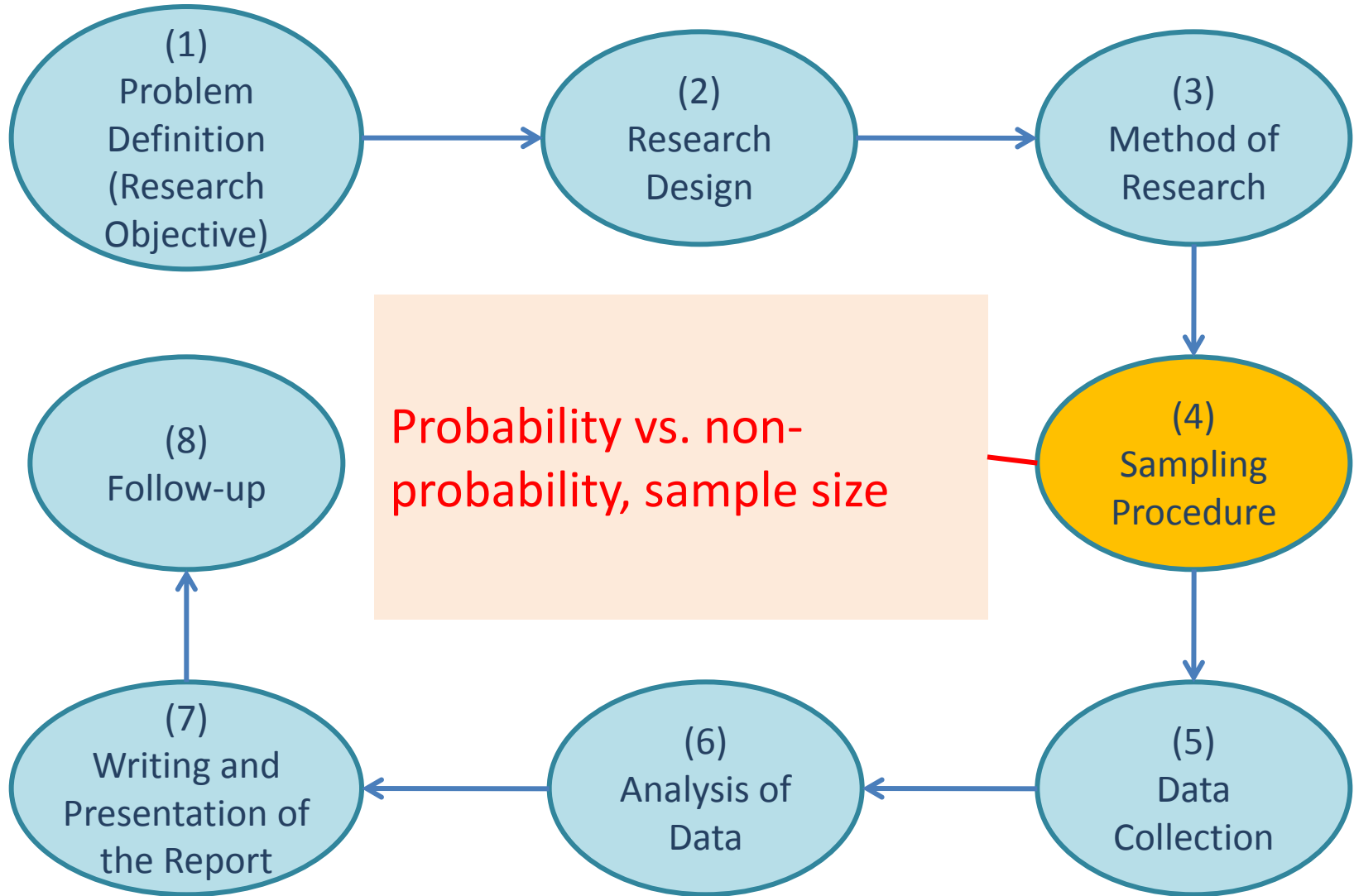
# The Marketing Research Process



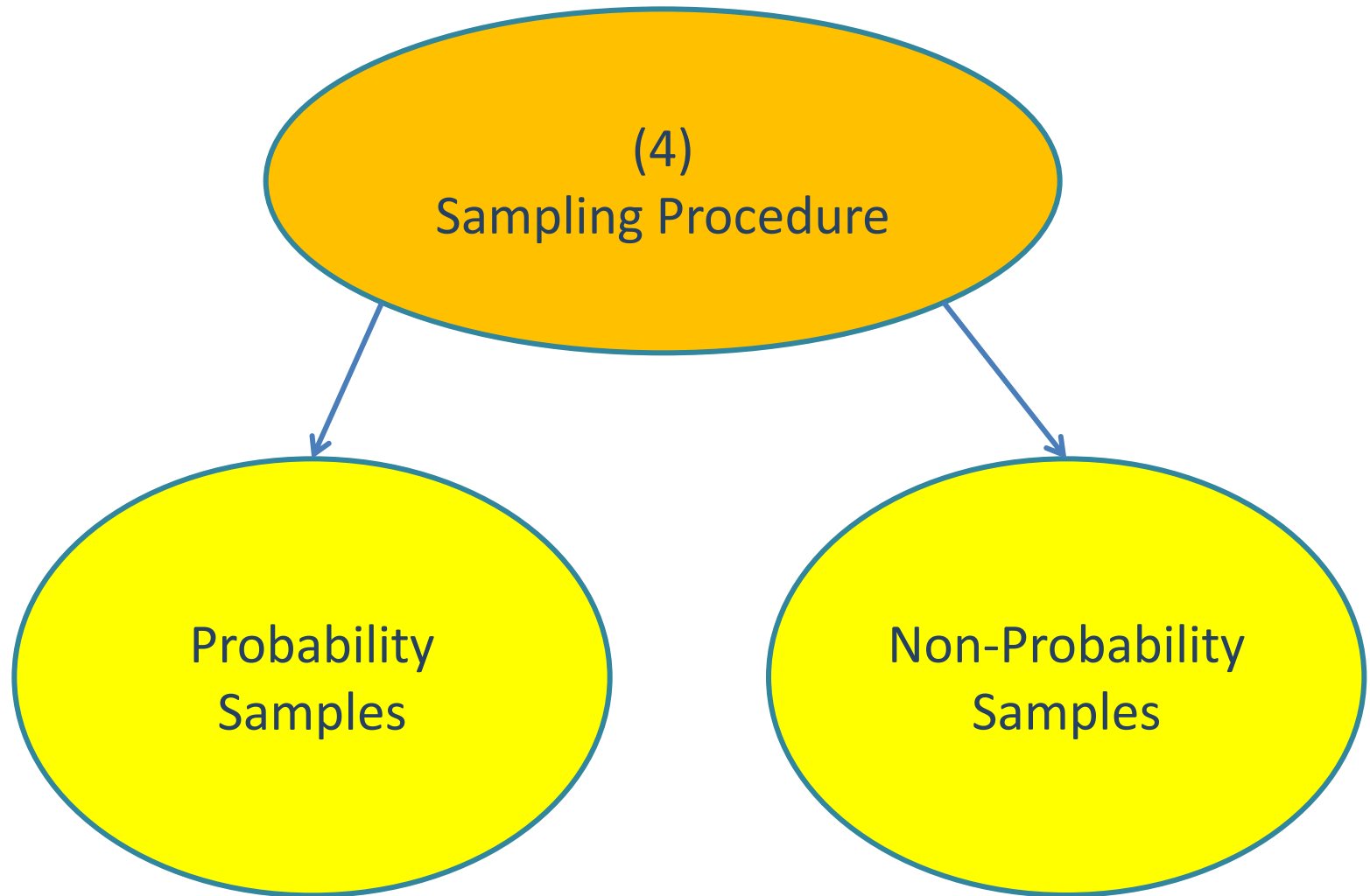
# The Marketing Research Process



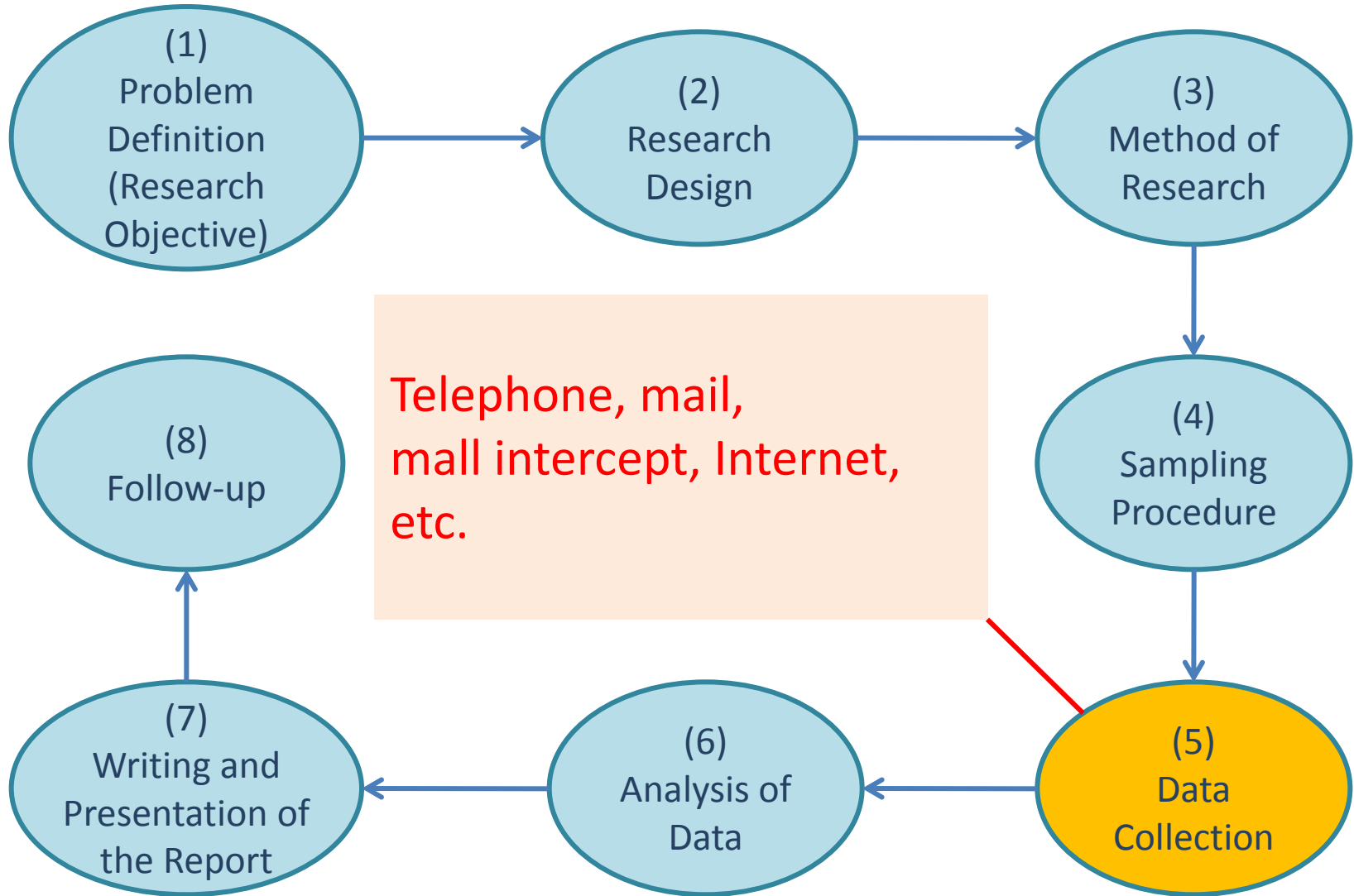
# The Marketing Research Process



# The Marketing Research Process

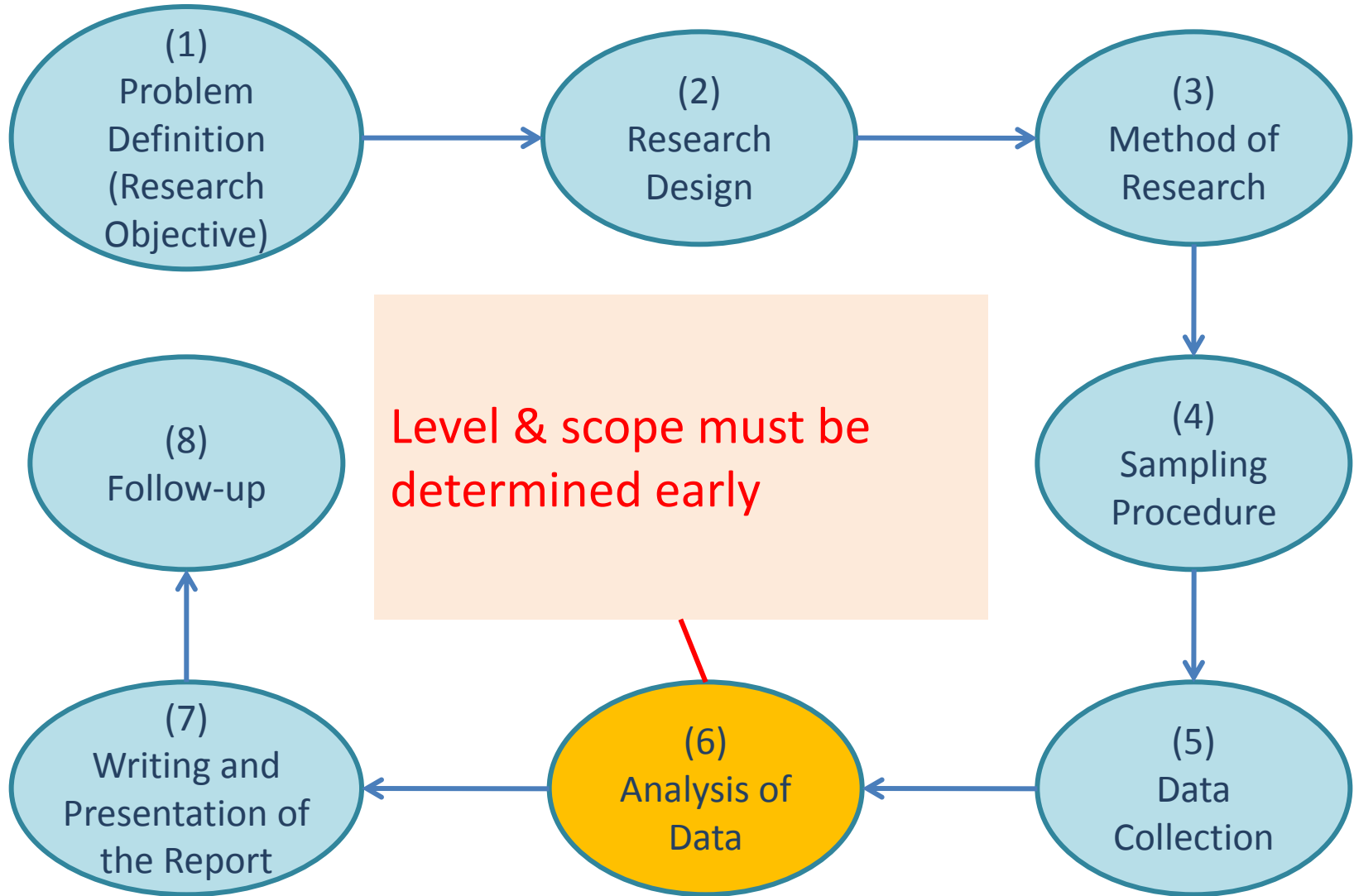


# The Marketing Research Process

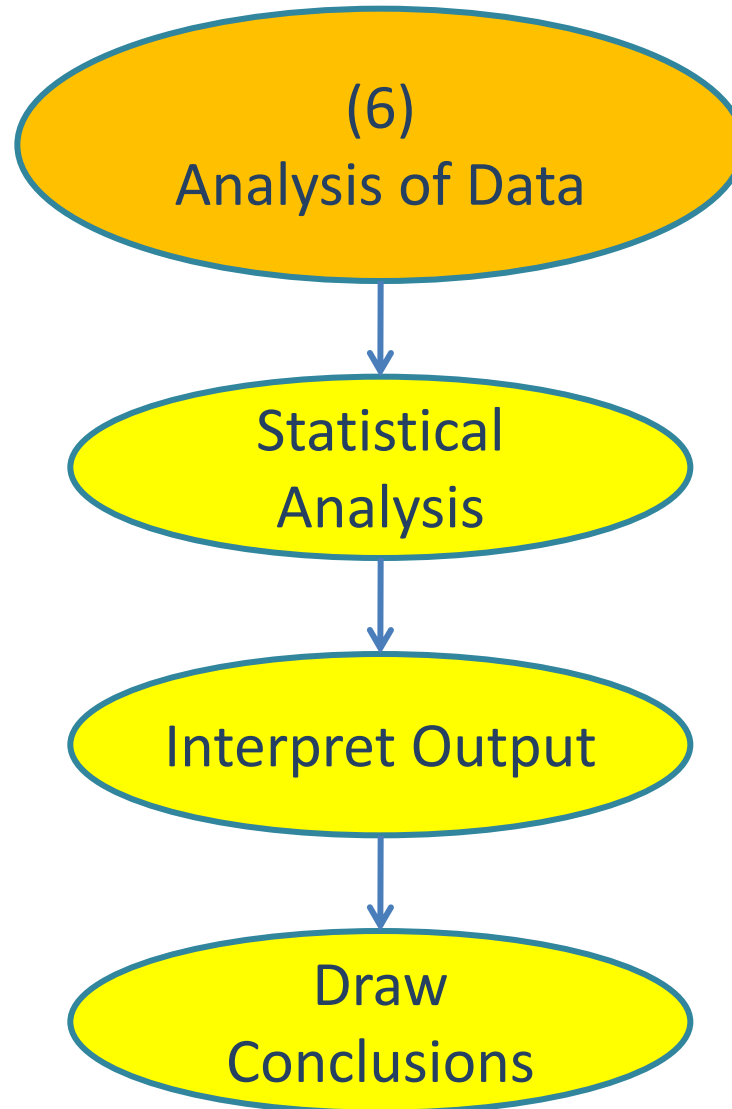




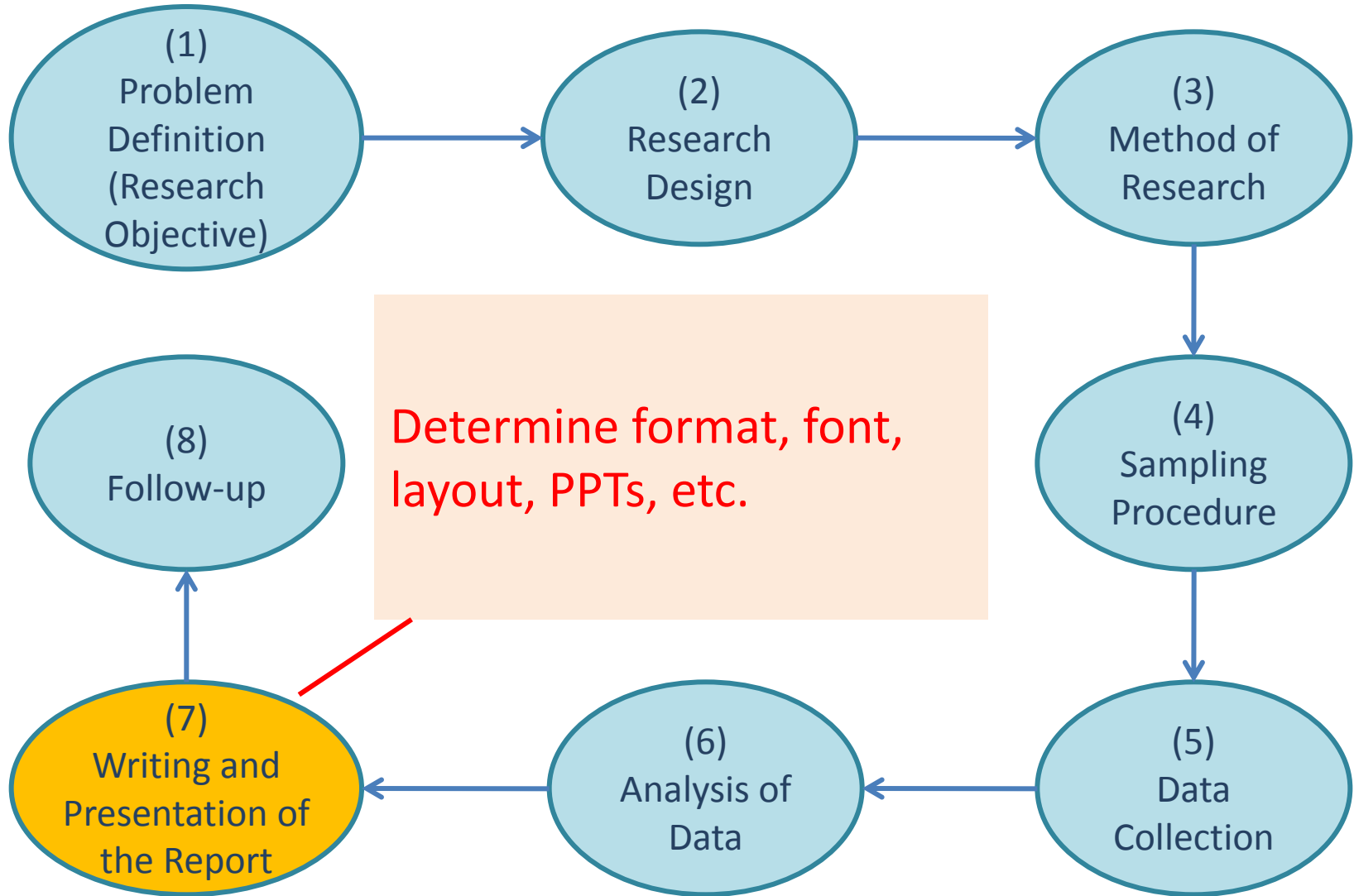
# The Marketing Research Process



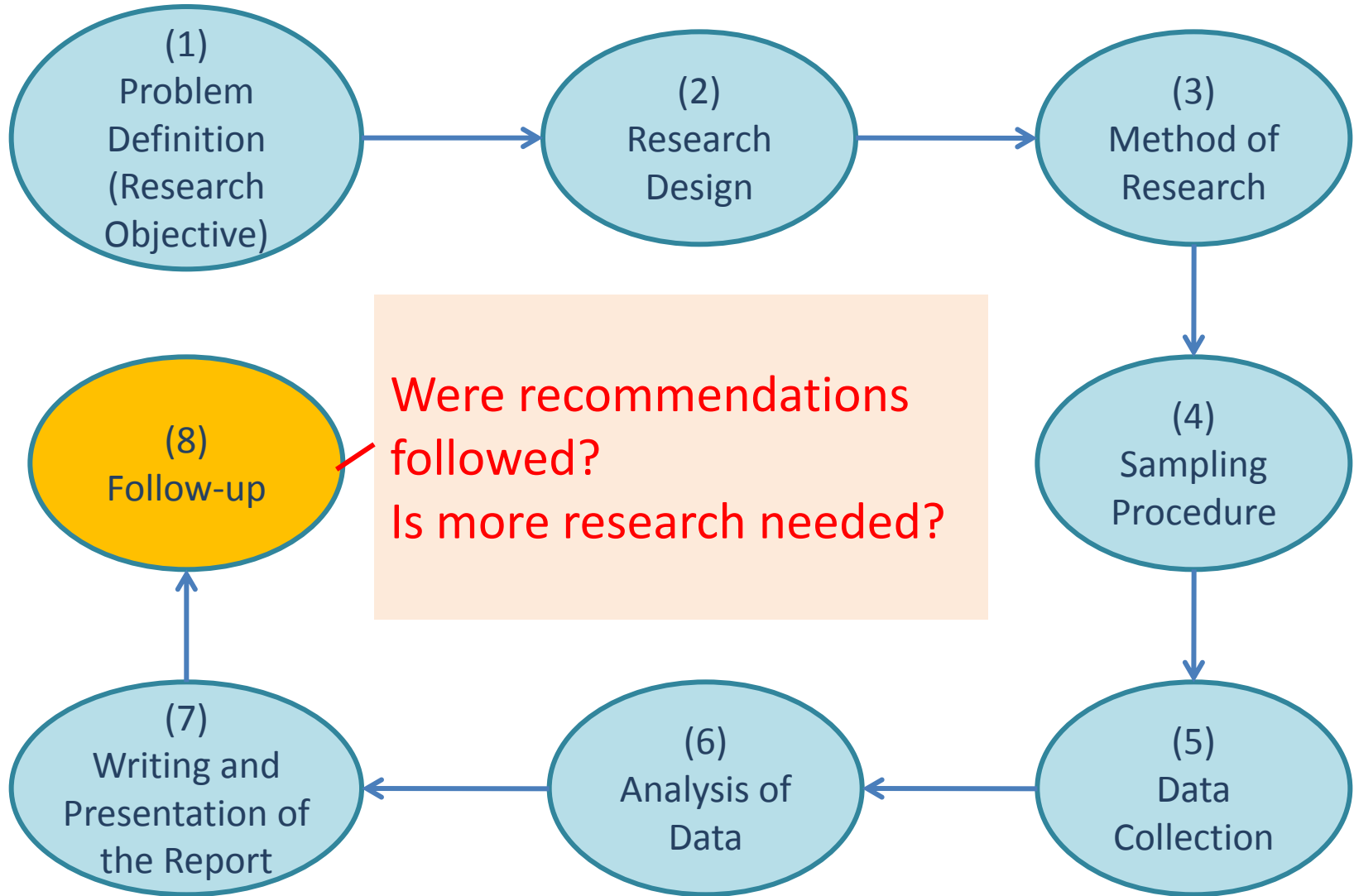
# The Marketing Research Process



# The Marketing Research Process



# The Marketing Research Process



# Marketing Research Approaches

Observation

Focus groups

Surveys

Behavioral data

Experiments

# Marketing Success Metrics

External	Internal
Awareness	Awareness of goals
Market share (volume or value)	Commitment to goals
Relative price (market share value/volume)	Active innovation support
Number of complaints (level of dissatisfaction)	Resource adequacy
Consumer satisfaction	Staffing/skill levels
Distribution/availability	Desire to learn
Total number of customers	Willingness to change
Perceived quality/esteem	Freedom to fail
Loyalty/retention	Autonomy
Relative perceived quality	Relative employee satisfaction

**Marketing**

**“Meeting  
needs  
profitably”**

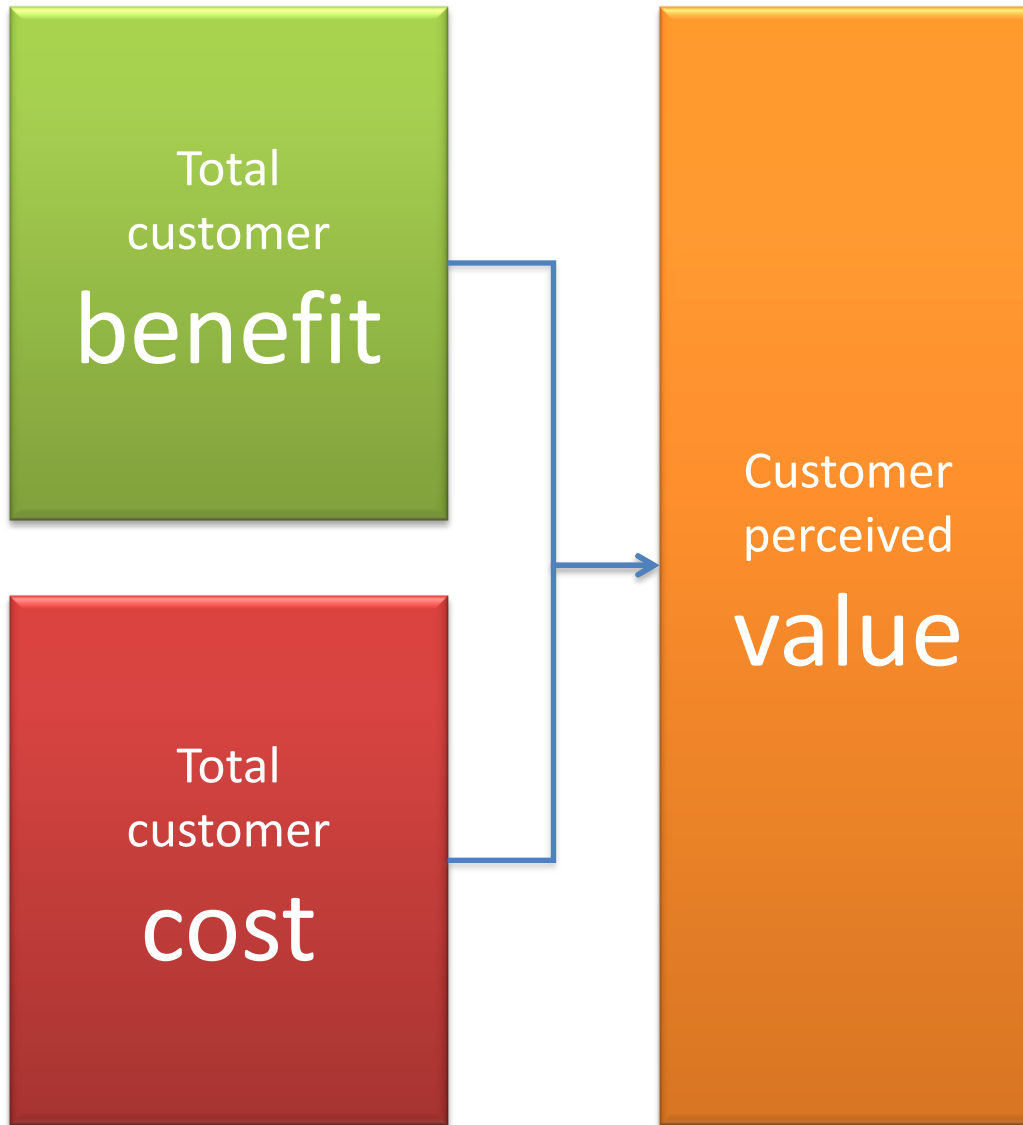
# Value

the sum of the  
tangible and  
intangible

benefits and costs

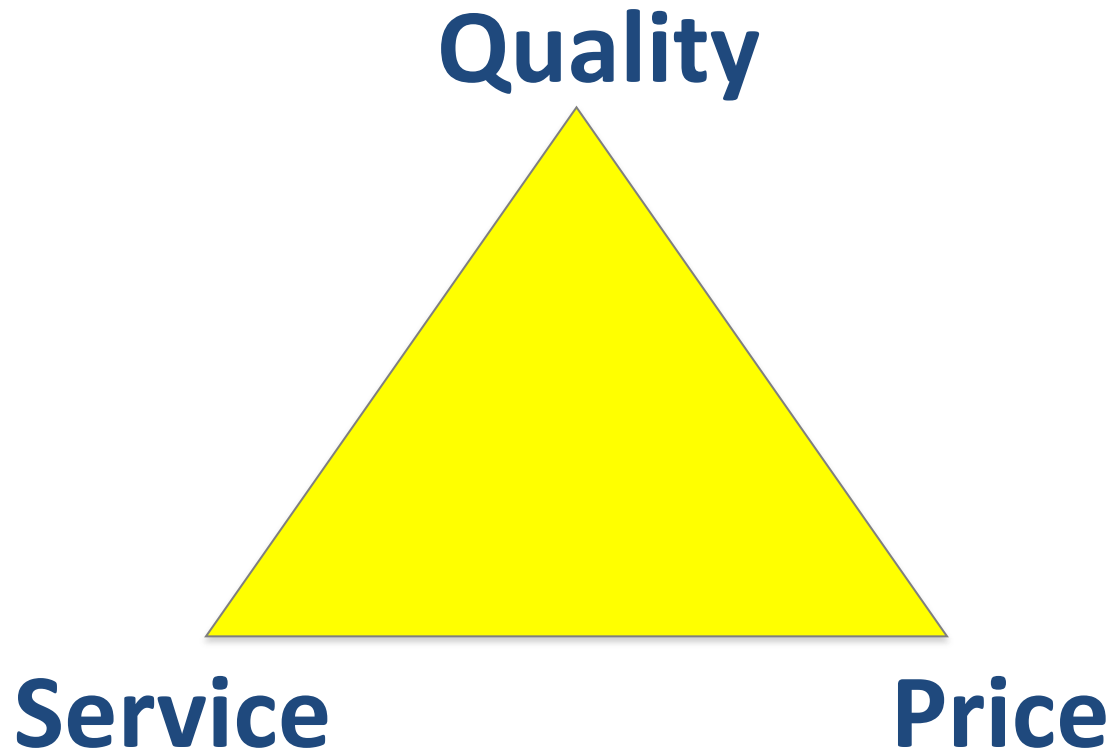


# Value



# Customer Value Triad

Quality, Service, and Price  
(qsp)

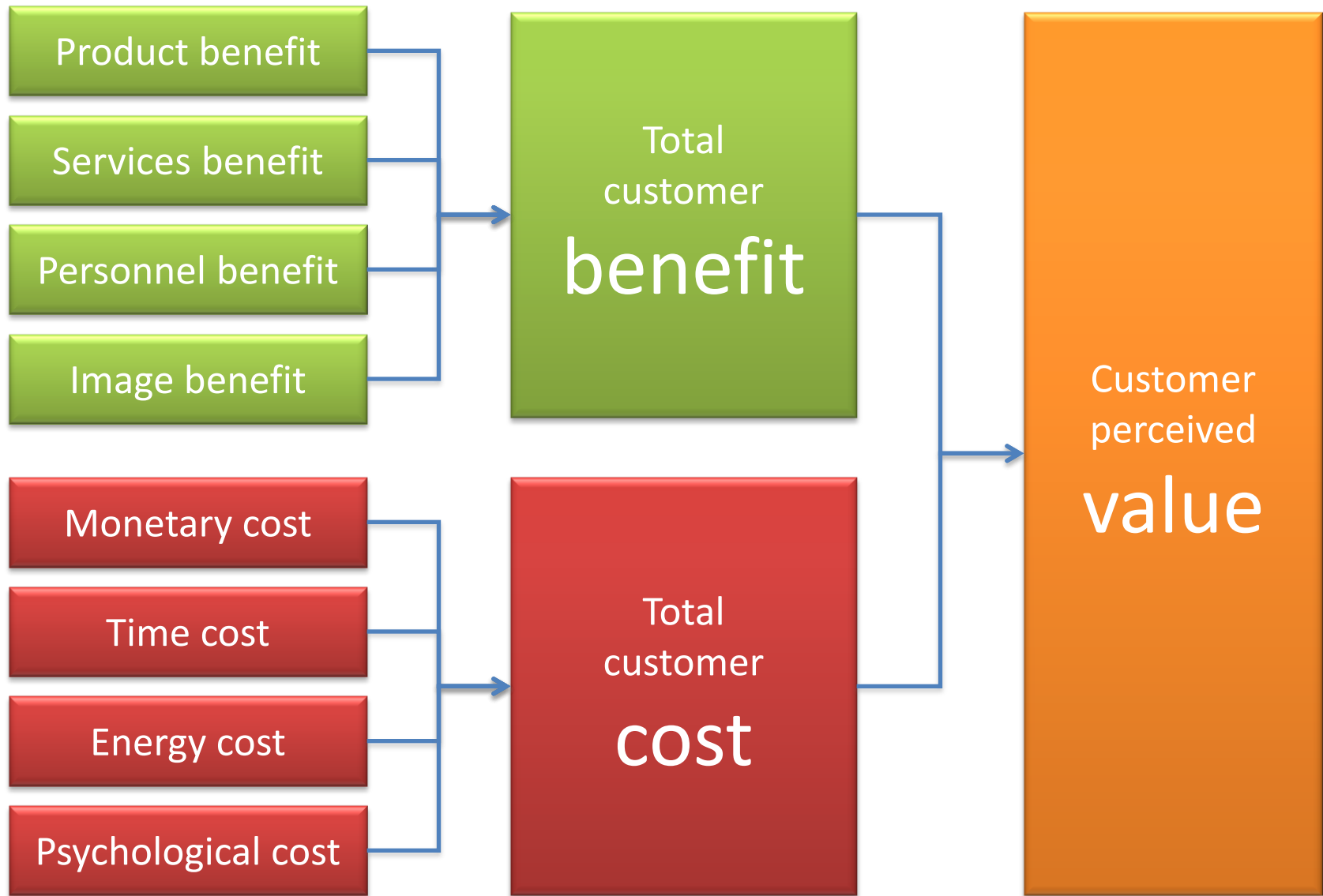


# Value and Satisfaction

- Marketing
  - identification, creation, communication, delivery, and monitoring of **customer value**.
- Satisfaction
  - a person's judgment of a product's **perceived performance** in relationship to **expectations**

**Building**  
**Customer Value,**  
**Satisfaction,**  
**and**  
**Loyalty**

# Customer Perceived Value



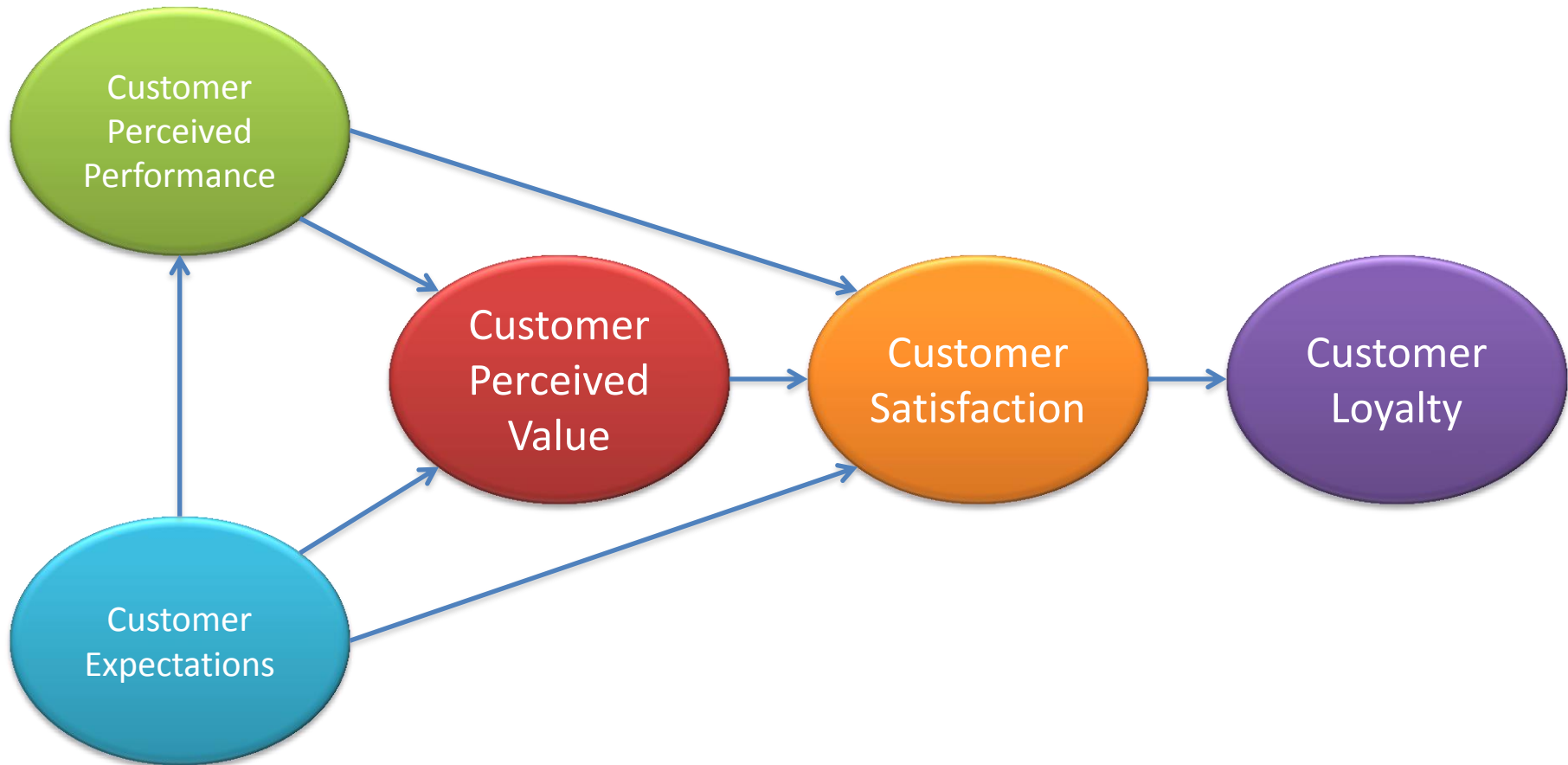
# Satisfaction

“a person’s **feelings of pleasure or disappointment** that result from comparing a product’s **perceived performance** (or outcome) to **expectations**”

# Loyalty

**“a deeply held commitment to  
rebuy or repatronize  
a preferred product or service  
in the future  
despite situational influences and  
marketing efforts having the  
potential to cause switching  
behavior.”**

# Customer Perceived Value, Customer Satisfaction, and Loyalty

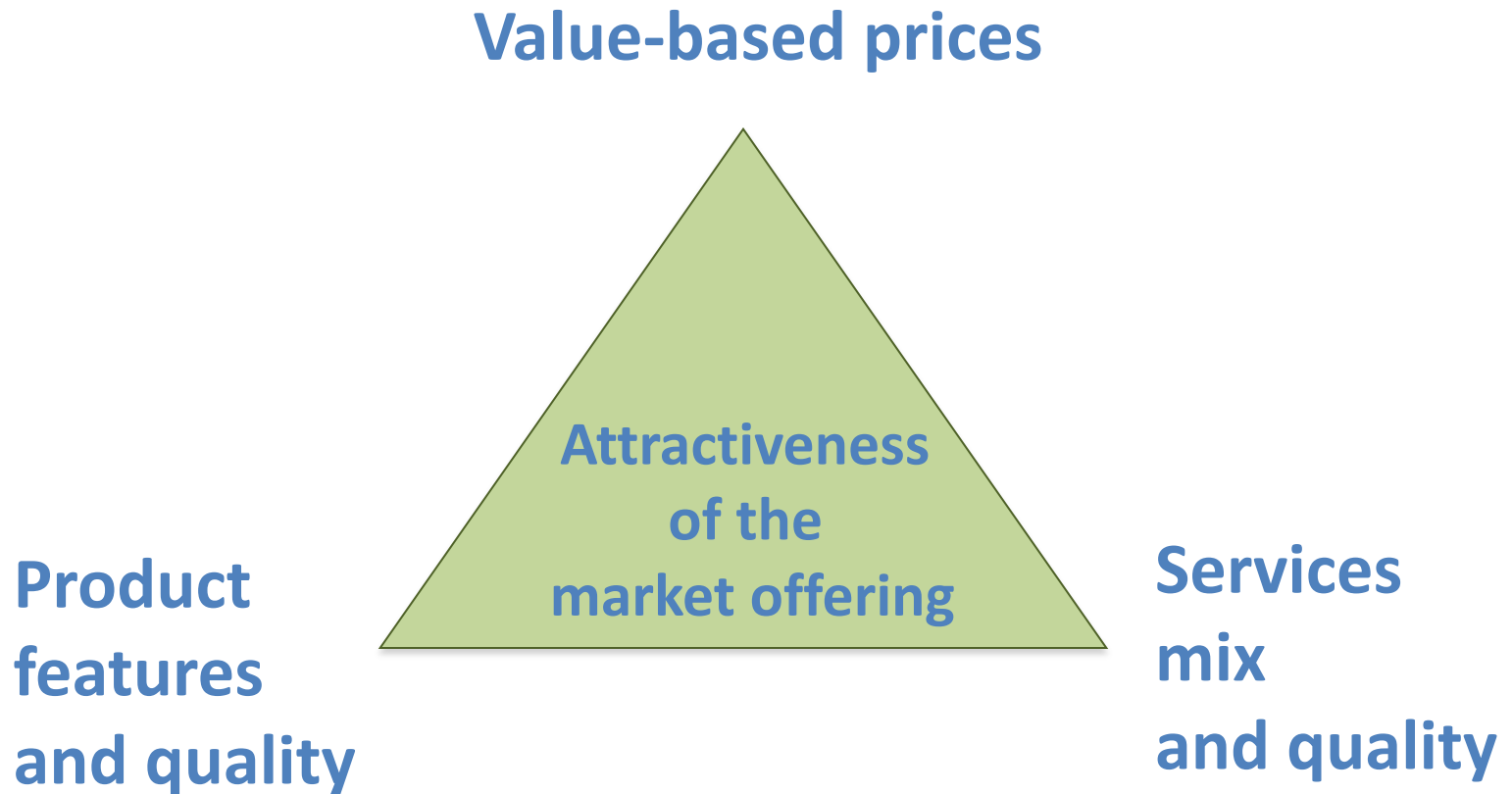




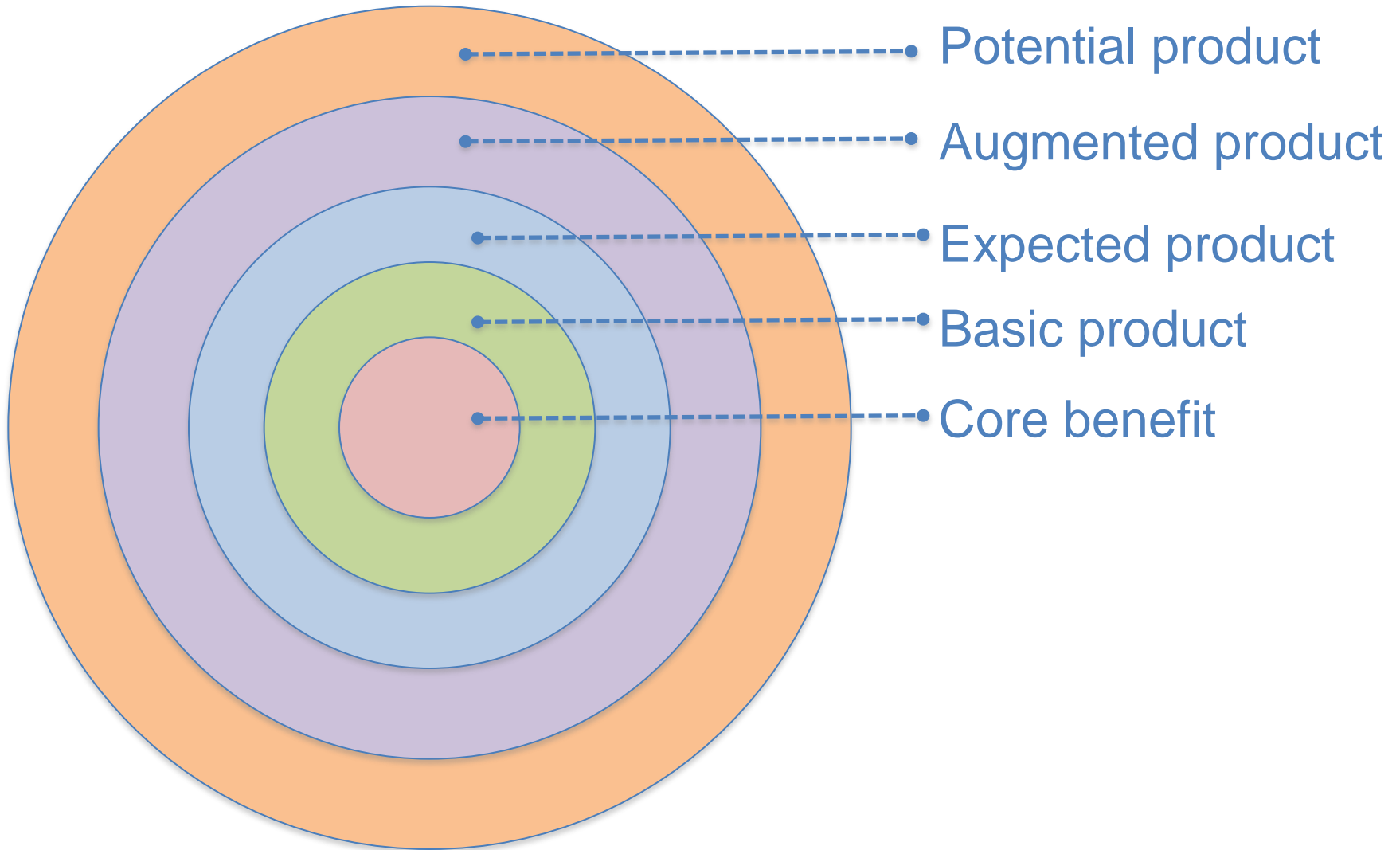
# Customer Value Analysis

1. Identify the major attributes and benefits customers value
2. Assess the quantitative importance of the different attributes and benefits
3. Assess the company's and competitors' performances on the different customer values against their rated importance
4. Examine how customers in a specific segment rate the company's performance against a specific major competitor on an individual attribute or benefit basis
5. Monitor customer values over time

# Components of the Marketing Offering



# Product Levels: The Customer-Value Hierarchy

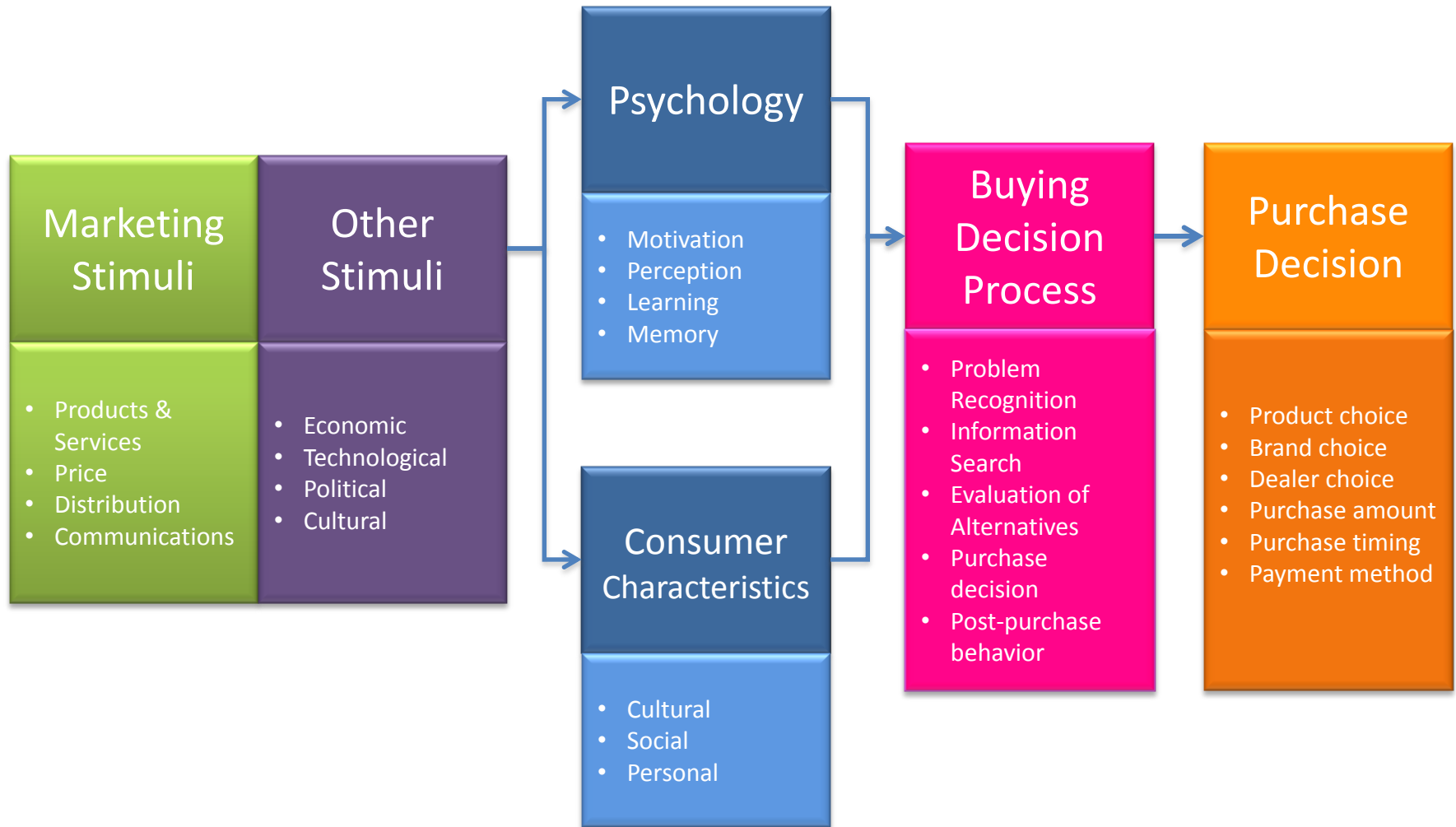


# Analyzing Consumer Markets

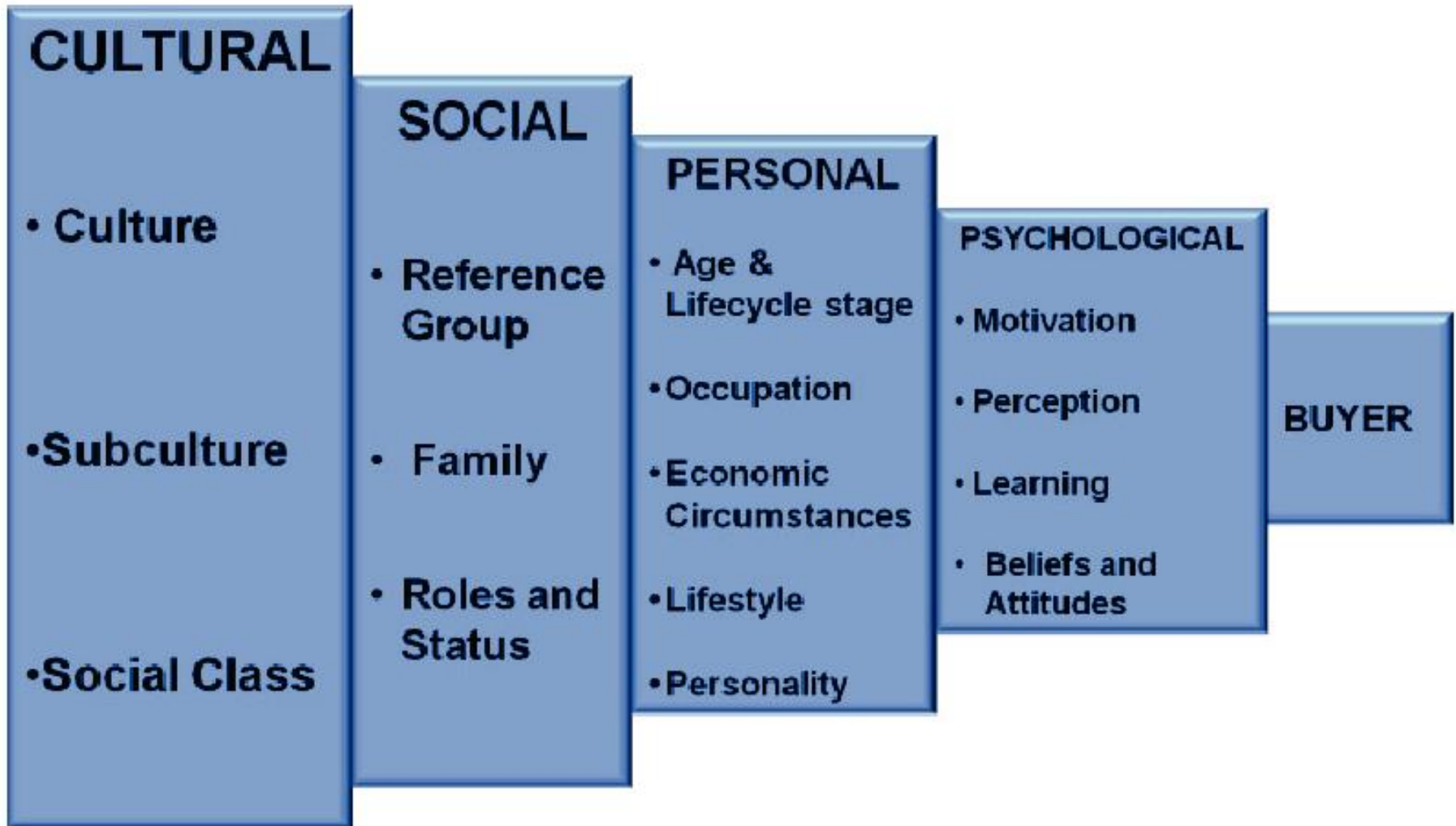
- The aim of marketing is to **meet** and **satisfy** target customers' **needs and wants** better than competitors.
- Marketers must have a thorough understanding of **how consumers think, feel, and act** and **offer clear value** to each and every target consumer.

# **How consumers think, feel, and act**

# Model of Consumer Behavior

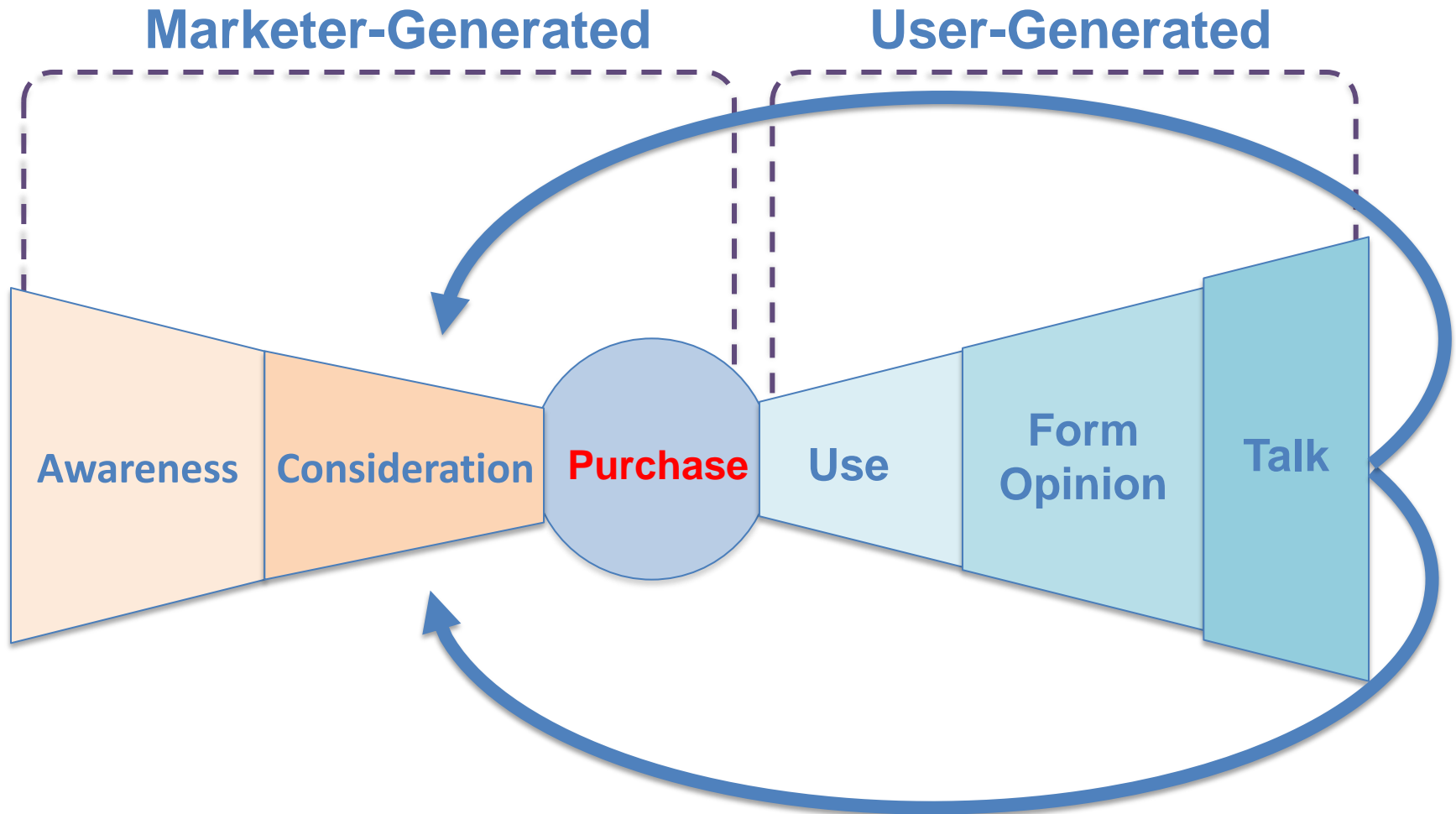


# Factors Affecting Consumer Behavior



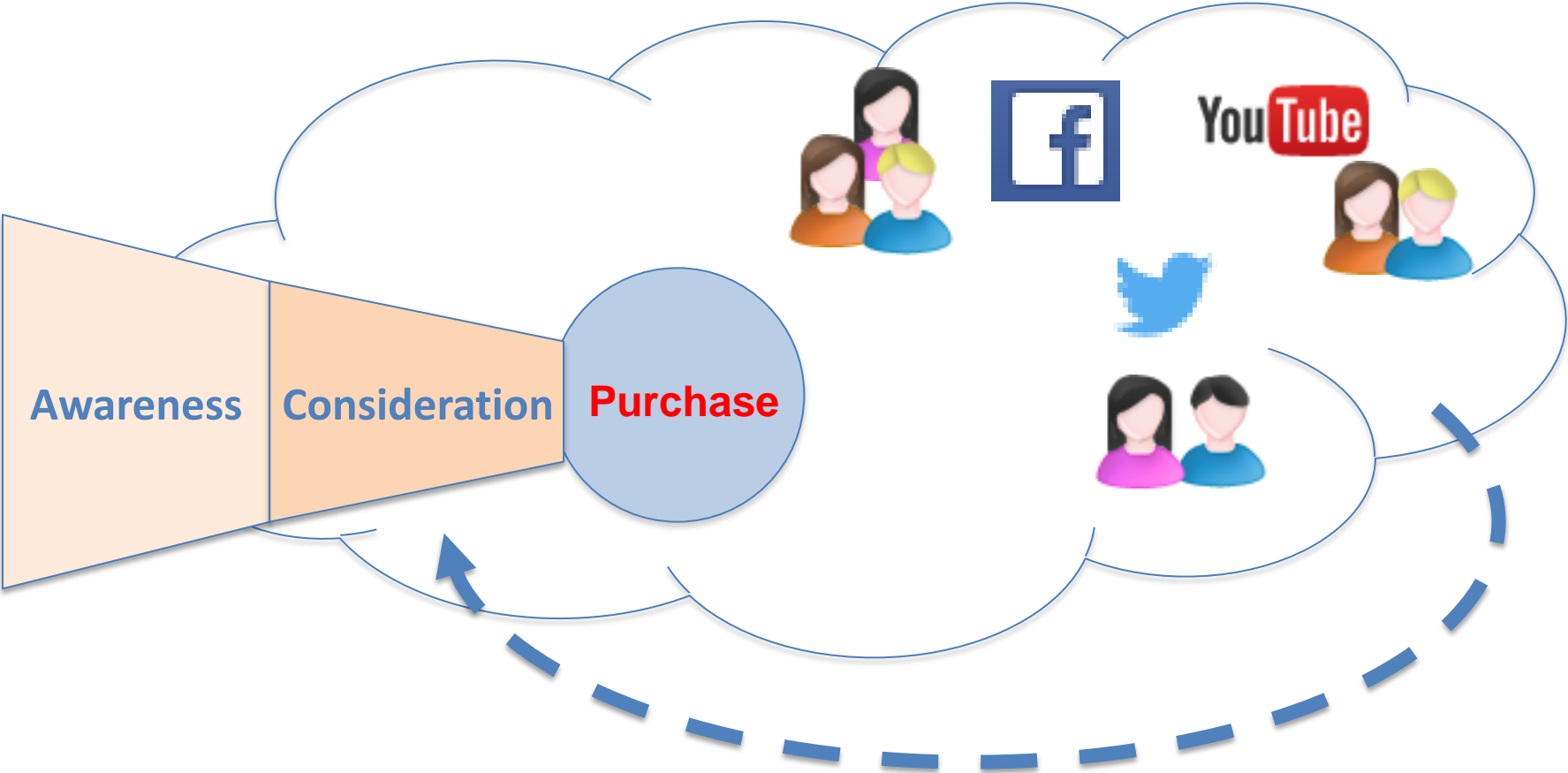
# The Social Feedback Cycle

## Consumer Behavior on Social Media

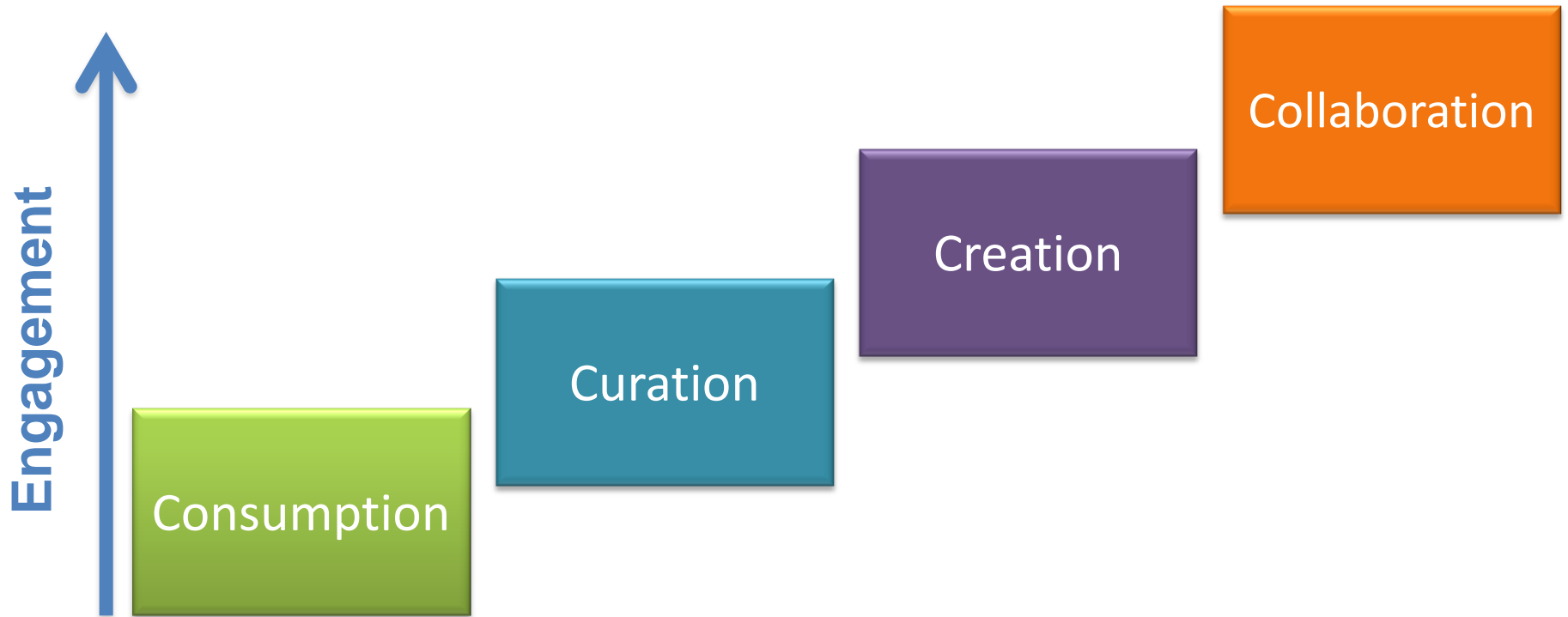




# The New Customer Influence Path



# Structured Engagement Engagement Process on Social Media



**Nothing**  
**is**  
**so practical**  
**as a**  
**good theory**

# Theory

- a set of propositions or an abstract conceptualization of the relationship between entities.

# Purpose of theory

- increase **scientific understanding** through a **systematized structure** capable of both **explaining and predicting phenomena** (Hunt, 1991)

# Theory

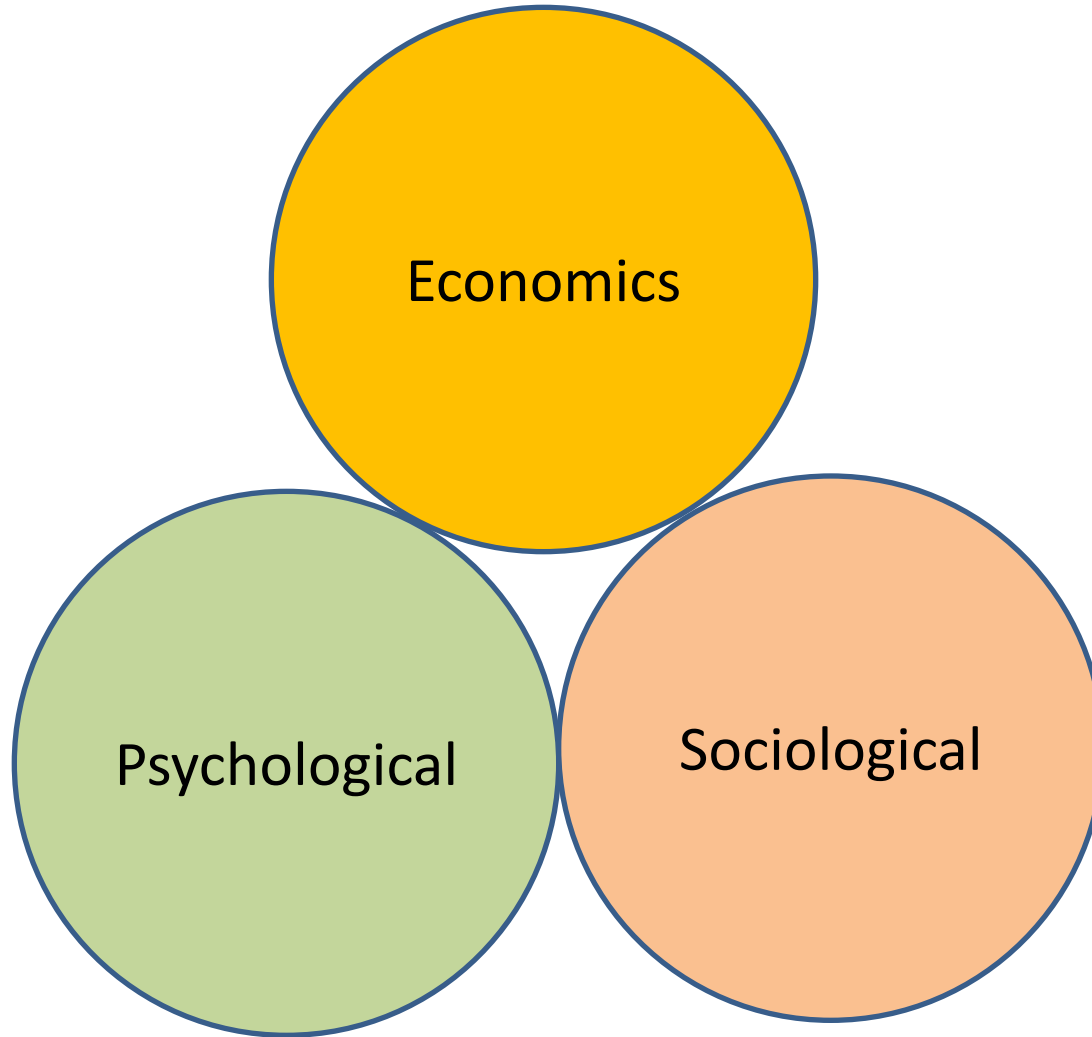
- a **statement** of **relations** among **concepts** within a set of **boundary assumptions** and **constraints** (Bacharach, 1989)

# Marketing

**Identifying  
and  
meeting**

**human and social needs**

# Basis of Marketing Theory





# Disciplinary Underpinnings of Marketing Theory

- The **economics** basis of marketing
- The **psychological** basis of marketing
- The **sociological** basis of marketing
- Cultural aspects of marketing

# Psychological foundations of marketing

- Motivation
- Perception
- Decision making
- Attitudes
- Persuasion

# Psychological Constructs and Some Associated Marketing Areas

Psychological Construct	Marketing areas
Learning	Brand recall, loyalty
Motivation	Consumer needs, choice conflicts
Perception	Product packaging, advertising content
Decision making	Brand selection, consumer involvement, post-purchase evaluation
Attitudes	Customer satisfaction, trust, ad influence
Personality	Consumer segmentation, materialism, addictions

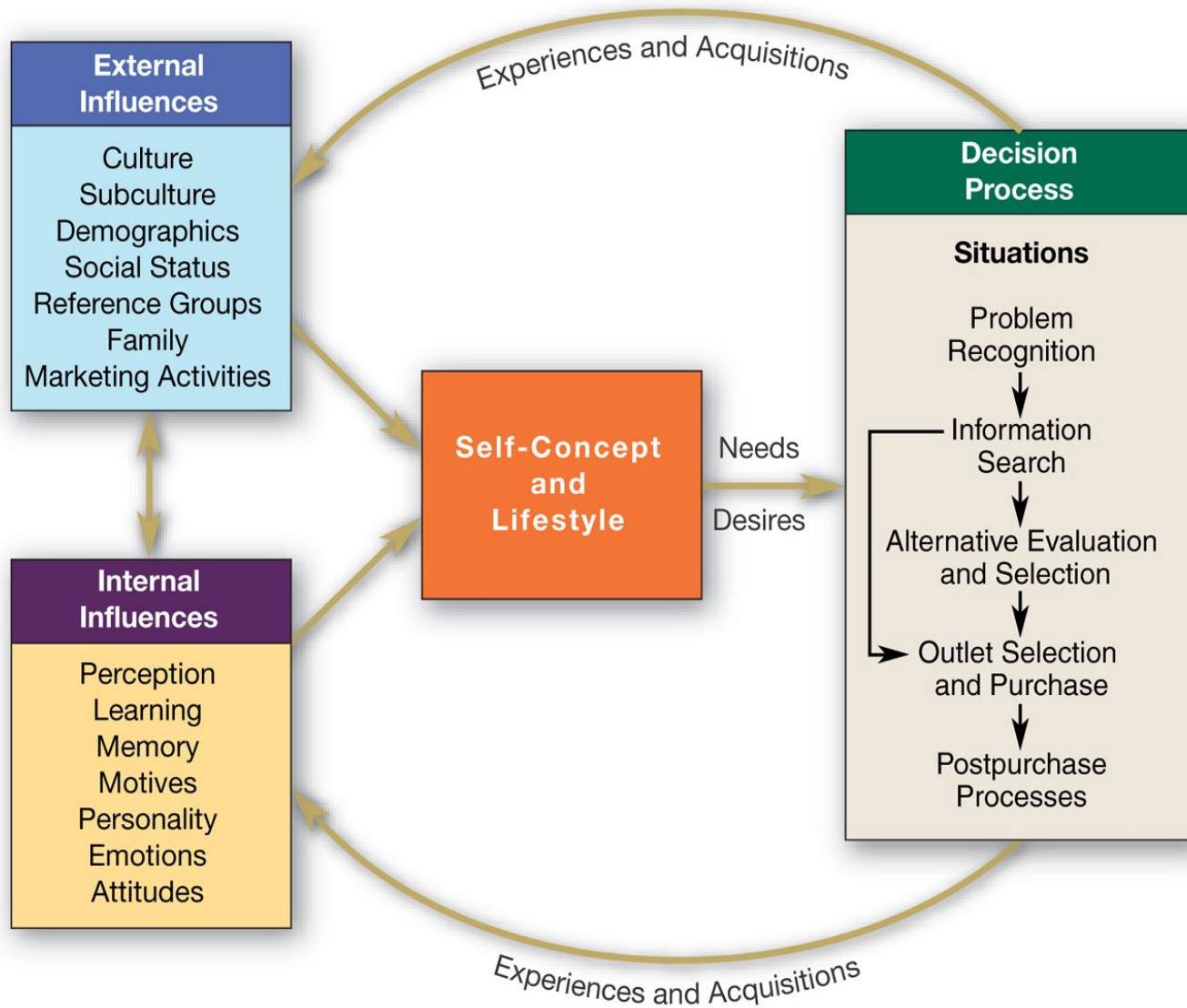
# Motivation

- both **physiological needs** (e.g. hunger, thirst, pain avoidance, security, maintenance of body temperature)  
and **psychogenic needs** (e.g. achievement, affiliation, status, approval, power)  
**motivate consumer behaviour**

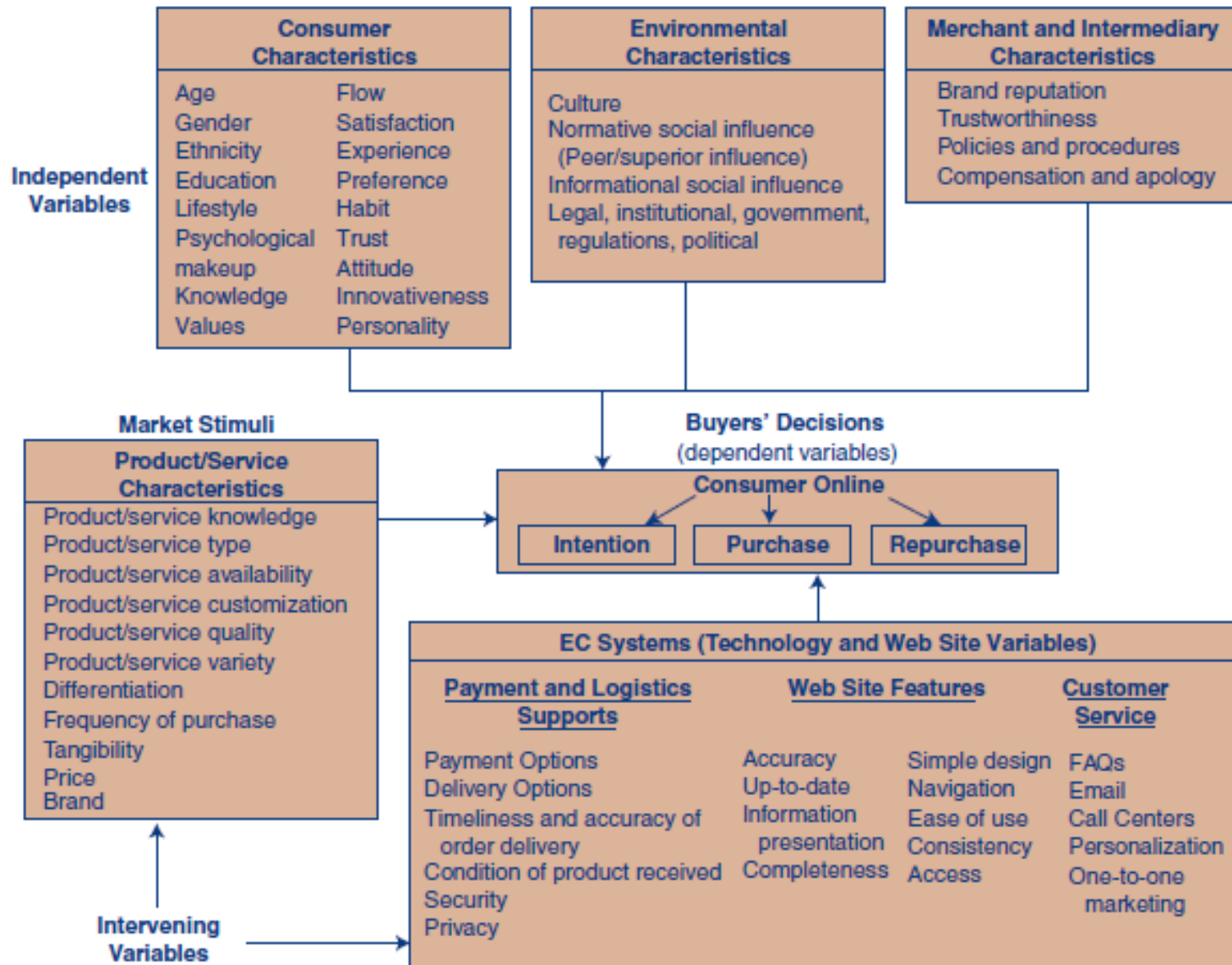
# Motivation and Psychological Needs

- the waste of money and/or resources by people to display a higher status than others' is clearly linked to the **psychological ego-related needs** for **status**, **approval** and **self-confidence**, although it may be influenced in part by **extrinsic factors**, such as **social norms** and **cultural values**

# Overall Model of Consumer Behavior



# EXHIBIT W4.1.1 EC Consumer Behavior Model



# Customer Satisfaction in EC

## Information Quality

Accuracy of Content  
Up-to-Date Content  
Information Presentation  
(Visual representation of products)  
Completeness of Content  
(Detailed description of products)

## System Quality

Privacy and Security  
Simple Design  
Ease of Navigation  
Ease of Use  
Consistency of Web Site

## Service Quality

Flexibility (Billing and Delivery Option)  
Timeliness of Order Delivery  
Accuracy of Order Delivery  
Condition of Products Received  
Responsiveness  
Fairness of Policies and Procedures  
Empathy (Compensation and Apologies)

**Consumer Satisfaction  
with an Internet Store**

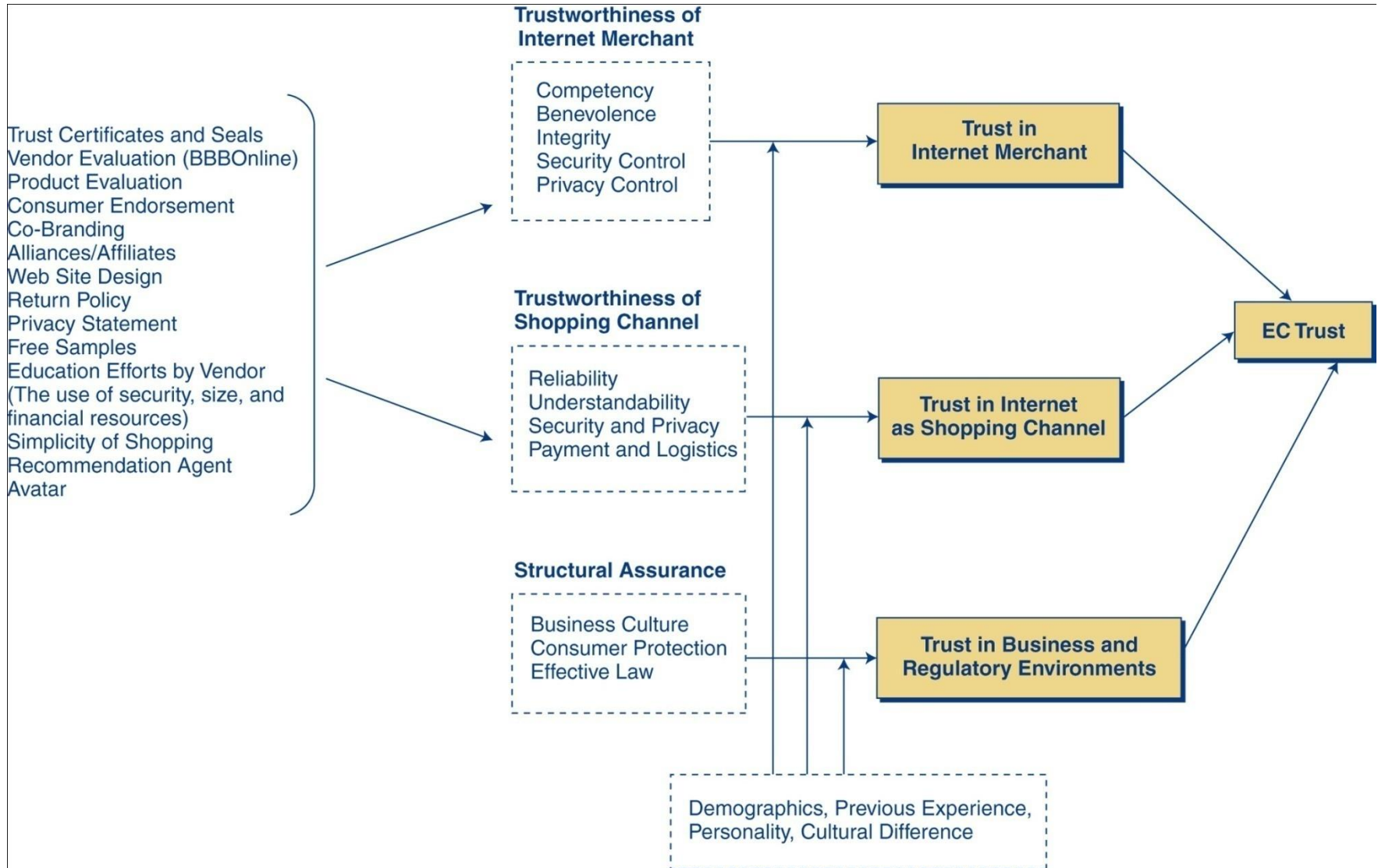


# TRUST IN EC

- **Trust**

The **psychological status** of **willingness** to **depend on** another person or organization.

# EC Trust Models



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# Theories used in IS research

**88** Theories

# 88 Theories used in IS research

1. Absorptive capacity theory
2. Actor network theory
3. Adaptive structuration theory
4. Administrative behavior, theory of
5. Agency theory
6. Argumentation theory
7. Behavioral decision theory
8. Boundary object theory
9. Chaos theory
10. Cognitive dissonance theory

# 88 Theories used in IS research

11. Cognitive fit theory
12. Cognitive load theory
13. Competitive strategy (Porter)
14. Complexity theory
15. Contingency theory
16. Critical realism theory
17. Critical social theory
18. Critical success factors, theory of
19. Customer Focus Theory
20. Deferred action, theory of

# 88 Theories used in IS research

31. Flow theory
32. Game theory
33. Garbage can theory
34. General systems theory
35. General deterrence theory
36. Hermeneutics
37. Illusion of control
38. Impression management, theory of
39. Information processing theory
40. Institutional theory

# 88 Theories used in IS research

41. International information systems theory
42. Keller's Motivational Model
43. Knowledge-based theory of the firm
44. Language action perspective
45. Lemon Market Theory
46. Management fashion theory
47. Media richness theory
48. Media synchronicity theory
49. Modal aspects, theory of
50. Multi-attribute utility theory

# 88 Theories used in IS research

51. Organizational culture theory
52. Organizational information processing theory
53. Organizational knowledge creation
54. Organizational learning theory
55. Portfolio theory
56. Process virtualization theory
57. Prospect theory
58. Punctuated equilibrium theory
59. Real options theory
60. Resource-based view of the firm



# 88 Theories used in IS research

61. Resource dependency theory
62. Self-efficacy theory
63. SERVQUAL
64. Social capital theory
65. Social cognitive theory
66. Social exchange theory
67. Social learning theory
68. Social network theory
69. Social shaping of technology
70. Socio-technical theory

# 88 Theories used in IS research

71. Soft systems theory
72. Stakeholder theory
73. Structuration theory
74. Task closure theory
75. Task-technology fit
76. Technological frames of reference
77. Technology acceptance model
78. Technology dominance, theory of
79. Technology-organization-environment framework
80. Theory of collective action

# 88 Theories used in IS research

81. Theory of planned behavior
82. Theory of reasoned action
83. Transaction cost economics
84. Transactive memory theory
85. Unified theory of acceptance and use of technology
86. Usage control model
87. Work systems theory
88. Yield shift theory of satisfaction

# Top 10 IS Theories 2014

1. Institutional theory (9.4%)
2. Social network theory (6.7%)
3. Contingency theory (6.6%)
4. Organizational culture theory (5.8%)
5. Transaction cost economics (5.6%)
6. DeLone and McLean IS success model (5.1%)
7. Technology acceptance model (5.1%)
8. Socio-technical theory (4.8%)
9. Garbage can theory (4.0%)
10. Diffusion of innovations theory (3.7%)

# Social Media Services and Information Systems

- Social Media Services (SMS)
- Information Systems (IS)
- Computer Mediated Communication (CMC)

# Theories of Information Systems

- Theory of Reasoned Action (TRA)
- Technology Acceptance Model (TAM)
- Theory of Planned Behavior (TPB)
- Unified Theory of Acceptance and Use of Technology (UTAUT)
- Integration of User Satisfaction and Technology Acceptance (IUSTA)

# TRA (1975)

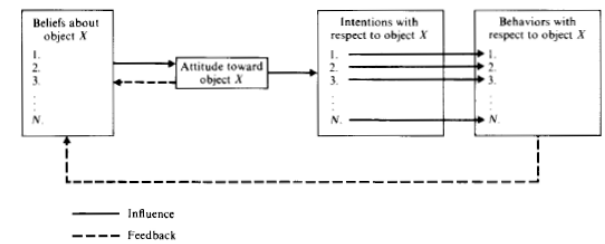


Fig. 1.1 Schematic presentation of conceptual framework relating beliefs, attitudes, intentions, and behaviors with respect to a given object.

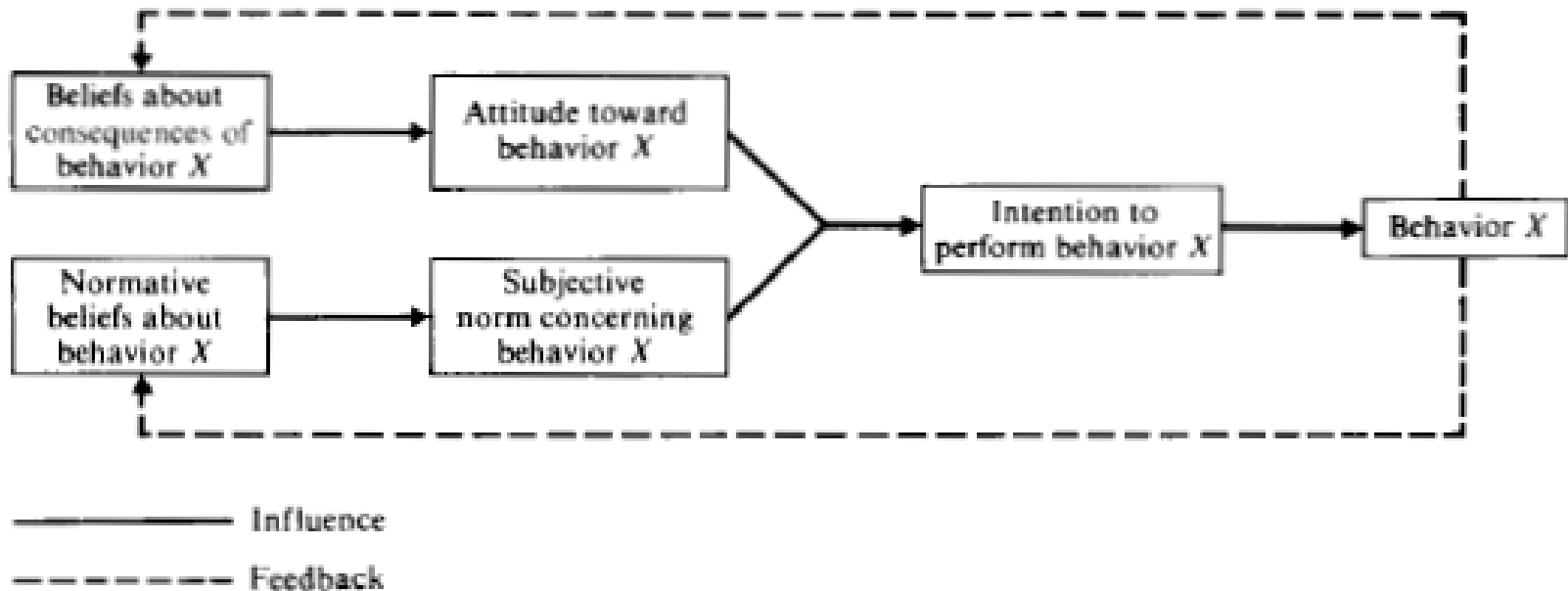
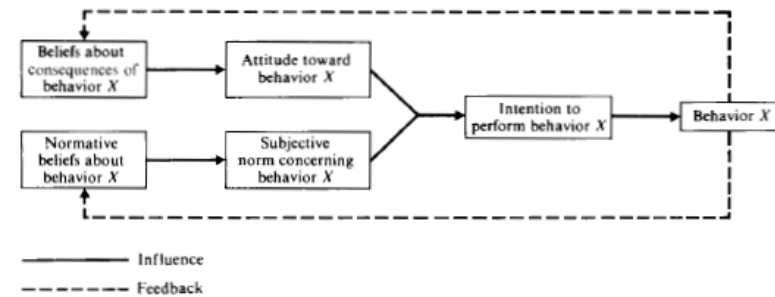
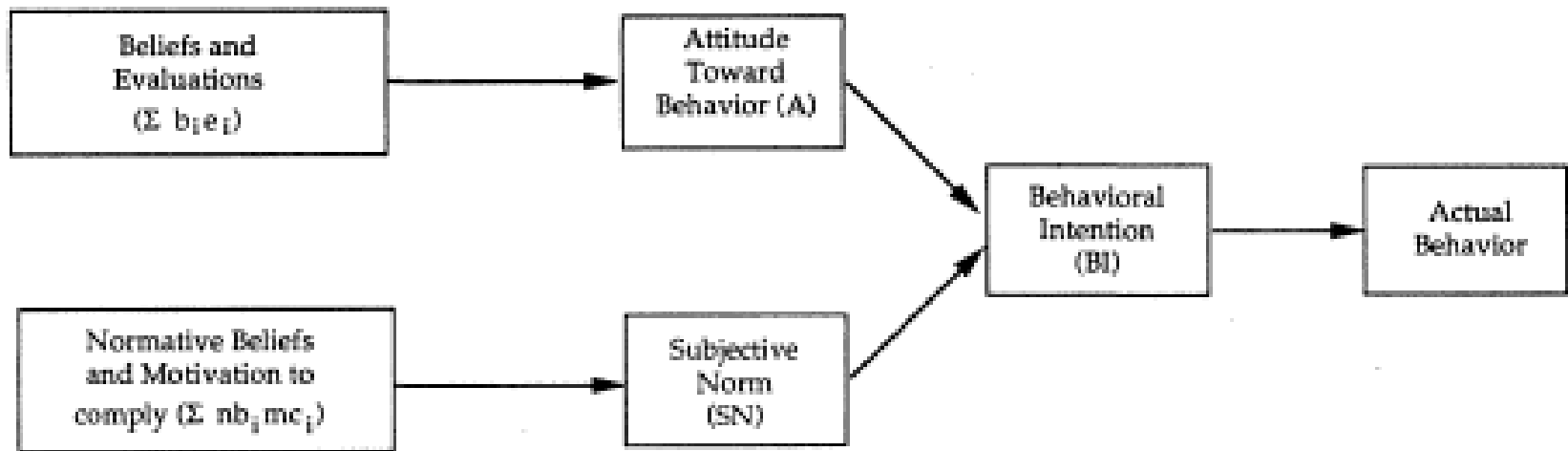


Fig. 1.2 Schematic presentation of conceptual framework for the prediction of specific intentions and behaviors.

# TRA (1989)



**Fig. 1.2** Schematic presentation of conceptual framework for the prediction of specific intentions and behaviors.



**FIGURE 1.** Theory of Reasoned Action (TRA).



# TPB (1985)

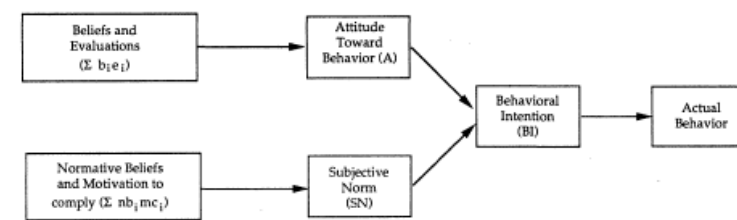


FIGURE 1. Theory of Reasoned Action (TRA).

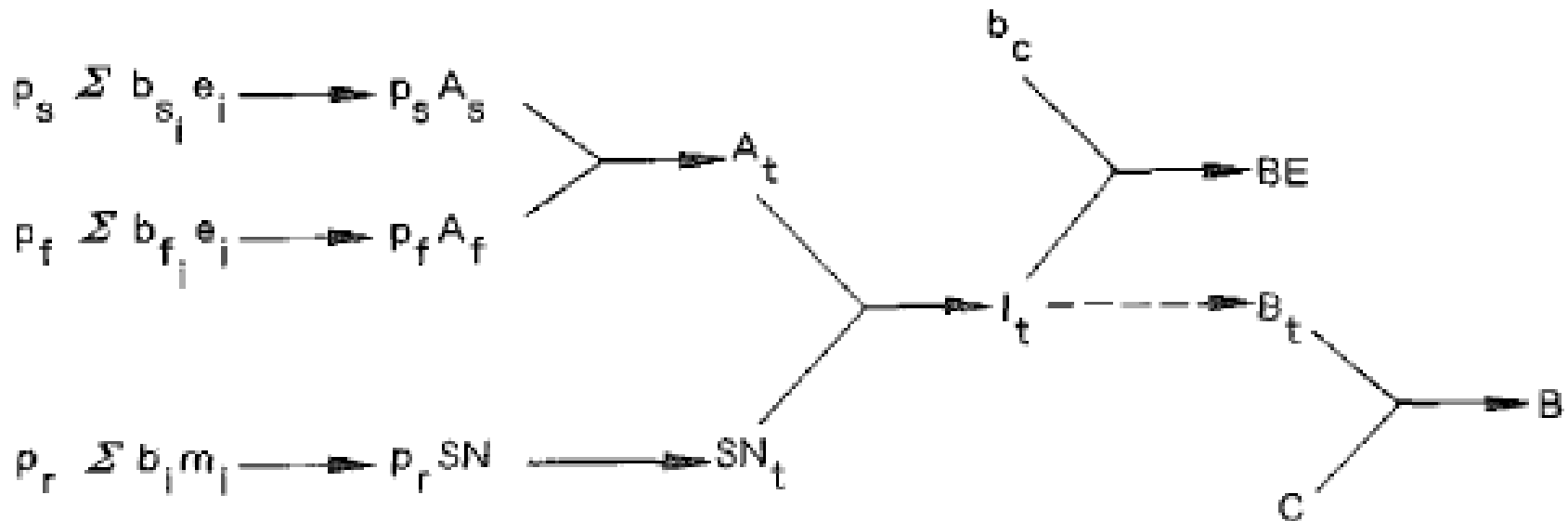


Fig. 2.1. Schematic presentation of the theory of planned behavior

# TPB (1989)

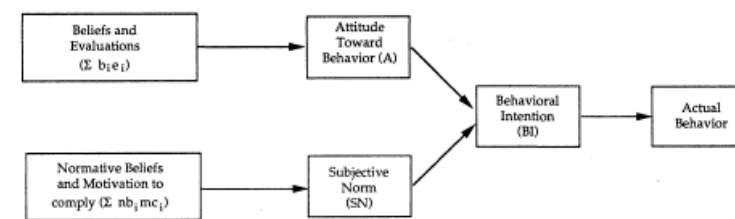


FIGURE 1. Theory of Reasoned Action (TRA).

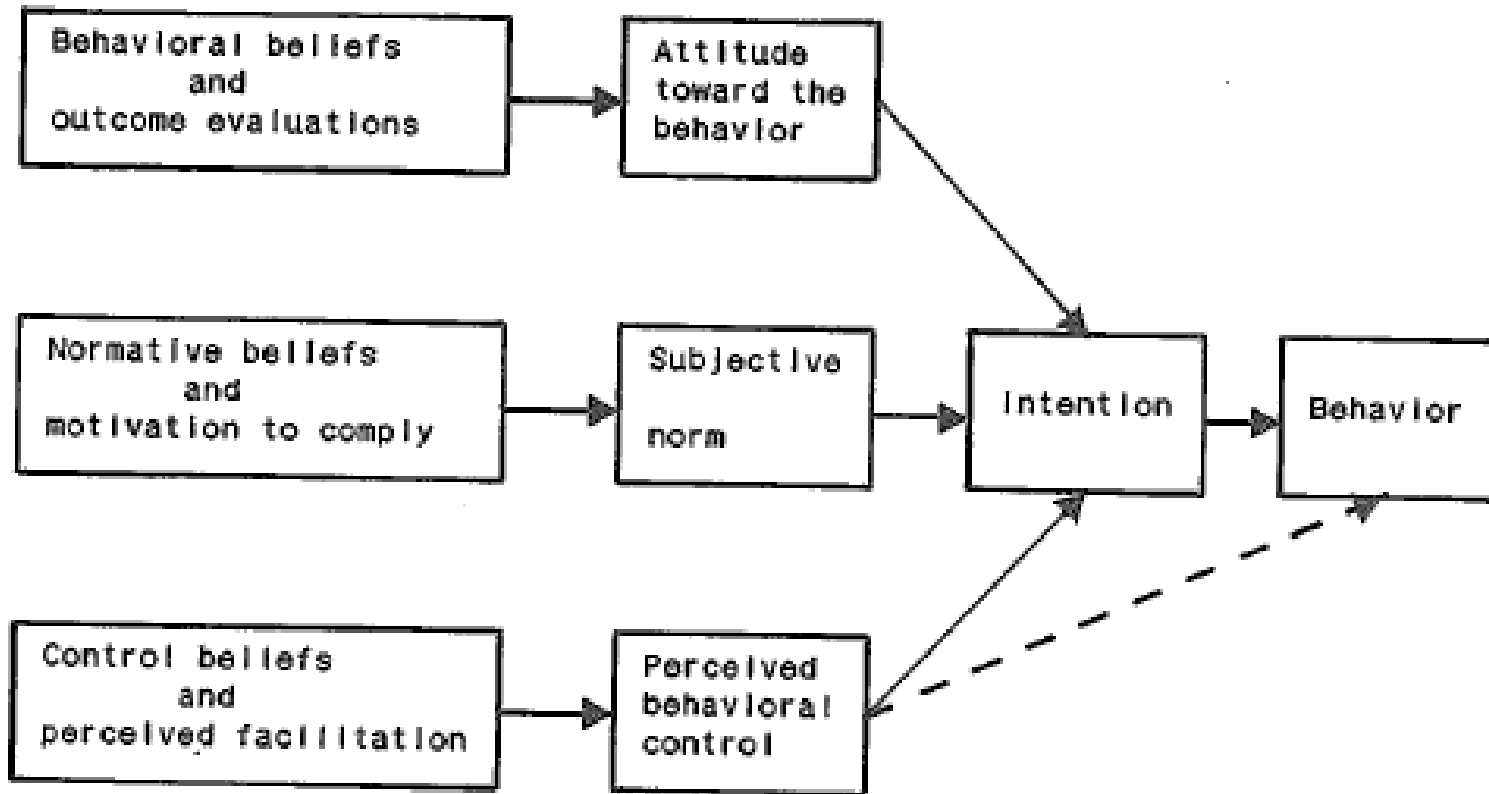


FIG. 10.2. Theory of planned behavior.

# TPB (1991)

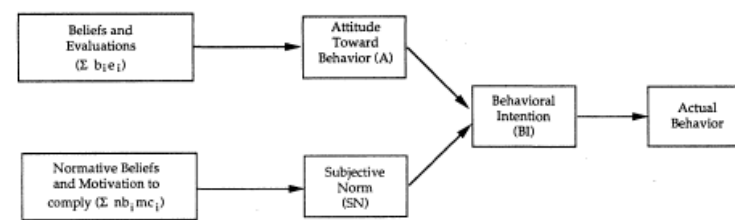


FIGURE 1. Theory of Reasoned Action (TRA).

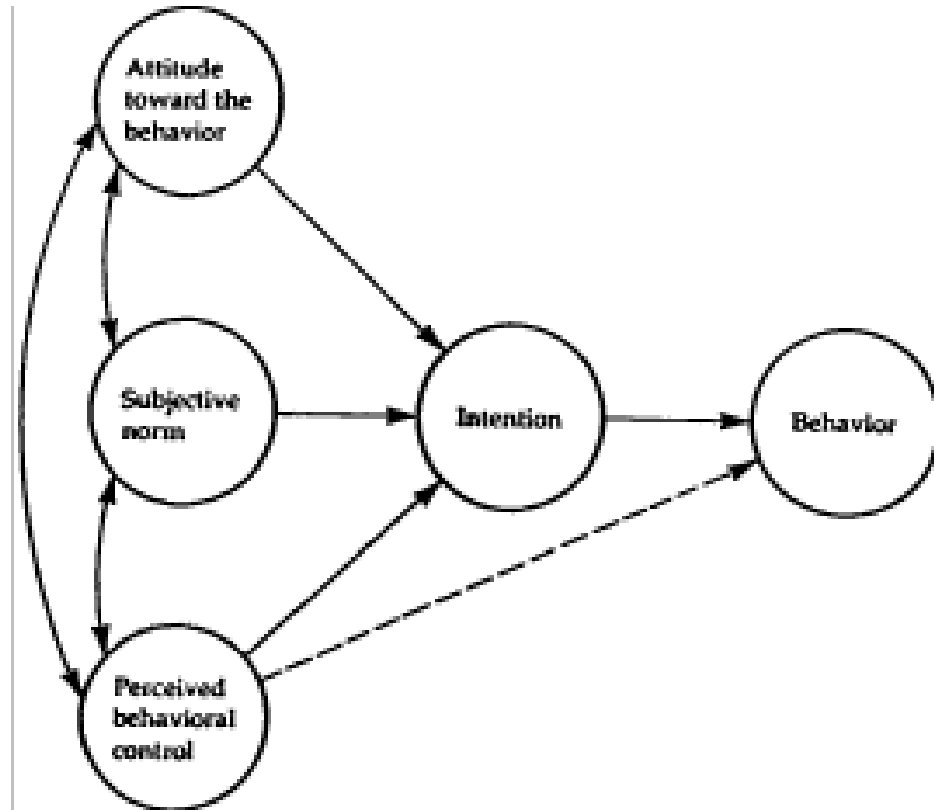
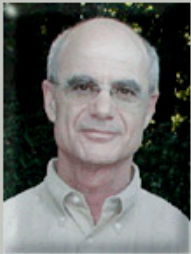


FIG. 1. Theory of planned behavior



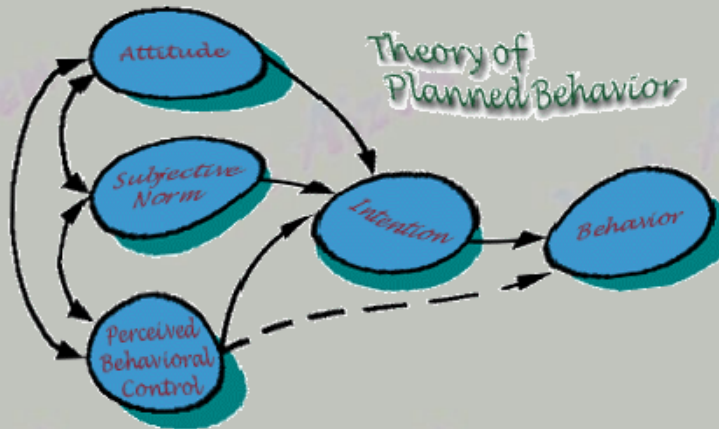
# Icek Aizen (Ajzen)

Professor of Psychology  
 University of Massachusetts

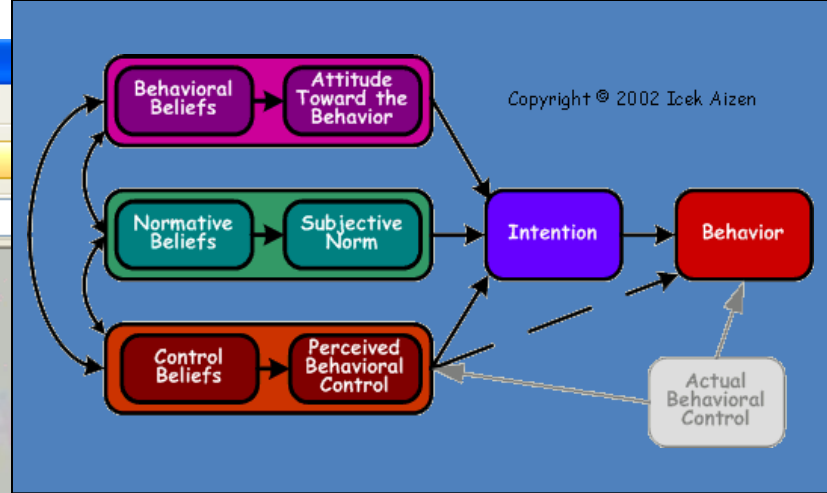
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Last modified: April 13, 2005



# TAM (1989)

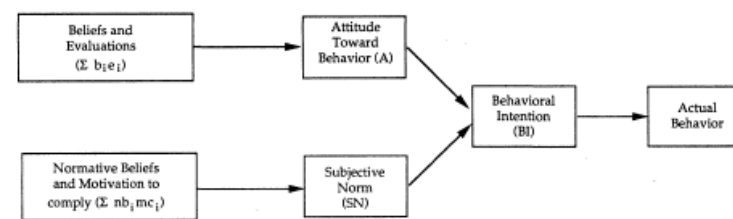


FIGURE 1. Theory of Reasoned Action (TRA).

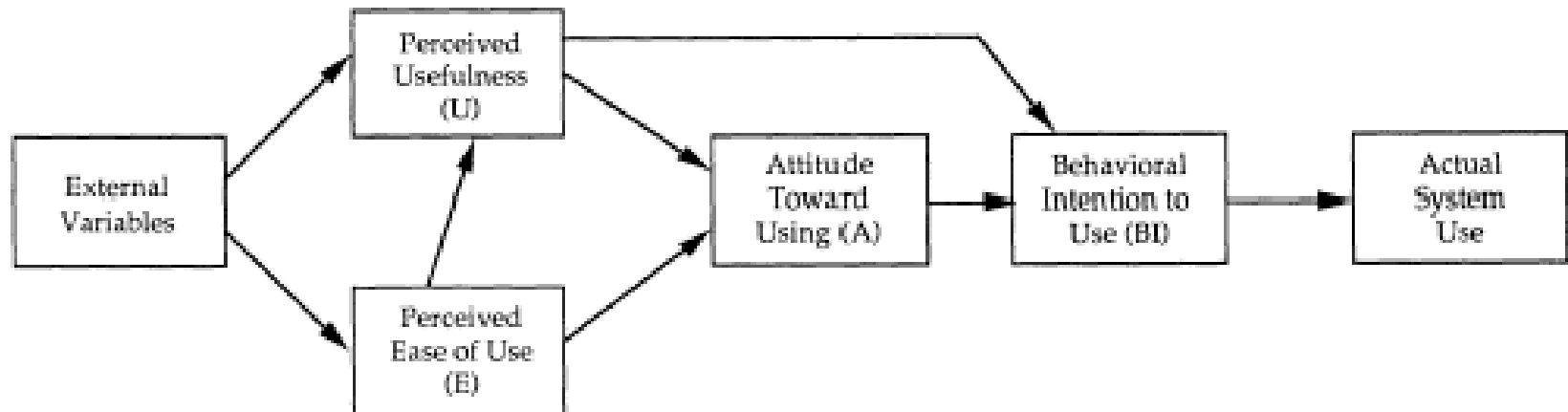


FIGURE 2. Technology Acceptance Model (TAM).

# TAM2 (2000)

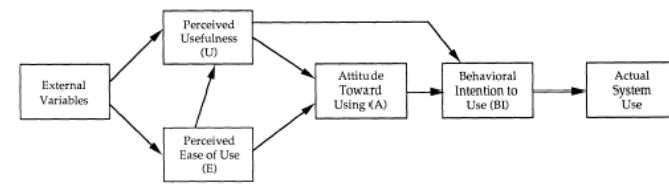
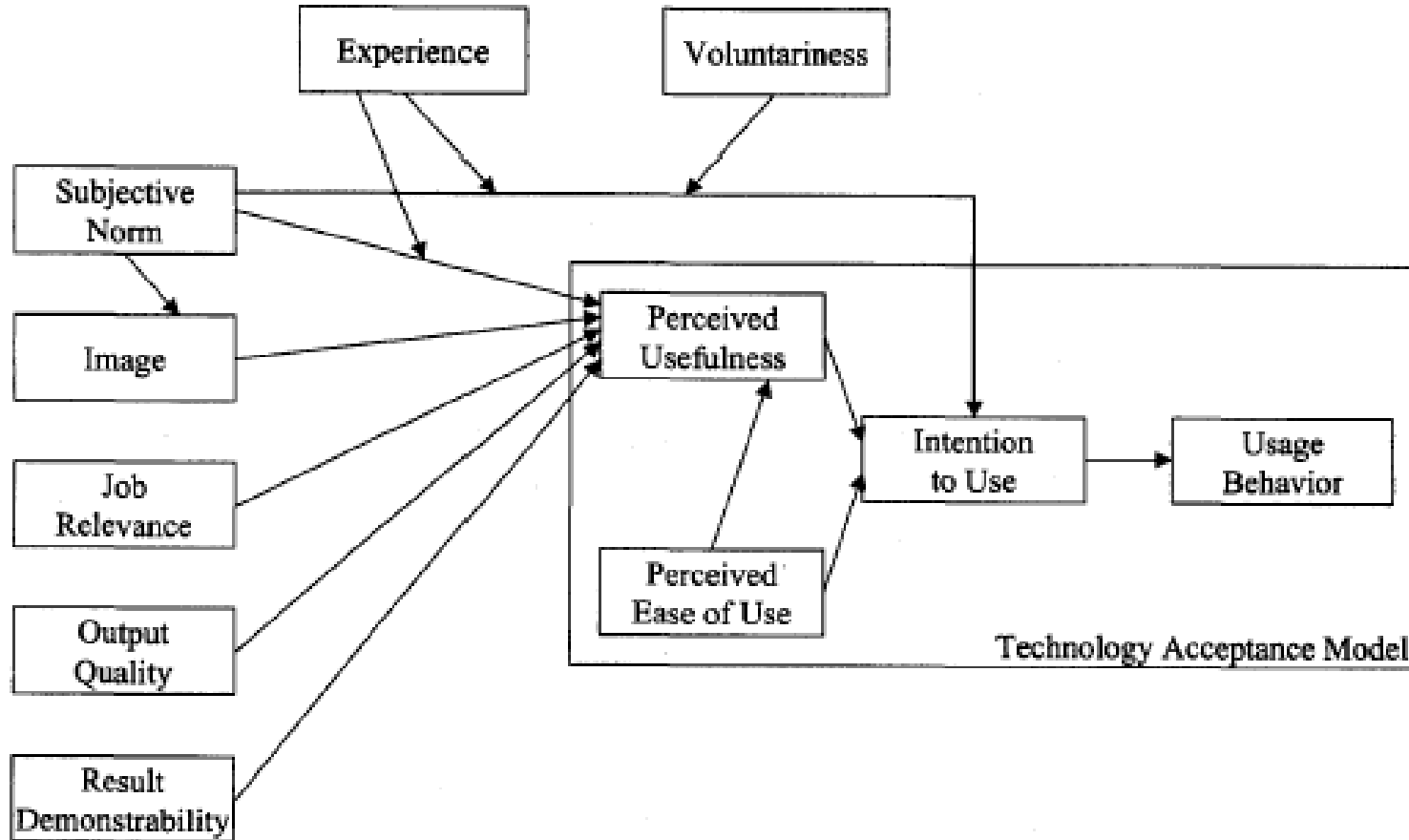


FIGURE 2. Technology Acceptance Model (TAM).

Figure 1 Proposed TAM2—Extension of the Technology Acceptance Model



Venkatesh, V., & Davis, F. D. (2000) "A theoretical extension of the technology acceptance model: Four longitudinal field studies", *Management Science*, 46(2), pp. 186-204.

# UTAUT (2003)

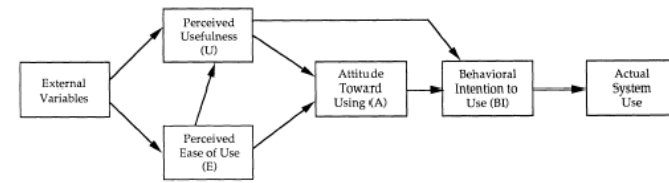
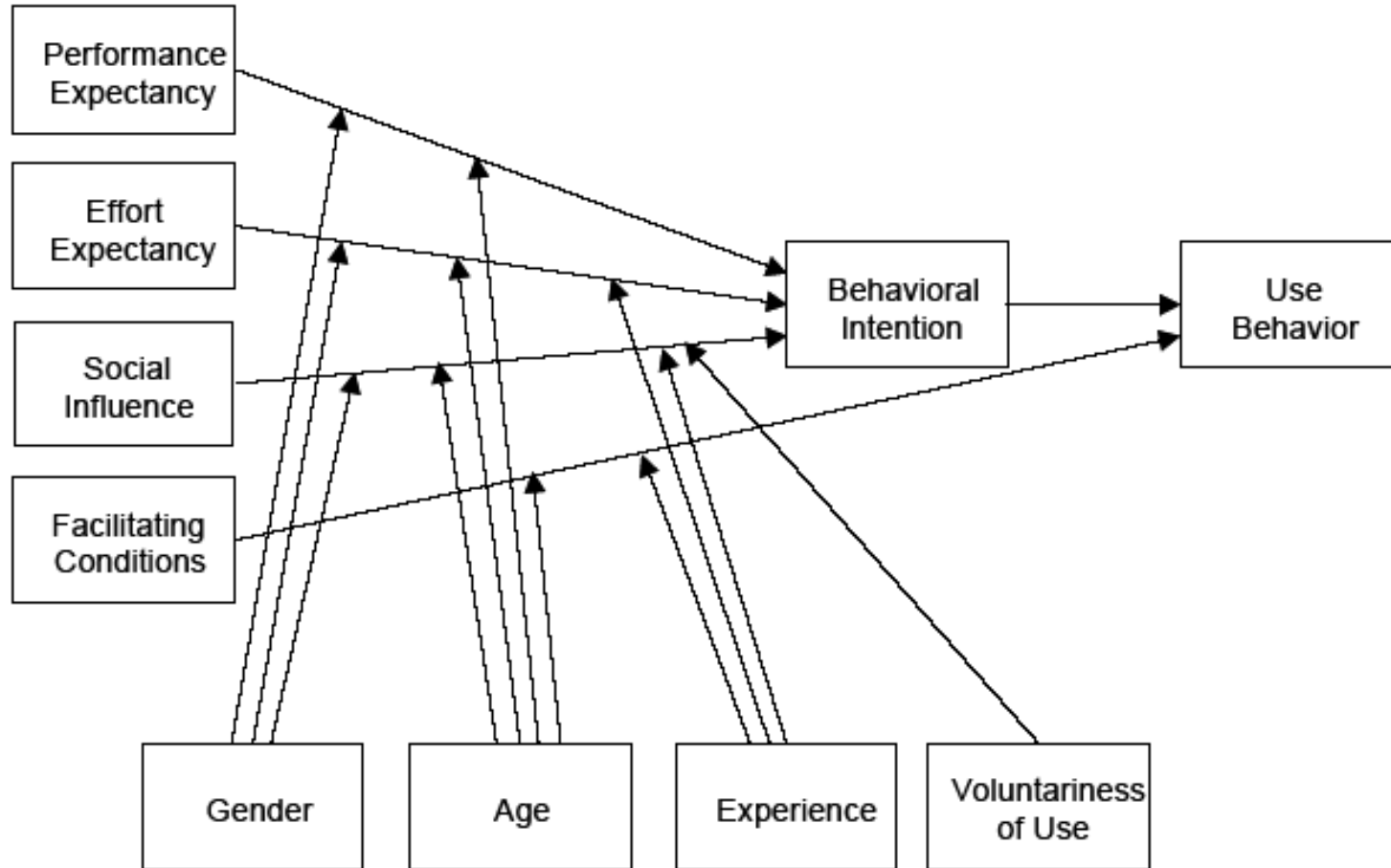


FIGURE 2. Technology Acceptance Model (TAM).



Unified Theory of Acceptance and Use of Technology (UTAUT)



Social Cognitive Theory  
**(SCT)**  
(Compeau and Higgins 1995)

Theory of Reasoned Action  
**(TRA)**  
(Fishbein and Ajzen 1975)

Technology Acceptance Model  
**(TAM)**  
(Davis 1989)

Innovation Diffusion Theory  
**(IDT)**  
(Moore and Benbasat 1991)

Unified Theory of Acceptance and Use of Technology  
**(UTAUT)**  
(Venkatesh et al. 2003)

Motivation Model  
**(MM)**  
(Davis et al. 1992)

Model of PC Utilization  
**(MPCU)**  
(Tompson et al. 1991)

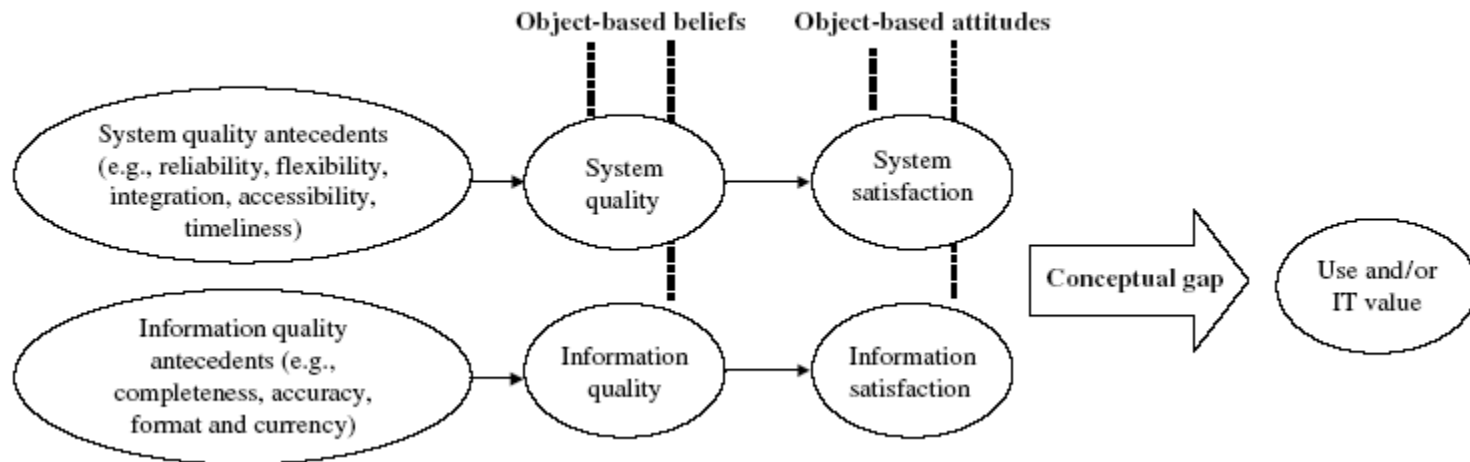
Combined TAM and TPB  
**(C-TAM-TPB)**  
(Taylor and Todd 1995)

Theory of Planned Behavior  
**(TPB)**  
(Ajzen 1991)



# US (User Satisfaction)

Figure 2 The User Satisfaction Research Stream Approach



# IUSTA (2005)

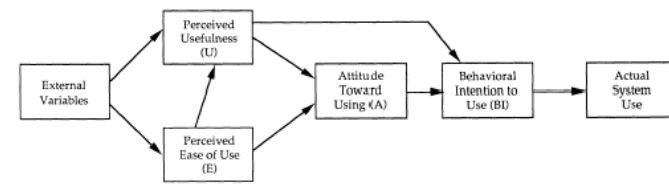
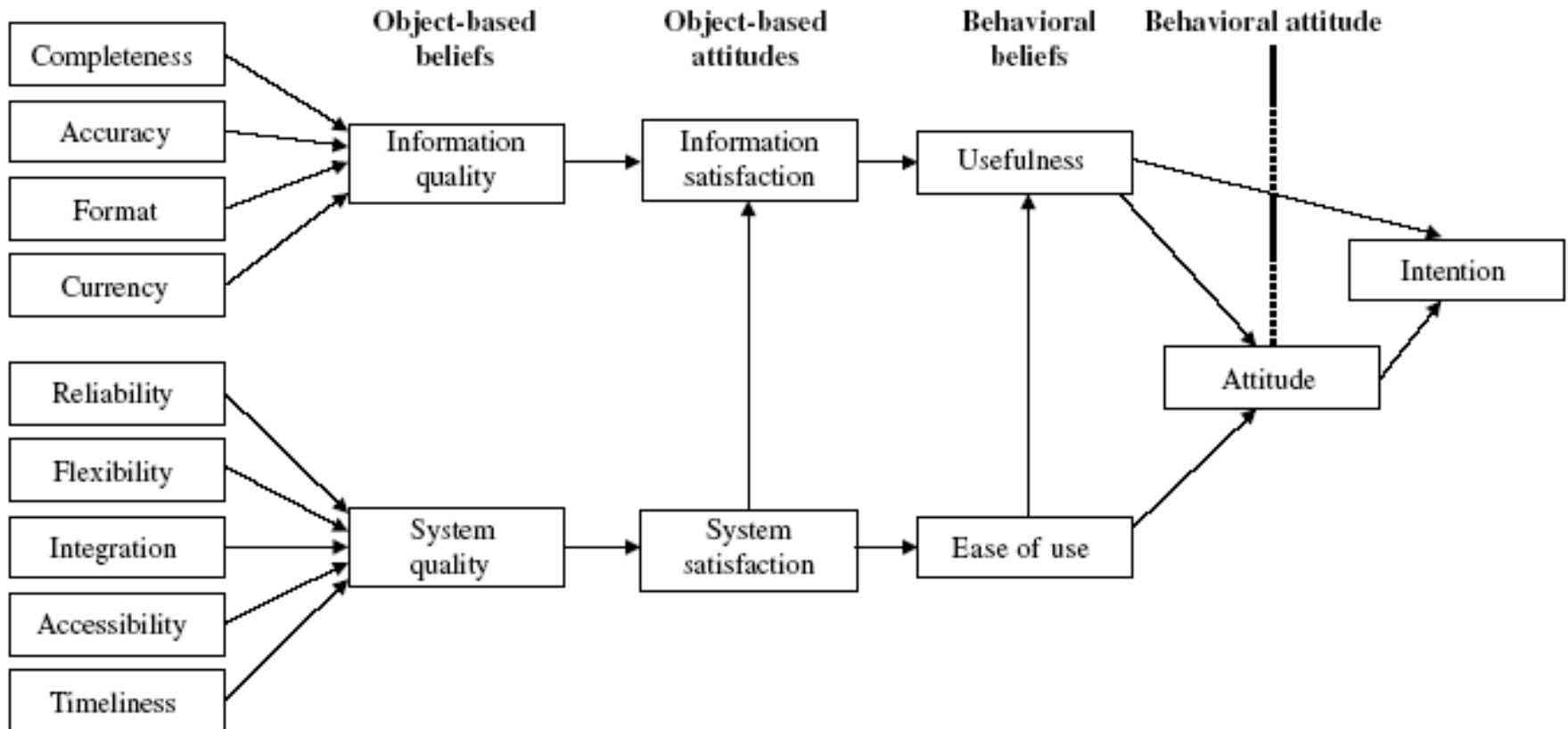


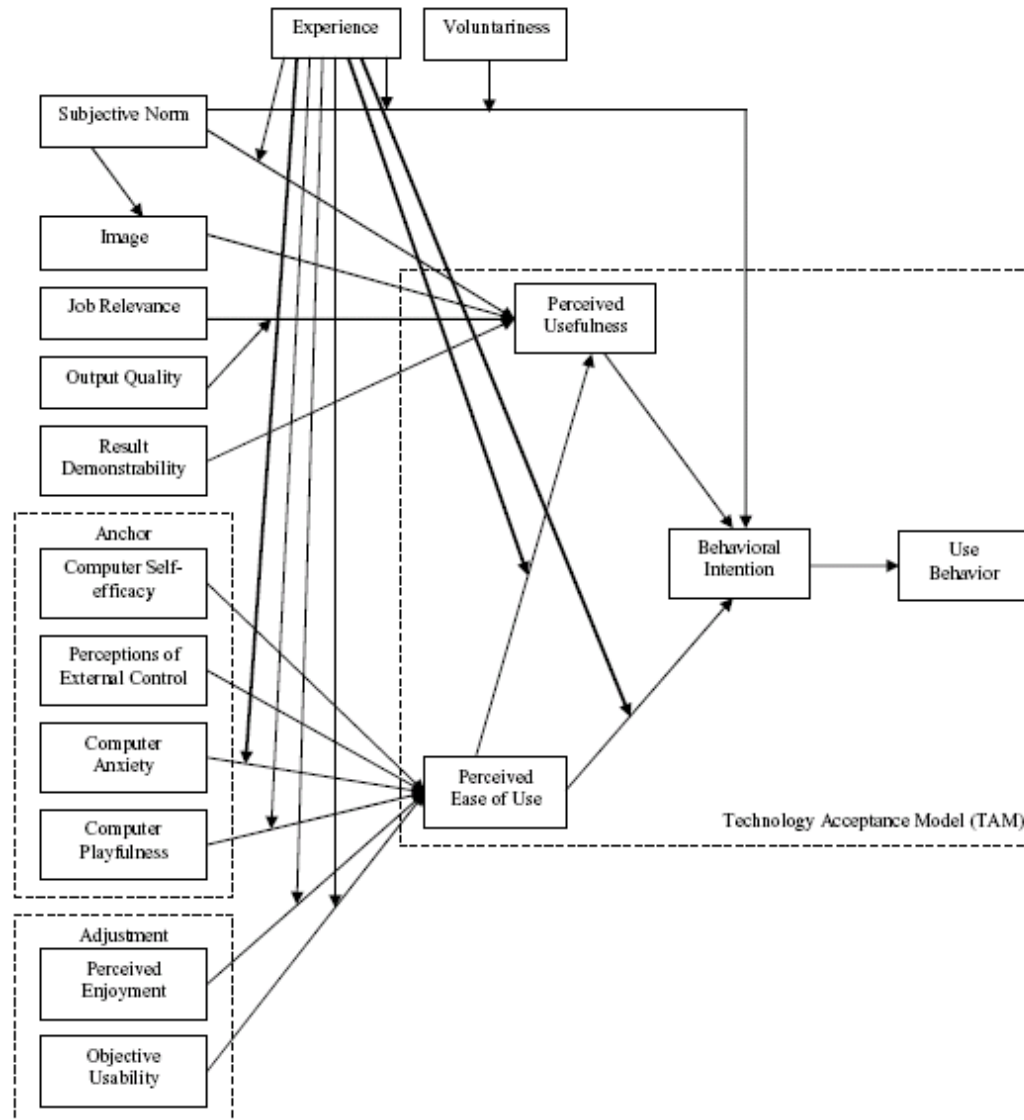
FIGURE 2. Technology Acceptance Model (TAM).



IUSTA (integration of user satisfaction and technology acceptance)

Wixom, B.H., and Todd, P.A. "A theoretical integration of user satisfaction and technology acceptance," Information Systems Research (16:1), Mar 2005, pp 85-102.

# TAM 3 (2008)

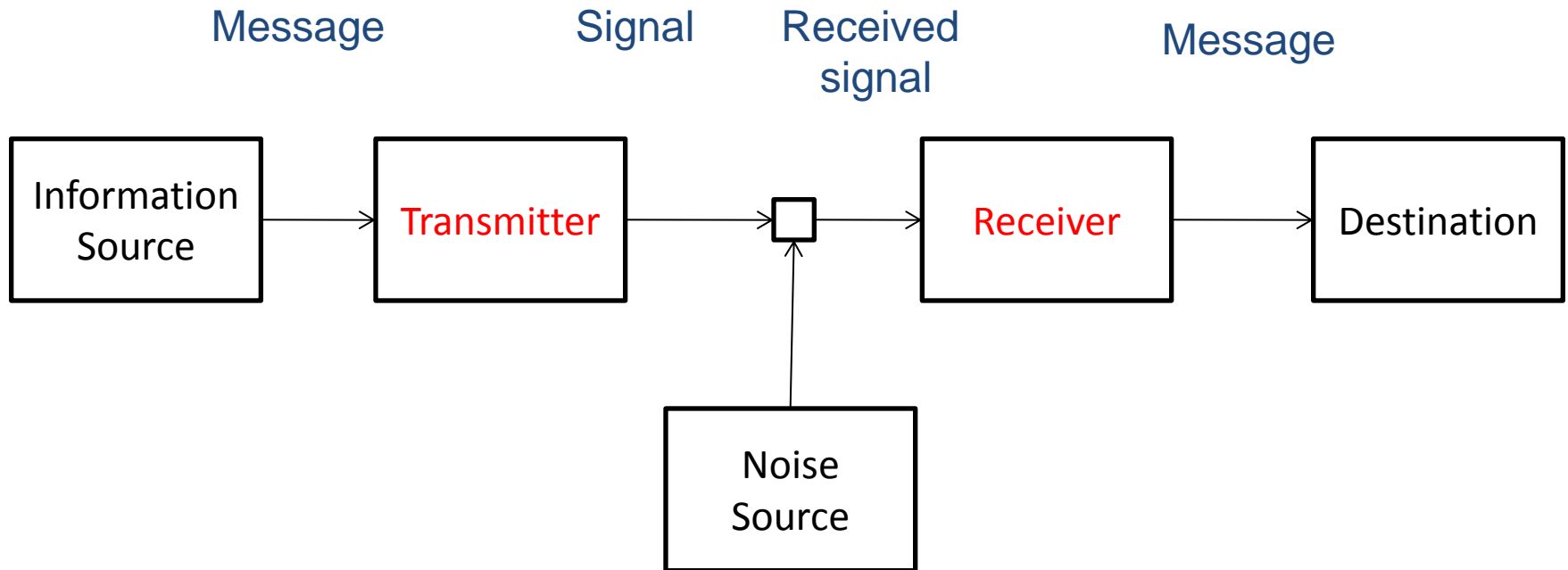


<sup>a</sup>Thick lines indicate new relationships proposed in TAM3.

# Theories of Media and Information

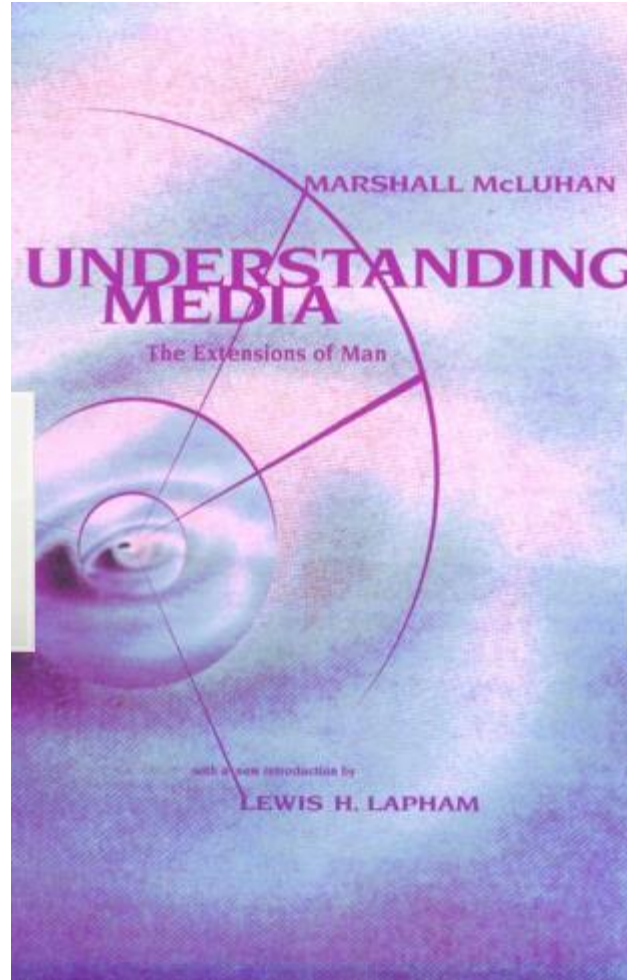
1. Information Theory
2. Innovation diffusion theory
3. Media System Dependency Theory
4. Knowledge Gap Theory
5. Agenda Setting Theory
6. Elements of Agenda Setting Theory
7. Framing Theory
8. Spiral of Silence Theory
9. New Production Research
10. Media Intrusion Theory

# Information Theory (1949)



Mathematical (Information) Model of Communication  
Source: Shannon & Weaver (1949)

# *Understanding the Media: The Extensions of Man* (1964)



# The Medium is the Message: An Inventory of Effects (1967)

- The Medium is the Message: An Inventory of Effects (1967)
  - by Marshall McLuhan



# Theories of Social Media Services

- Media Richness Theory (MRT)
  - (Daft & Lengel, 1986)
- Media Synchronicity Theory (MST)
  - (Dennis et al., 1998, 1999, 2008)
- Media Naturalness Theory (MNT)
  - (Kock, 2001; 2004)



# Media Richness Theory (MRT)

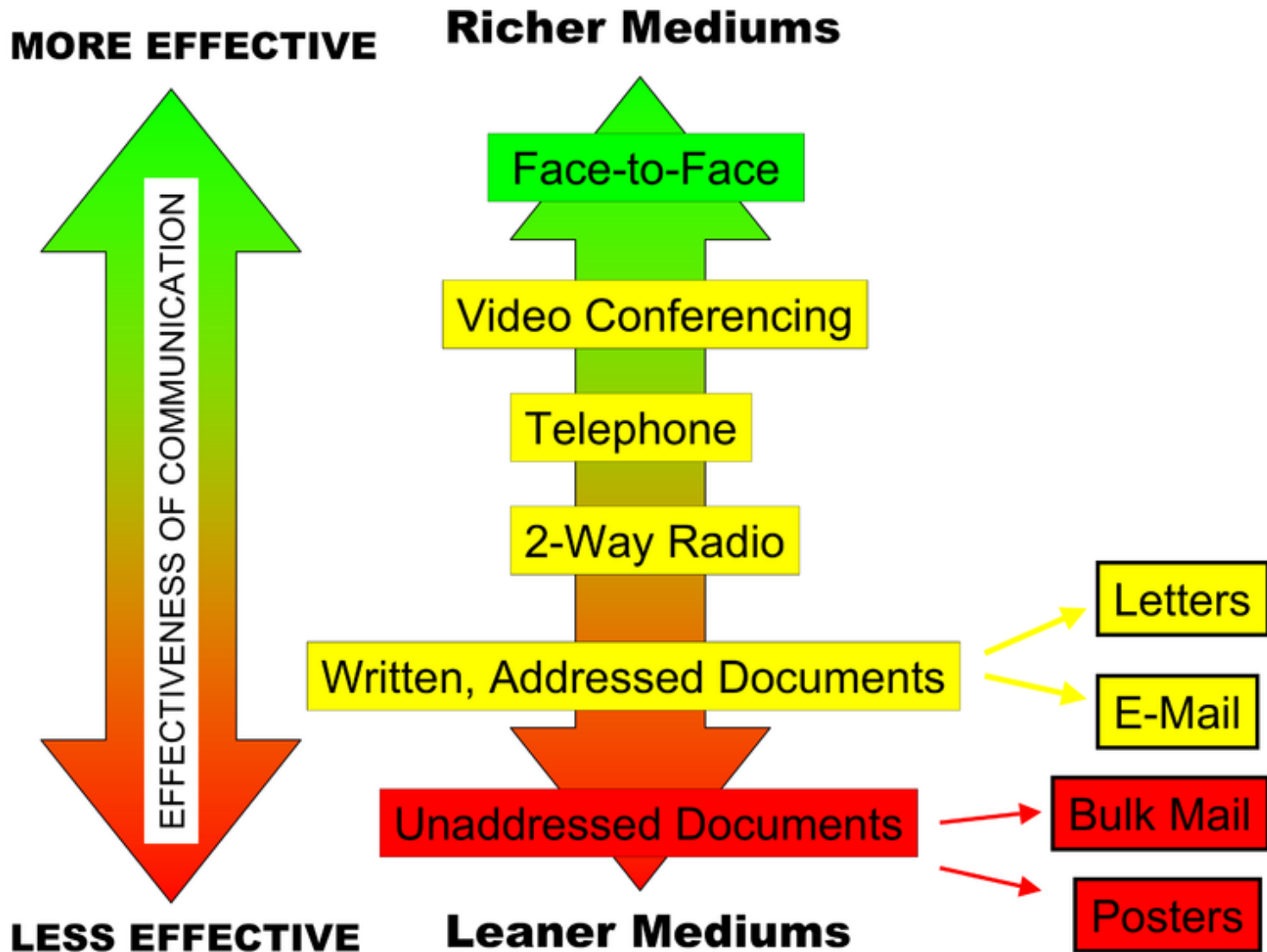
- Daft, 1984
- Information Richness Theory
- Origin from
  - Information Processing Theory
    - Galbraith
  - Contingency Theory

# Media Richness Theory (MRT)

- Media Richness is a function of
  - Instant Feedback
  - Multiple cues
  - Language variety
  - Personal focus

# Media Richness Theory

(Daft & Lengel, 1986)



# Media Richness Theory

- Information richness
  - The ability of information to change understanding within a time interval

# Media Richness Theory

- Media richness is a function of
  1. The medium's capacity for **immediate feedback**
  2. The number of **cues and channels** available
  3. **Language variety**
  4. The degree to which intent is **focused on the recipient**

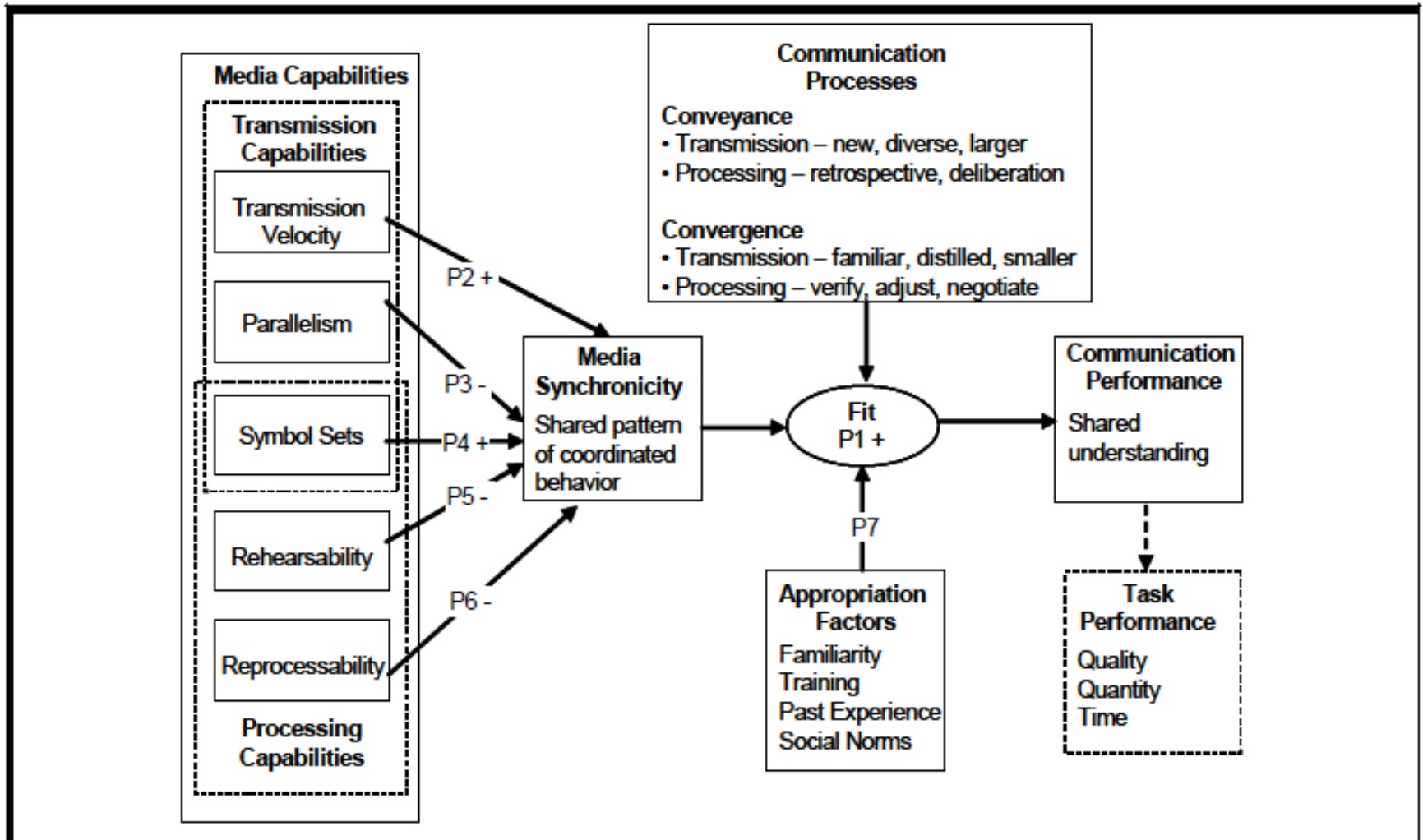
# Media Synchronicity Theory (MST)

- Dennis et al. (1998; 1999; 2008)

# MISQ Paper of the Year Recipients

- **Paper of the Year for 2009**  
“Exploring Human Images in Website Design: A Multi-Method Approach”  
Dianne Cyr, Milena Head, Hector Larios, and Bing Pan  
(Volume 33, Issue 3, September 2009)
- **Paper of the Year for 2008**  
“Media, Tasks, and Communication Processes: A Theory of Media Synchronicity”  
Alan R. Dennis, Robert M. Fuller, and Joseph S. Valacich  
(Volume 32, Issue 3, September 2008)
- **Paper of the Year for 2007**  
“Toward a Deeper Understanding of System Usage in Organizations: A Multilevel Perspective”  
Andrew Burton-Jones and Michael J. Gallivan  
(Volume 31, Issue 4, December 2007)

# Media Synchronicity Theory (MST)



**Figure 1. Media Synchronicity Theory**



# Media Synchronicity Theory (MST)

**Table 1. Communication Process Characteristics**

Communication Process	Information Transmission Characteristics	Information Processing Characteristics	Media Synchronicity Required
Conveyance	Higher Quality Various Formats Multiple Sources	Retrospective Slower	Lower
Convergence	Lower Quality Specific Format Specific Sources Faster	Verification Adjustment Negotiation Faster	Higher

# Media Synchronicity Theory (MST)

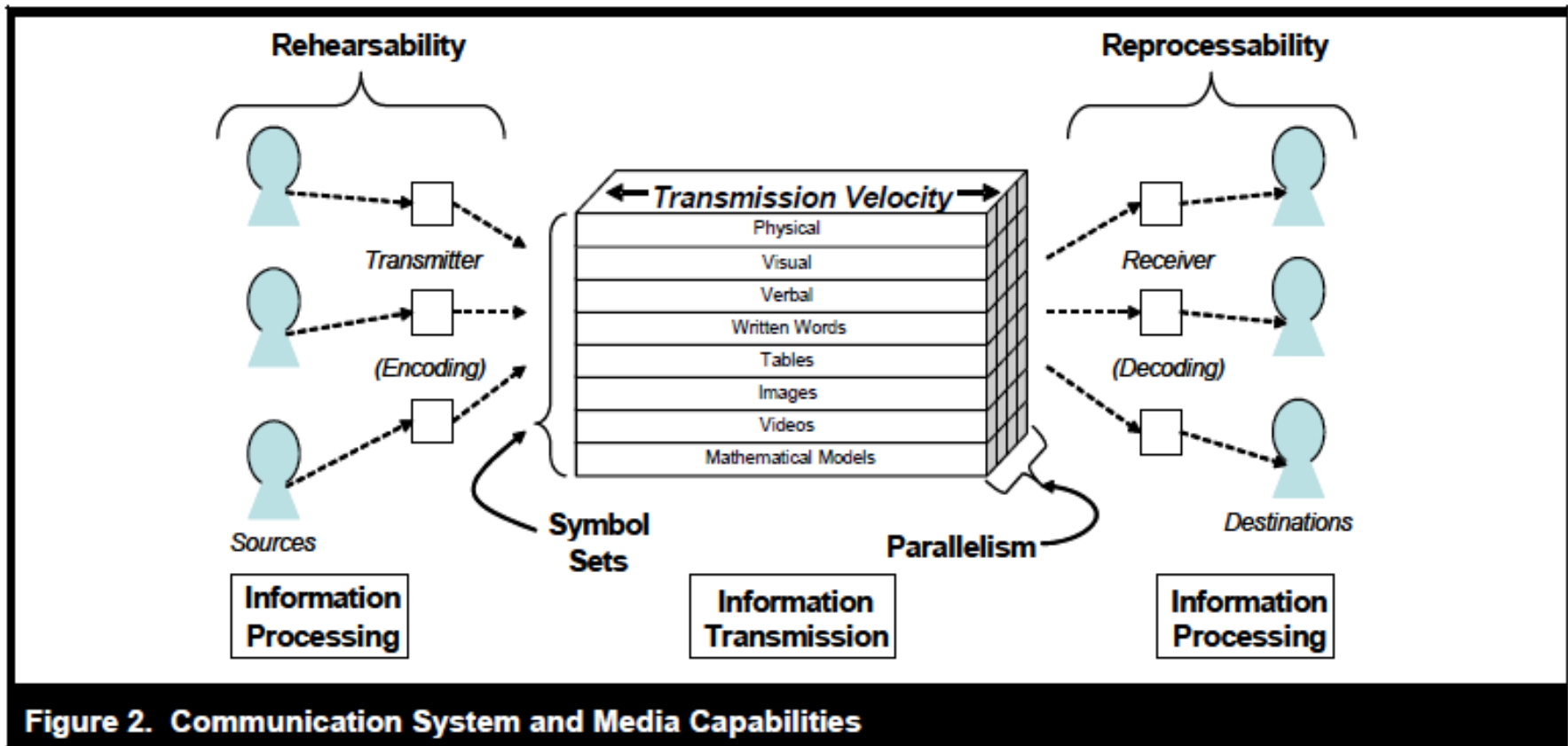


Figure 2. Communication System and Media Capabilities

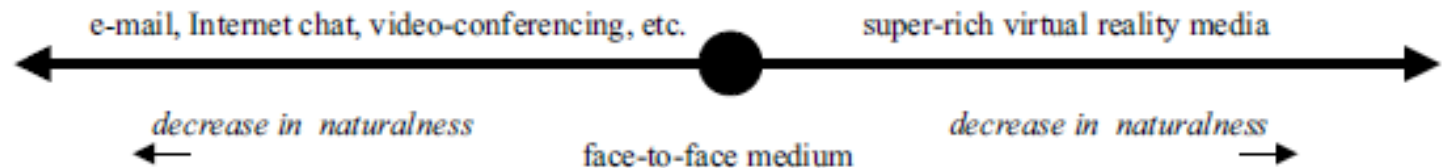
# Media Synchronicity Theory (MST)

**Table 2. Comparison of Selected Media and Their Capabilities**

	Transmission Velocity	Parallelism	Symbol Sets	Rehearsability	Reprocessability	Information Transmission	Information Processing	Synchronicity
Face-to-face	High	Medium	Few-Many	Low	Low	Fast	Low	High
Video Conference	High	Medium	Few-Medium	Low	Low	Fast	Low	High
Telephone Conference	High	Low	Few	Low	Low	Fast	Low	Medium
Synchronous Instant Messaging	Medium-High	Low-Medium	Few-Medium	Medium	Medium-High	Medium	Low-Medium	Medium
Synchronous Electronic Conferencing	Medium-High	High	Few-Medium	Medium	High	Medium	Medium	Low-Medium
Asynchronous Electronic Conferencing	Low-Medium	High	Few-Medium	High	High	Slow	High	Low
Asynchronous Electronic Mail	Low-Medium	High	Few-Medium	High	High	Slow	High	Low
Voice Mail	Low-Medium	Low	Few	Low-Medium	High	Slow	Medium	Low
Fax	Low-Medium	Low	Few-Medium	High	High	Slow	High	Low
Documents	Low	High	Few-Medium	High	High	Slow	High	Low

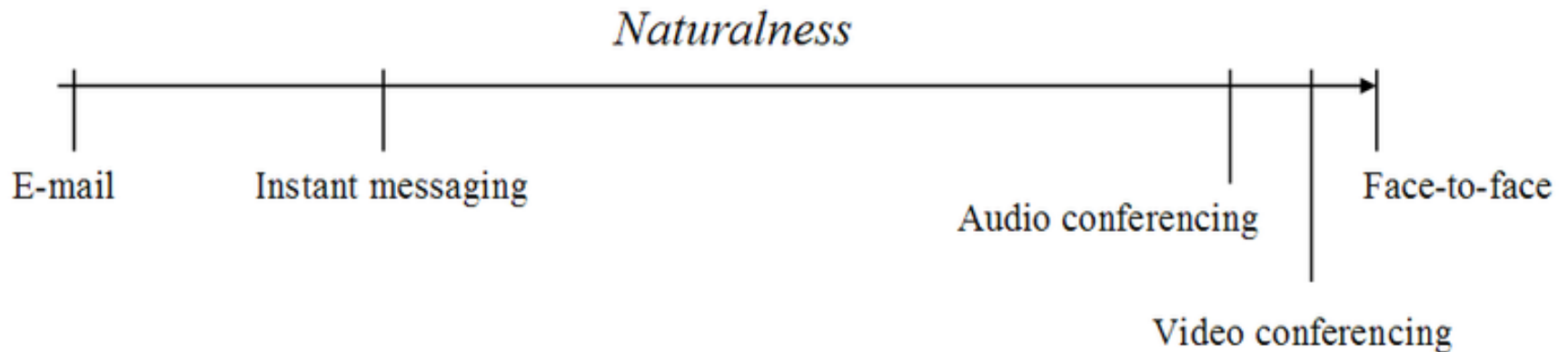
# Media Naturalness Theory (MNT)

**Figure 1 The Media Naturalness Scale**



*Note.* The highest degree of naturalness is found at the center of the scale.

# Media Naturalness Theory (MNT)



Media naturalness scale

# Summary

- Marketing Research
- The Marketing Research Process
- Basis of Social Media Marketing Theory

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