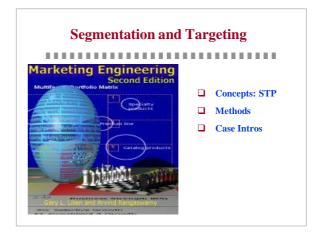
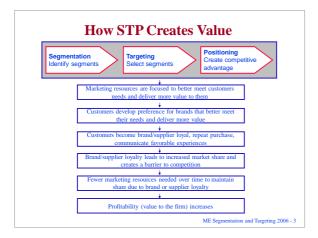
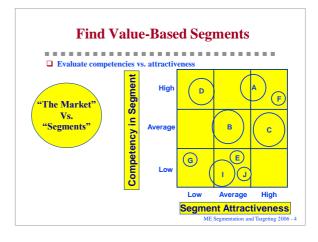
University of Tsukuba, Grad. Sch. of Sys. and Info. Eng. Instructor: Fumiyo Kondo Room: 3F1131 kondo@sk.tsukuba.ac.jp







Market Segmentation Market segmentation is the subdividing of a market into distinct subsets of customers. Segments Members are different between segments but similar within.

Markets are Dynamic Segments may be unstable over time Buyer behavior changes Competitors change The business environment changes This means that it is important to view segmentation as ... A process to support business decisions Not a static classification of the market

The Many Uses of Segmentation

Short-term segmentation applications:

- Salesforce allocation/call planning
- **■** Channel assignment
- **■** Communication program development: spending, allocation and messagingPricing

Focus on today's competitors and my current relative advantage to the customer

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The Many Uses of Segmentation

Longer term:

- **Emerging needs (Opportunity-focused** segmentation)
- New and evolving segments to serve
- Planning for segment development/growth and anticipating competitive threats
- **Key-influencer spill-over**

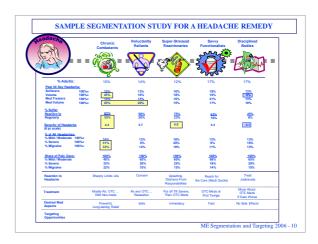
Market driving (vs. customer focused)

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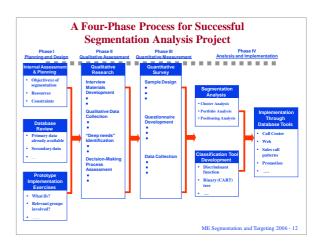
Currently, Most Segmentation Projects Provide...

Insights...





In the Final Analysis.... Little Measurable Value **Most segmentation projects** are one-time Projects that drain resources



Primary Characteristics of Segments

- ☐ Bases—characteristics that tell us why segments differ (e.g., needs, preferences, decision processes).
- ☐ Descriptors—characteristics that help us find and reach segments.

(Business markets) (Consumer markets)

Industry Age/Income Size Education Location Profession Organizational Life styles structure Media habits

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and Describe Markets		
	Consumer	Industrial
Segmentation Bases	Needs, wants benefits, solutions to problems, usage situation, usage rate.	Needs, wants benefits, solutions to problems, usage situation, usage rate, size*, industrial*(*=macro-bases)
Descriptors Demographics	Age, income, marital status, family type & size, gender, social class, etc.	Industry, size, location, current supplier(s), technology utilization, etc.
Psychographics	Lifestyle, values, & personality characteristics.	Personality characteristics of decision makers.
Behavior	Use occasions, usage level, complementary & substitute products used, brand loyalty, etc.	Use occasions, usage level, complementary & substitute products used, brand loyalty, order size, applications, etc.
Decision Making	Individual or group (family) choice, low or high involvement purchase, attitudes and knowledge about product class, price sensitivity, etc.	Formalization of purchasing procedures, size & characteristics of decision making group, use of outside consultants, purchasing criteria, (de)centralizing buying, price sensitivity, switching costs, etc.
Media Patterns	Level of use, types of media used, times of use, etc.	Level of use, types of media used, time of use, patronage at trade shows, receptivity of sales people, etc.

Managing Segmentation

1. Define segmentation problem

- 2. Conduct market research
- 3. Build segmentation database
- 4. Define market segments
- 5. Describe market segments
- 6. Implement results!

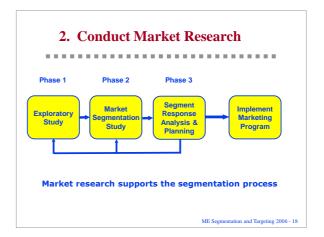
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1. Define Segmentation Problem

- ☐ View market segmentation problem as a series of hierarchical stages -- for example
 - Identify broad strategic "macro-segments" that effectively define market structure
 - ☐ Industry groups
 - ☐ Product usage (rate of usage, application, etc.)
 - ☐ Geographic location, etc
 - Within macro-segments, conduct research to find "micro-segments" for competitive advantage
 - ☐ Segmentation on buyer needs and value
 - ☐ Segmentation on product benefits

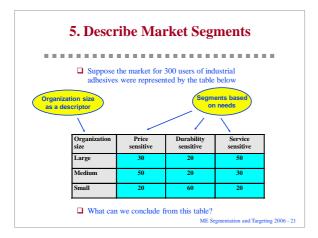
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Levels of Segmentation . Mass Market Macro Segments Micro Segments Segments of One



A. Build Segmentation Database Importance Competitor Usage Perceptions variables Vari

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Industrial Adhesive Buyers Segment 1 Segment 2 Segment 3 Segment 4 "Experts" "Greedies" "Greenies" N=85 (35%) N=78 (32%) N=30 (12%) everything: of products full product Want speed that help line, speed of of delivery them solve delivery, eco friendly and no custome safe problems products rating new "concept" as "very go who would "definitely buy" at 10% ore than current price 15% ME Segmentation and Targeting 2006 - 22

Respondent Selection/Aggregation Issues Who makes the purchasing decision:? DMU (decision making unit)? Roles of individuals Purchasing agent? User? Specifier? Gatekeeper? Financial analyst? How many respondents per unit? If more than one, how to aggregate?

 Factor analysis (to reduce data before cluster analysis). Cluster analysis to form segments. Discriminant analysis to describe segments 	Segmentation: Methods Overview		
☐ Discriminant analysis to describe			
•		Cluster analysis to form segments.	
sogments.	٥	Discriminant analysis to describe segments.	

Cluster Analysis for Segmenting Markets

- Define a measure to assess the similarity of customers on the basis of their needs.
- ☐ Group customers with similar needs. The software uses the "Ward's minimum variance criterion" and, as an option, the K-Means algorithm for doing this.
- Select the number of segments using numeric and strategic criteria, and your judgment.
- ☐ Profile the needs of the selected segments (e.g., using cluster means)

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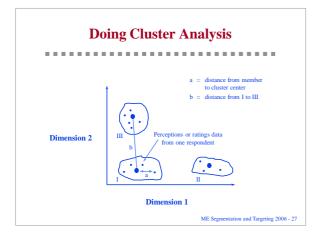
Cluster Analysis Issues

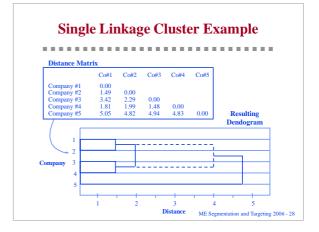
- ☐ Defining a measure of similarity (or distance) between segments.
- ☐ Identifying "outliers."
- ☐ Selecting a clustering procedure
 - Hierarchical clustering (e.g., Single linkage, average linkage, and
 - minimum variance methods)

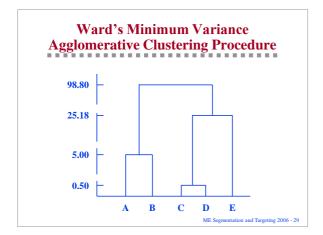
 Partitioning methods (e.g., K-Means)
- Cluster profiling

 - Univariate analysisMultiple discriminant analysis

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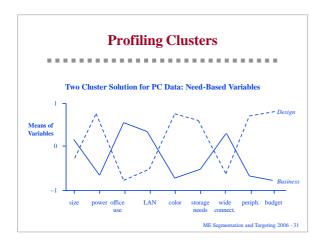






Interpreting Cluster Analysis Results

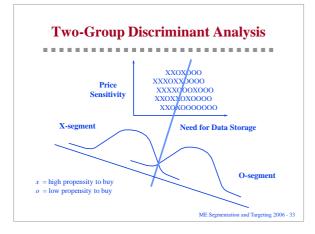
- Select the appropriate number of clusters:
 - Are the bases variables highly correlated? (Should we reduce the data through factor analysis before clustering?)
 - · Are the clusters separated well from each other?
 - Should we combine or separate the clusters?
 - · Can you come up with descriptive names for each cluster (eg, professionals, techno-savvy, etc.)?
- Segment the market independently of your ability to reach the segments (i.e., separately evaluate segmentation and discriminant analysis results).



Discriminant Analysis for Describing Market Segments

- ☐ Identify a set of "observable" variables that helps you to understand how to reach and serve the needs of selected clusters.
- ☐ Use discriminant analysis to identify underlying dimensions (axes) that maximally differentiate between the selected clusters.

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Interpreting Discriminant Analysis Results

- What proportion of the total variance in the descriptor data is explained by the statistically significant discriminant axes?
- Does the model have good predictability ("hit rate") in each cluster?
- ☐ Can you identify good descriptors to find differences between clusters? (Examine correlations between discriminant axes and each descriptor variable).

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Managerial Uses of Segmentation Analysis

- ☐ Select attractive segments for focused effort (Can use models such as Analytic Hierarchy Process or GE Planning Matrix, or Response Model).
- ☐ Develop a marketing plan (4P's and positioning) to target selected segments.
 - In consumer markets, we typically rely on advertising and channel members to selectively reach targeted segments.
 - In business markets, we use sales force and direct marketing.
 You can use the results from the discriminant analysis to assign new customers to one of the segments.

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Checklist for Segmentation

- . Is it values, needs, or choice-based? Whose values and needs?
- 2. Is it a projectable sample?
- 3. Is the study valid? (Does it use multiple methods and multiple measures)
- 4. Are the segments stable?
- Does the study answer important marketing questions (product design, positioning, channel selection, sales force strategy, sales forecasting)
- 6. Are segmentation results linked to databases?
- 7. Is this a one-time study or is it a part of a long-term program?

Segmentation Summary

.........

In summary,

- ☐ Use needs variables to segment markets.
- ☐ Select segments taking into account both the attractiveness of segments and the strengths of the firm.
- ☐ Use descriptor variables to develop a marketing plan to reach and serve chosen segments.
- Develop mechanisms to implement the segmentation strategy on a routine basis (one way is through information technology).