Ch 1: Introduction, Evolution, and Emerging Issues I.Role of Marketing Research in a Marketing Plan

- Marketing Research & Business Function
- Every business operates with a business plan (explicit or implicit).
- It includes corporate & competitive strategies.
- Fnal areas: Marketing, Prodn, Finance, HRM (IT supports all
- Marketing Research & Strategy
- Strategy inv- segmennt, target market selecn, posining.
- Marketing research helps in choosing the appropriate strategy by providing relevant info (Strategic Level Rscrch)
- Marketing Research & Tactical Marketing Plan
- Tactical marketing plan includes the 4 P's:
- 1. Product Design, packaging
- 2. Price Pricing strategies
- 3. Promotion Short & long-term promotional activities
- 4. Place (Distribⁿ) Logistics & supply chain mgt

II. Marketing Intelligence vs. Marketing Research

- Marketing Information System
- Provides critical information for marketing decisions.
- Comprises two distinct processes:
 - 1. Marketing Intelligence (cont. data collection).
 - Marketing Research (ans sp. marketing questns 2.
- 1. Marketing Intelligence
- Ongoing process of collecting industry-related info.
- Covers competitors, suppliers, substitutes, govt policies.
- Helps identify long-term trends
- Often managed in-house (e.g., internal intelligence team Pricing Experiments & Techniques: subscribing to business reports).
- 2. Marketing Research
- Short-term, project-based process initiated when there is an "information gap."
- Designed to answer specific marketing questions (e.g., why market share is declining).
- Conducted through a defined methodology (internal team or outsourced to agencies like ORG-MARG, IMRB).
- Results directly impact marketing strategies & decisions

Who Conducts Marketing Research?

- Outsourcing Marketing Research- Not always handled in-house; often outsrced to specialized research firms.
- Reasons for outsourcing:
- # Marketing rsrch is intermittent(done only when needed # Professional rsrch firms offer expertise in various areas (consumer, industrial, qualitative research, service audits) # Many firms operate nationally & globally, making international research easier.
- Major Research Firms: ORG (Now A.C. Nielsen ORG-MARG) - Retail audits; IMRB, TNS Sofres MODE, Gallup-MBA - Other specialized research areas
- When Companies Conduct Research In-House
- Large consumer goods companies with multiple brands may have in-house research teams.
- Protects confidential info.(e.g., new pdt designs, pricing)
- But, maintaining in-house staff is **costly**, so companies often use a mix of int. & outsourced research.

III. Typical Applications of Marketing Research

Marketing research applicns are broadly classified into:

- 1. Strategic Applications
- Demand & Sales Forecasting
- Market Segmentation & Target Market Identification
- Positioning Strategies
- 2. Tactical Applications
- Pdt Testing (consumer preferences, packaging, design) Pricing Research (optimal price points, discounts)
- Advertising & Promnal Research (eff. of ads, campaigns)
- Distribⁿ & Logistics Research (supply chain efficiency, retail placement)
- Consumer Satisfaction Analysis

Key Observations- More tactical studies than strategic ones, as tactical elements can be adjusted frequently.

- Strategic decisns are fewer but have a long-term impact. **Examples of Marketing Research in India**
- Consumer buying habits for detergents(pack size, promns
- Potential demand for ready-to-eat chapatis in Mumbai.
- Consumer pref. for soap ingredients (tulsi, coconut oil).

1. Concept Research

- Stages in New Product Launch:
- Concept Dev & Testing(idea genⁿ & consumer feedback) Prototype Development & Testing.
- Test Marketing in a specific city/region.
- Market Size Estimation based on test results.
- National Rollout or Withdrawal.

- Concept Testing:- A short product descripⁿ is presented to consumers. Consumers rate liking, willingness to pay, and usability.Ex: A fabric softener concept is tested for packaging, pricing, scent, and effectiveness.
- Adv. method: Conjoint Analysis used to det. the best combⁿ of pdt features.

2. Product Research

- Focuses on:-Consumer preferences (packaging, features)
- Satisfaction/Dissatisfaction drivers.
- Competitive differenⁿ in both pdt & service aspects.
- Exs:- Manual vs. Automatic Cameras Understanding brand preference & consumer expectations.
- Photocopier Users Evaluating after-sales service, spare part availability, and service contracts.
- Application Across Product Life Cycle:
- Introduction Identifying market fit.
- **Growth** Competitive positioning.
- Maturity Differentiation strategies. Decline - Repositioning or exit strategies.
- Brand Posning Research:-Multidimnal Scaling: Identifies how consumers perceive brands relative to competitors.
- 3. Pricing Research
- Importance of Pricing in Marketing Strategy:
- Pricing affects consumer percepⁿ,sales,&market posⁿing
- Functional & psychological aspects:
- # High price→Premium quality perception.
- # Low price→Affordability but may indicate lower quality
- Price Elasticity Studies-Det. demand sensitivity to price changes- Price Framing Research - Understanding consumer ref. pts. for pricing
- Exs of Price Framing:
- Car price comparison One consumer compares it to a two-wheeler, another to stock investments.
- Investment decisions-Some comp mutual fund returns to **fixed deposits**, while compare it to **gold investments**.
- Challenges in Pricing Research:- Consumers struggle to articulate price expectations for convenience, after-sales service, and brand value.Requires indirect quesning & experience in pricing studies for accurate insights.

4. Distribution Research

- Traditionally focused on consumers & buyers, but now includes logistics, supply chain, and dealer service.
- Helps in brand building through standardized retail displays & promotions.
- Key areas of research:-Service levels of distribⁿ channels
- Frequency of sales visits & routing efficiency.
- Testing new distribution channels.
- Impact of displays on sales performance.

5. Advertising Research

Advertising research is divided into:

(1) Copy Research (Ad Content & Effectiveness)

- Studies various aspects of advertising impact:
- Brand Awareness & Recall (day-after, week-after recall).
- Effectiveness of slogans, jingles, celebrity endorsements.
- Comparing alternative ad copies & layouts.
- Storyboard testing for TV commercials before prodn.
- Tracking Studies:
- Ongoing surveys during an ad campaign(6months 1 yr).
- Helps in modifying ad theme,content,media seln,& freq.
- Caution: Sales impact may be influenced by multiple factors (competition, market trends), not just advertising.

(2) Media Research (Audience & Reach Analysis)

- TV Viewership Research:
- Specialized agencies (e.g., A.C. Nielsen, ORG-MARG, IMRB) provide syndicated data on TV audiences. Tools like **TAM & INTAM** track TV show popularity for ad planning. Print Media Research:
- National Readership Survey (NRS) & Indian Readership Survey (IRS) track newspaper & magazine readership.
- Audit Bureau of Circulns(ABC) verifies actual sales figure
- Demographic Analysis:- Links media consumpⁿ habits to consumer profiles & purchasing behavior. Used extensively for targeted advertising & media planning Advertising rsrch is critical for brands heavily dep. on ads & is used at all stages, from ad concepⁿ to effectiveness.

IV. When to Do Marketing Research?

Conducted when there is an info. gap that can be filled through research. If the cost of rscrch is than the cost of a wrong decision. Should not cause delays in decision-making that could impact business strategies.

V. Limitations of Marketing Research

- Not the only input for decision-making; intuition & experience also play roles.
- Small businesses often succeed without formal research.
- Best used alongside judgment,intuition,& strategic exec

Differences in Methodology

- Different research agencies may show varying results due to differences in:- Sampling methods, sample size, representativeness, and data collection quality.
- Users rely on experience & agency credibility to choose the best findings.

Complementary Inputs for Decision-Making

- Marketing research should be balanced with corporate policies, competitor strategies, and regulatory factors.
- Internal data & marketing intelligence also contribute to decision-making

VI. Secondary vs. Primary Research

- Secondary Research: Uses existing data(reports, sites).
- Pros: Cost-effective, easy to access.
- Cons: May lack relevance, outdated, unreliable method.
- Primary Research: Collects new data from direct srcs.
- **Pros**: Accurate, current, and specific to the problem.
- Cons: Expensive and time-consuming.

VII. Ethical Considerations in Marketing Research

1. Respondent's Rights

- Data collected should be used strictly for rsrch purposes.
- Respondents should not be forced to answer;
- explanations should be provided for sensitive guestions.
- Confidentiality must be maintained; only the research organization and client should access responses. Respondents should have the right to refuse personal or
- embarrassing questions. - Research reports should be unbiased & not manipulated to serve any party's interests.

- VIII. Consumer's Right to Privacy
- Rscrchers must respect respondent's time& convenience Respondents have right to refuse participⁿ without pres.
- Non-cooperative respondents can lead to biased and inaccurate data.

IX. Emerging Issues in Marketing Research

- 1. Internet-Based Research · The Internet allows research through emails and
- websites, but limited access in India creates sample bias. • Personal interviews remain preferred, while telephone
- surveys are more common in the U.S.
- offers interactive features & quick data analysis. • Security concerns (hacking, data leaks) must be

addressed for safe online research.

Ethical Considerations in Marketing Research

- 1. Respondent Rights
- Data collected must not be misused.
- Respondents should not be forced to ans sensitive ques.
- Confidentiality of responses must be ensured. Personal questions should allow refusal and trained staff
- should be used for sensitive topics.

Reports must acc reflect responses without manipulⁿ.

- 2. Consumer's Right to Privacy
- Respondents should not be disturbed at inconv. times Interviewers must respect respondents' time &
- willingness to participate. · Non-cooperative respondents may provide biased or useless data.
- 1. Internet-based Research: Online surveys (email, websites) offer speed and interactivity. In India, limited Internet penetration can lead to sample bias.Internet surveys enable visual elements and automation but are vulnerable to hacking.
- 2. Online Research Methods

Email Surveys: Quick, wide reach but lacks complex format HTML Forms: Allows complex questionnaires but requires high programming effort.

Downloadable Applications: Highly interactive but needs downloads, leading to low response rates. Online Focus Groups: Chat-based but lacks visual cues;

video calls can help. 3. Data Warehousing & Data Mining

Data Warehousing: Storing vast datasets from multiple src **Data Mining:** Analyzing patterns for marketing strategies. Used in CRM for personalized promotions (e.g., ICICI Bank) Reqs adv. analytical techniques like regression & clustering

Emerging Issues in Marketing Research

Ch 2: The Marketing Research Process - An overview I. Information Need

- Trigger for Research: Marketing research begins when managers need specific information to make decisions.
- Exs:- Evaluating an ad campaign's effectiveness.
- Positioning a new deodorant brand.
- Cost Considerations:
- Cost of obtaining information vs. cost of not having it.
- Risk of making uninformed decisns vs. expense of rsrch
- Decision Making: If time and budget allow, research is advisable to avoid blind decision-making.

II. Defining the Research Objective

- · Aligning with Information Need: Objectives must directly address the identified need.
- Ex:Determining customer satisfac with a newly launched
- Avoiding Scope Creep:- Too many objectives can make data collecⁿ complex & overwhelming. Ideally, limit to 4-5 clear objectives.
- Prioritization Test:- Ask: Will this objective improve decision-making?If not, exclude it.
- Research Outcome:
- Should provide actionable insights for marketing decision
- A report without practical use is a waste of resources.

III.Research Designs: Exploratory, Descriptive, and Causal 1. Research Design Overview

- Provides a framework for data collection & analysis.
- · No single best design; choice depends on rsrch problem.
- Ex: Newspaper content analysis helped improve sales Blr.

2. Types of Research Designs

- a. Exploratory Research: Used for clarifying thoughts, identifying key variables, and generating hypotheses.
- Methods: Surveys, focus groups, expert consultⁿs, case
- Ex: Chocolate brand study to identify consumer decision.
- Often first step before causal research.

b. Descriptive Research

- Common in marketing; describes characteristics of popul
- Two types:

i) Longitudinal Studies

- Study same respondents over time (months/years).
- Uses panels (e.g., consumer, retail audit).
- Advantage: Tracks changes over time. ■ Disadvantage: Selection bias, non-representative sample
- ii) Cross-sectional Studies
- One-time snapshot of the population.
- Example: Market surveys.
- Advantage: Simplicity, flexibility, broad coverage. Disadvantage: Too general, may lack depth.

3. Causal Research (Experimental Design)

- Aims to establish cause-&-effect relⁿships b/w variables.
- Uses controlled conditions to determine impact of one variable (X) on another (Y).
- Example: Lab experiments to test marketing changes.
- More reliable than descriptive studies for proving causality

IV. Designing the Research Methodology

- Depends on target population accessibility and decision importance. Accuracy level is based on decision criticality.
- Major Components
- i. Research Method Primary & Secondary research.
- ii. Sampling Plan Selection of respondents.
- iii. Questionnaire Design If applicable.
- iv. Field Work Plan Execution of data collection.
- v. Analysis Plan Data interpretation strategy.
- 3. Research Methods- Primary or secondary research

• Data Collection Techniques

- 1. Survey Most common method, conducted via:
- Personal Interviews High accuracy; allows observation
- Telephone Surveys Cost-effective but lacks visual cues
- Email/Internet Surveys Fast but may have high non-response bias.
- Mail Surveys Slower than other methods.
- In India, personal interviews are preferred.
- 2. Observation Records actual consumer behavior (e.g., video surveillance in stores).
- Advantage: More accurate than stated intentions.
- **Limitation**: Lack of control over sample representation.
- 3. Experimentation Measures cause & effect relationships.
- Example: Testing brand awareness after an ad release.
- Simulated Test Marketing (STM) Controlled experimental method.

4. Qualitative Techniques

- Used when quantitative surveys are inadequate or inappropriate.
- Focus on open-ended, unstructured interviews to understand consumer mindsets.
- Methods include:
- Free-wheeling interviews (e.g., What do you expect from a refrigerator?).
- Word associations Linking a brand with a word, celebrity, or animal.
- Projective techniques Respondents imagine themselves as a brand.
- Requires experts (psychologists, sociologists) for accurate interpretation.
- Example: TVS Suzuki used focus groups & projective techniques to develop the Scooty.
- 5. Specialised Research Techniques
- a. Consumer Panel
- A fixed sample of consumers records purchases or TV viewing habits over time.
- Data is collected weekly & analyzed by marketing
- Participants may receive compensation.

2. Retail Audit

- Measures brand sales at retail level (weekly or periodically).
- Conducted by third-party agencies (e.g., ORG in India).
- Helps companies track brand performance & competition.
- Can be regional or national and used for brand tracking post-launch.

3. TV Audience Measurement

- Tracks who watches TV programs to optimize ad placement.
- Peoplemeters record viewing habits in real-time (TAM & INTAM in India).
- Replaced older diary-based audience tracking methods.

V. Plan for Sampling, Field Work, And Analysis

1. Sampling Plan

Defines sample composition and size to ensure accurate representation of the population.

- Findings from a sample (e.g., 50% favor a brand) are extrapolated to the whole market with some margin of
- Kev Precautions:
- 1. Use **probabilistic sampling** to avoid bias.
- 2. Divide population into strata (e.g., users/non-users, income groups, age) for proper representation.
- Multiple-city studies: Ensure adequate sample sizes per city for separate analysis.

2. Field Work Plan

- Depends on sampling decisions (locations & sample size).
- Key Questions:
- Who will collect data? (Field workers, researchers)
- When will it be collected? (Scheduling for different locations)

• Field Work Process:

- Data collected at homes, offices, shops, dealerships, etc.
- Personal interviews are common in India.
- Use of questionnaire or checklist for structured data collection.

3. Briefing & Debriefing **Briefing:**

- Research executive briefs field supervisors on study objectives.
- Includes mock interviews for training field workers.
- Temporary field workers recruited & paid based on completed surveys.

Debriefing:

- Held at the end of the first day's field work.
- Identifies problems like finding respondents,
- non-cooperation, or comprehension issues.
- Solutions are implemented for smoother data collection. · Pilot studies or test rounds help identify issues early.

VI. Analysis Plan and Expected Outcome

- 1. Analysis Plan Pre-planning analysis is crucial to avoid limitations in sample size and ensure valid results.
- Importance of Early Planning:
- Prevents reduced sample sizes in subgroup analyses.
- Helps design the questionnaire to fit statistical procedures like multidimensional scaling.

2. Types of Analysis

- **Simple Tabulation**
 - Counts responses per category and presents them in a frequency table.
 - Used for percentage calculations.

Cross-tabulation

- Analyzes relationships between two or more variables.
- Example: Examining how soap fragrance preference correlates with purchase frequency.
- Must ensure variables are logically related (e.g., purchase frequency may relate more to family size than fragrance preference).

3. Expected Outcome

- Blank output tables should be prepared before fieldwork to anticipate potential sampling issues.
- Helps adjust sample sizes accordingly.

4. Budget & Cost Estimation

- Cost depends on:
 - Sample size Larger samples increase costs.
 - Sampling difficulty & geographical dispersion - Hard-to-reach respondents raise expenses.
 - Fieldwork personnel -
 - Hired workers = Lower
 - Research executives = Higher cost (common in industrial marketing).
- Additional costs for multi-city studies:
 - Travel, communication, and supervision expenses.

Presentation of Findings

- After tabulation & analysis, findings are presented to the study sponsor.
- Includes:
 - Frequency tables & cross-tabulations
 - (percentage-based). Summary of key insights & recommendations.
 - Additional cross-tabulations may be requested.

2. Formal Report Structure

- 1.
- Executive Summary Key highlights. **Table of Contents** – Organized sections.
- 2. Introduction - Background of study. 3.
- Research Objectives Purpose of the study. 4
- Research Methodology:
 - Sample design 0
 - Field work plan & dates 0
 - Analysis/expected outcomes 0
 - Questionnaire (Annexure) 0

Analysis:

actions.

- Simple tabulation
- Cross-tabulation 0
- Special analysis (if any)
- 7. Findings - Main insights from data.
- Limitations Constraints affecting results. 8. 9. **Recommendations** – Suggested marketing
- 10. Bibliography/References – Sources used.

3. Marketing Action

- Based on the report, the client makes strategic
- The ultimate goal of research is to guide effective marketing actions.

Ch 3: Research Methods and Design - Additional Inputs I. Sources of Secondary Data

Secondary data is categorized into:

- 1. Internal Sources (Company records)
- 1. Internal Sources (Company records)
- Product history, company background.
- Market share, competitor analysis.
- Maintained by marketing, sales, or intelligence depts.
- 2. External Sources (Published & syndicated reports)
- Business newspapers & magazines (The Hindu, Economic Times. Business India).
- · Industry associations & trade bodies.
- CMIE (Centre for Monitoring Indian Economy) Monthly economic & industry reports.
- · Syndicated studies:
- **National Readership Survey (NRS)** Readership, demographics, consumption patterns.
- Indian Readership Survey (IRS) Newspaper & magazine circulation data.
- Audit Bureau of Circulations (ABC) Certifies newspaper & magazine circulation.
- Digital & subscription-based data sources for financial & sales data
- Organized Internal Data Collection
- Companies maintain **archives of business magazines & newspapers** for long-term analysis.
- Helps in trend tracking, competitive analysis, and onboarding new employees.

II. Disadvantages of Secondary Data

Outdated – Consumer preferences change over time.

- Bias & Purpose Mismatch Data may be collected for a different intent.
- Sample Differences Previous study may not align with current target audience.
- Data Aggregation Issues Required categories (e.g., gender, city, income groups) may not be available.
- 3. Importance of Secondary Data
- Trains primary researchers.
- Cross-checks other secondary sources for reliability.
- Stimulates critical thinking about methodology & biases
- Cost-effective starting point for research before investing in primary data collection.
- Modern Approach: With Internet access, companies should always check available online data before conducting costly field research.

III. Exploratory vs. Conclusive Research

1. Exploratory Research

- **Purpose**: Helps understand the problem, consumer behavior, or study design.
- Nature: Does *not* lead directly to marketing decisions. Used to design follow-up **conclusive research**.
- Methodology:
- Less rigorous, smaller sample sizes.
- Uses **qualitative techniques** (e.g., interviews, focus groups).
- When Used:
- When **not enough information** is available to conduct conclusive research.
- **Must be followed up** by a more detailed study before drawing conclusions.
- 2. Conclusive Research
- Purpose: Leads to major marketing decisions based on consumer data.
- Nature:
- Uses **statistical tests & analytical techniques**.
- Employs **quantitative methods** (e.g., surveys, expts).
- Requires larger sample sizes for reliability.
- When Used:
- After **exploratory research** (if needed).
- As a **routine study**, conducted periodically (e.g., quarterly, yearly).
- Why Quantitative Methods Are Preferred:
- **Easier for clients** (marketing managers) to interpret numerical data.
- Provides clear, measurable insights for decision-making.

IV. Major Qualitative Research Techniques

Qualitative research techniques are used to **understand consumer emotions**, **motivations**, **and perceptions**. The three key techniques are:

1. Depth Interview

 Definition: Unstructured, long interview conducted by a skilled interviewer to explore consumer opinions, feelings, and behaviors.

- Characteristics:
- Mostly open-ended questions.
- No fixed response options, free-flowing discussion.
- Challenges:
- Respondents may feel uncomfortable sharing personal details.
- Interviewer must be trained to guide the conversation effectively.
- Ex:A car owner is interviewed about their emotional attachment, driving habits, brand perception, and willingness to switch brands.
- Pros & Cons:
- Reveals deep insights into thought processes.

 Highly subjective, difficult to interpret.
- 2. Focus Group
- **Definition**: A group discussion led by a **moderator** to explore opinions, attitudes, and feelings on a specific topic.
- Process:
- 6-10 participants from the target market.
- Recorded for later analysis (video/audio).
- Usually 1-1.5 hours long.
- Uses:
- Concept testing before product launch.
- Cross-checking survey findings.
- Pros & Cons:
- Encourages interaction & idea generation.
- X Can be influenced by dominant personalities, reducing diversity of opinions.

3. Projective Techniques

Used to **uncover subconscious thoughts & emotions** that respondents may not openly express.

(a) Picture Projection

- Respondents **describe people or objects** in a shown image.
- Helps identify stereotypes & consumer perceptions about a product.

(b) Word Association

- Respondents quickly associate a brand with a word, celebrity, or object.
- Example: "What comes to mind when you hear 'Brand x'?"
- Requires a psychologist or expert for interpretation. (c) Sentence Completion
- Respondents complete a given sentence.
- Example: "People who drink Brand B coffee tend to be "
- Can reveal hidden biases or brand perceptions.
- Pros & Cons of Projective Techniques:
 Overcomes social desirability bias (people answering in a "socially acceptable" way).
- Difficult to interpret, requires trained analysts.

V. Other Qualitative Research Methods

While **focus groups** and **depth interviews** are commonly used in marketing research, several other qualitative methods provide valuable insights into consumer behavior.

1. Content Analysis

- **Definition**: A systematic method to analyze **text, social media, and online content**.
- Usage:
- Examines brand mentions, sentiment (positive/negative).
- Identifies **recurring themes** in consumer discussions.
- Tracks engagement metrics (likes, shares, comments in digital marketing).
- Example: A company analyzing social media posts & news articles to understand brand perception.

2. Observation

- Definition: Studying real-world consumer behavior without direct interaction.
- Usage:
- Identifies shopping patterns & decision-making behaviors.
- Tracks time spent on products, label reading, shelf preferences.
- Example: Paco Underhill's study (*Why We Buy*) analyzed **video recordings of shoppers** in U.S. retail stores to optimize store layouts.

3. Ethnography

 Definition: Researcher immerses themselves in consumers' lives to observe behaviors naturally.

Usage:

- Provides deep cultural and lifestyle insights.
- Helps understand habits, preferences, and decision-making in real-life settings.
- Example: A researcher living with a middle-class family to study spending habits & brand preferences.

4. Discourse Analysis

- Definition: Studies societal conversations on topics like consumer rights, pricing strategies, or brand perception.
- · Usage:
- Identifies dominant narratives in public discussions.
- Explores **conflicting viewpoints** (e.g., affordability vs. premium pricing).
- Example: Studying the debate on reservations in education—how "meritocracy" and "social justice" narratives compete.

5. Grounded Theory

- **Definition**: Develops **new theories from observed patterns**, instead of testing pre-existing theories.
- Usage:
- Identifies **emerging consumer behaviors** without prior assumptions.
- Useful for new market trends & innovations.
- Example: Observing how consumers interact with Al-powered chatbots and then building a theory on trust in digital interactions.

VI. Validity of Research & Experiments

- 1. Validity of Research
- **Definition**: Validity refers to the **generalizability & robustness** of research findings.
- Example: If pen sales change after a price adjustment, is price really the cause?
- Other factors (e.g., advertising, competition) may also affect sales.
- Research must **control external influences** to ensure valid conclusions.

2. Experiments in Research

- Purpose: To test cause-and-effect relationships (e.g., price vs. sales).
- Types of Experiments:
- 1. Laboratory Experiments Controlled environment, minimal outside influence.
- **2. Field Experiments** Real-world setting, **less control** over external factors.
- **3. Simulations** Computer models used to predict real-world scenarios.

3. Test Marketing

- **Definition**: A **controlled experiment** in a limited geographic area before a full-scale product launch.
- Purpose: To predict sales & market share based on changes in marketing variables (price, promotion, etc.).
- Challenges:
- Challenges:
 One-time high sales due to consumer curiosity, leading to false predictions.
- Competitor interference:
- They may launch similar products first (e.g., Surf Ultra before Ariel in India).
- They may artificially increase your sales to mislead you into a bad launch.
- They may run special promotions to reduce your test sales.
- Selection bias: Wrong test market location may give
- incorrect national projections.
 4. Simulated Test Marketing (STM)

Definition: A lab-based test where **consumers interact**

- with a simulated shopping environment.
- Process:
- Consumers see **product info & ads**.
 They receive **money/coupons** to make purchases in a **simulated store**.
- Non-buyers may receive free samples.
- After a set period, **repeat purchase intent** is measured.
- A computer model predicts real-world market share.
- Example: Mahindra & Mahindra used STM for their ARMADA vehicle, measuring purchase intent over time instead of providing free vehicles.
- Advantages over Test Marketing:
- Faster, cheaper, and more confidential.
- Less competitor interference.

Ch 4: Questionnaire Design: A customer-centric approach 3. Interval Scale (Rating Scale) V. Transforming Information Needs into a Questionnaire · Has equal intervals between numbers but no true zero. I. Designing Questionnaires for Market Research 1. Defining Information Needs 1. Language Considerations • Example:- Customer satisfaction rating: (Scale of 1–10) • Understanding users vs. non-users of soft drink conc. • Use a language the respondent understands. Temp. in Celsius/Fahrenheit: (Difference b/w 10°C & 20°C • For users: Preferences, occasions of use, brand ratings. • A questionnaire in English can be administered in the is same as 30°C & 40°C, but 0°C does not mean 'no temp'.) • non-users: Reasons for not using, substitute pdt choices. local language by a trained interviewer. • Key Points:- Allows meaningful calculation of Mean, 2. Sample Questionnaire Structure • If translating, ensure consistency with the original to Standard Deviation, Correlation. • Introductory: Purpose of survey & request for participⁿ. maintain validity. - freq used in marketing surveys(Likert Scale, Rating Scales User Quesⁿs:- Usage type (liquid/powder),preferences 2. Difficulty Level of Questions Cannot calc. ratios(eg, 40°C is not 'twice as hot' as 20°C) (sugar/no sugar); Occasions of use, serving to guests. Avoid technical jargon or complicated words unless the 4. Ratio Scale (Absolute Measurement) Brand pref. & rating on availability, taste, convenience, cost respondent is a postgraduate or an experienced executive · Has equal intervals&true zero pt., allowing ratios be calc Open-ended question for additional comments. Keep language simple and direct to ensure clarity. • Ex:Income in rupees: ₹10,000 vs. ₹20,000 (₹20,000 is Non-user Questions:- Regular beverage consumpⁿ (fruit 3. Fatigue & Response Time twice ₹10,000); Age, weight, height, sales volume. juice, squash, tea, coffee, etc.); Reasons for avoiding soft · Respondents often get tired of long surveys. • Key Points:- Allows all mathematical operns (Mean, Std drink concentrate (taste, cost, additives, availability). Keep the questionnaire short & focused. Deviation, Ratio Comparisons). Most powerful scale, but Demographic Questions: Age, income, and address. Ideal interview time: ~20 minutes. rare in marketing (except for financial metrics). 3. Merits & Demerits of the Questionnaire 4. Encouraging Cooperation • Strengths: 1. Covers both users and non-users. III. Structured vs. Unstructured Questionnaires · Personal interviews: Interviewers should introduce 2. Uses mix of multiple-choice, rating, & open-ended quesns Structured Questionnaire: themselves & the research purpose before beginning. 3. 7-point scale allows nuanced feedback. - Predefined standardized questions. Self-filled forms:Incl. a short intro asking for cooperⁿ. Double-Barrelled Questions: Asking two things in one Fixed wording; same for all respondents. · Mailed questionnaires: A covering letter explaining the Ensures reliability & consistency across diff interviewers quesn leads to ambiguous responses. study's purpose can increase response rates. • Ex (Bad Question): Are you happy with the price and Can have structured answers(closed-ended) or 5. Social Desirability Bias structured questions only. quality of Brand Y? (Yes/No) Respondents may give socially acceptable answers - Ex:Q: "Do you live in Delhi?" (1) Yes (2) No • Solution:- Ask separate guestions for price and quality. instead of truthful ones. Unstructured Questionnaire: Use distinct answer categories for each attribute. Techniques to minimize this bias: - Flexible format, allowing respondents to ans in their own **Characteristics of a Good Questionnaire** 1. Repeat similar quesns in diff parts of the questionnaire. - More common in qualitative research (e.g., depth · Validity: Measures what it is intended to measure. 2. Ask indirect questions instead of direct ones. interviews, focus groups). Efficiency: Well-structured, logical sequencing of quesns. 3. Use follow-up quesns to verify responses(eg,"What was Harder to analyze due to subjectivity. Pre-testing:- trials on a small sample before finalizing. key headline in today's newspaper?"if they claim to read) - Ex: Q: "How do you feel about our brand?" Modify wording, scales, or sequence based on feedback. 4. Introduce fake options (e.g., a non-existent magazine) 1. Open-ended vs. Closed-ended Questions Collabn:Researcher&sponsor company->align expectns to check honesty. Open-ended Questions: Common Issues in Questionnaire Design 6. Ease of Recording: The questionnaire should be easy Respondents give free-form answers. Poor analysis planning: to carry and fill out in different environments. Useful for exploratory rsrch & gaining deeper insights. Think about data interpretation before fieldwork. • Ensure sufficient space between answer choices to Harder to quantify and analyze. Design output formats in advance. avoid confusion when marking responses. Closed-ended Questions: Late modificns:-Making changes after data collecn-costly 7. Coding: Most questionnaires are pre-coded to - Fixed set of predefined answer choices. It's cheaper to refine the questionnaire before the study streamline data collecⁿ Easier to tabulate and analyze. · Field staff must be trained on where to mark VI. Reliability vs. Validity 2. Disguised vs. Undisguised Questions responses—on the code or the actual answer choice. Reliability: Consistency of results when the same Undisguised Questions: Cndct mock interviews/pilot surveys to clarify instrucⁿs - Directly ask for the required information. questionnaire is used multiple times. 8. Purpose of a Questionnaire Ensured by stdizing quens, wording, & interviewer training Example: "Are you afraid of flying?" Designed to collect accurate data from respondents effly • Validity: Measures what it is intended to measure. Disguised Questions: • Must be clear, easy to understand, & simple to fill out. Verified by comp. with prev. studies & expert judgment. - Indirect questions used to reduce bias. Should include printed instrucⁿs for interviewers (e.g., 1. Construct in Research: A construct rep. a concept that Useful for sensitive topics(e.g., parenting, personal fears) "Go to Q.5 if the respondent is a non-user of Brand X"). needs measurable indicators (eg, Service Quality). Needs a Example: "Do you know anyone who is afraid of flying?" 9. Quesn Sequencing: Start with non-threatening, set of quesns to accurately measure different aspects. Why Use Disguised Questions? ice-breaking questions before moving to the main survey. 2. Types of Validity • Reduces social desirability bias (people tend to give • Demographic questions (age, income, education) should a. Content Validity: Ensures the measn is representative of "acceptable" answers). appear at the end to avoid initial resistance. concept being studied. Hides true sponsor of study to avoid biased responses. Quesns should follow logical seq & properly phrased Established through expert judgment and past research. Used in projective techniques and qualitative research. 10. Biased & Leading Questions b. Criterion (Predictive) Validity: Measures correln b/w 3. Probing Quesns(Combination of Open & Closed-ended) Do not frame questions to suggest an answer (e.g., test scores & ext real-world outcomes A follow-up open-ended quesn after closed-ended resp "Don't you think liberalization is good?"). • Ex: Admission test scores predicting final GPA. Ex:-Q1: "Which brand of mosquito mats do you use?" Instead, present neutral optⁿs(eg, "Some think liberalizⁿ c. Construct Validity: Det. if a measurement truly reflects Q2: "Why do you use this brand?" (Open-ended response) is good. & some think it is bad. What is your view?"). intended construct. Incls: IV. Types of Questions 11. Monotony: If respondents start giving the same i. Discriminant Validity: Ensures it is distinct from others. 1. Open-ended Questions answer repeatedly, they may be disengaged. ii. Convergent Validity: Ensures different measures of the • Respondents answer in their own words. • Solns:-Re-sequence quesns to keep respondents engaged same construct align. Methods to test construct validity: • Ex: What do you think of Brand X Cola's taste? - Vary response scales/quesⁿ format to req thoughtful ans i. Multi-Trait Multi-Method Matrix (MTMM) 2. Dichotomous Questions 12. Pilot Testing the Questionnaire Proves construct validity by testing convergent & Two-choice questions (Yes/No). Before launching a survey, test the questionnaire on a discriminant validity. • Example: Are you a user of Brand X soap? (Yes/No) small sample. Helps identify confusing or ineff. quesns. Measures two constructs 3. Multiple-choice Questions 13. Analysis Required Uses two different methods to measure them. More than two optns; can allow single or multiple selecns The type of analysis required influences quesⁿ design. ■ High correlation within the same construct = Convergent • Ex:Which factors influenced your car purchase?(Price) Choose appropriate measurement scales (e.g., Nominal) Validity (measuring the same concept). 4. Ratings or Rankings Ordinal, Interval, Ratio) based on the type of data needed. Low correlation between different constructs = • Ratings: Rate on a scale (e.g., 1-7) based on pdt quality. Discriminant Validity (proving distinctiveness). II. Scales of Measurement in Marketing Research • Rankings: Assign ranks (e.g., 1 = best, 2 = second-best). Challenge: Hard to apply as finding two differ. measn Marketing research relies on four major types of scales: • Ex: Rate detergent brands on cleaning ability (1-7 scale). methods is difficult. 1. Nominal Scale (Categorization) 5. Paired Comparisons ii. Item-to-Total Correlation- Tests if individual • Used for labeling vars without assigning numerical value. • Respondents choose between two options at a time. questionnaire items contribute to the overall scale. • Ex:- Gender: (1 = Male, 2 = Female) • Example: Which TV brand is better: A or B? Calculate correlation b/w each item & the total score. Key Points:- No numerical meaning—only categories. • Used in Multidimensional Scaling analysis. ■ High correlation = Valid item. Can be used for frequency counts and percentages. 5. Semantic Differential Low correlation = Consider removing the item. - Allowed analyses: Cross-tabulation, Chi-square test. · Scale between two opposite adjectives. Reliability of a Scale (Cronbach's Alpha Test) - Not valid for: Mean, Standard Deviation, Correlation. • Example: Easy to Use —/—/—/— Difficult to Use Reliability: Ensures consistency in repeated measurements 2. Ordinal Scale (Ranking) • Commonly a 5-point or 7-point scale (e.g., Completely • Cronbach's Alpha: ≥ 0.7 → Good reliability. • Orders data but without fixed intervals b/w values. Agree - Completely Disagree). < 0.7 → Consider removing low-correlation items. Example:Brand preference ranking; Customer satisfacⁿ 2. Choosing the Right Question Type & Scale • SPSS Process: Analyze → Scale → Reliability Analysis → levels:(Very Satisfied, Satisfied, Neutral, Dissatisfied, Worst) • Based on: 1. Information Need (What data is required?) Alpha Model \rightarrow Check inter-item correlation. Key Points:- Tells relative posning, but not how much 2. Output Format (How should results be structured?) If removing an item increases Alpha, consider dropping it. better one is than the other. 3. Ease of Tabulation & Interpretation iii. Factor Analysis for Validity: Ensures subscales/dimensⁿ - Allowed analyses: Median, Percentiles, Rank Correlation 4. Statistical Analysis Requirements of a construct are distinct. Uses statistical clustering to - Not valid for: Mean, Standard Deviation. 5. Minimizing Errors in Response & Data Collection verify the underlying str.

Ch 5: Sampling Methods- Theory and Practice III. Other Issues that Affect Sample Size Decisions b. Concept of Disproportionate Stratified Sampling I. Basic Terminology in Sampling 1. Limitations of Formula-Based Sample Size Calculation Used when variability differs across strata (segments). 1. Sampling Element: The unit of analysis in a study (e.g., · Formulae are useful but have practical constraints. Unlike proportionate stratified sampling, where sample size is proportional to segment size, this method allocates consumer, dealer, household, company). Several factors influence real-world sample size decisions 2. Key Factors Affecting Sample Size more samples to high-variability strata. 2. Population: The target group relevant to the study, not necessarily the entire geographic population. a. Number of Centres More efficient as it reduces total sample size while Example: All mothers buying branded baby food in a city. Studies often cover multiple locations. maintaining accuracy. 3. Sampling Frame: A practical list of population elements - The overall sample must be divided among different Formula for Total Sample Size used for selecting the sample. Ex: Using a Mumbai cities/regions. A minimum sample size per location is $n=(Z/e)^2(\sum WiSi)^2$ telephone directory to represent adult residents. necessary for meaningful analysis. Z = Confidence level (e.g., 1.96 for 95%) May exclude some relevant elements due to constraints. b. Multiple Questions in Questionnaire e = Tolerable error 4. Sampling Unit: Stages in selection: Surveys contain different variable types (continuous. W_i = Weight of stratum • Single-stage: Individual respondents = sampling unit. categorical, proportions). Each variable type may require a • Si = Standard deviation of stratum Multi-stage: 1. First-stage: Selecting city areas. different formula for sample size. To simplify, researchers **Example: Customer Satisfaction Study for a TV Channel** 2. Second-stage: Selecting streets. use the highest required sample size among variables. Age-based strata: 3. Third-stage: Selecting houses/apartments. c. Cell Size in Analysis Below 25 (30% of population, S = 1.2) 4. Final stage: Selecting the individual respondent. - Analysis often requires segmenting data (e.g., income + 25-40 (30% of population, S = 0.9) age categories). Small sample sizes in sub-groups (cells) Above 40 (40% of population, S = 0.7) II. Sample Size Calculation reduce reliability. Total Sample Size Calculation: 1. Sample Size Determination Using the formula, n = 1272 (compared to 1338 in - A minimum of 10 respondents per cell is recommended. Not just formula-based; also depends on experience, - Solution: Define analysis plan & output tables in proportionate stratification). budget, time, and analysis needs. Disproportionate sampling led to a smaller, more advance. • Factors influencing sample size: d. Time & Budget Constraints efficient sample size. Number of population segments. - Studies may need quick results (e.g., competitive **Sub-Sample Allocation by Variability** Number of study locations. $ni={(NiSi)/(\sum NiSi)}n$ strategy decisions). Output requirements. Below 25: 503 - Budget limitations can impact sample size decisions. 2. Formula for Sample Size (Estimating Means) 25-40: 377 Sampling plans should balance accuracy with time&cost n=(Zs/e)2 Where: **Above 40:** 391 e. Experience-Based Sample Size Determination • Z = Z-score for desired confidence level (e.g., 1.96 for - Past research exper. helps refine sample size decisions. **Kev Takeaways** 95% confidence). - Experience can moderate formula-based estimates to fit • More accurate than proportionate stratification when • s = Population standard deviation (unknown, so real-world constraints. variability differs across strata. estimated using past data, pilot study, or range/6 rule). · Allocates more samples to highly variable groups for • e = Tolerable error (determined by researcher; lower Sampling Techniques better representation. error \rightarrow larger sample size). 1. Overview of Sampling Techniques · Stratified sampling is the most efficient probability 3. Key Considerations: • 95% confidence level (Z = 1.96) • Classification: sampling method, reducing errors compared to simple *Probability Sampling: Each unit has a known (though not is common in marketing research. random or cluster sampling. · Standard deviation estimation methods: necessarily equal) chance of selecn; methods are unbiased. *Non-Probability Sampling: (Not discussed here, but 1. Use past research data. 3. Cluster Sampling (Area Sampling) 2. Conduct a small pilot study. contrasted with probability methods.) • Definition: A group of units (clusters) is selected instead 3. Estimate using Range \div 6 (since ~99.7% of data falls 2. Probability Sampling Techniques of individual elements. within $\pm 3\sigma$). Kev Types: Common Clusters: • Trade-off: Lower tolerable error increases sample size, 1. Simple Random Sampling Geographical areas (e.g., city blocks, neighborhoods). · Concept: Every unit (e.g., individual or household) is while higher error reduces it. Group membership (e.g., clubs, organizations). listed & randomly selected (e.g., drawing nos. from a hat). **Example: Customer Satisfaction Study** Process: · Variable: Customer satisfac (measured on a 1-10 scale). Advantages: Conceptually simple and unbiased. List all available clusters. • Formula Used: n=(Zs/e)2 • Practical Challenges: Difficult to implement with large Number them. • Given Values:- Z = 1.96 (for 95% confidence level). populⁿs (e.g., obtaining a list of all consumers for a pdt). Randomly select clusters. - **s** = **1.5** (estimated using **Range** ÷ **6** → (10-1)/6 = 1.5). 2. Stratified Random Sampling Choose all units within selected clusters or sub-sample - e = 0.5 (tolerable error, i.e., estimate should be within Concept of Stratified Sampling: The populⁿ is divided from clusters ±0.5 of actual value). into strata (segments) based on key characteristics (e.g., Pros: Cost-effective & convenient for large-scale studies. 2. Sample Size Calculation age, income). A sample is taken from each stratum to · Cons: Higher sampling error due to similarity within Thus, n = 35 respondents are needed for the study. ensure proper representation. Helps improve accuracy clusters.Less representative compared to stratified or 3. Impact of Changing Tolerable Error (e) and efficiency compared to simple random sampling. random sampling. • If e = 0.25 (more precise estimate required) Steps in Stratified Sampling 4. Systematic Sampling → Sample size increases to 138. 1. Determine Total Sample Size - Using statistical • Definition: Selects every N/n-th unit after a random 4. Key Takeaways formulas or experience. starting point. Sample size increases if: 2. Divide Population into Strata – Based on relevant Process: 1. Standard deviation (s) is higher. criteria (e.g., age groups: Below 25, 25-40, Above 40). List all population units. 3. Allocate Sample Proportionally – Based on the size of 2. Confidence level (Z) is higher. Compute sampling interval (N ÷ n). 3. Tolerable error (e) is lower. each stratum in the total population. Randomly select the first unit. • Proportionate vs. Disproportionate Stratification Z & e are set by the researcher, meaning assumptions Select every N/n-th unit afterward. impact sample size. +Proportionate Stratification - Sample size in each • Example:- Population = 300, Sample = 15 stratum is proportional to its population share. 1. Formula for Sample Size Estimation (Proportions) Interval = 300 ÷ 15 = 20 +Disproportionate Stratification - Some strata may have $n=pq(z/e)^2$ - If first selection is 7, the sample includes 7, 27, 47, ..., larger/smaller samples due to specific research needs. Where: • p = Estimated proportion of occurrence (e.g., 297. • Example: Customer Satisfaction Study for a TV Channel 25% of users $\rightarrow p = 0.25$). Pros: More representative than simple random Target Variable: Customer satisfn(measured on a 7-point q = Proportion of non-occurrence (q = 1 - p). sampling if data is ordered properly. scale). • Z = Confidence level-related value (e.g., 1.96 for 95% Cons: If the sampling interval coincides with patterns in - Strata: the data (e.g., every 20th unit is similar), it can introduce # Below 25 years (30% of population) • $e = \text{Tolerable error (e.g., 3% error} \rightarrow e = 0.03).$ # 25-40 years (30% of population) 2. Example: Estimating Toothpaste Brand Users 5. Multi-Stage (Combination) Sampling # Above 40 years (40% of population) Given values: • Definition: Combines multiple sampling methods in - Std Deviations: Below 25: 1.2, 25-40: 0.9, Above 40: 0.7 p = 0.25, q = 0.75 (from past studies). different stages. - Formula Used: n=(Z/e)²∑WiSi² **Z = 1.96** (for 95% confidence). • Example:- First stage: Divide India into metro cities, #Where **Z** = **1.96** (95% confidence level), **e** = **0.05 e = 0.03** (3% tolerable error). Class A towns, and Class B towns. (tolerable error). Sample size calculation: Second stage: Choose a stratified sample based on #Total Sample Size = 1338 (compared to 1536 in simple n=((0.25×0.75)×(1.96/0.03)²=800 income & age. random sampling). Thus, 800 respondents are needed for a reliable estimate. Third stage: Select households within selected towns - Proportionate Sample Allocation 3. Kev Takeawavs using systematic sampling. #Below 25 years: 1338×0.3=401 Higher confidence level (Z) → Larger sample size. Pros: Ideal for large-scale, national studies; Ensures #25-40 years: 1338×0.3=401 • Lower error tolerance (e) \rightarrow Larger sample size. diverse & representative sampling **#Above 40 years:** 1338×0.4=536 Sample size is highest when p = 0.5, since $p \times q$ is Cons: Complex & resource-intensive. #Key Takeaway: Stratified sampling improves efficiency by maximized at 0.25.

reducing sample size while maintaining accuracy, making

it preferable over simple random sampling in many cases.

• If p is unknown, assume p = 0.5 to ensure a safe

overestimate of the required sample.

Non-Probability Sampling Techniques 1. Overview of Non-Probability Sampling · Used when probability sampling is difficult or infeasible. • Key Limitation: Selection bias is unknown, making it hard to assess accuracy. • If done carefully, it can approximate probability sampling. 2. Types of Non-Probability Sampling a. Quota Sampling (Similar to Stratified Sampling, but without Random Selection) - Population is divided into segments (strata) like in stratified sampling. - Sample is allocated to each stratum, but respondents are selected non-randomly. - Pros: Faster & flexible; allows substitutes for unavailable respondents - Cons: May introduce bias if field workers are not trained properly. b. Judgement Sampling (Researcher's Subjective Selection) - Researcher chooses respondents based on personal judgment. - Pros: Quick selection in specialized cases. - Cons: Highly biased and not replicable; different researchers may choose different samples. c. Convenience Sampling (Easiest & Fastest Method) - Respondents are selected based on availability & ease. - Examples: #Using students for a survey in a college town. #Street interviews by TV reporters. #Sampling employees from a single office building. - Pros: Useful for pre-testing questionnaires or quick exploratory research. - Cons: Unrepresentative of the target population. d. Snowball Sampling (Network-Based Sampling for Niche Groups) - Used when target population is small or hard to locate. Process: One respondent refers others, creating a chain (snowball effect). - Examples: #Finding Mercedes-Benz owners by asking current #Identifying golf players through known contacts. - Pros: Effective for niche markets or hard-to-reach populations. - Cons: Not useful for estimating sampling error; may introduce bias. **Total Error in Sampling** 1. Definition of Total Error • Total Error = Sampling Error + Non-Sampling Error. · Sampling Error: Can be estimated in probability sampling, but not in non-probability sampling. · Non-Sampling Error: Caused by mistakes in data collection, entry, or processing. 2. Controlling Non-Sampling Errors • Hire trained field workers. Use qualified data entry personnel. • Implement strict quality control procedures. 3. Optimizing Total Error

Larger sample size reduces sampling error but increases

• Instead of blindly increasing sample size, aim for an **optimal balance** between **accuracy & cost**.

cost & non-sampling errors.