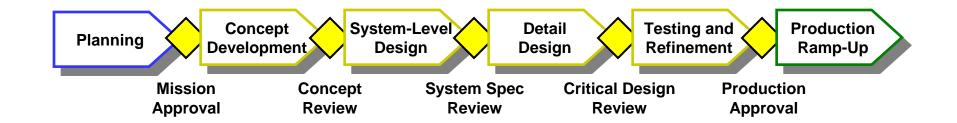
Identifying Customer Needs

Thomas A. Roemer



Generic Product Development Process









Class | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 FP



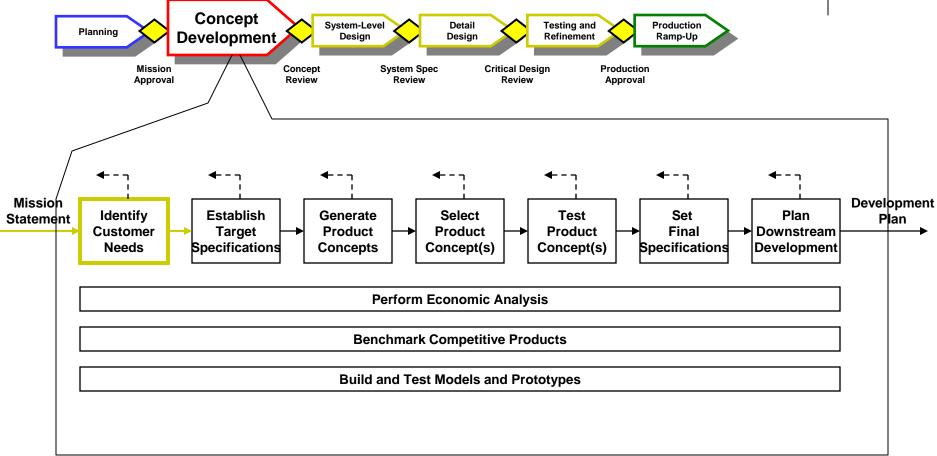
Assignment Work



Refinement

Concept Development Process





- Define the Scope
 - Mission Statement
- Gather Raw Data
 - Observation
 - Interviews
 - Focus Groups
- Interpret Raw Data
 - Need Statements
- Organize the Needs
 - Hierarchy
- Establish Importance
 - Surveys
- Reflect on the Process
 - Continuous Improvement





Product Description

 An easy to use, portable device for removing bacteria and protozoan parasites from water

Key Business Goals

- Product introduced in Summer 1993
- 50% gross margin
- 30% share of portable water filter retail sales within 2 years of introduction
- Becoming the recognized leader in usability

Primary Market

Avid outdoor enthusiasts

Secondary Markets

- Casual recreationalists
- Home emergency
- Aid organizations, military

Assumptions

- Hand-operated
- Borosilicate glass fibers & charcoal filtering technology

Stakeholders

- User
- Retailer
- Sandy Platter force
- Juan Rodriguez and VCs

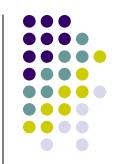
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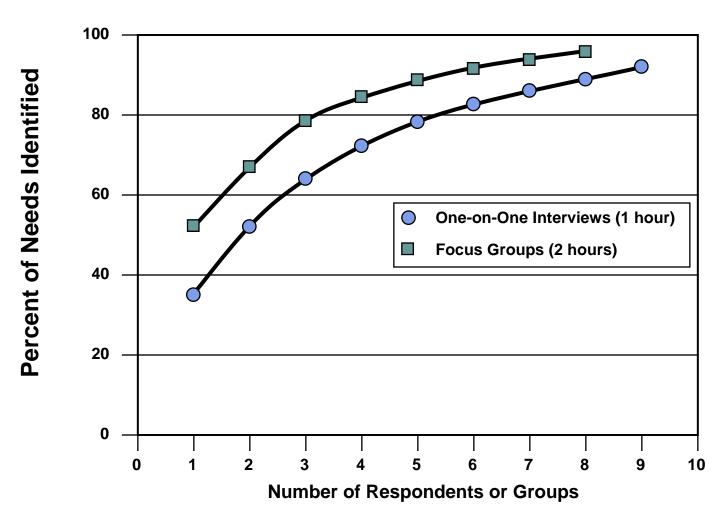
Gather Raw Data



- Focus Groups
- Interviews
- Observation

Interviews vs. Focus Groups

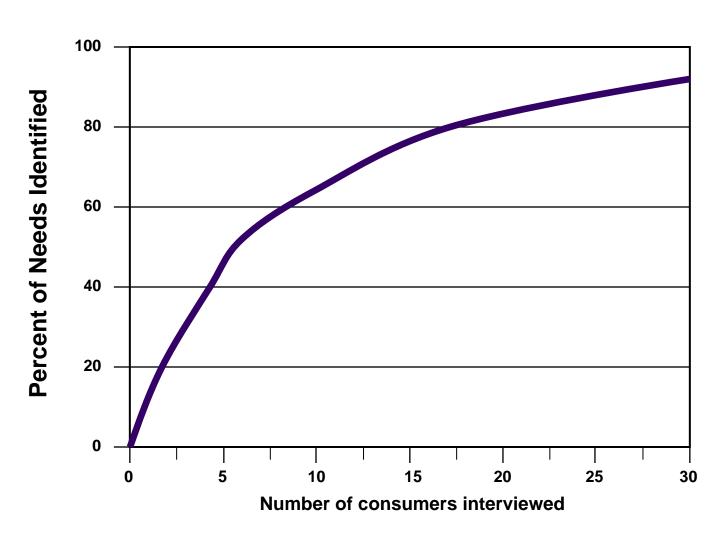




From: Griffin, Abbie and John R. Hauser. "The Voice of the Customer", *Marketing Science*. vol. 12, no. 1, Winter 1993.

How Many Consumers?

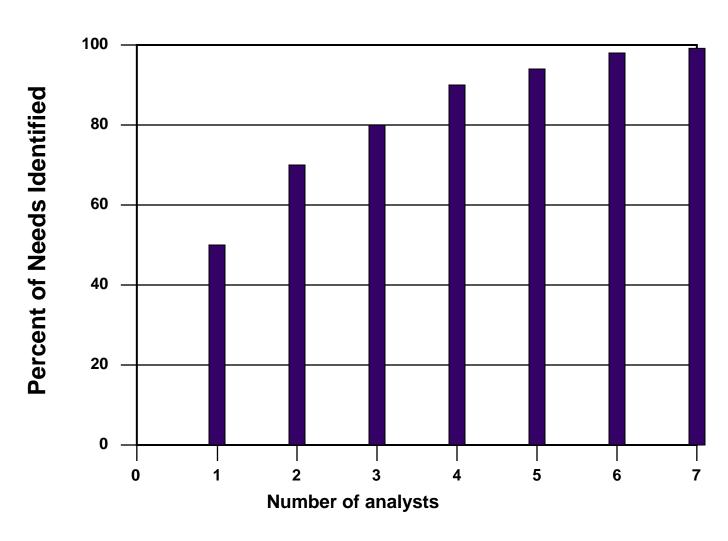




From: Griffin, Abbie and John R. Hauser. "The Voice of the Customer", *Marketing Science*. vol. 12, no. 1, Winter 1993.

How Many Analysts?





From: Griffin, Abbie and John R. Hauser. "The Voice of the Customer", *Marketing Science*. vol. 12, no. 1, Winter 1993.

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Five Guidelines for Writing Needs Statements



		WRONG	RIGHT
Guideline	Customer Statement	Need Statement	Need Statement
What Not How	"Why don't they put a hook at the end of the outlet hose? "	The outlet hose has a hook to connect to water containers.	The WF easily transfers water into a variety of different containers
Specificity	"I often times drop the water filter on rocks."	The WF is rugged.	The WF operates normally after repeated dropping.
Positive Not Negative	"the WF is difficult to hold."	The WF is not difficult to hold.	The WF is easy to hold
Product Attribute	"I need to attach a virus filter to the WF."	A virus filter can be attached to the WF	WF accommodates a virus filter
Avoid "Must" & "Should	"The water should taste good."	The WF should deliver good tasting water	The WF delivers good tasting water.

Needs Translation Exercise



- The water should not smell badly
- You need one hand to hold the filter, one hand to pump and one hand to make sure that that the attachment cap doesn't fall off the bottle
- During a winter trip the pump once froze solid
- I never want to have Giardia again
- I get tired when pumping water for the entire family
- I cleaned the filter after every use, no matter how little water I pumped

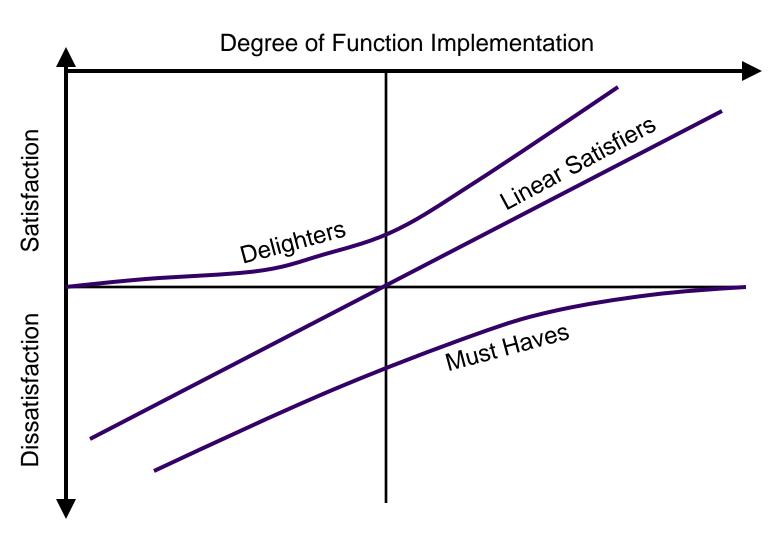
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Structuring Needs

- Primary Needs (Strategic Needs)
- Secondary Needs (Tactical Needs)
- Tertiary Needs (Operational Needs)
- Must Haves
- Delighters (Latent Needs!)
- Linear Satisfiers
- Neutrals







Structuring Needs



A tendency that

- Customers sort needs more evenly
- Customer ordering reflects actual use
- Group ordering reflects engineering view

 Professional teams only slightly outperform students

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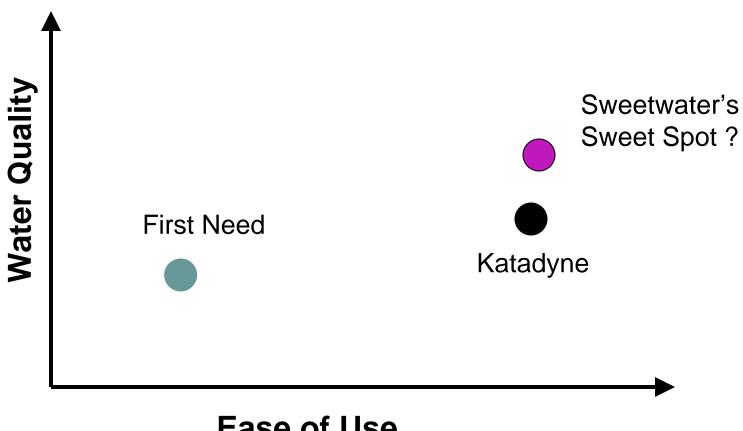
Importance Surveys



- 5,7,9 point direct rating
 - How important is feature?
 - Desirable, neutral, undesirable
- Constant Sum Scale
 - Allocating fixed number of points to need levels
- Anchored Scale
 - Attach 10 points to most important need
 - Up to 10 points to all others
- All seem to perform equally well
- Frequency of mentioning a need is usually NOT a good measure for the importance of need

Perceptual Map

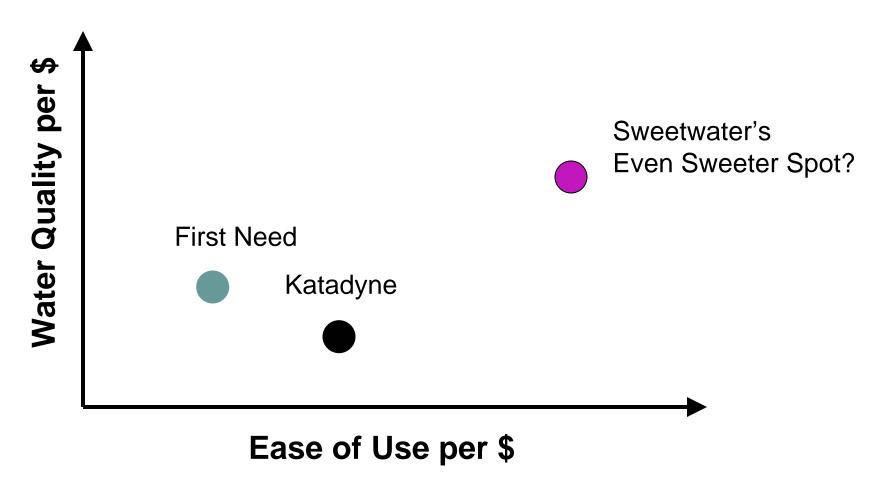




Ease of Use

Normalized Perceptual Map





Company Update

- Introduced in August 1993
- 1994, SW shipped ~54,000 units
- 1994 Revenue of \$2 million
- MSR (REI-owned!) enters market before SW and takes 40% of market share
- US Army shows interest
- 1997, SW almost disappears?
- 1998, Cascade Design [CD] acquires SW
 - CD had previously (1996) bought Platypus
- 2001, CD buys MSR
 - Sweetwater name on MSR products
 - Sweetwater is still household name

Take Aways



- Capture "What, Not How"
- Meet customers in the use environment
- Collect visual, verbal, and textual data
- Props will stimulate customer responses.
- Interviews are more efficient than focus groups
- Interview all stakeholders and lead users
- Develop an organized list of need statements
- Look for latent needs
- Survey to quantify tradeoffs
- Make a video to communicate results

Visual Data Example



