

A New Tool to Optimize Product Characteristics and Study Population Segmentation

B. Rousseau*1, J-M. Dessirier², R. Velthuizen² and D.M. Ennis¹

¹The Institute for Perception, USA

²Unilever Research & Development, USA

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Study Background

- Objectives of consumer investigations
 - Understand consumer expectations
 - Identify potential population segmentation
 - Discover the drivers of consumer perceptions (liking, freshness, moisturization, etc.)
 - Establish products' properties that will optimize consumer perceptions
- Recently developed methodology:

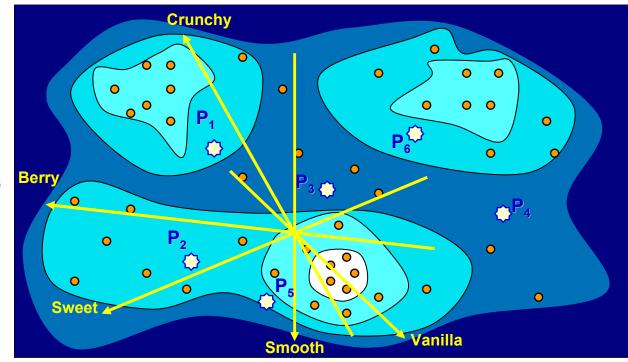
Landscape Segmentation Analysis® (LSA)

- Usually applied to hedonic investigations
- This study: Expected Moisturizing and Refreshing properties of soap bar images

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Landscape Segmentation Analysis

- LSA first "unfolds" liking and creates a space relevant to consumer acceptability
- Descriptive data are then added by regressing the attributes on the map
 - Some attributes can be fit on the map and are drivers of liking
 - Others can't and are not relevant for consumer acceptability

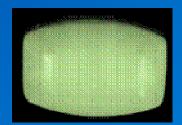


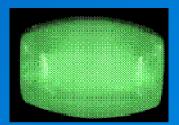
Consumers



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Expected Moisturizing and Refreshing Properties of Soap Bar Images

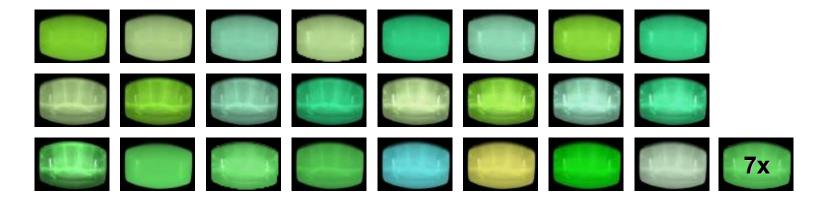






Study Design

- Pictures of bar soaps rated on moisturizing and refreshing expectation
- 25 different pictures, central composite design on 4 variables (Translucency, Shine, Hue and Saturation), 5 levels per variable
- Total of 31 pictures (middle point evaluated 7 times)



Study Design (continued)

- Study conducted in the Tokyo area in Japan
- 610 female consumers, split in two groups
 - Group 1: Moisturizing (310 consumers)
 - Group 2: Refreshing (300 consumers)
- Expected Moisturizing and Refreshing properties rated on a 15-point scale

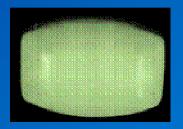


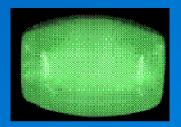
Sessions lasted about 30 minutes



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Expected Moisturizing and Refreshing Properties of Soap Bar Images





RESULTS

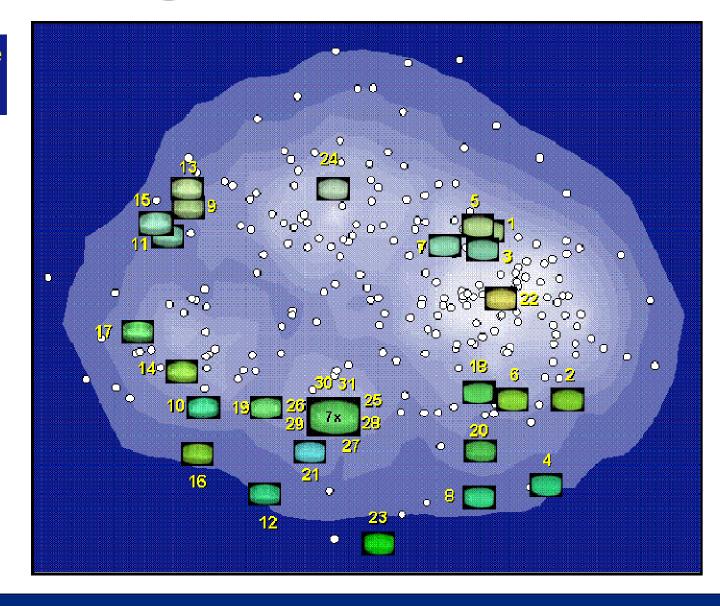


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Moisturizing LSA

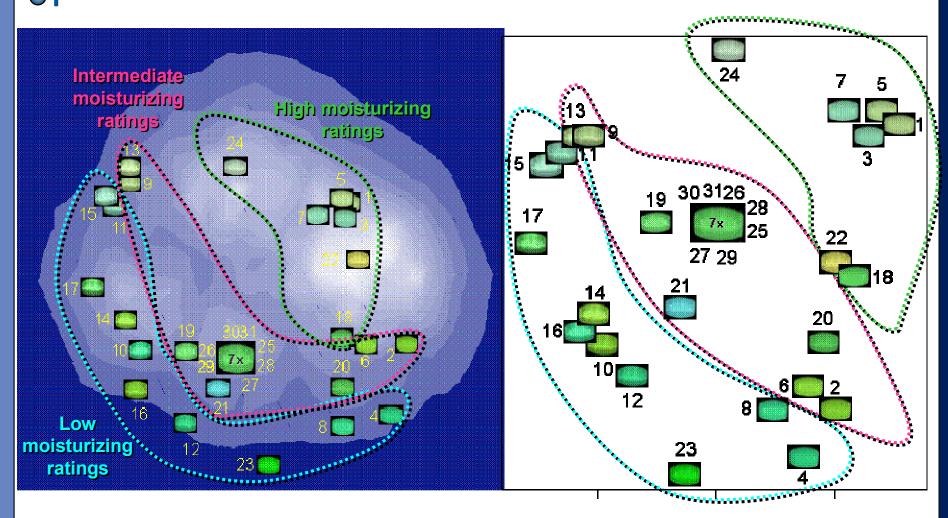
- Soap image
- Consumer

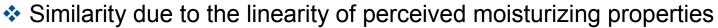
Individual points show the location of the "ideal" moisturizing soap image for each consumer





Moisturizing LSA vs. PCA

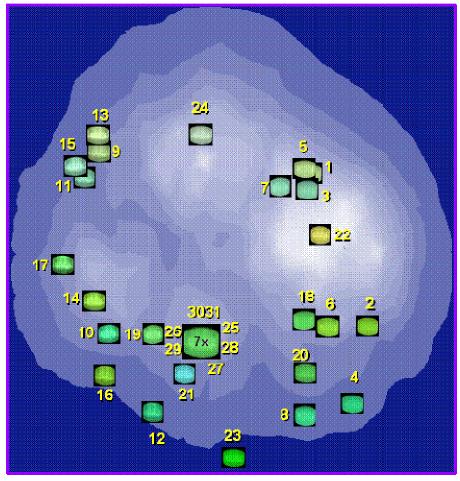


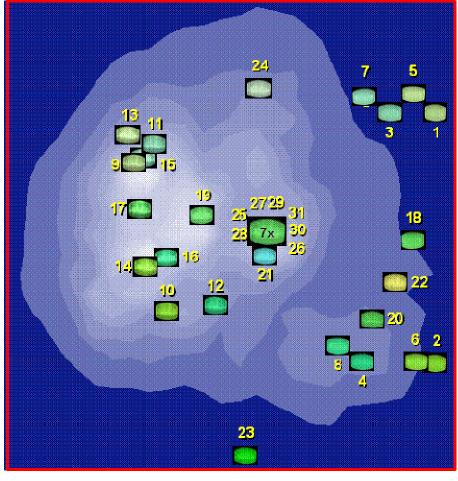


Moisturizing vs. Refreshing LSA's

Moisturizing LSA

Refreshing LSA



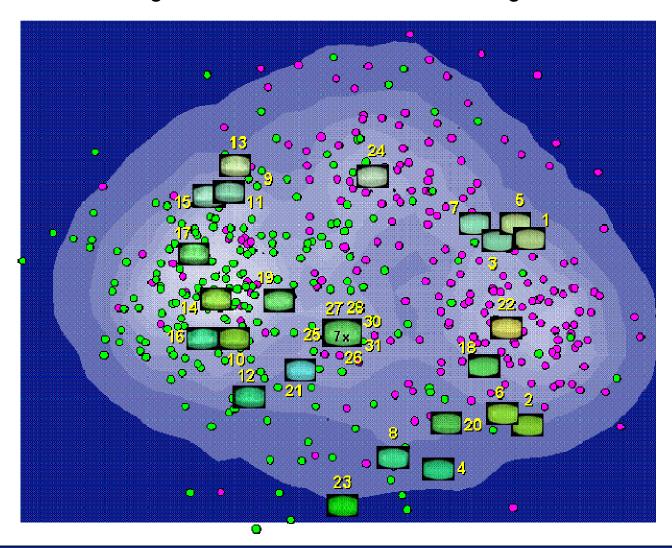




- Relative product locations are almost identical
- But consumer locations are not

Combined Moisturizing & Refreshing LSA

- Refreshing consumers
 - Moisturizing consumers

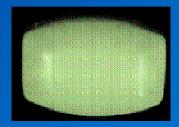


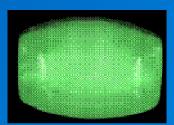




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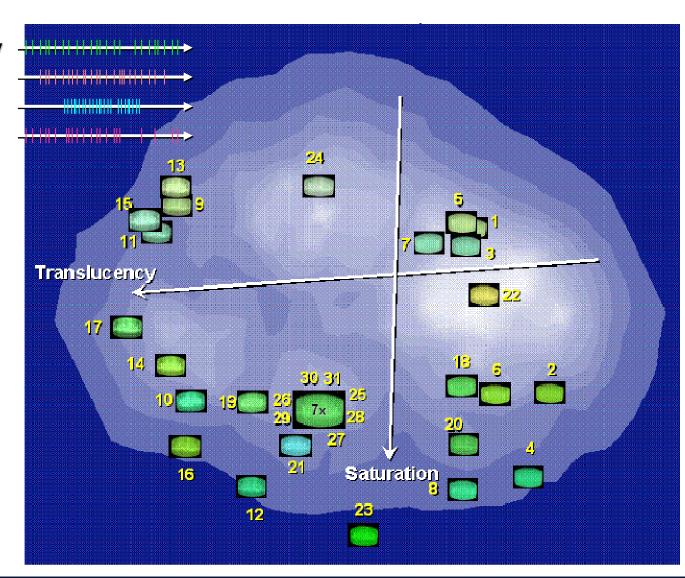


Drivers of Perception



Moisturizing Perception: Drivers

- > Translucency
- > Shine
- > Hue
- Saturation



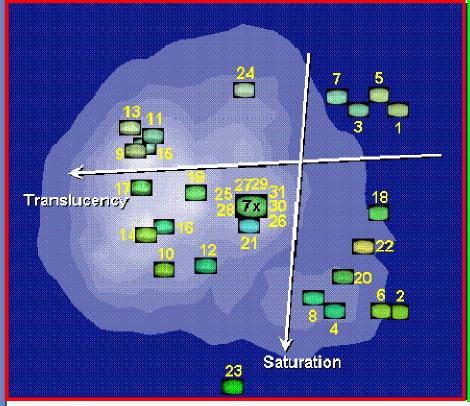


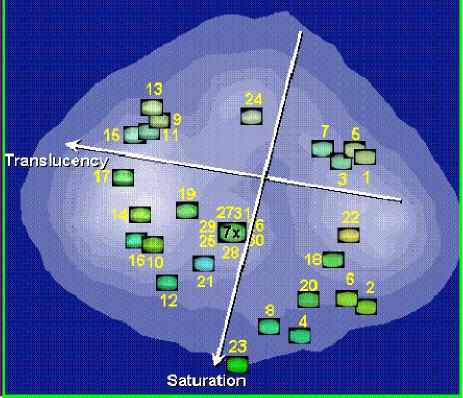
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Refreshing and Combined LSAs: Drivers

Refreshing LSA

Combined LSA



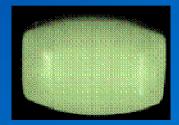


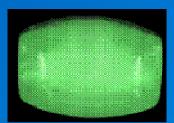




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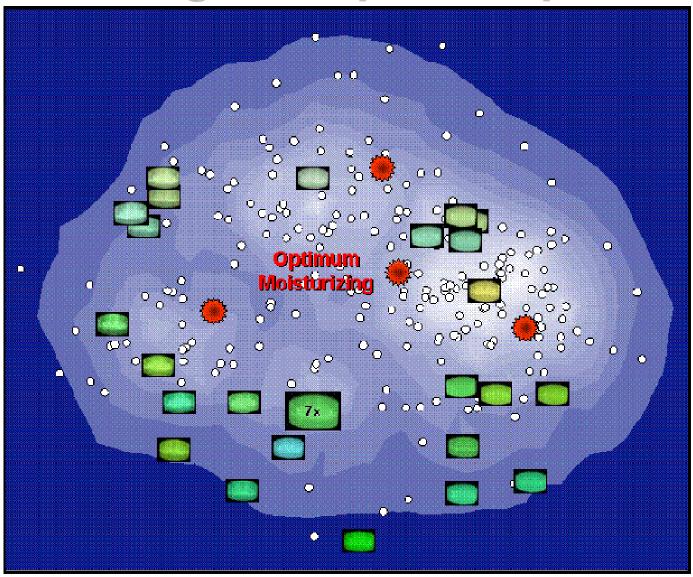


Optimum Products



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Moisturizing Perception: Optimum

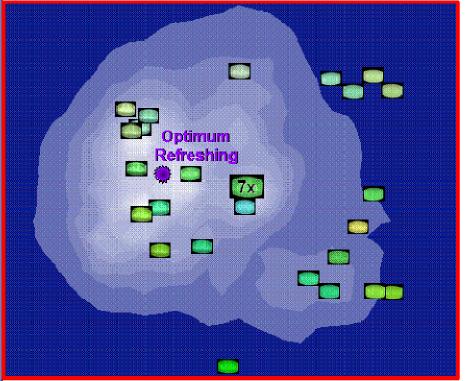


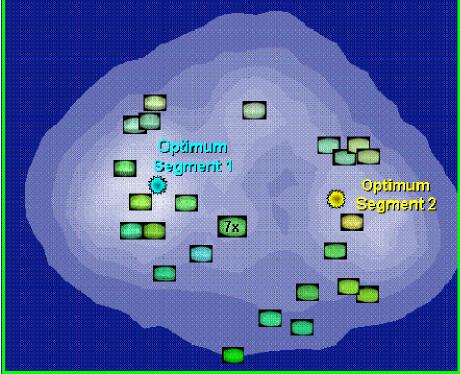


Optimum (continued)

Refreshing LSA





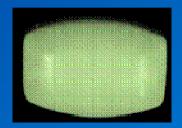


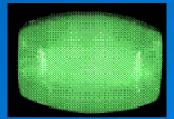




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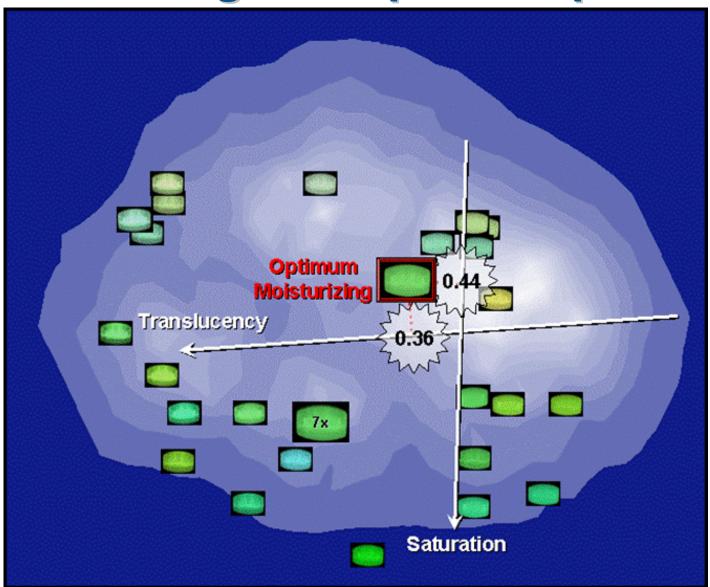


Creating the Optimum Products



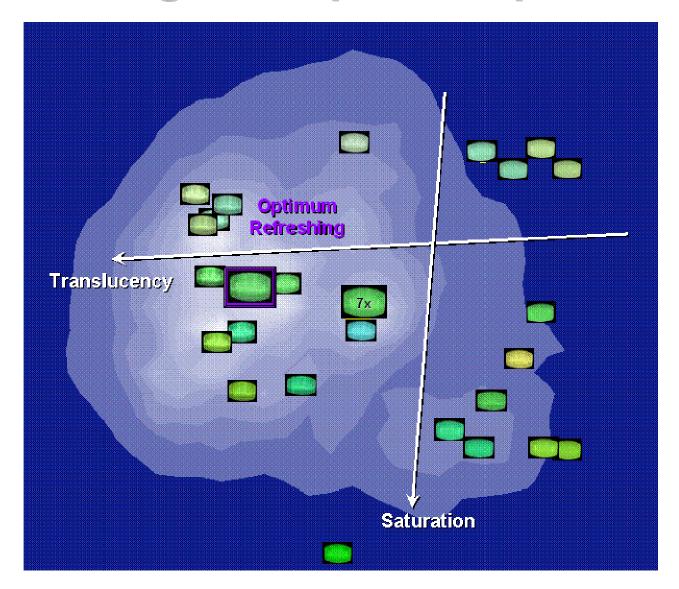
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Moisturizing Perception: Optimum



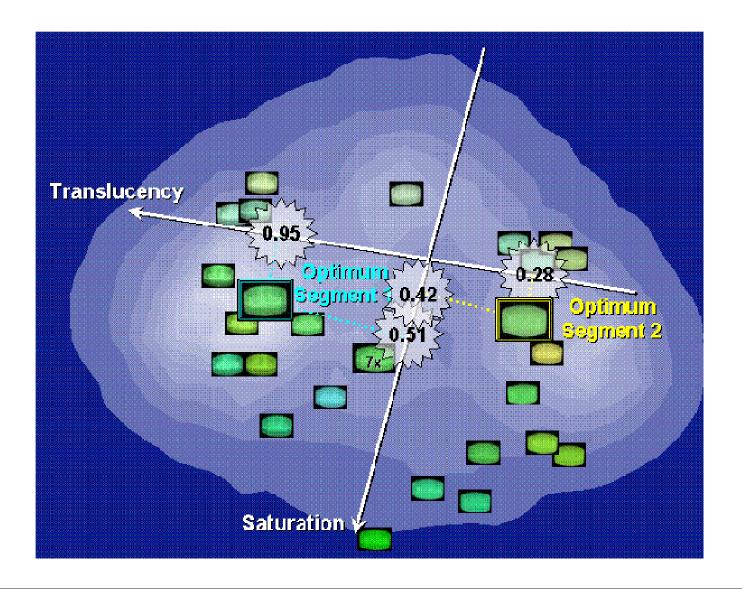


Refreshing Perception: Optimum





Combined Moisturizing & Refreshing LSA

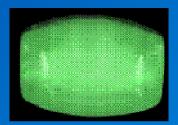






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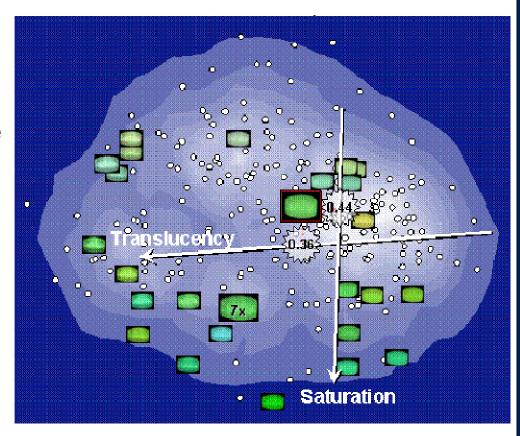


CONCLUSIONS

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Conclusions

- LSA was successfully applied to the investigation of perceived moisturizing and refreshing properties of soap images
- For the individual as well as for the combined analyses, the population landscape was uncovered
- Translucency and Saturation were identified as drivers for both properties
- The location of the mean consumers' optimum images were estimated
- Using a 'reverse-engineering' approach, the corresponding images were created



This approach can be readily applied to other types of consumer investigations such as hedonic and product concept investigations

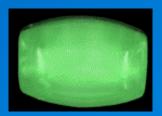




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Any Questions?





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