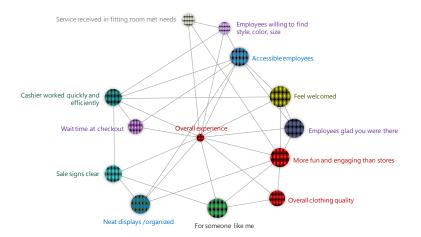




Two Approaches that Address Complexity & Interactivity

Bayesian Network Modeling

A form of key drivers analysis



Tells you which "levers" to pull & in what order to pull them

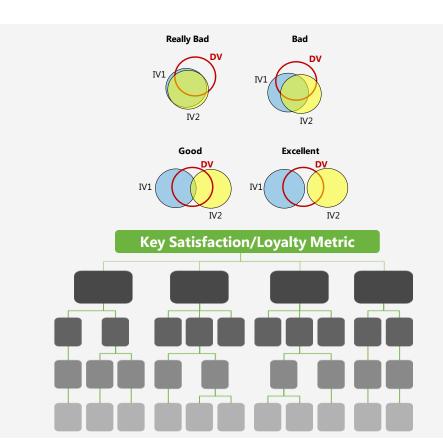




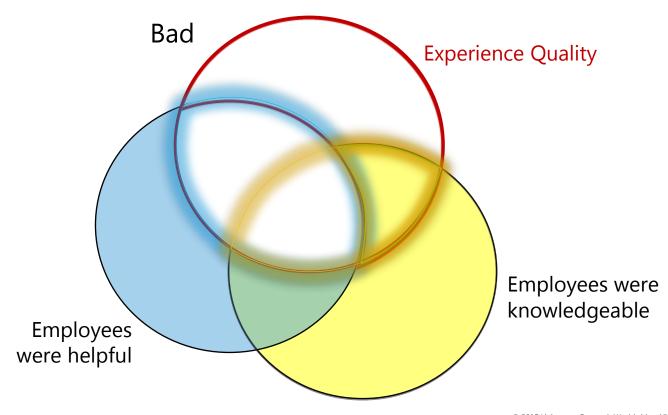
Problems with Traditional Regression Analysis

Multicollinearity
the high average correlation
between independent variables

Does Not Capture
Indirect or Interactive
Effects

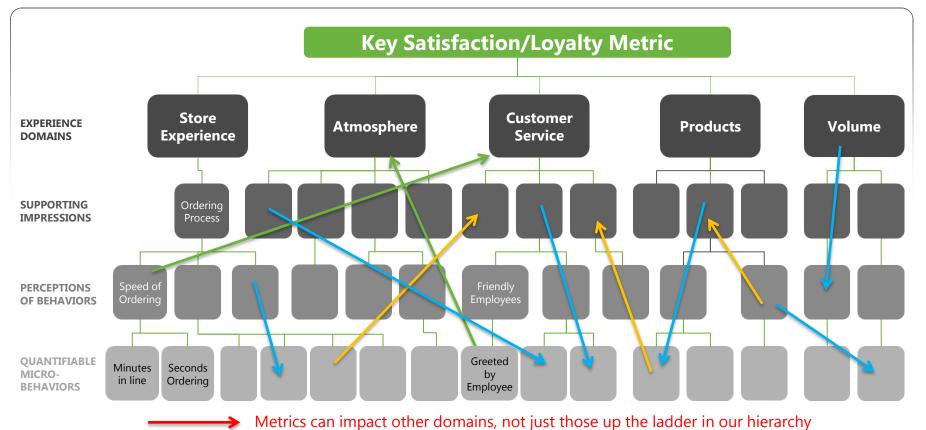


Multicollinearity Makes It Difficult to Understand the Impact of Individual Dimensions





Regression Models Don't Capture Indirect Effects





Case Study: Retail Customer Satisfaction

N= 650,000+
Online Interviews
2013



DEPENDENT VARIABLE

Overall quality of in-store experience

Independent Variables

- A place for value oriented shoppers
- Clothing was neatly displayed and well organized
- The wait time in the checkout line was acceptable
- Service you received in the fitting room met your needs
- ✓ The cashier worked quickly and efficiently to check out all customers in line
- ✓ Your experience in the store was more fun and engaging than other stores you typically shop
- ✓ The signs clearly indicated what was on sale
- ✓ Employees were easily accessible
- Employees were willing to find style, color, size
- Employees acknowledged and made you feel welcome
- ✓ Employees seemed genuinely glad you were there
- ✓ Overall clothing quality

BayesNets Customer Satisfaction Drivers Analysis





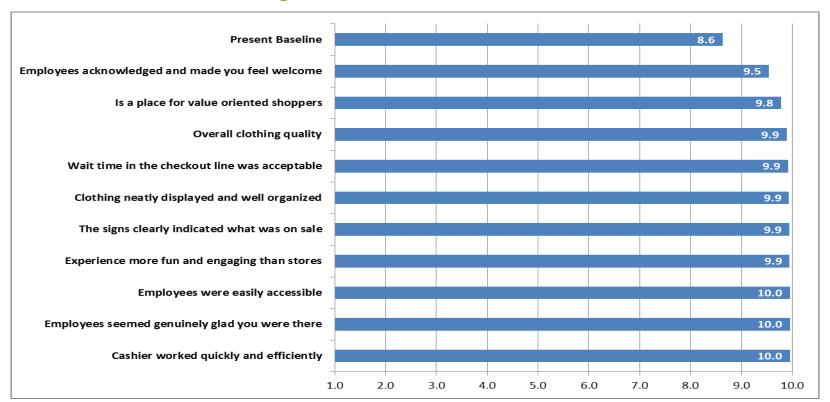
BayesNets Customer Satisfaction Attributes Prioritization Analysis

Attributes

Employees acknowledged and made you feel welcome Is a place for value oriented shoppers Overall clothing quality Wait time in the checkout line was acceptable Clothing neatly displayed and well organized The signs clearly indicated what was on sale Experience more fun and engaging than stores Employees were easily accessible Employees seemed genuinely glad you were there Cashier worked quickly and efficiently

| Initial Mean | Mean at T | Final Mean | Target Mean |
|-----------------|--------------|---------------|----------------|
| | | | 8.6324 |
| 8.3379 | 8.3379 | 9.2903 | 9.5421 |
| 8.5473 | 9.4612 | 9.5601 | 9.777 |
| 8.2085 | 9.3073 | 9.6832 | 9.8913 |
| 8.5263 | 9.2989 | 9.4638 | 9.9189 |
| 8.3987 | 9.3081 | 9.6183 | 9.9344 |
| 8.5816 | 9.3478 | 9.6167 | 9.9413 |
| 7.8108 | 9.4509 | 9.6016 | 9.9473 |
| 8.2912 | 9.3479 | 9.4867 | 9.9503 |
| 8.3157 | 9.4701 | 9.7193 | 9.9522 |
| 8.9202 | 9.4862 | 9.7815 | 9.9532 |

BayesNets Customer Satisfaction Attributes Prioritization Analysis





BayesNets can derive more effective prioritization in planning to optimize marketplace results





