

#### 2018 Global Workforce Symposium 17 - 19 October I Seattle, wa USA

### Leveraging Technology: How Data Analytics Applies to Global Mobility

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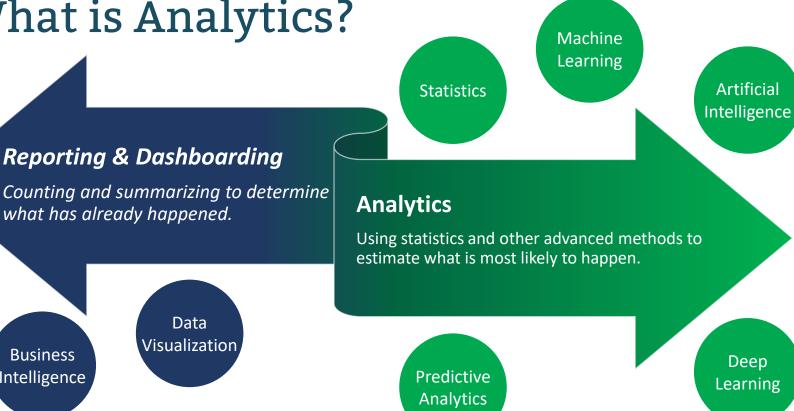
### What is Analytics?

what has already happened.

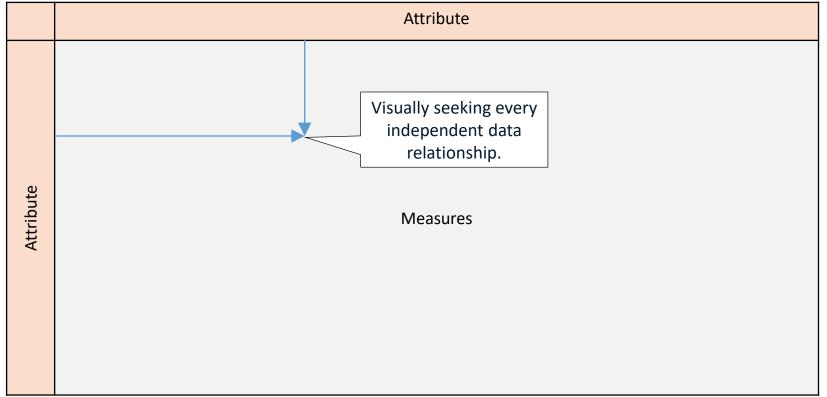
**Business** 

Intelligence

Data Visualization,



### The Problem with Reporting (BI) Alone...



### More Data, Even Less Clarity

	Attribute				
Attribute		Attribute		Attribute	
	Attribute	Measure Relationships becon difficult to ident			
	Attribute	We are often duped ir why somethir Measure			



### **Example: Automotive Dealership**

- When the second seco
- Where the ensure there is enough inventory on hand?
- Second Se
- What vehicle features are driving sales?

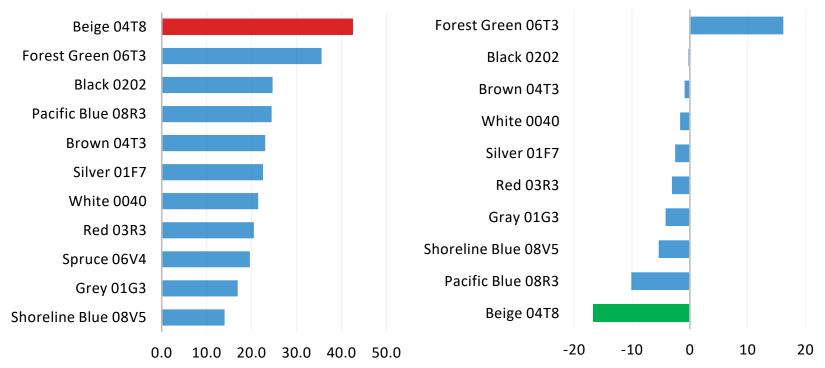






# Right Problem, Wrong Approach

#### Average of Days on Lot by Color



Statistical Impact of Color on Days on Lot

## Right Problem, Wrong Approach

Average of Days on Lot by Color Statistical Impact of Color on Days on Lot Forest Green 06T3 Beige 04T8 Forest Green 06T3 Black 0202 Black 0202 Brown 04T3 Pacific Blue 08R3 White 0040 Brown 04T3 What is Silver 01F7 Silver 01F7 happening? Red 03R3 White 0040 Gray 01G3 Red 03R3 Shoreline Blue 08V5 Spruce 06V4 Pacific Blue 08R3 Grey 01G3 Beige 04T8 Shoreline Blue 08V5 -20 -10 10 20 0 30.0 40.0 50.0 0.0 10.0 20.0 Beige Cars are Good? Beige Cars are Bad!

# Which Approach is more Holistic?

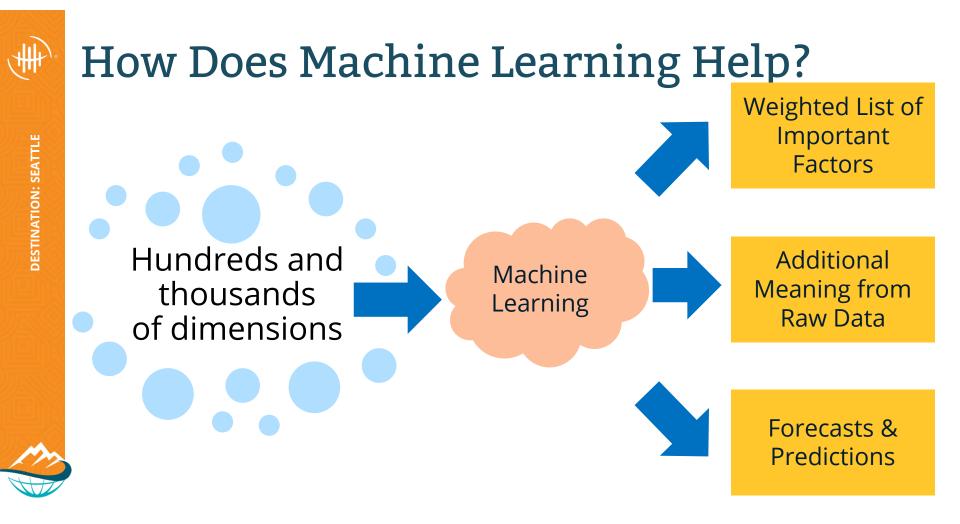
**Descriptive Approach Considers** 

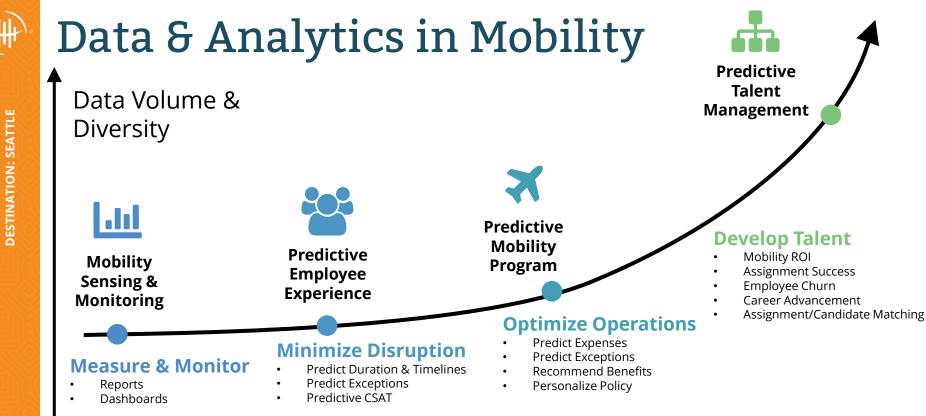
- 1. Average Days on Lot
- 2. Color



- 1. Days on Lot
- 2. Color
- 3. # Doors
- 4. Engine Size
- 5. Trim Level
- 6. Options Package
  - 7. Horsepower
  - 8. Fuel Economy
  - 9. Active Promotions & Marketing
  - **10.** Local Population Statistics
  - 11. Dealership Historical Performance









Competitive Advantage

### **Predicting Move Exceptions**



#### **OPPORTUNITY**

*Employers could manage move expenses and employee experience better if they could proactively anticipate exceptions.* 

#### VALUE / ROI

- Higher Employee Satisfaction
- Shorter Move Duration
- Lower Move Expenses
- More Accurate Budgeting and Planning
- More Proactive Policy Design

NUMBER OR EVENT TO PREDICT

Will this employee request an exception during this time period in the move process?



# Predicting Exceptions in Detail



#### Up to 75% (Initiation) - 93% (Policy Call) Accuracy of Predicting Exceptions

- Move Type Matters
  - Homeowners are 2X likely to request exceptions
- Employee Type
  - Experienced new hires are most
  - Inexperienced new hires least
- Region Pairs
  - Intra region moves trigger the fewest exceptions
- Product Categories
  - No products reduce exception likelihood

- Contacts
  - Customers with the highest number of Cartus staff assigned to them are least likely to request exceptions.
- Family Situation
  - Customers who move with family are 2X more likely
  - Customers who leave family behind are also likely
- Clients are Unique
  - 79% of Client X request exceptions, while only 4% of Client Y do
- Unique Policies
  - Clients with a large number of distinct policies in place have employees most likely to request exceptions



#### Predictive **Personalized Benefit Recommendations** Mobility Program



#### **OPPORTUNITY**

Use recommendations to passively manage the experience of employees on lump-sum or point-based policies.

#### **VALUE / ROI**

- Higher Employee Satisfaction
- Shorter Move Duration
- *Lower Move Expenses*
- Manage Risk in New Environments

NUMBER OR EVENT TO PREDICT

*In this scenario, which benefits* or services will yield the shortest move and highest employee satisfaction?



# Predicting Mobility Success / ROI Talent Management

#### **OPPORTUNITY**

Select the best candidates or location for workforce mobility

#### VALUE / ROI

- Higher Employee Satisfaction
- Lower Employee Churn
- Better Business Outcomes
- Higher Mobility ROI

NUMBER OR EVENT TO PREDICT

#### What is the ROI of this move?



### Key Takeaways

- Need for Data Diversity
  - People are complex
  - Combine mobility, talent and 3<sup>rd</sup> party data to maximize opportunity
- Need for Data Volume
  - Law of large numbers
  - More examples to learn from
- Need for Ethical Applications
  - Utilized like Myers Briggs, Predictive Index, etc.
  - Requires logic to defeat bias and feedback loops





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### **Thank You!**

