

Preparing for the Future

Enhancing S&OP Performance with Analytics

Background

Opportunities

- ↑ YOY Revenue
- ↑ Cross-Functional engagement in S&OP

Challenges

- ↓ Sales growth exposing flaws in planning
- ↓ KPIs overemphasize the past
- ↓ Reactive decision-making



Key Questions

How can we...

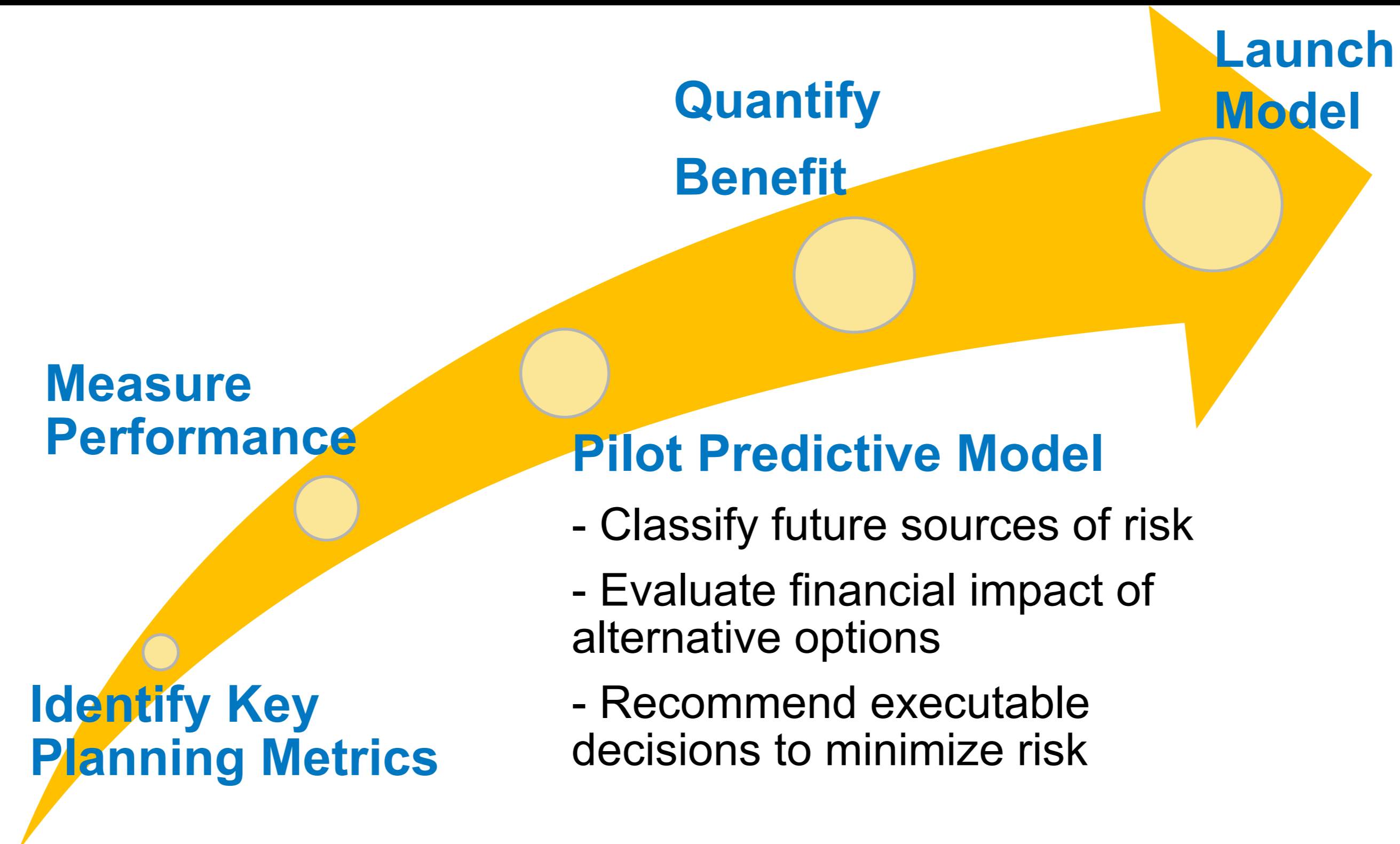
- Effectively apply analytics to predict challenges before they occur?
- Improve decision-making in the S&OP process by proactively preparing for the future?

Relevant Literature

- “Predictive Metrics for Supply Chains” By Linda Haydamous and Dr. Larry Lapide, June 2009
- “Applying machine learning to key performance indicators” By Marcus Thorstrom, 2017



Methodology



Initial Results

	Actual	Target	Predictive	Predictive Trend		
Plan						
Forecast Accuracy	75%	80%	73%	2% ↘		
<i>Premier Brand</i>	72%	85%	62%	8% ↘		
Key Customer 1	82%	80%	75%	1% ↘		
Key Customer 2	79%	80%	72%	3% ↘		
Customer 1						
Premier Brand Risk	Demand Forecast	Demand Variance	Key Loc Inventory OH	Work Orders Qty	Promotion Days	Promo/ Everyday Price Ratio
Obsolescence, Service Level	18,500	3,500k	80,000	50,000	2	0.98
Customer 2						
Premier Brand Risk	Demand Forecast	Demand Variance	Key Loc Inventory OH	Work Orders Qty	Promotion Days	Promo/ Everyday Price Ratio
Stockout, Service Level	330,000	60,000k	250,000	150,000	10	0.80

Expected Contribution

- Predictive tools that...
 - Identify and classify risks in the S&OP plan
 - Evaluate financial impact of risks to improve decision-making
 - Can be scaled and applied to other processes

Deepti Kidambi



Minhaaj Khan

