





# Al Revenue Optimization Strategies for B2B Distributors

Presented by Dan Cakora



#### **EVENDAVO**

Measured inflation at the BLS

Former Pricer at Grainger

Built commercial excellence and analytical products

Frequent writer about pricing and the economy



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## How most companies select an AI strategy:



# Agenda



Who uses AI and what is it good at?

- Your Al Map: Choosing the Right Path
  - Purpose Gulch
  - Data Mountain
  - Lake People-N-Culture

9 Steps for Choosing the Right AI



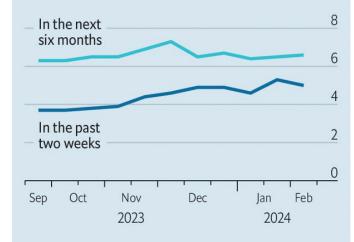
# Who is using AI?



#### **Smart company**

United States, companies using AI to produce goods and services, %

#### Have done/will do



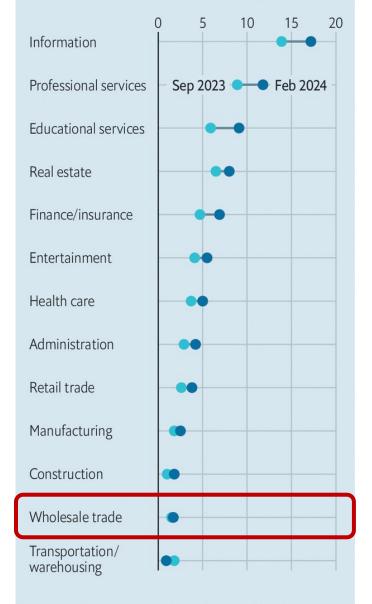
#### Have done in the past two weeks, by number of employees



#### **Smart sectors**

United States, companies using AI to produce goods and services, %

#### Have done in the past two weeks, by sector



#### Al is good at many things, but not everything.

Working Paper 24-013

Navigating the Jagged Technological
Frontier: Field Experimental Evidence
of the Effects of AI on Knowledge
Worker Productivity and Quality

Fabrizio Dell'Acqua Edward McFowland III Ethan Mollick Hila Lifshitz-Assaf Katherine C. Kellogg Saran Rajendran Lisa Krayer François Candelon Karim R. Lakhani







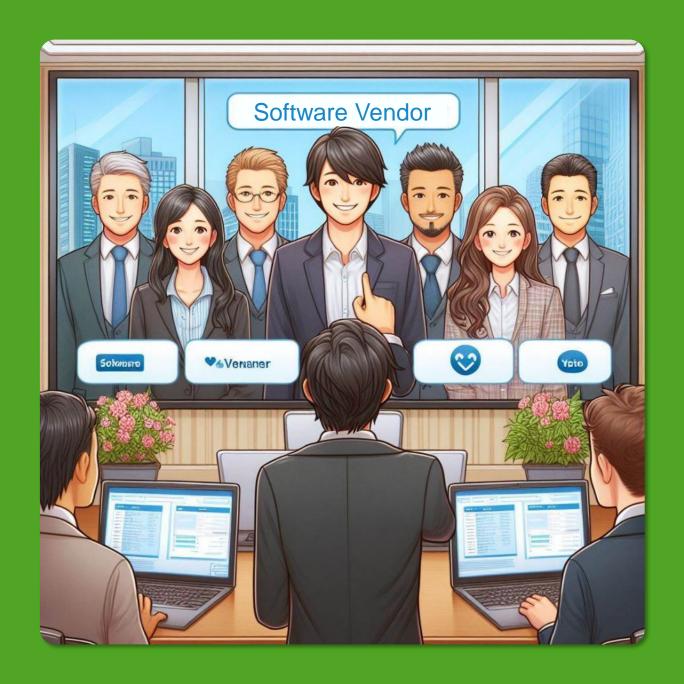


Abstract

The public release of Large Language Models (LLMs) has sparked tremendous interest in how humans will use Artificial Intelligence (AI) to accomplish a variety of tasks. In our study conducted with Boston Consulting Group, a global management consulting firm, we examine the performance implications of AI on realistic, complex, and knowledge-intensive tasks. The pre-registered experiment involved 758 consultants comprising about 7% of the individual contributor-level consultants at the company. After establishing a performance baseline on a similar task, subjects were randomly assigned to one of three conditions: no AI access, GPT-4 AI access, or GPT-4 AI access with a prompt engineering overview. We suggest that the capabilities of AI create a "jagged technological frontier" where some tasks are easily done by AI, while others, though seemingly similar in difficulty level, are outside the current capability of AI. For each one of a set of 18 realistic consulting

Who knows how to navigate the Jagged Technological Frontier?





# **Boldly Go Where [Your Vendor] Has Gone Before!**

# **Vendors have Navigated the Jagged Technological Frontier**

Select vendors based on:

- Solution for a specific problem
- Fluency in working with data and IT systems
- Assistance in change management



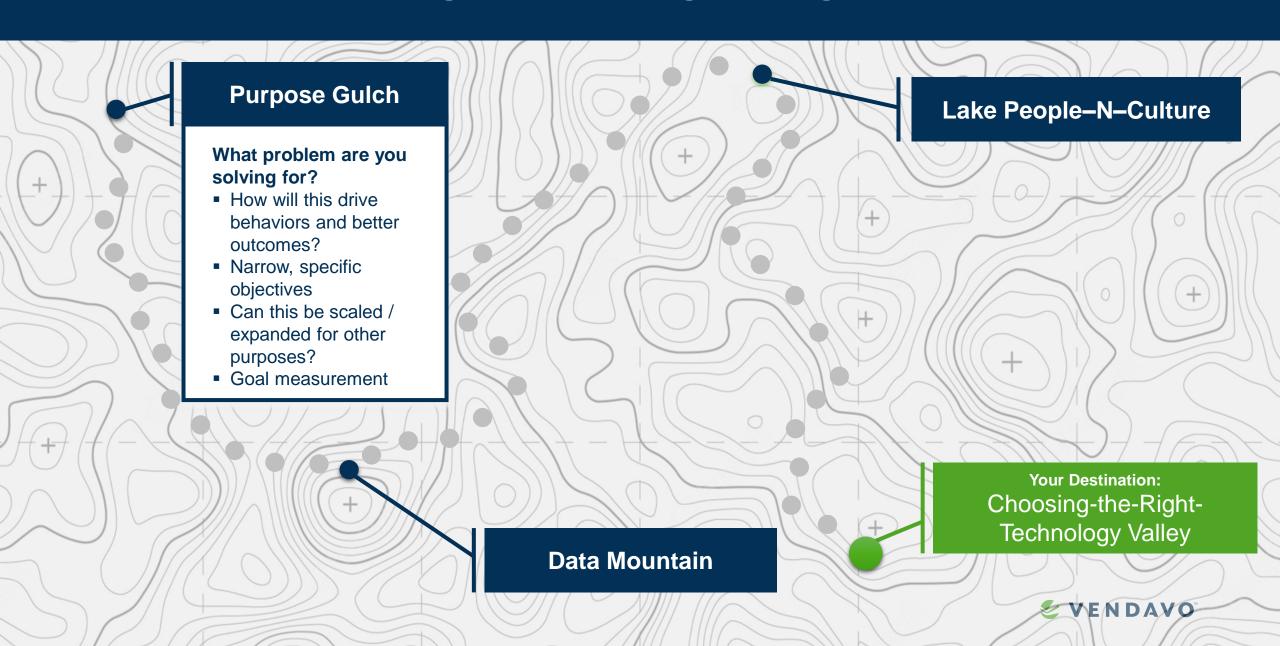
#### Data granularity makes analysis get big, fast.

Common distributor use case: Grouping like customers.

	<b>Buyer Type</b>		Size	Industry			Geography	<b>Product Line</b>			Channel	
	2	X	3	X	4	$\times$	3	X	1	0	$\times$	3
	Contractor OEM		Big Medium Small		Industrial Construction Food & Bev. Agriculture		Urban Suburban Rural		Abrasives Electrical Fasteners Jan-San Lighting	Lubricants Pumps Safety Tools Welding		Counter Phone Ecom
# of Group	s 2		6		24		72		720			2,160

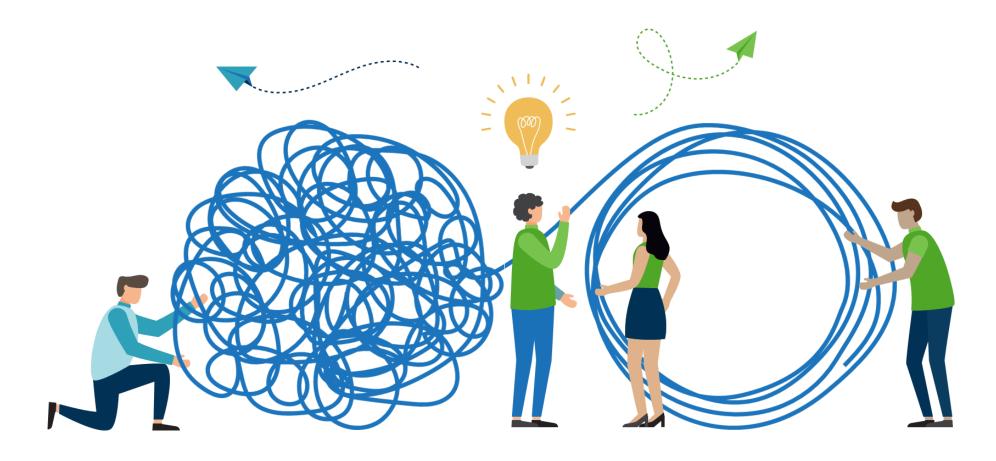


## **Utilizing AI: Choosing the Right Path**

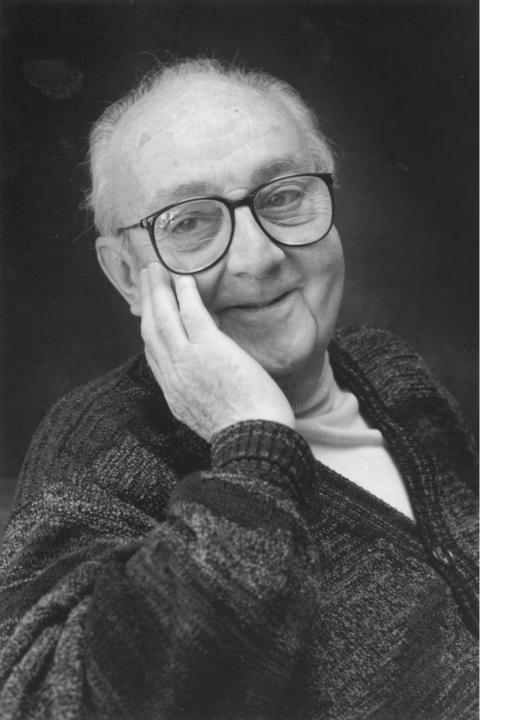


## **Vendavo Simplifies Profit Optimization**

Simple UX combined with AI that's Explainable and Effective







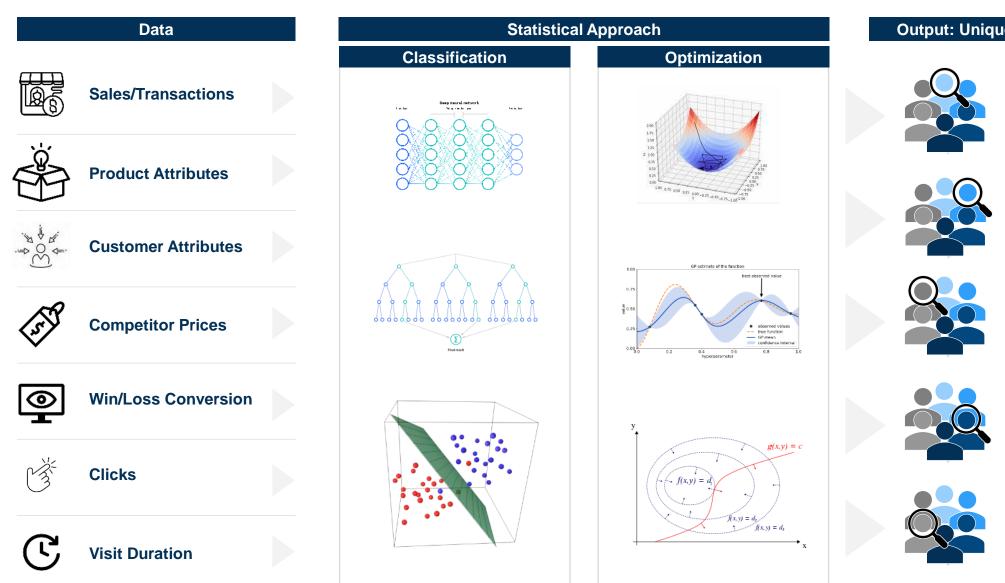
# All models are wrong, but some are useful.

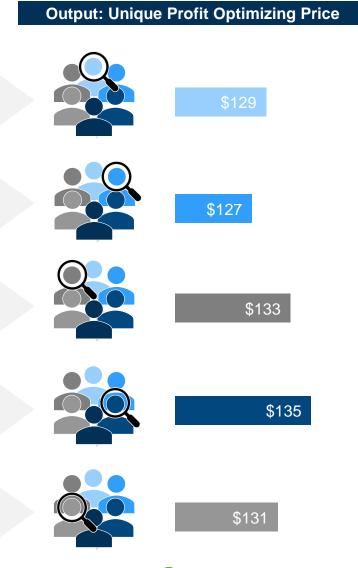
# George Box, PhD

Former president of the *American Statistical Association* and the *Institute of Mathematical Statistics* 



#### General structure of price optimization for B2B distributors.





**VENDAVO** 

#### Vendavo's Pricing Optimization Landscape for Distributors

**Business Need** "What is a fair "Does this make "How much more "What is the "Am I priced right price range?" sense to do?" must they buy?" probability I win?" for this channel?" look the same?" Classification **Optimization Guardrails Volume Pricing** Win Ratio **E-commerce Analytical Use Case** Most frequent use cases for B2B distributors **Aspirational Negotiated Negotiated Negotiated Negotiated Negotiated** One-Off (§) (§) **(\$) (\$) Sales Scenario** Transactions, Transactions. Transactions. Transactions, Transactions. Transactions. Win/Loss, Win/Loss, Win/Loss, Win/Loss, Win/Loss, Win/Loss, **Data Input** E-commerce Data, E-commerce Data, E-commerce Data, E-commerce Data. E-commerce Data. E-commerce Data. Competitor Prices **Competitor Prices Competitor Prices Competitor Prices Competitor Prices Competitor Prices** 



## Al Must be **Explainable** to Ensure Success



1 User acceptance and adoption

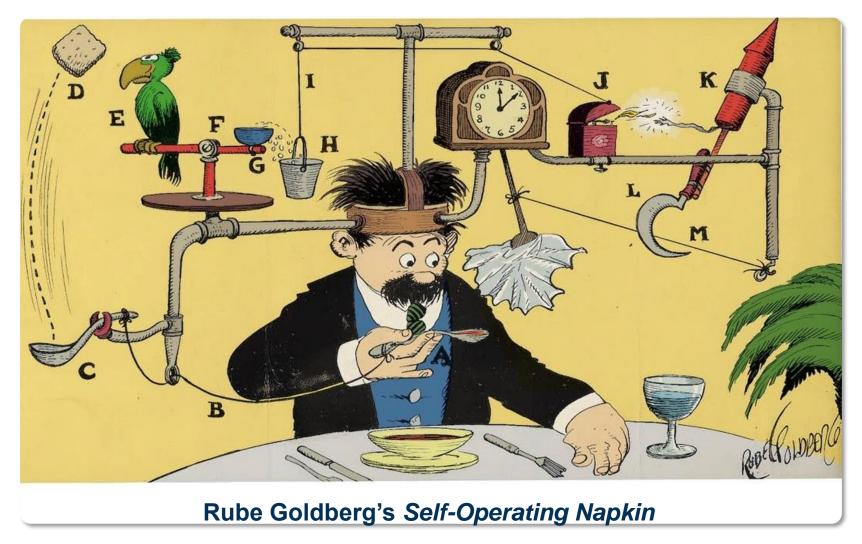
2 It can improve the system

3 It helps assess fairness

4 Regulatory compliance calls for it



## Solutions cannot be too complex, nor too simple



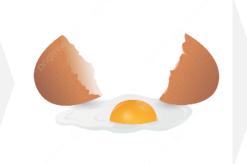
# Solutions cannot be too complex, nor too simple

Simple! Just add water, mix, bake

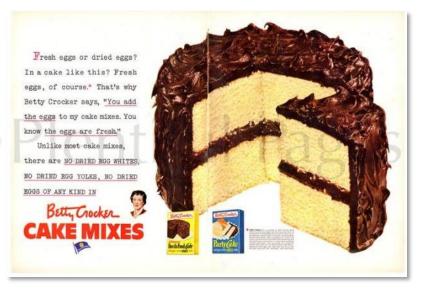


Felt "too easy"; sold poorly

Bakers want to bake



Add a step: Crack an Egg! Users feel like a part of the process. Now we're baking!



Sales skyrocketed



# **Best results come from cooperation of humans and Al**

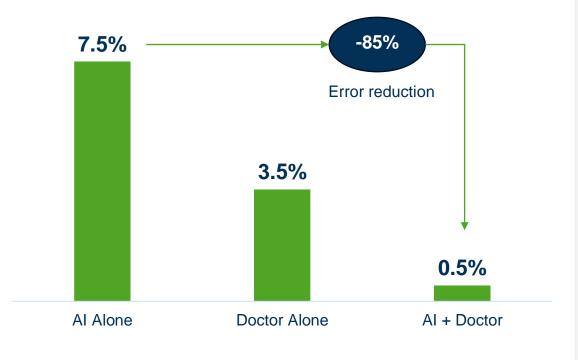
"Human labor adds distinctive value...
[to increase adoption] focus on features
or tasks that allow users to feel proud
and involved."

- Yalcin, G. & Puntoni, S. (2023). How Al Affects Our Sense of Self. Harvard Business Review. 101 (5)130-136



#### **Error Rate**

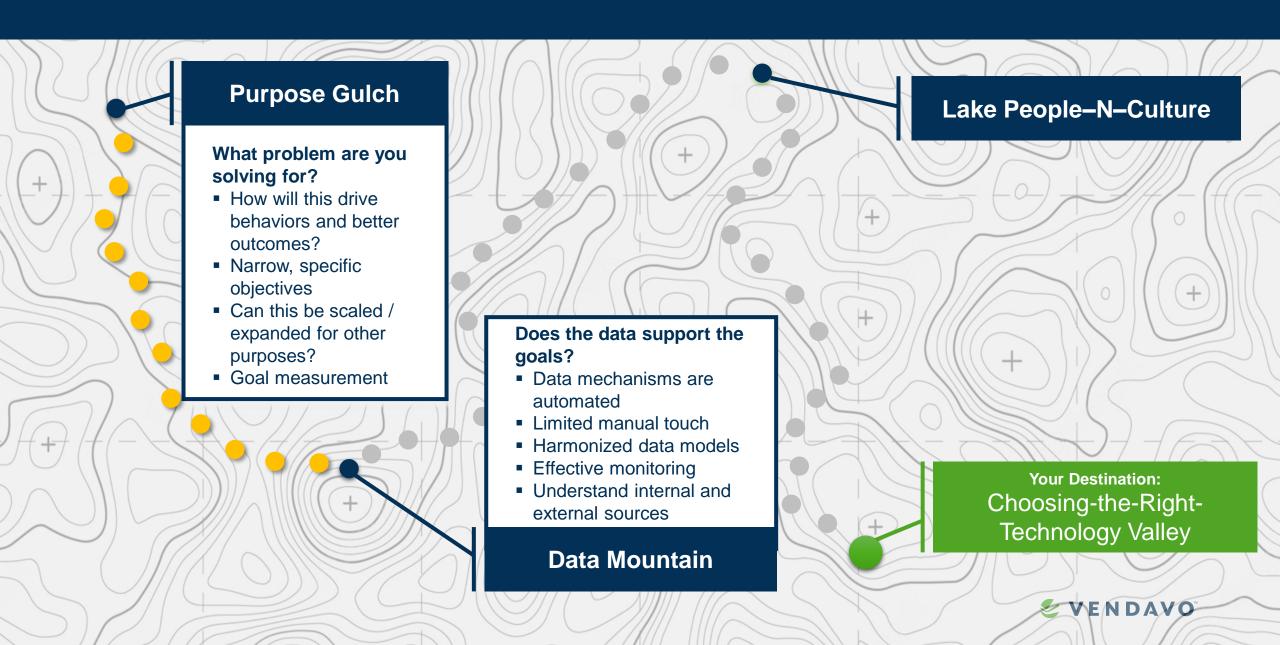
Detecting whether or not a cell contains cancer



Dayong Wang, Aditya Khosla, Rishab Gargeya, Humayun Irshad, Andrew H. Beck, "Deep Learning for Identifying Metastatic Breast Cancer," June 18, 2016, https://arxiv.org/pdf/1606.05718v1.pdf.



### **Utilizing AI: Choosing the Right Path**



#### Get off the Bench: **Avoid the "Perfect Data" Trap**



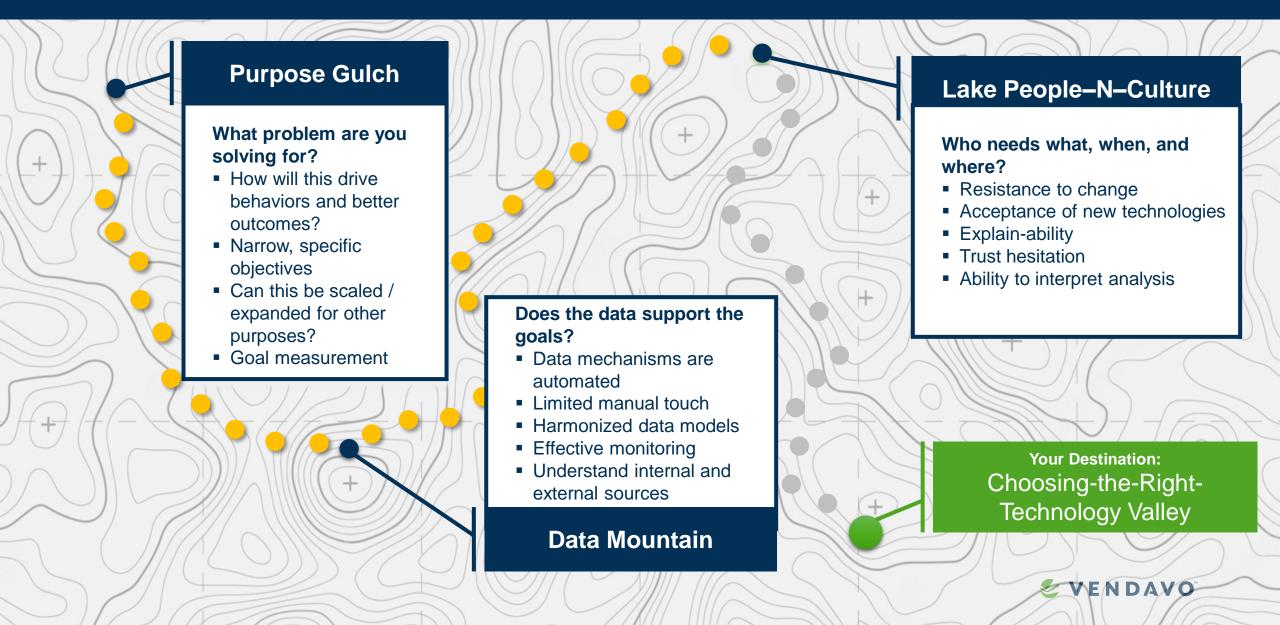
# Using data is the best way to clean it up



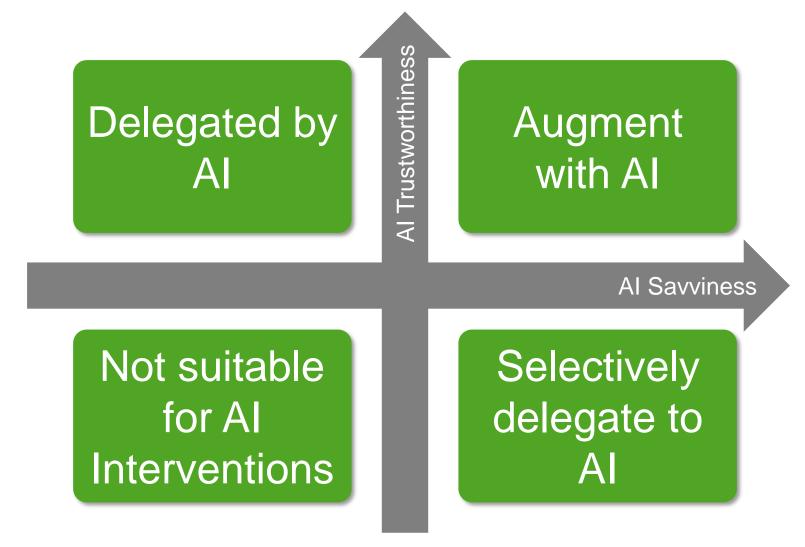
- Start with a pilot area
- Work with a team that wants to move forward
- Focus on the big picture, not specific lines
- **Visualize** the data and **share** results
- Quickly identify data issues or quick wins
- Vet the data with people who know what it should be
- **Describe** data issues and **resource** accordingly
  - Saying "data is wrong" is not detailed enough to fix
  - IT can help, but only if they have bandwidth
  - The goal is "good enough"
  - Reasonable people can make the right decision.
  - If people are nitpicking due to small issues, then the data is good enough



#### **Utilizing AI: Choosing the Right Path**



#### How you use Al depends on Savviness and Trustworthiness





#### Phasing Your Al Project for Success

#### **Start Small**

Focus on specific use case where data is available



#### **Review and Adjust**

Establish goals and KPIs. Evaluate regularly.

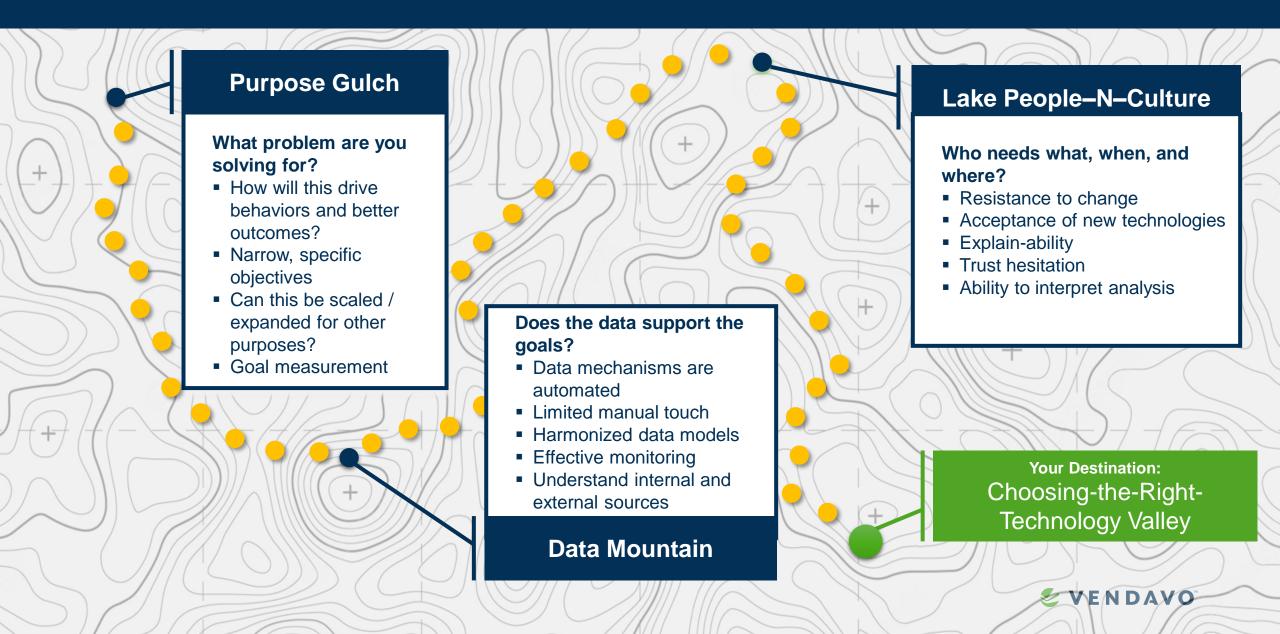


#### Verify, then Expand

Measure outcomes. Expand vertically and horizontally after wins.



#### **Utilizing AI: Choosing the Right Path**



# Nine Steps for Choosing the Right Al

- 1 "I Declare Al" is not a strategy.
- 2 It's early days of Al adoption in B2B distribution. It's hard to know what Al can and cannot do.
- 3 Partner with vendors that have solved specific problems.
- 4 Vendavo simplifies profit optimization with explainable, effective Al.
- 5 Al must be explainable to ensure adoption. It can't be too simple or too complex.
- 6 Best results come from cooperation of humans and Al.
- 7 Don't wait for perfect data. The goal is "good enough" data.
- 8 Assess your organization's Tech Savviness and Al Trustworthiness.
- 9 Start Small; Review and Adjust; Verify and Expand.



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# Thank you!

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