

# 10x More Insights, 10x Faster

## How Generative and Agentic AI Transform Analytics

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Ryohei Fujimaki, CEO, dotData, Inc.



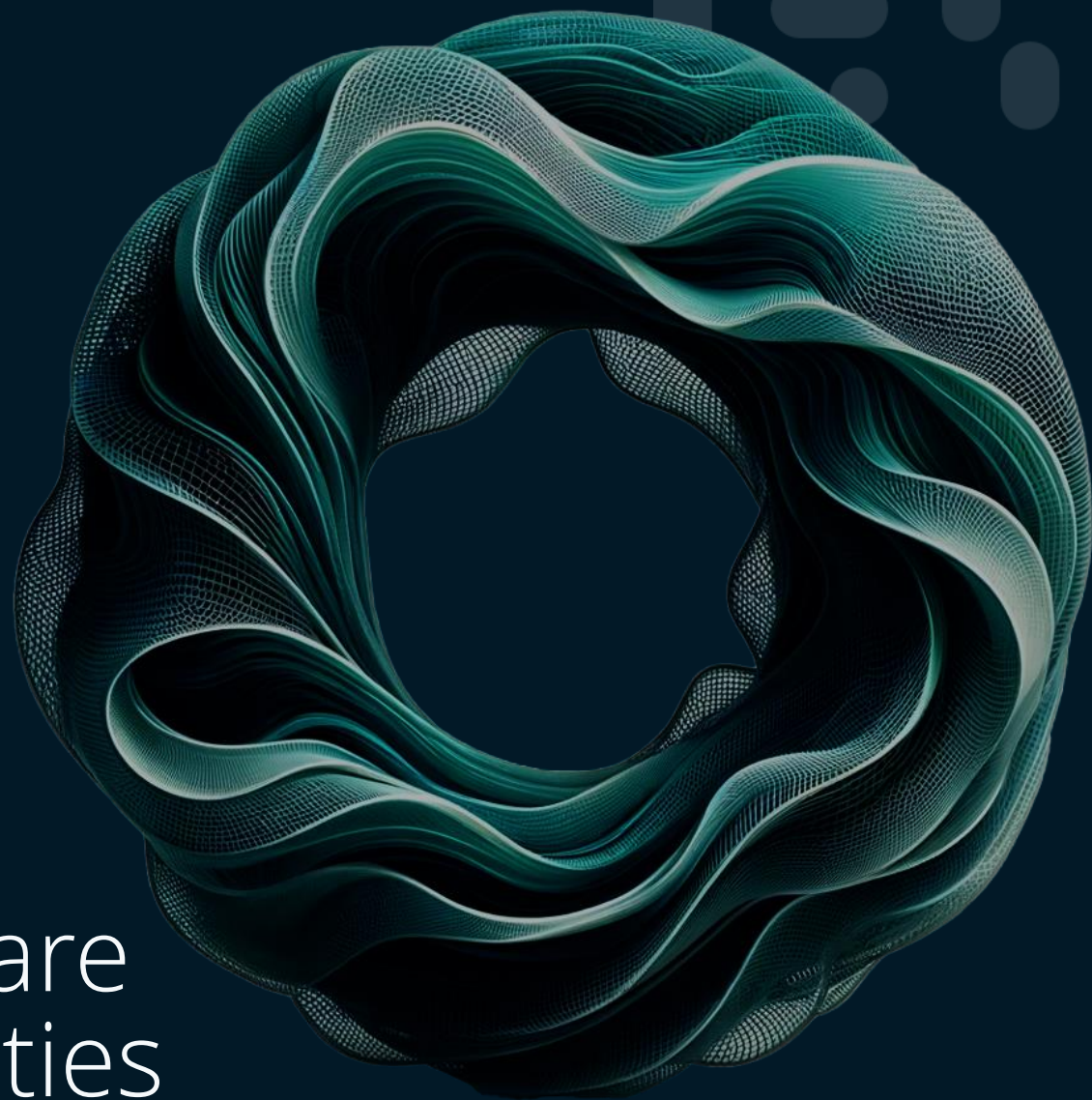
# 50+%

**of data remains unexplored (dark)**

in more than two-thirds of the US organizations.

Google Trends, 2024

Data & Analytics leaders are missing critical opportunities hidden within their data



# Data & Analytics leaders are missing critical opportunities hidden within their data

Customer Churn	
Customer ID	■
Account Churn	■
Churn Date	■

**What customer behaviors drive customer churn?**

Customer Info	
Customer ID	■
Gender	
Age	
Zip Code	
Occupation	
...	

Online Banking	
Customer ID	■
Access Date	■
Session ID	
Access URL	
Duration	
...	

Credit Card Pmt	
Card ID	■
Customer ID	■
Due Date	■
Balance	
Payment Amt	
...	

Acct Balance	
Customer ID	■
Account ID	■
Transaction Type	
Amount	
Timestamp	■
...	

Promotion	
Account ID	■
Customer ID	■
Promotion Type	
Offer Date	■
Response	
...	

Credit Score	
Date	■
Customer ID	■
Credit Score	
...	

# Data & Analytics leaders are missing critical opportunities hidden within their data

What customer behaviors drive churn?

Customer Churn	
Customer ID	
Account Churn	
Churn Date	

Customer Info	
Customer ID	
Gender	
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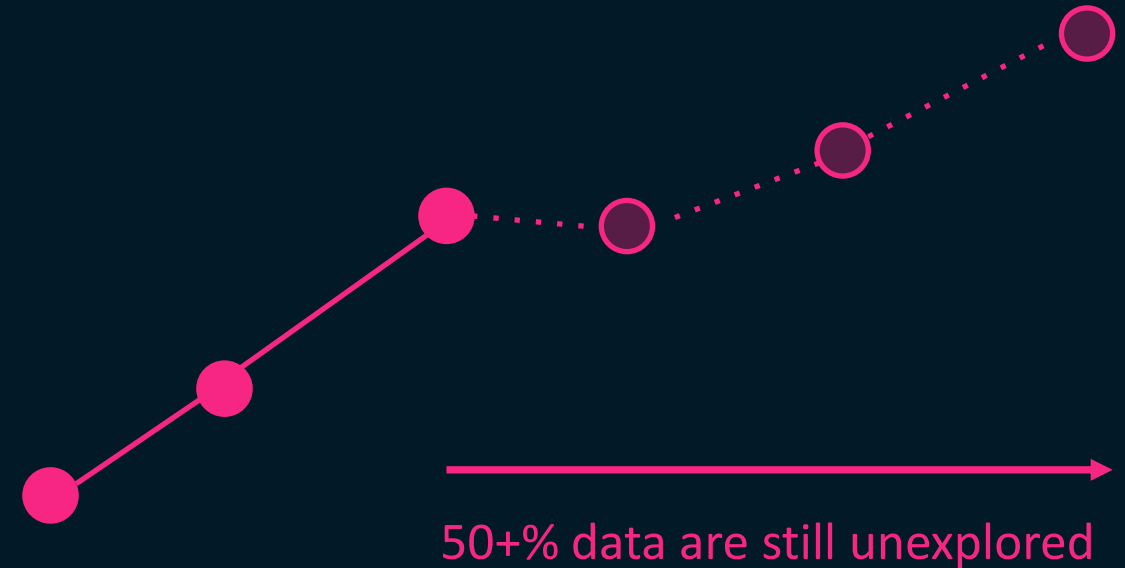
Credit Card Pmt	
Card ID	
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...	

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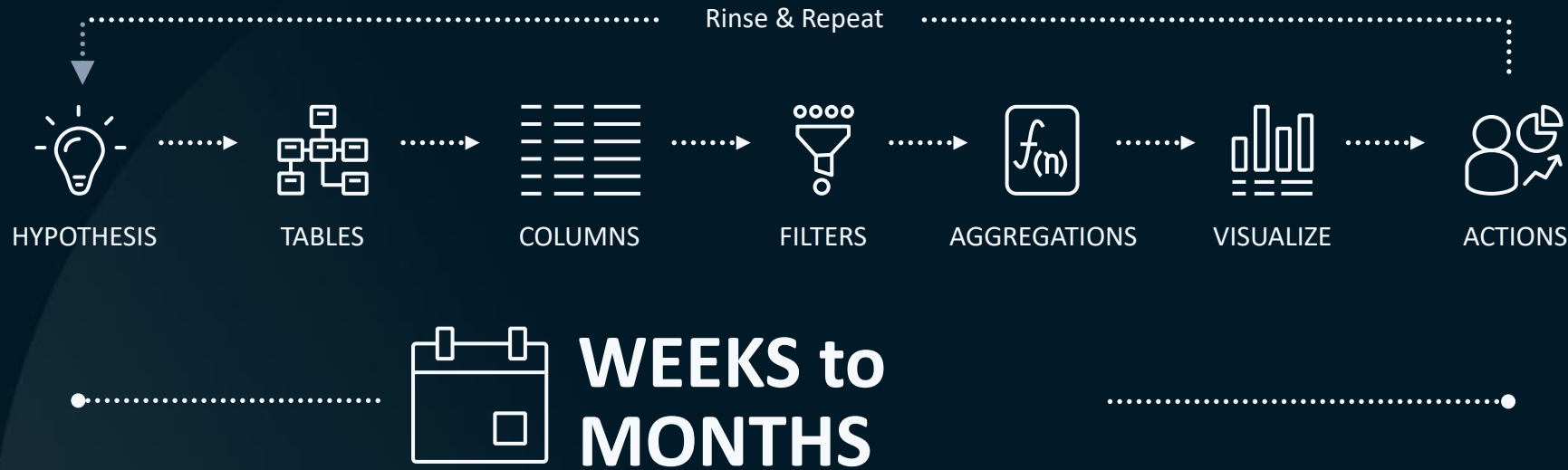
Credit Score	
Date	
Customer ID	
Credit Score	
...	

Value of Insights



# of Tables / Sources

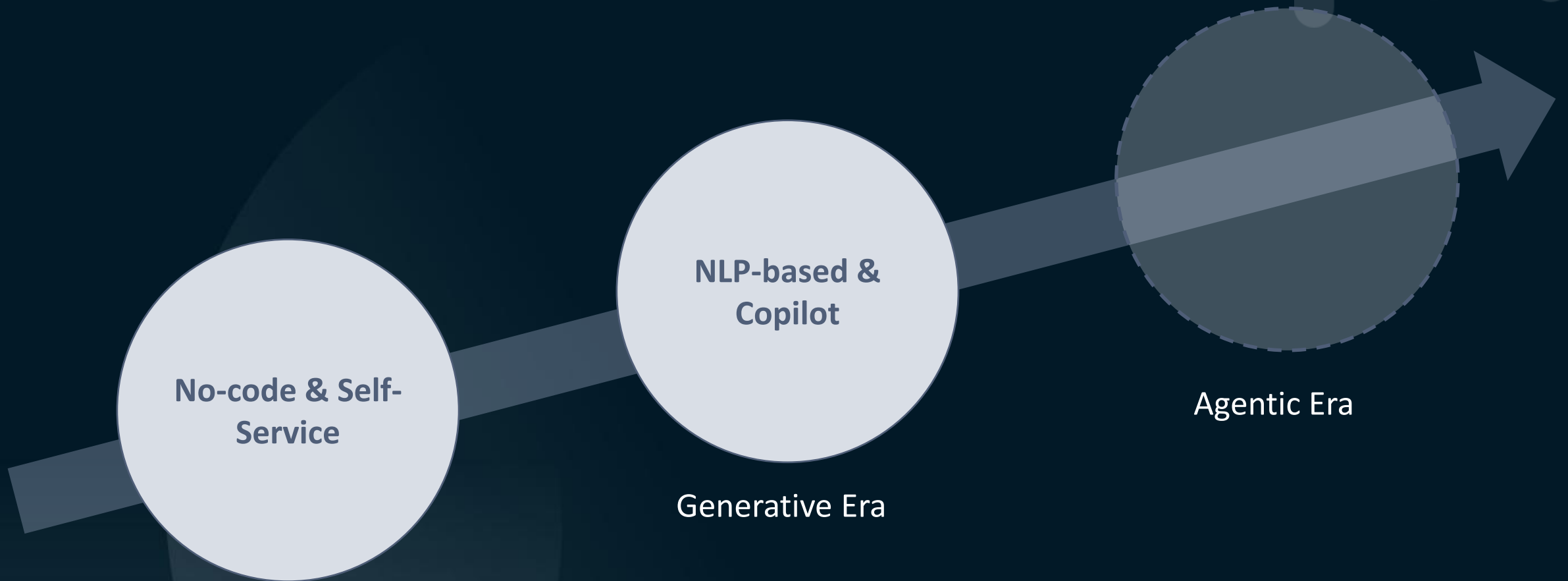
# HYPOTHESIS-DRIVEN APPROACH



“The biggest problem is that **you can't just throw more bodies at the data.**”



# AI Revolutionizes BI & Analytics – but How?



You have to know what to ask for, even though you are seeking unknown-unknowns.

# Toward Agentic AI in Enterprise Analytics



User executes complex data & visualization pipeline, manually

User asks a simple question in plain English to visualize data.

AI can analyze, explore, interpret complex data, but user still takes control.

AI executes the analytics workflow, but user must give feedback as needed.

AI creates analytics reports autonomously in predefined conditions.

AI self-evolves analysis by collecting data, extracting drivers, and taking actions.

**NO AUTOMATION**  
(No-code BI)

**ASSISTANCE**  
(NLP & Copilot)

**PARTIAL AUTOMATION**

**CONDITIONAL AUTOMATION**

**HIGH AUTOMATION**

**FULL AUTOMATION**



The driver has full control

Vehicle can perform one autonomous task at a time

the vehicle can brake, accelerate, & steer, but driver is still in control

the vehicle performs dynamic driving, but the driver must respond as needed

the vehicle can operate autonomously in predefined conditions, and handle critical situations

the vehicle is fully autonomous and does not require a driver

0

1

2

3

4

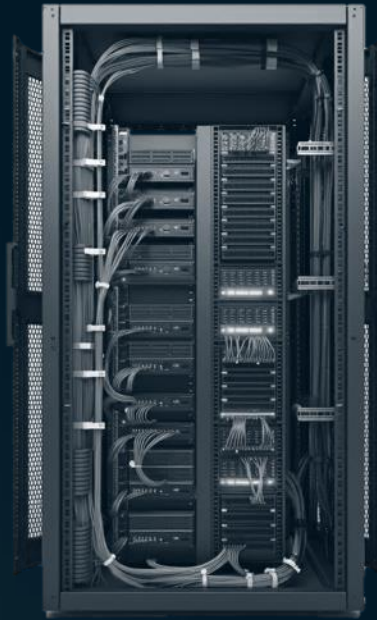
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# Generative AI – A Game Changer for Data & Analytics?

Yes, but...



Hallucinations



High Cost



Poor explainability

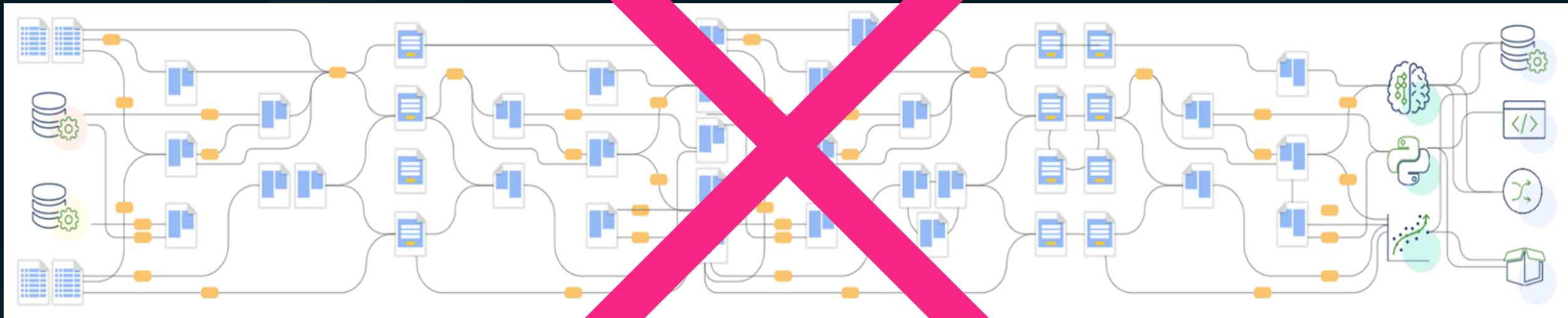
Generative AI alone cannot change the game





**WE NEED THE  
DATA TO SPEAK  
FOR ITSELF**

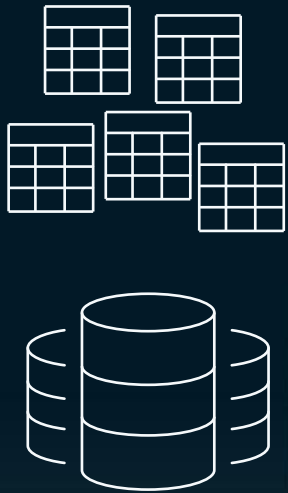
# Complex Pipelines Need to Go Away



# — dotData Insight: **10x More Insights, 10x Faster**

Minutes to Explore Your Complex Data

Business Data



Take actions via API integrations



Actions  
APIs

**dotData's AI**

**Generative AI**

**FORRESTER**

"... powerful and scalable, even across tens of tables with billions of rows..."

**Exeter**

"dotData solves a problem I've been trying to solve for 20+ years."



# — Agentic AI Lv. 2-3: dotData's AI + Generative AI

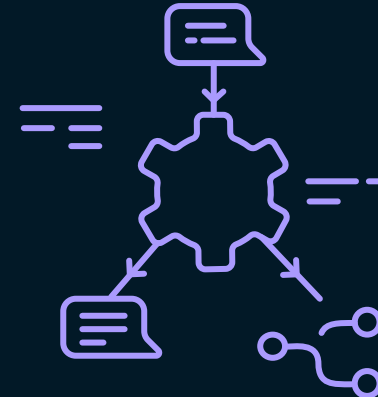


**dotData's AI**

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Process **millions and billions** of records  
Detect **statistical facts** and signals  
Optimize **complex combinations**

**FASTER, MORE EFFICIENT, ACCURATE**



**Generative AI**

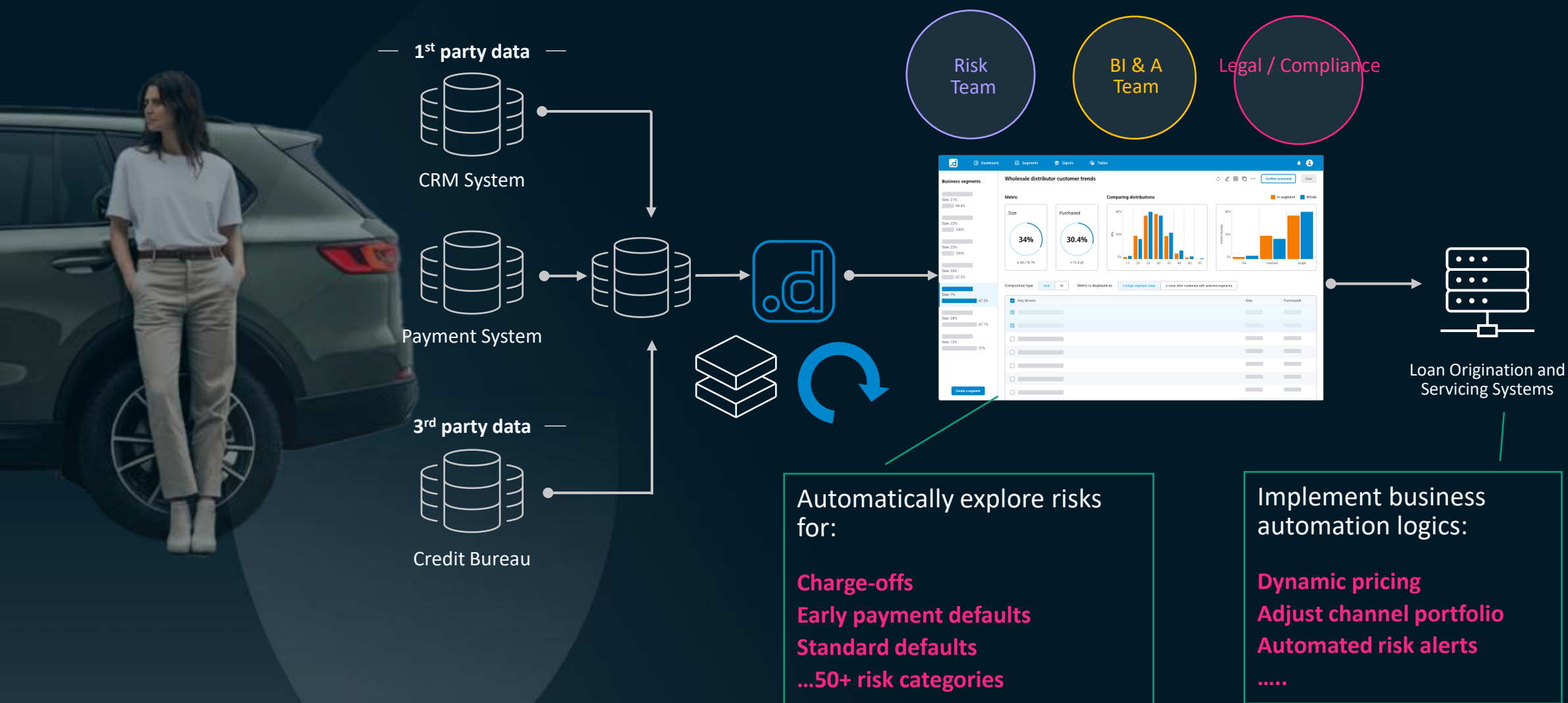
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Understand **domain knowledge & context**  
Explain & interpret **interesting findings**  
Ideate **hypotheses** behind data signals

**DEEPER, MORE CREATIVE, MORE FLEXIBLE**

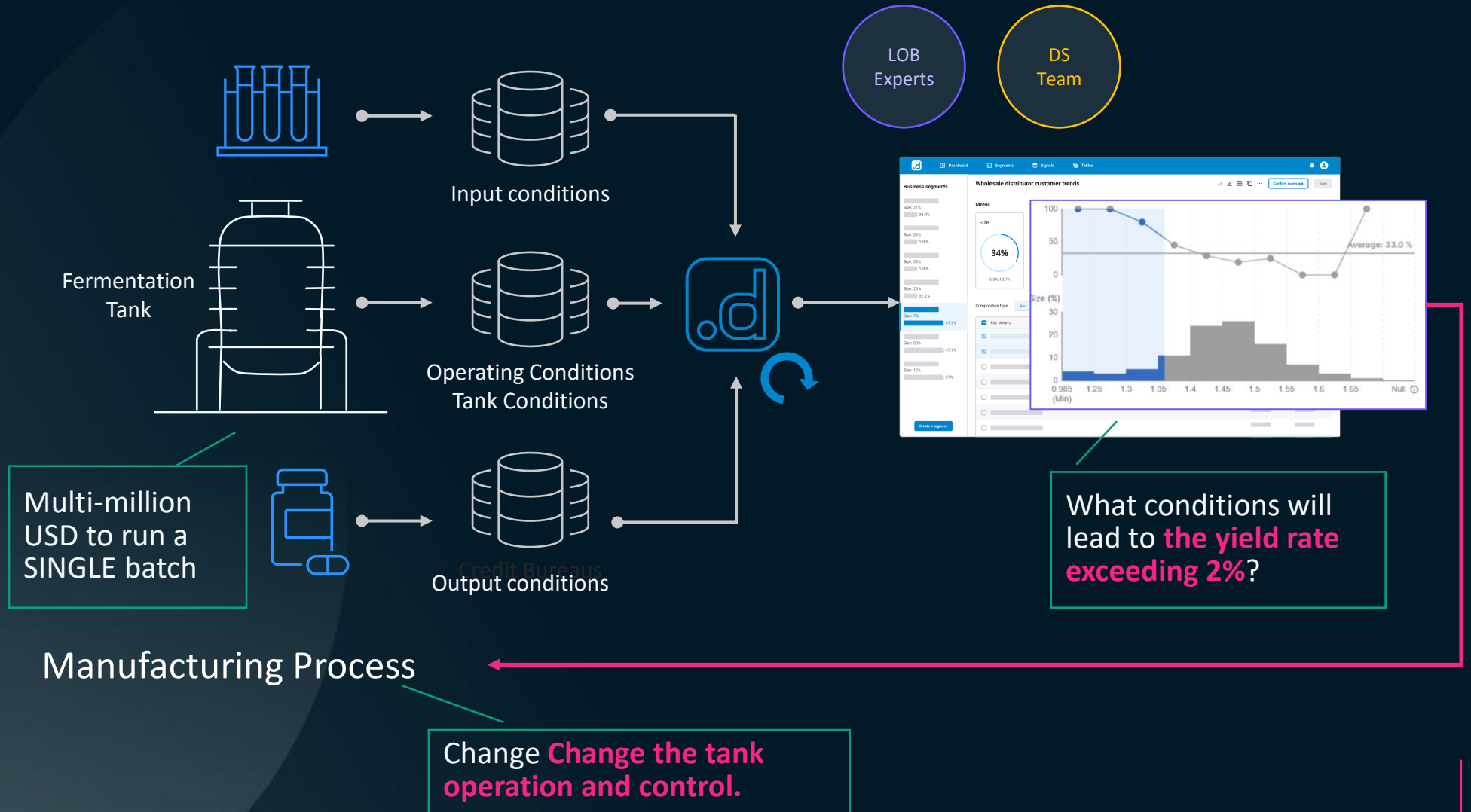
# Case Study : Automated Risk Detection System

15% decrease in default rate over 400,000 customers



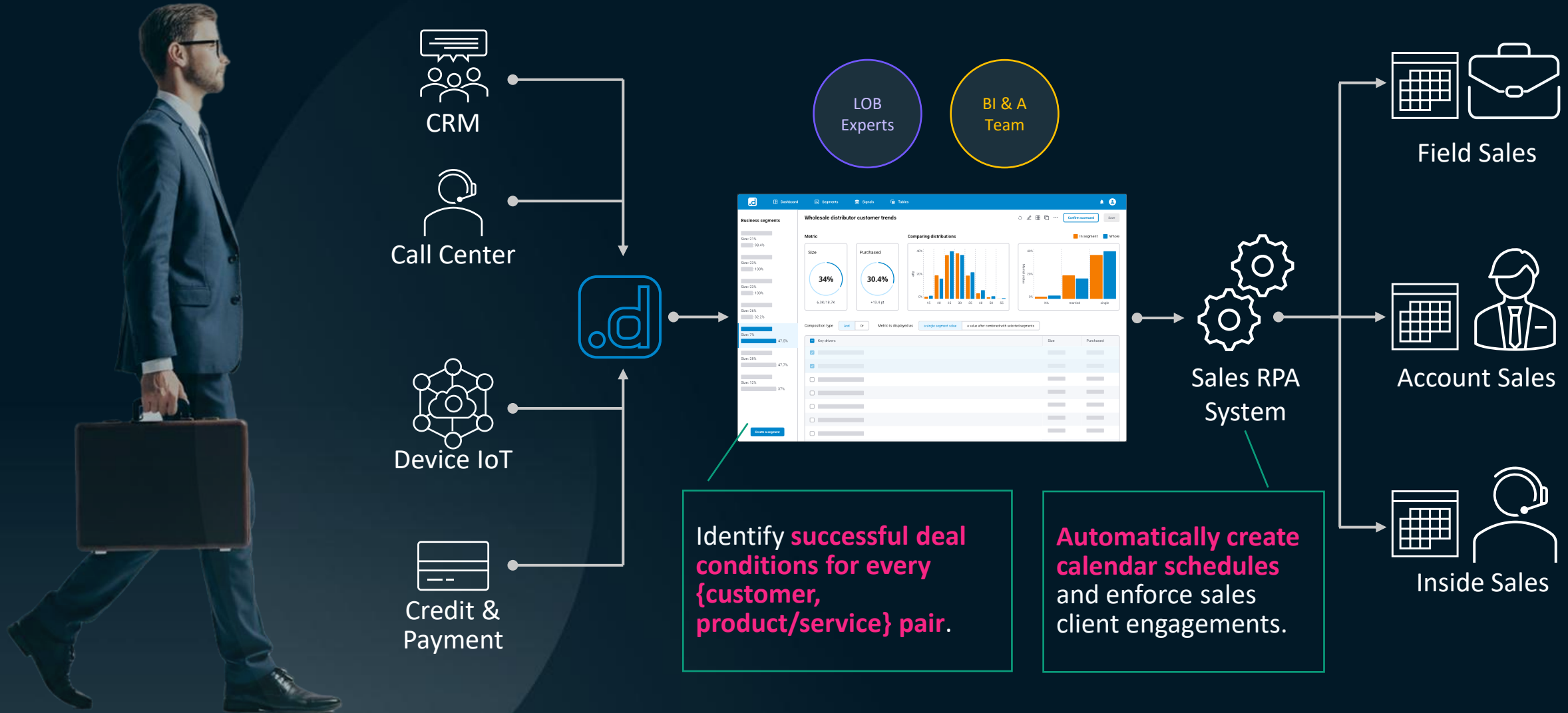
# Case Study : Yield Maximization Driver Analysis

Discover bio-chemistry conditions resulting in higher yields



# Case Study : AI Sales (B2B) Navigation System

150,000+ navigations, 50,000+ sales attempts, 5% increase in wins





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