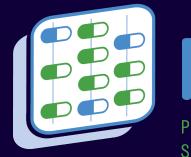
# Leveraging Al-Powered Analytics for Pharma Brand Performance



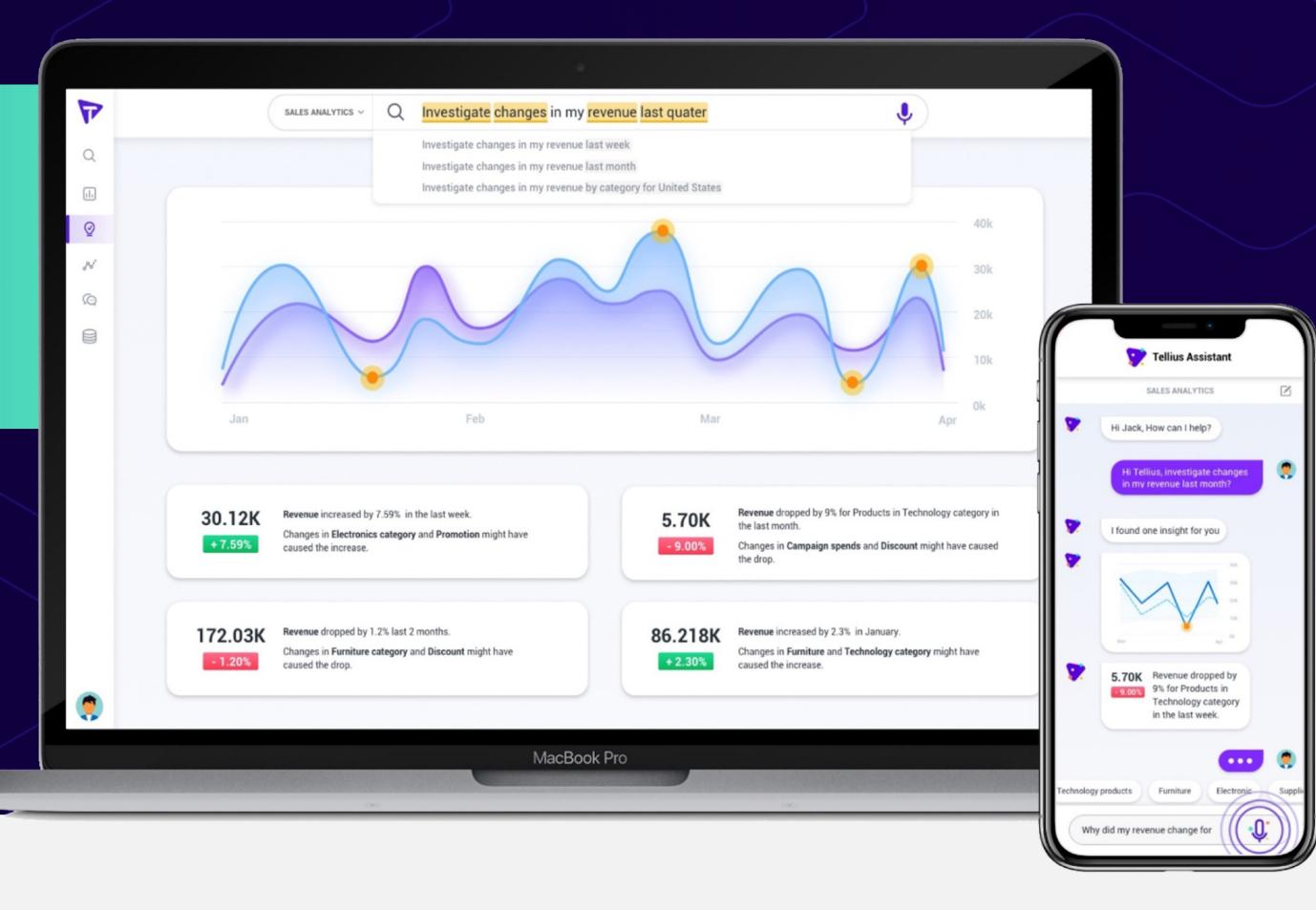






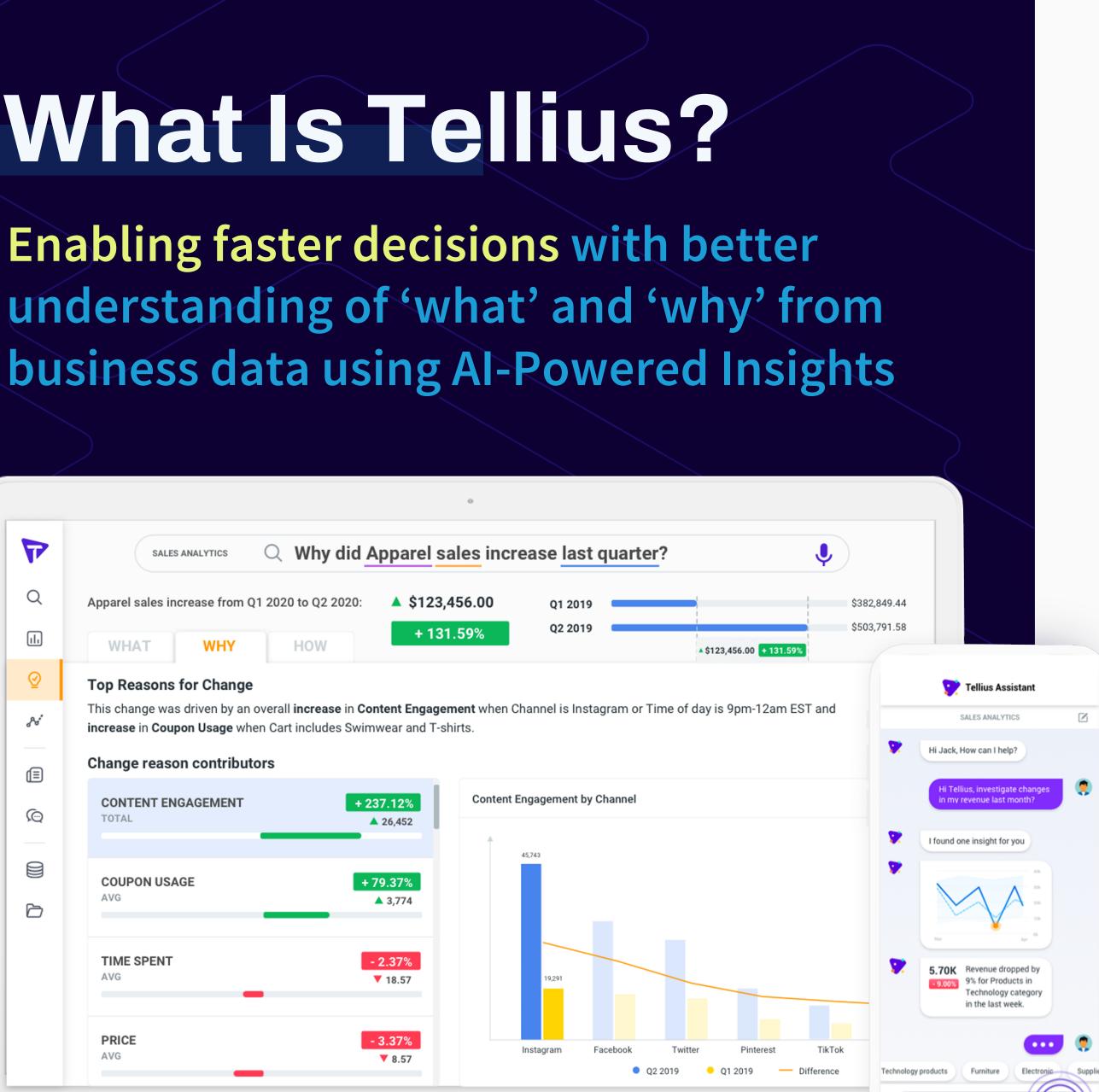
**Alvin Wong** Director of Marketing Tellius



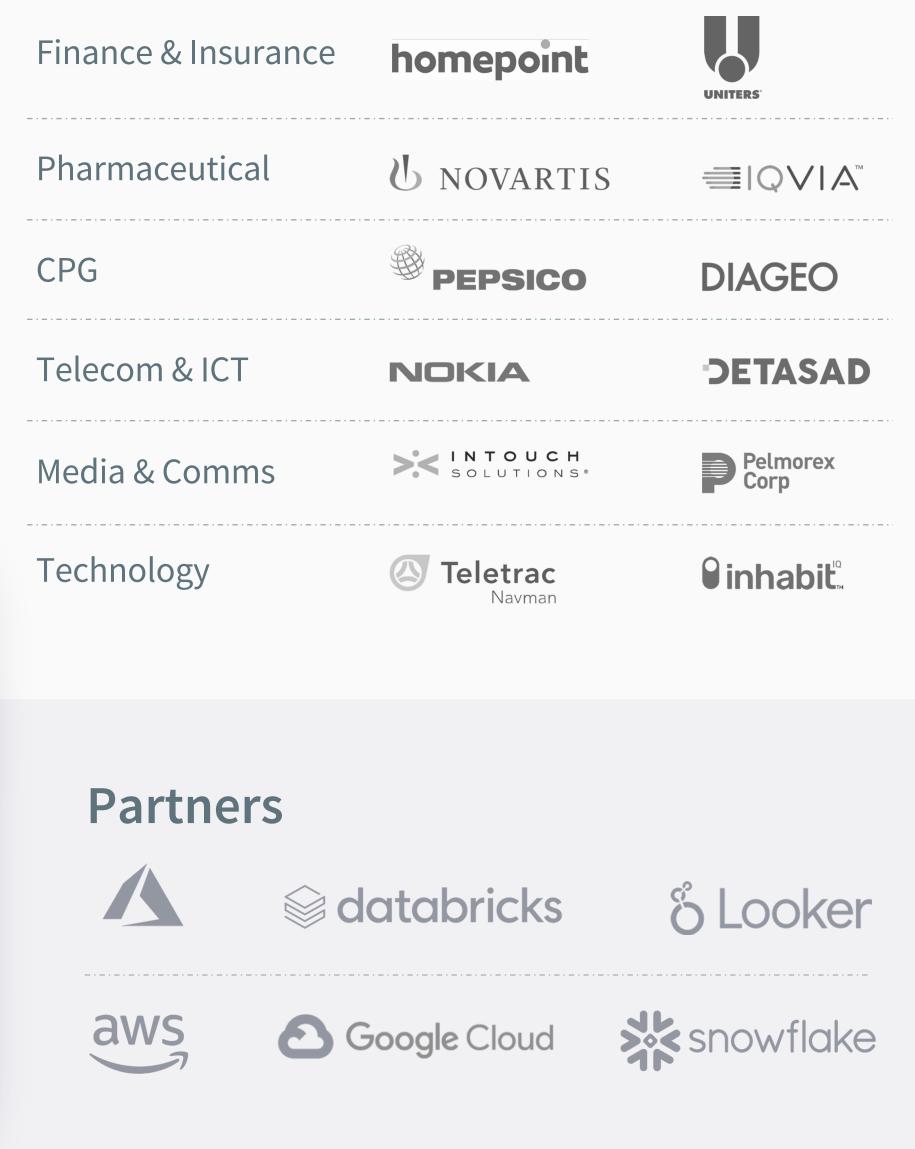


## **Nick Pinero** Director of Solutions Architecture Tellius

# What is Tellius?



# **Trusted by Innovative Global Brands**



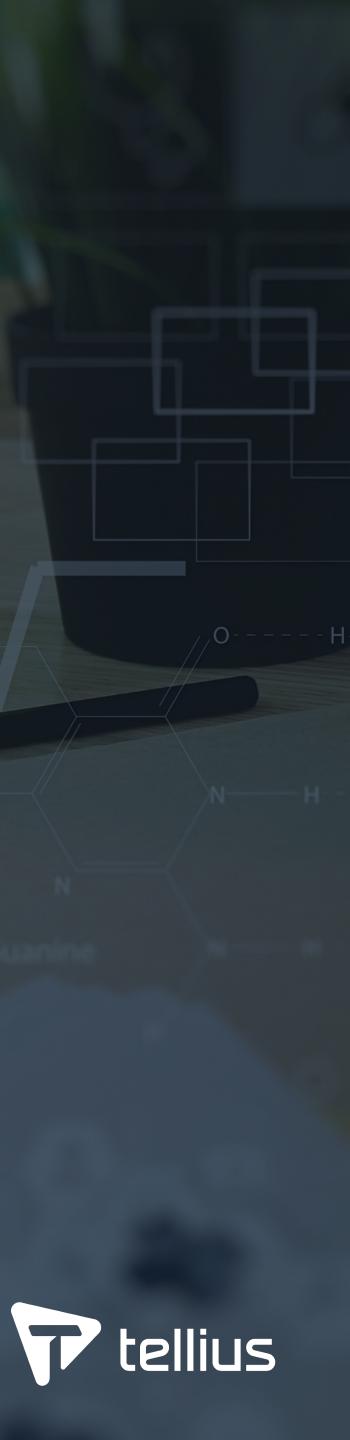
**.**Q:

Why did my revenue change for

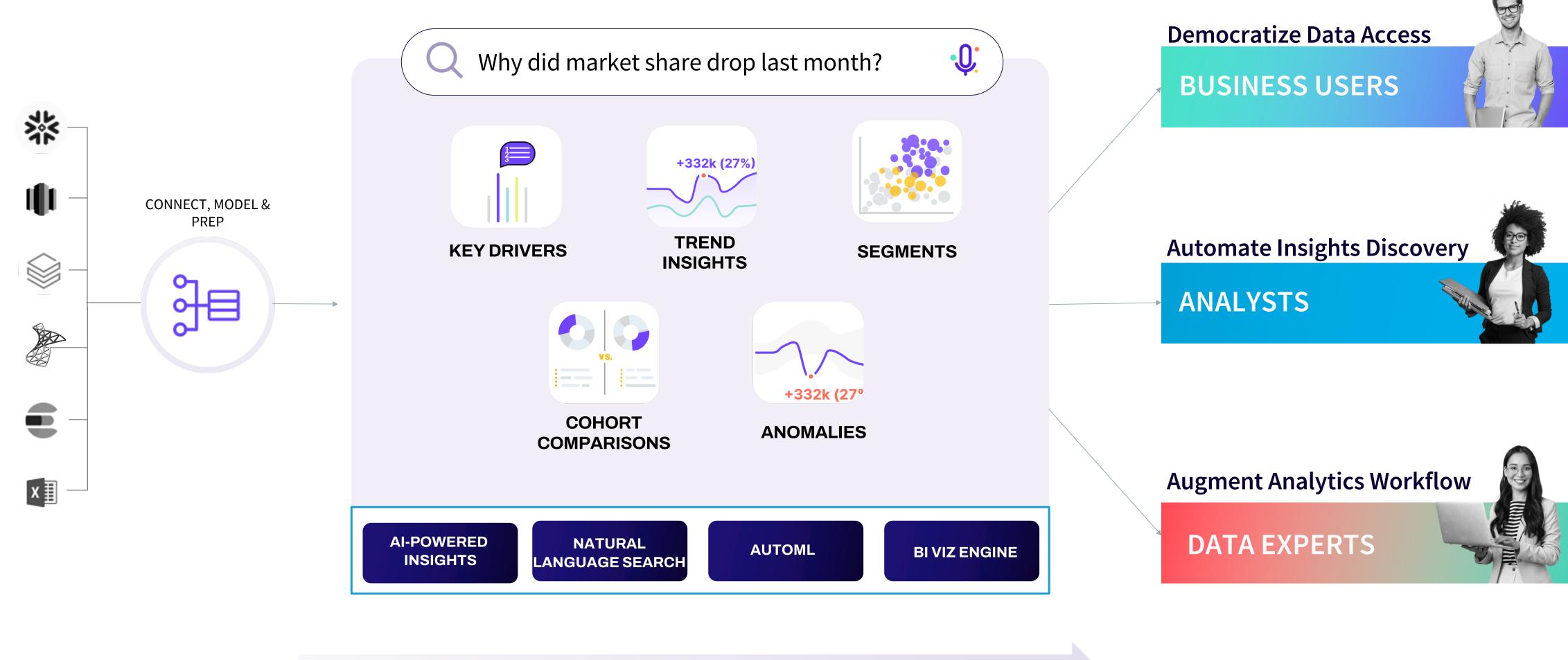
# **Commercial & Brand Performance Insights**

- How has our brand performed against competitors over time?
- Why has market share changed in specific channels & regions?
- How do we direct the sales team to the best opportunities?

# How can AI-Powered Analytics help uncover new opportunities from third-party & internal data?







Go from "What" to "Why" to Actions



# Augment Your Analytics Workflow Seamlessly move from 'What' to 'Why' to 'How' with augmented intelligence

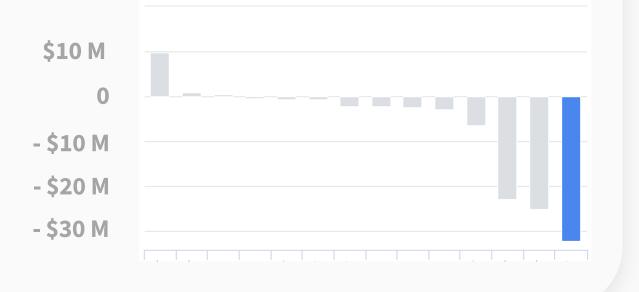
# Why did Entruvica market share in the Northeast drop last month?

### WHAT CHANGED? Significant contributors to changes

## WHY METRICS CHANGED? Root cause analysis

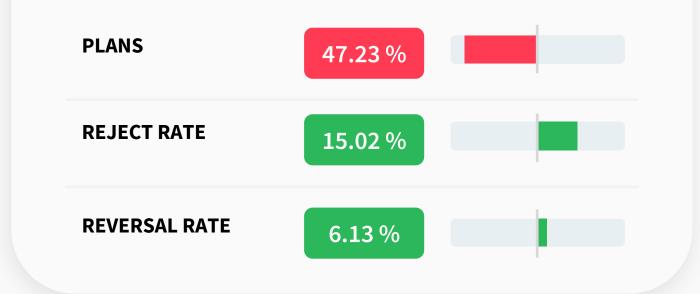
### Sales change contributor details

Market Share in Pennsylvania decreased by 3.23% which impacted 23.85% of the total change.





Change was driven by an overall increase in reject and reversal rates for employee plans and loss in formulary position across Caremark.



## **HOW TO IMPROVE?** Segments to drive outcomes

# **Targeted HCP segments**

Segment S1 13.5 x

Segment S2

Underperformance is 13.5x more likely when HCPs meet these criteria.

69.7%

13.5 x

**STATE** is "Pennsylvania" PLAN TYPE is "Employee" **PLAN TYPE is between 48% and 57%** 

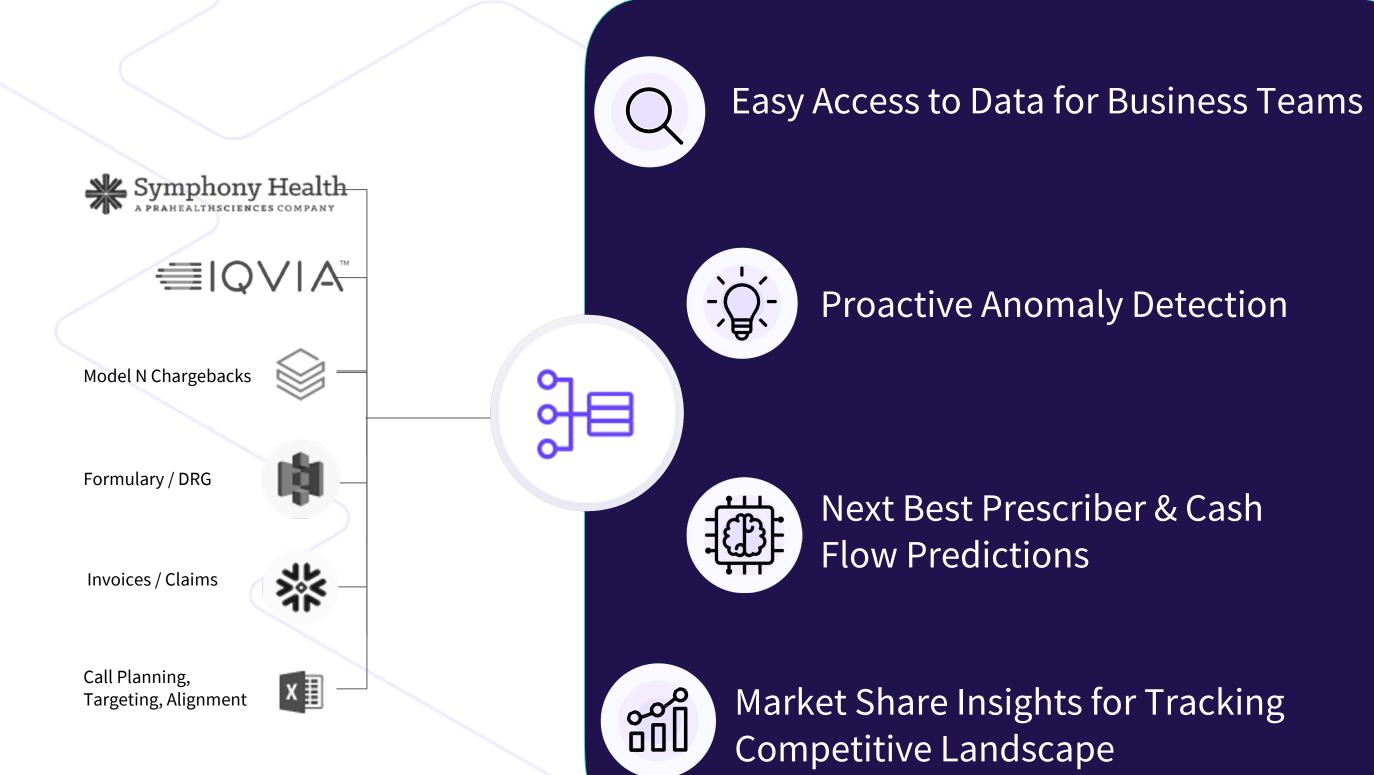
**REJECT RATE** is > 32%

12.3 x

Segment S3 7.9 x

Segment S4 **4.1** x





# **Smart Frameworks for Pharma & Life Sciences**

## **MARKET ACCESS**

**Optimize investment in Market Access and inform pull through s** 

### **REBATE OPERATIONS**

Streamline review and identify millions in rebate savings annua

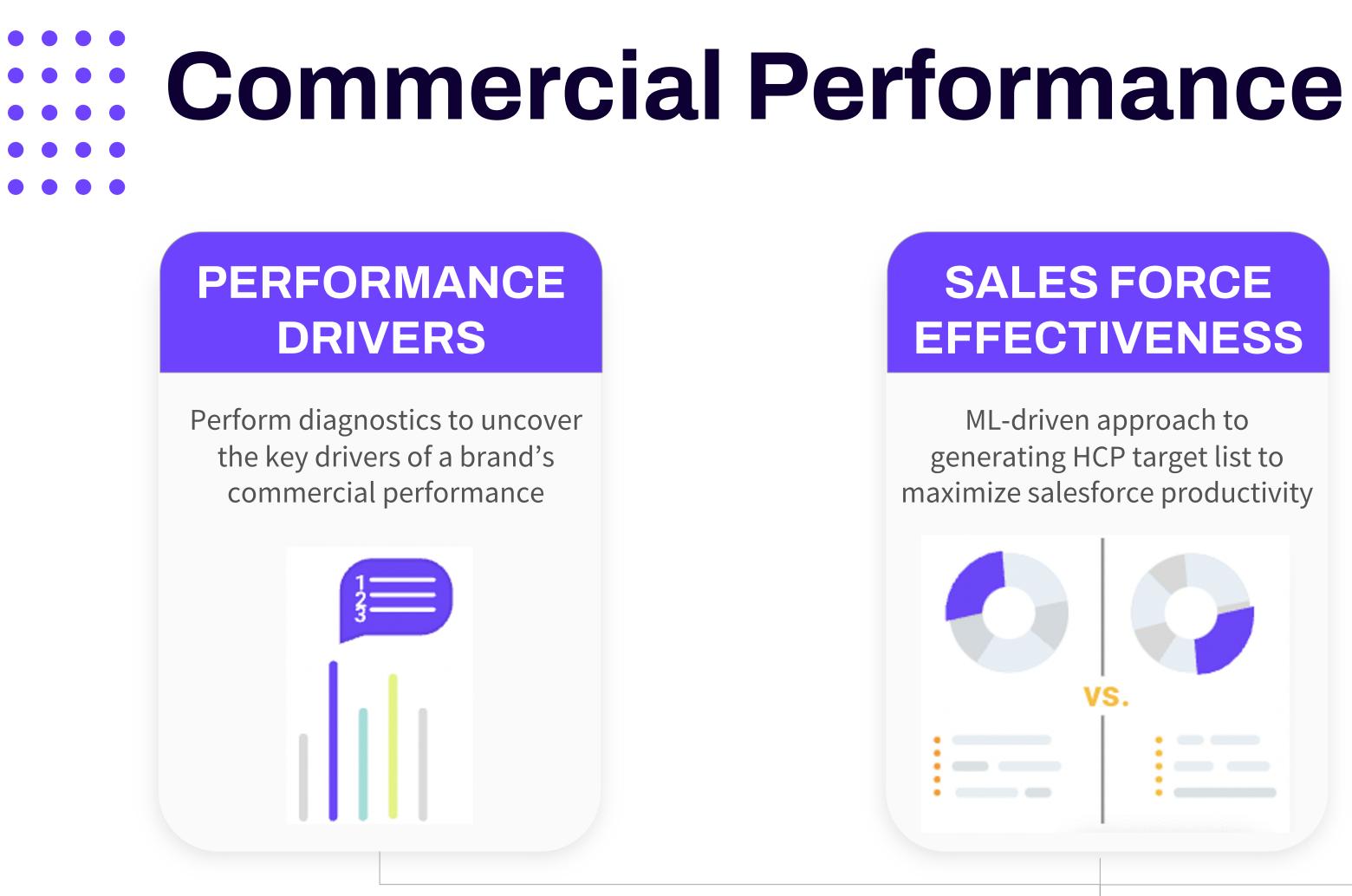
### COMMERCIAL

Identify more growth opportunities and automate brand perfor deep dive

### **SUPPLY CHAIN & QUALITY**

Reduce analysis time significantly and identify bottlenecks in Q Process Cycle

stratogy	
strategy	
- II	
ally	
rmance	
inance	
Quality	
2	



### INTERNAL > Sales Activity/ Calls > Call Planning, Targeting DATA EXTERNAL DATA

Symphony Health

# **SALES FORCE** EFFECTIVENESS

ML-driven approach to generating HCP target list to maximize salesforce productivity

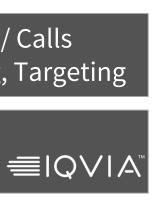
VS.

# **MARKET SHARE INSIGHTS**

Proactively identify trend breaks in market share to enable brand teams to course correct

+332k (27%)





# **Market Access**

# **PREDICT IMPACT OF ACCESS CHANGES**

Inform contract discussions based on leveraging ML to understand impact of access changes across payers

Real-time monitoring into access changes and brand performance

Rolaids Period\_year is 2020

MOTRIN -15.8 Drug ROLAIDS -21.3Drug 2020 Period yea PHARMACIES Sales location



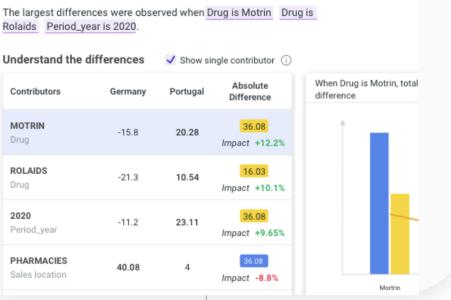


EXTERNAL DATA

Symphony Health

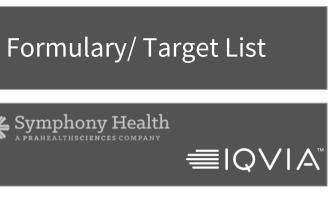
# FORMULARY MONITORING

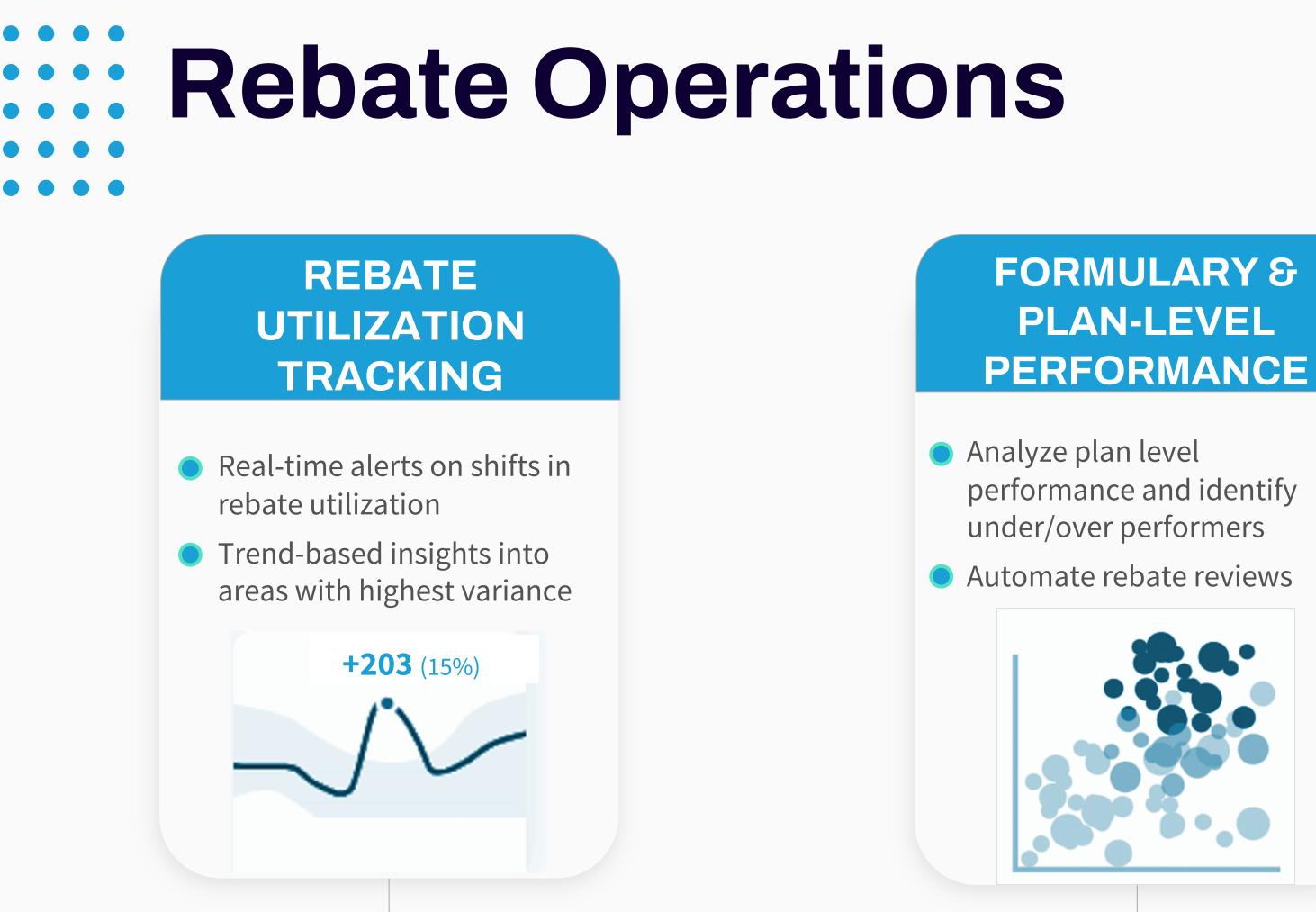
### Compare revenue in Germany and Portugal



# **GENERATE HCP TARGET LIST**

Combine performance and formulary data to identify favorable access segments with growth opportunities







EXTERNAL

DATA

Symphony Health

Claims data

## **REBATE & CASHFLOW** FORECASTING

- Cash flow and submission date predictions
- Real-time alerts into larger than usual resubmission





# **HCP Targeting Case Study**

# Background

Schema: claim-level data that was aggregated to HCP level

Market: US market

Data Sources: behavioural attributes

- 3<sup>rd</sup> Party monthly claims
- Sales Activity / Calls
- Procedures, Diagnoses

Join Key: int/ext sources joined by NPI/HCP ID.

# Challenge

- A rare cancer treatment—recently gained FDA approval.
- Commercializing this multi-million dollar investment is top priority.
- Identifying eligible patients involves manual analysis of 3<sup>rd</sup> party prescription data to generate a list of potential prescribers & patients. Company lacks data scientists on the sales operations side.

# Solution

- Company's Commercial Operations & Analytics team engaged Tellius to augment prescriber identification.
- Integrated/unified Company's disparate data clinical, regulatory, quality, safety, medical, commercial (e.g. Viva Nitro), and 3<sup>rd</sup> party prescription data from IQVIA/ Symphony.
- A target prescriber ML model was built and trained on the unified data to identify top characteristics/segments of writers.

# Impact

- Identified 30% new sales opportunities converting at ~10% (beating McKinsey baseline) resulting in a forecasted **multi-million \$ revenue boost.**
- Enabled commercial teams with **faster and easier creation of prescriber segments** using ML modeling techniques without hiring data scientists and boosted sales efficacy via engagement prioritization.
- **20x faster processing** using scalable in-memory architecture vs. Excel and traditional databases.
- ~98% faster generation of insights 96 hours using Tableau, Excel, Python/R reduced to minutes.
- **4x faster to prep data** for ML and train models as compared to Python/R.



# **Goal: Improve Brand Performance**

WHAT

WHY

HOW

Data exploration/discovery through natural language search Has there been any recovery in market (COVID)? How is brand performing as compared to competitors? Which territories are underperforming?

- lacksquare

Automating discovery of deeper insights Where has competitor's market share increased? ulletWhy is competitor outperforming our brand?

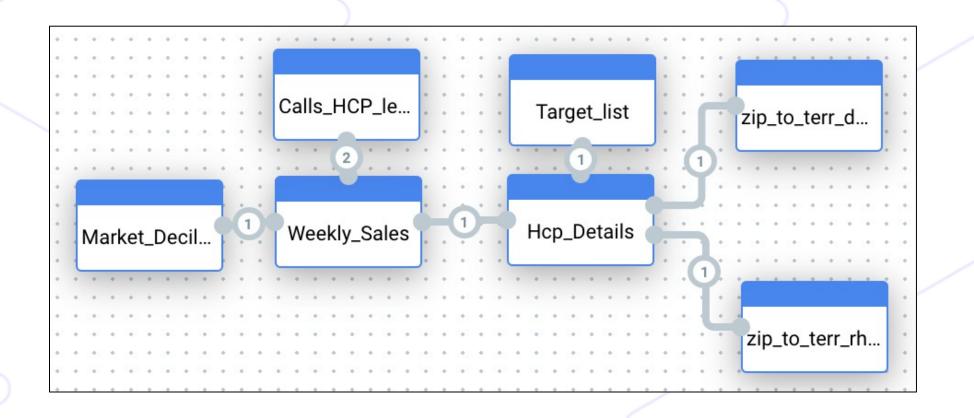
Create a refined targeting list to identify

- Underperforming sales reps
- Areas field should allocate more resources
- Underperforming HCPs w/ high opportunity

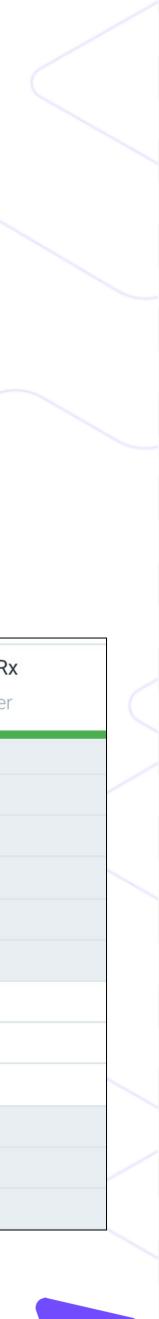


# Live Case Study

- Data:
  - Prescription-level data
- Sources:
  - Internal Data
- 3<sup>rd</sup> Party Data (IMS, Plantrak, APLD, Xponent)
- Attributes:
- Sales Activity / Calls
- Call Planning, Targeting, Alignment
- Prescription activity
- HCP details
- Plan-level info



HCP_ID String	a Product String	a Specialty String	a Indication String	📋 date Date	<b># TRx</b> Integer	# NR: Integer
ID-14613877-E	MYCOBUTIN	RHEUMATOLO	PSA	2020-03-03	0	0
ID-10272729-E	ENTRUVICA	RHEUMATOLO	OTH	2020-06-16	0	0
ID-10272729-E	ENTRUVICA	RHEUMATOLO	ОТН	2020-03-17	0	0
ID-10272729-E	ENTRUVICA	RHEUMATOLO	PSA	2020-06-23	0	0
ID-14613877-E	MYCOBUTIN	RHEUMATOLO	PSA	2020-05-26	0	0
ID-10272729-E	ENTRUVICA	RHEUMATOLO	ОТН	2020-06-23	0	0
ID-10272729-E	ENTRUVICA	RHEUMATOLO	PSA	2020-02-04	2	1
ID-10272729-E	ENTRUVICA	RHEUMATOLO	PSA	2020-03-24	2	2
ID-14613877-E	MYCOBUTIN	RHEUMATOLO	PSA	2020-06-02	1	1
ID-10272729-E	ENTRUVICA	RHEUMATOLO	ОТН	2020-03-24	0	0
ID-10272729-E	ENTRUVICA	RHEUMATOLO	PSA	2020-01-14	0	0
ID-10272729-E	ENTRUVICA	RHEUMATOLO	OTH	2020-02-04	0	0
(						



# Summary

WHAT

WHY

HOW

- ✓ Market recovery post-COVID
- ✓ Market Share increased in largest Derm market
- Low-writing HCPs contributed to growth
- New cluster of growers in Arkansas and Georgia  $\checkmark$
- targeted

Stendra's market share increased among new patient starts

Stendra had significant growth amount in ST and T2 targets

✓ Allocate more resources in targeting ST and T2 writers in Atlanta North and Memphis territories to help capture growth ✓ Incorporate formulary data, ensuring HCPs with high coverage are







