



# Demand Forecasting & Planning

# Introduction to Asper

# Significant value unlocks interconnected autonomous AI

**+10%**

Revenue Growth  
and Financial  
Performance



Break functional silos and  
interconnect demand and supply

**+40%**

Increased  
Productivity



AI first process transformation in  
enterprise decision making

**3X**

Faster time to  
Value



Seamless integration of AI on top  
of current infrastructure and data



# Who we are

Asper is the World's  
only **purpose-built AI** enabling  
**interconnected autonomous**  
**decisions** for CPG, Retail and  
Manufacturing Enterprises

Who we are



# Built at Fractal, world's largest AI company



- World's **largest AI company** with **20+ years** of powering decisions in **100+ Fortune 500 companies** with AI, engineering, and design
- Client first philosophy resulted in **NPS of 75**, on road to deliver **\$1B value** for multiple strategic partners
- Deep expertise in **CPG, Retail and Manufacturing**



Agile scenario planning to manage macro and industry headwinds



Interconnected Autonomous decisions



Committed 5-15% accuracy improvement



AI first business process transformation



100+ leading external indicators curated by domain SMEs



Cloud based SAAS platform, seamless integration

# Interconnected modules focused on revenue growth

Improve SFA  
**5%-10%**

Reduce forecast bias  
**20%-50%**

Dynamic  
Demand AI

Pricing &  
Promotions AI

Improve sales  
**2% - 2.5%**

Improve promo ROI  
**10% - 25%**

Improve margins  
**3% - 5%**

Improve sales by  
**4% - 5%**

Sales &  
Distribution AI

Inventory AI

Improve Fill rates  
**2% - 4%**

Reduce OOS  
**20% - 30%**

Reduce lost sales  
**30% - 50%**

# Dynamic Demand AI

Demand Forecasting at Asper

# Demand Forecasting challenges in categories amplified by external headwinds



**COVID driven  
consumer mobility  
changes**



**Innovation and  
Niche alternatives**



**Channel shifting –  
On vs Off premise**



**Commodity price  
inflation**



**Changing  
Consumption  
Occasions**



**Extreme weather  
events**



**Global supply  
chain disruptions**



**Bigger baskets,  
fewer trips**



**Disposable  
income,  
Consumer  
Confidence**



# Purpose built to solve 8 key pain points in demand planning

## 8 Major Pain points in demand planning

- **Reactive response** due to lack of anticipation
- **Low accuracy** of forecast at granular levels
- **Human bias** in planning and collaboration
- **Manual effort** in managing long-tail
- Inability to **decompose drivers** of demand forecast
- **Slow response time** for changing demand patterns
- Inconsistency in **multi level reconciliation**
- Poor **new product forecasting**

## Purpose built AI platform to solve for these pain points



### Anticipate

Early warning of risks and opportunities  
Focus to drive value and impact



### Quantify & Attribute

Isolate drivers of demand and impact  
Simulate potential scenarios



### Recommend & Collaborate

Prescriptive recommendation from AI  
Track and learn from interventions



### Automate & Integrate

Automation and collaborative workflow  
Connects w inputs and output systems

# Our Solution approach is based on category domain and best-in-class forecasting approach



Dedicated Modules for **Seasonal Forecast and Innovation** products based on product/category features



Leverage the historical trends on **Inventory and orders** to improve accuracy



Separate models for **Short-Term and Long-Term** forecast with different driver features

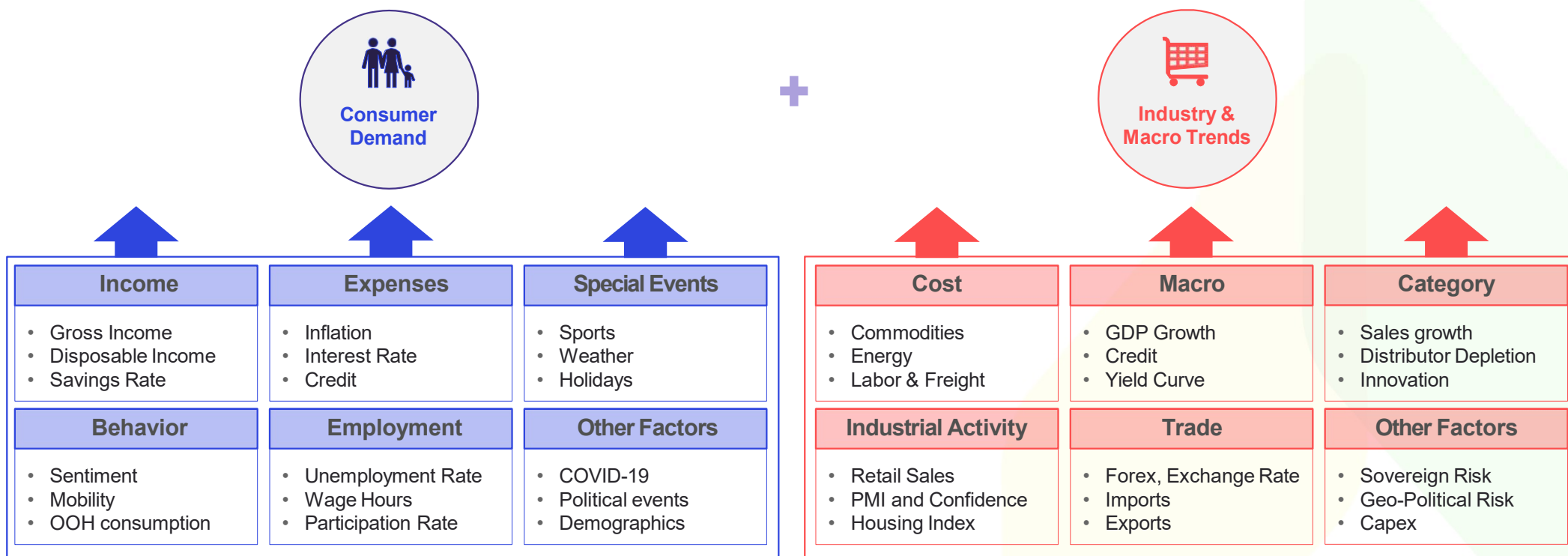


**Category-specific consumer trends**, that could influence behaviour and purchasing habits, alcohol consumptions, etc..



**Internal and external data and drivers** – retail sales, weather, macroeconomic, sporting events, commodity prices etc.

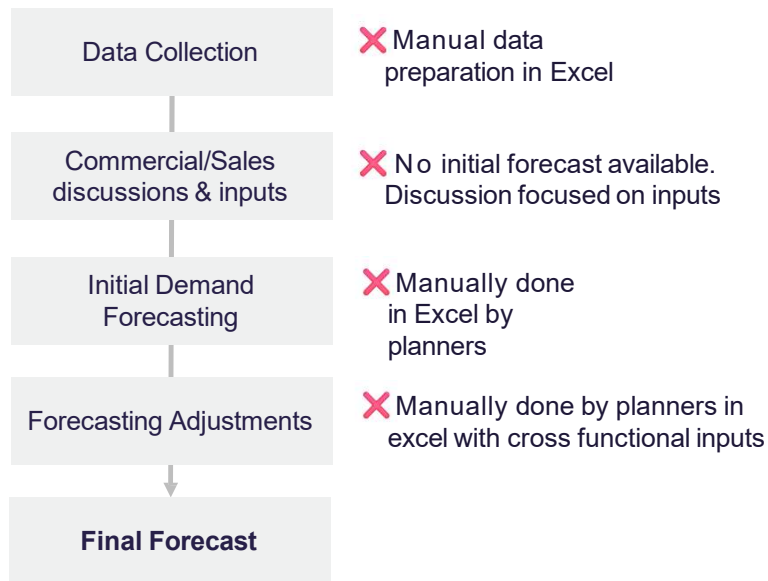
# We use 100+ external indicators to model leading indicators of demand



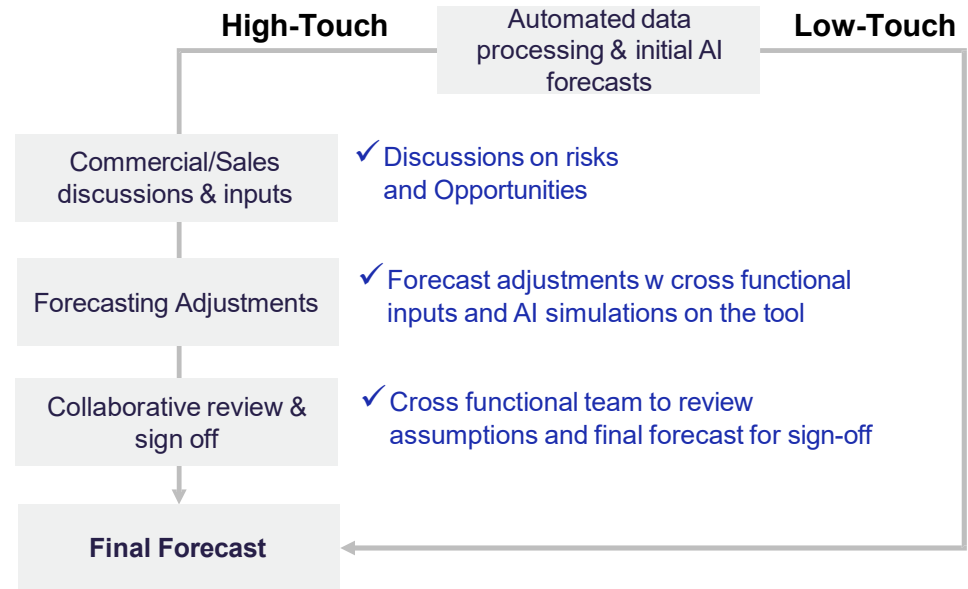
# Building future ready capabilities and process transformation for demand planning

*Illustrative*

## Today



## Tomorrow



# Faster realization of value unlocks

**\$50-100MM**

ACCURACY

PRODUCTIVITY

AGILITY

SPEED



Capture Lost Sales Due to  
Lower Forecasts  
(2-4% of Topline)



Improved Inventory  
Positioning  
(1-2% of Topline)



Lower Inventory Levels  
and Warehousing Cost  
(7-10% Lower Inventory)



Optimized Markdowns  
based on Inventory  
(15-20% Less Investment)

# Success Stories

# Consistently exceeding existing accuracy by 5-10%



**Multinational B2B food processing company**

**6.8%**

Accuracy Improvement on Shipments forecast

**F100 Personal Care Company**

**10-16%**

Accuracy Improvement on 3 month and 5 month forecast

**F100 Multi-Category Consumer Goods Company**

**5-22%**

Accuracy Improvement on High volume and long tail for primary sales forecasts

**F100 Consumer Electronics Company**

**12%**

Device activation accuracy improvement

**F100 Snacks Manufacturer**

**6%**

Accuracy Improvement on quantity sold

# Digitized demand planning process for a \$5B food processing company



Leading Snacking,  
Beverage, Meal  
Preparation Customer

**\$4.5B**  
Revenue

**11K** SKUs  
**32** Categories

## Key business challenges

- Low Forecast Accuracy
- Heavy manual adjustments
- Lack of bandwidth to review entire portfolio
- Incomplete understanding of drivers



## Year 2

- 10+ppt improvement in Forecast accuracy
- 25-40% No touch forecast automation



## Year 1

- Consistently improved 5-7ppt Forecast accuracy



## 12 Week Full implementation

- Scaled to all 32 Categories and 11K SKUs



## 8 Week POV on select categories

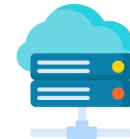
- Beat existing accuracy by 5+ ppt

## Business Impact



**\$39.4M** value unlock

- +1% Annual revenue growth
- +8% Savings on inventory holding cost
- +8% Less working capital on inventory



**\$150k** less infra cost

Storage and Computing on Cloud etc.



**25%** Freed up people time

Repurpose freed up bandwidth to focus on high value opportunities





# Thank you

Reach out to us at [contact@asper.ai](mailto:contact@asper.ai)