

# ENGN-F1

India's First Optimization Engine

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PRE-SEED FUND RAISE

17TH MAY, 2025



# **AI + Quantum Algorithm *powered Engine***

**Multiparametric basis result**

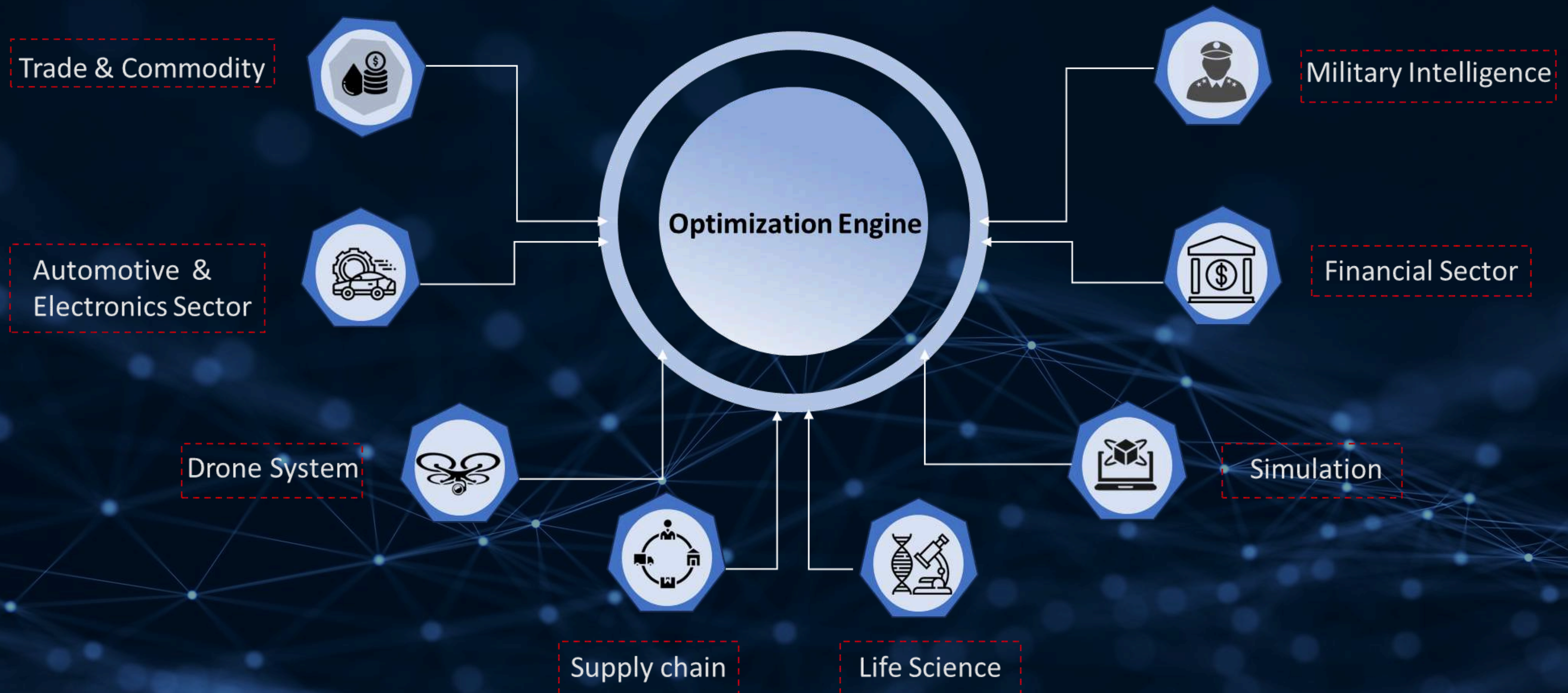
**Robust and scalable algorithm that leads to granular level  
result validation**

***Impact :***

***Irrespective of sector or business kind, our focus is to develop an engine that can cater to or fix any issue.***

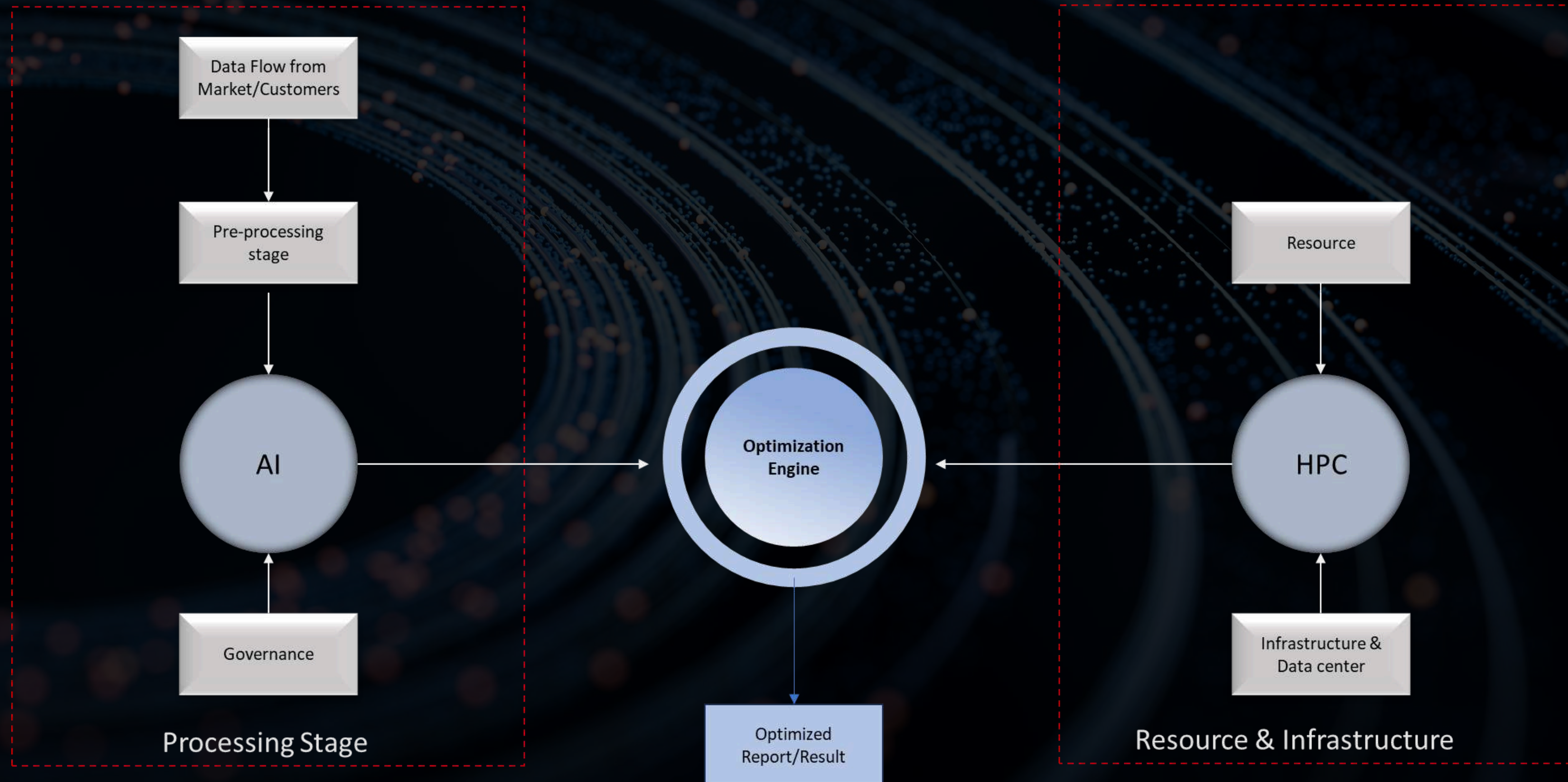


## SECTORS WHERE THE OPTIMIZATION ENGINE DELIVERS DYNAMIC AND ENHANCED RESULTS





## MEET THE STAR OF THE SHOW AN END-TO-END OPTIMIZATION WORKFLOW





# India's First Optimization Engine powered Last Mile Logistics Framework

Optimization of Last Mile Logistics with Respect to Time and Cost

Optimization of workforce management and routes.

## ***Impact***

***Enhanced order volume and frequency are driving growth in the market segment with an average order value ranging from Rs 5 to Rs 1000.***

## FIRST USE CASE: LAST MILE LOGISTICS WITH THREE LEVELS OF OPTIMIZATION



### Base Model

Only a **single delivery** partner will be assigned to handle the parcel.

Package routing optimisation methodology is followed over the circumference, instead of shortest path format.

- Premium and Fastest
- 10 minutes Delivery
- Best for High Value products.

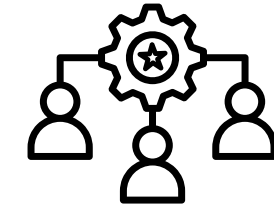


### Smart Model

**Multiple partners** will be assigned to handle the parcel.

AI enabled clustering module. Quantum computers solving clustering parameters and formats. Parallel computing leadsto higher processing points with aggregation.

- Part-Time Gig Partners
- New category in the market



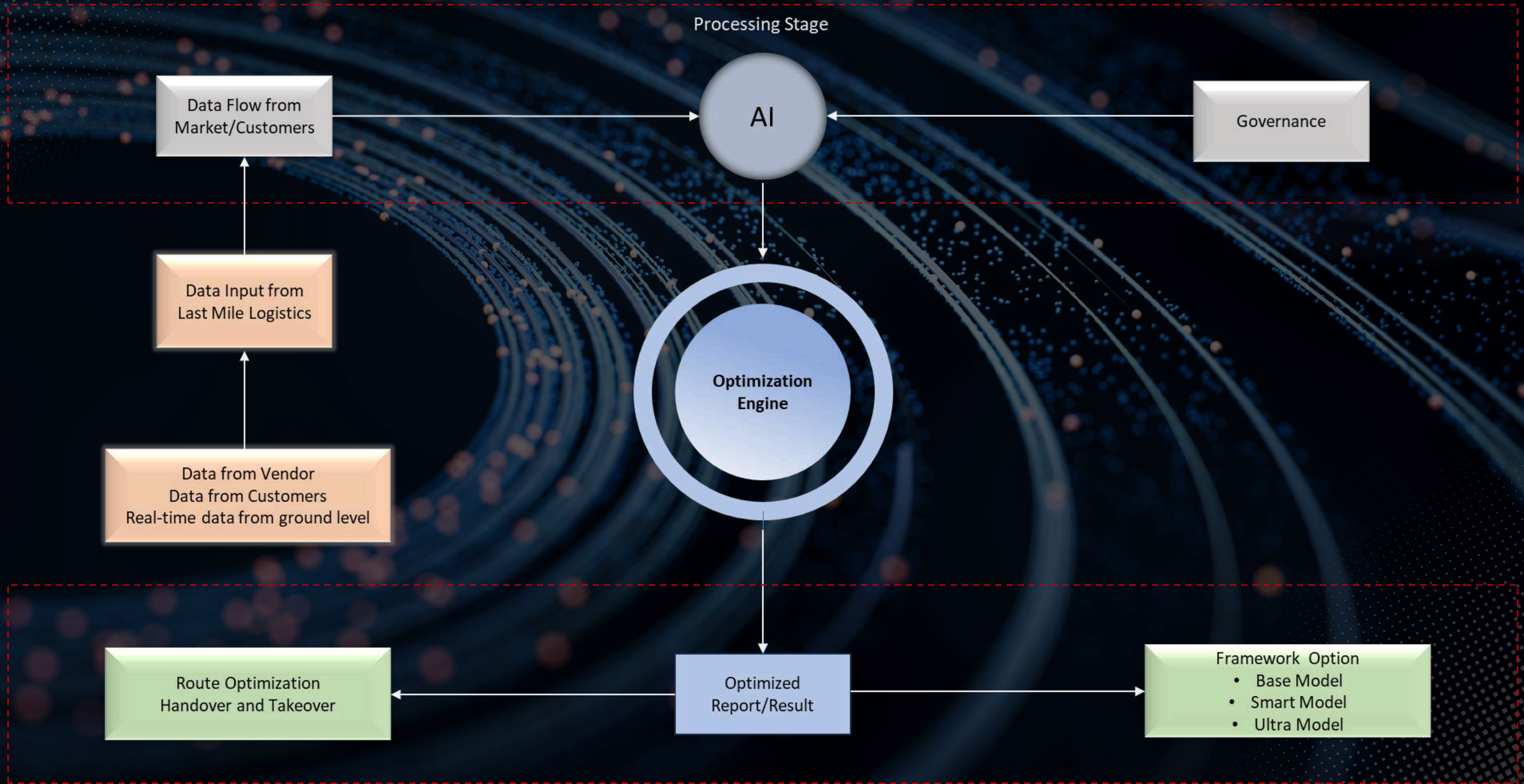
### Ultra Model

A new category where **system is incharge of choosing a complete flow**

- Paying the system to decide Paying the system to decide and optimize. No person is involved.
- Quantum-AI with AI agents will support this from decision making to on ground execution.



# PROCESSING FRAMEWORK FOR LAST-MILE LOGISTICS USE CASE





## HOW LAST MILE OPTIMIZATION DRIVES REVENUE GROWTH AND HEALTHY MARGINS

Model	Type of Delivery Partners	Average order Value	Driver cost per order	Profit per order	Gross Profit Percentage
Base	Full-Time	Rs 100	Rs 50	Rs 50	<b>50%</b>
Smart	Gig	Rs 60	Rs 57	Rs 3	<b>5%</b>
Ultra	Full-time + Gig	Rs 20	Rs 0	RS 20	<b>100%</b>

### Base Model

A Driver Salary is Rs 20000 including fuel

Approx 400 orders in a month

Driver Cost per order is  
Rs 20000/400 = Rs 50

### Smart Model

Driver Cost Per order Rs 57

### Ultra Model

No Driver Cost

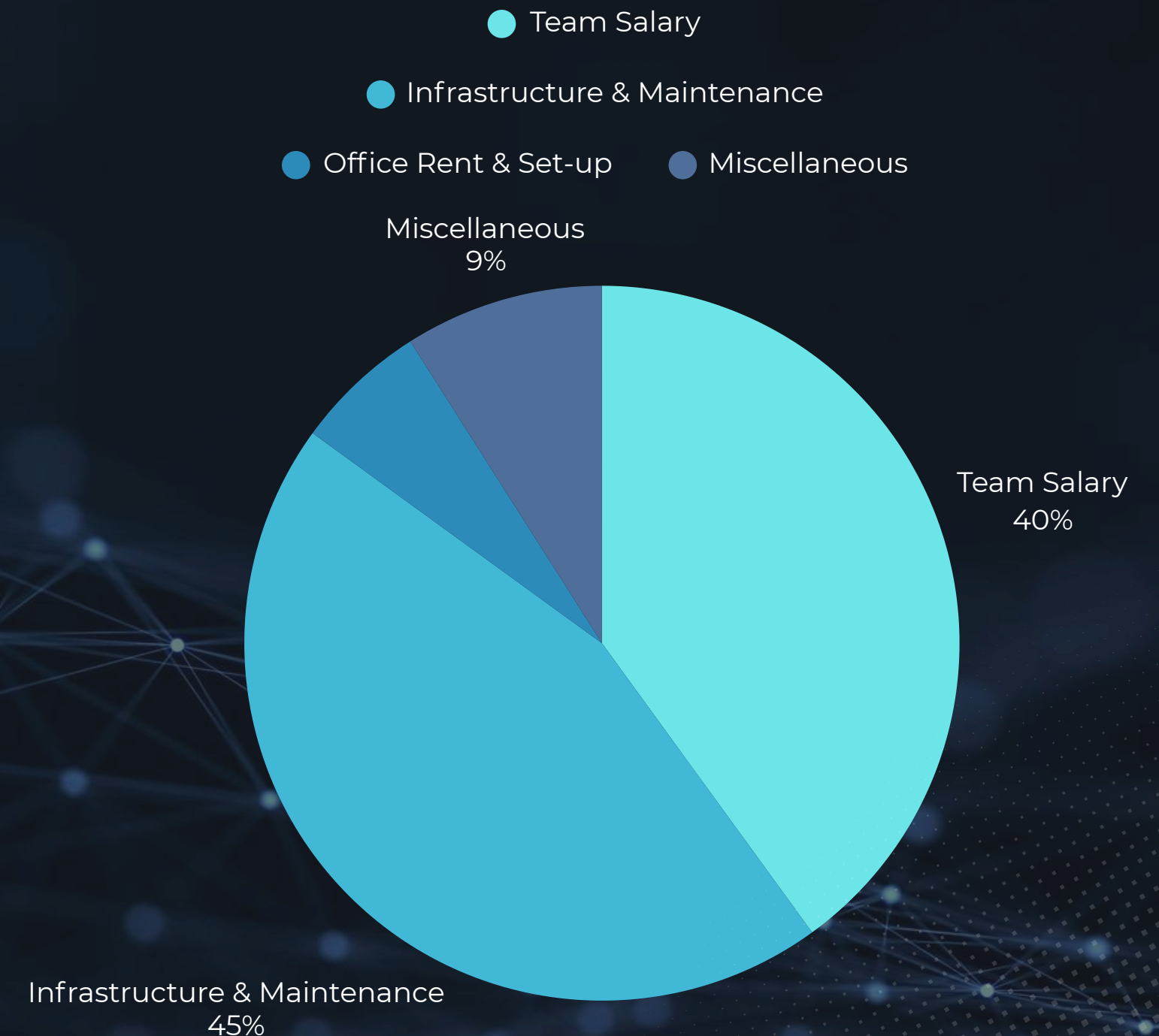


## FUND REQUIREMENT AND UTILIZATION PLAN

**We are seeking to raise  
₹1.5 Crore to support**

- **Product Development**
- **Core Team Building**

**This investment will enable us to accelerate growth  
and deliver a robust, market-ready solution.**



**Fund Utilization**



# MEET THE MINDS BEHIND “ THE LOGISTICS LAB “ EMPOWERED BY A COMPLIMENTARY TEAM

**ENGN-F1**



**Sarthak Chakraborty,**  
*Co-founder*

**Quantum Engineer, Capgemini**

**PGT in Quantum Technology,  
University of Glasgow**



**Vanguard**



**Arnab Das,**  
*Co-founder*

**Consultant, Infosys**

**MBA in Marketing and Finance,  
Management Development Institute**

**Comes from a business family with a  
background in the logistics industry.**



**Infosys**



**Jaydeep Parmar,**  
*Advisor*

**Chief Manager - Strategic  
Initiatives, MCPI Private Limited**

**PGDM in Supply Chain Management,  
IIM Calcutta**





## CONTACT DETAILS

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# THANK YOU

**Everyone's playing checkers in a firestorm. We built the chess engine.**