



# Project: Dedicated Optical Fibre & CCTV Network for Process Monitoring

SAIL IISCO Steel Plant (ISP), Burnpur

**Executed by: DG MICROPRONIX PVT. LTD.**

**30 Years of Engineering Excellence.**

**500+**

IP Cameras

**120km+**

Fiber Optic  
Backbone

**10Gbps**

Ring Network

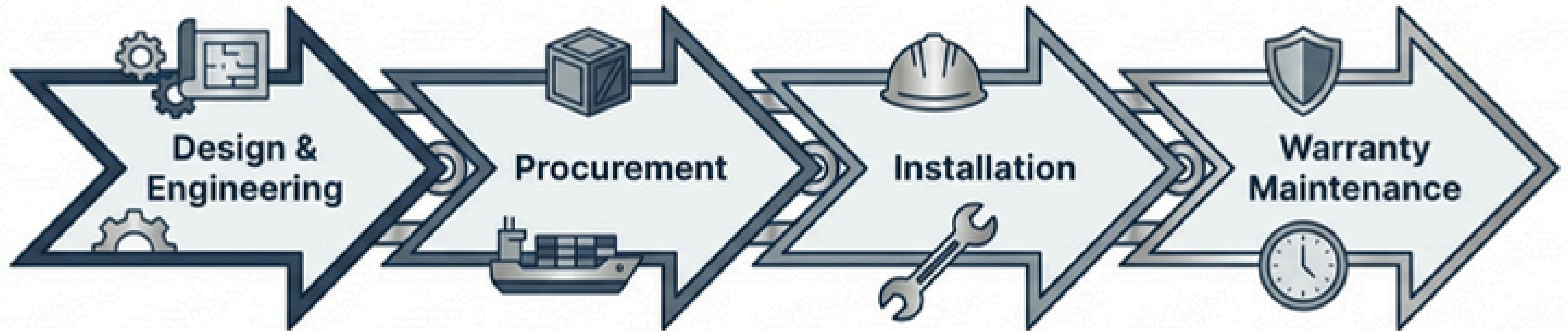
**75+**

Control  
Rooms



# End-to-End Turnkey Execution

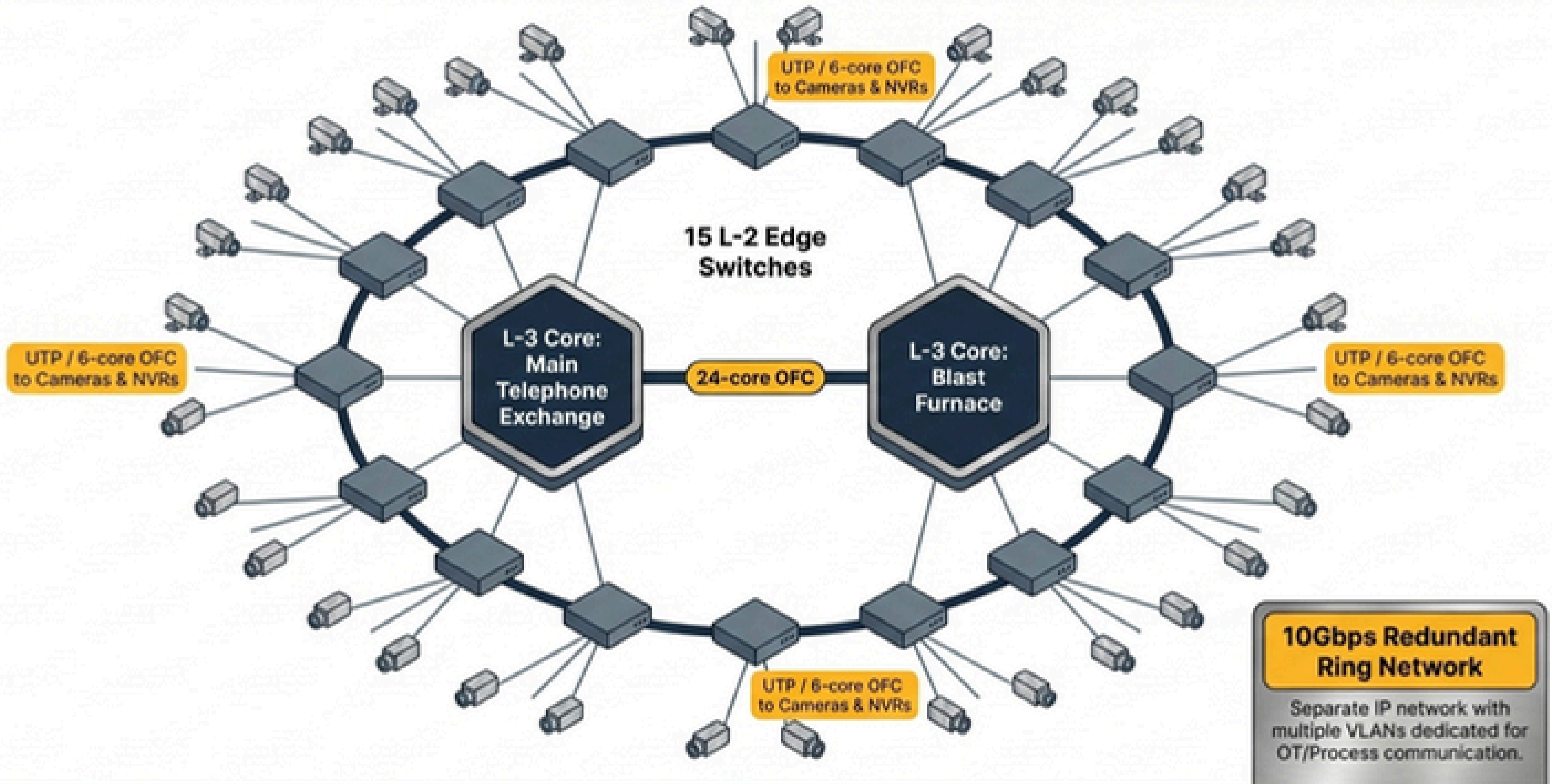
Comprehensive project delivery from engineering to 3-year warranty maintenance



## Zero Interruption

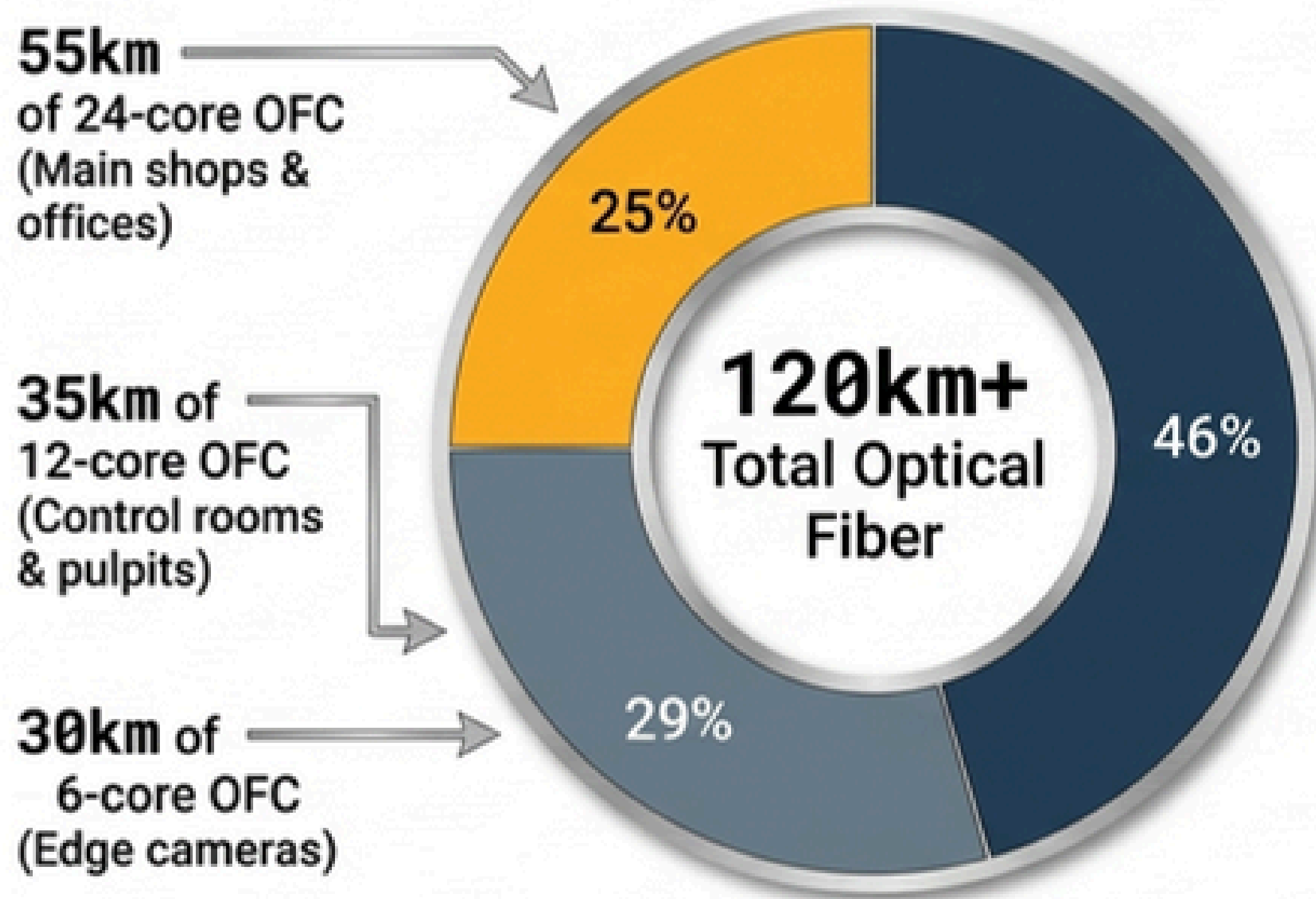
15-month implementation schedule executed entirely without disrupting normal plant operations.

# The Network Blueprint





# The Physical Footprint



**55km**  
of 24-core OFC  
(Main shops &  
offices)

**35km** of  
12-core OFC  
(Control rooms  
& pulpits)

**30km** of  
6-core OFC  
(Edge cameras)



**20km UTP Cabling  
& 50 Wi-Fi Access  
Points for IT/OT  
integration**



**Housed in HDPE/GI  
pipes, utilizing  
existing plant pole  
structures**



# Surveillance Asset Fleet



**350x 4MP IP  
Bullet Cameras**

For general process  
monitoring.



**150x 4MP IP  
Dome PTZ Cameras**

For active tracking and  
30x optical surveillance.

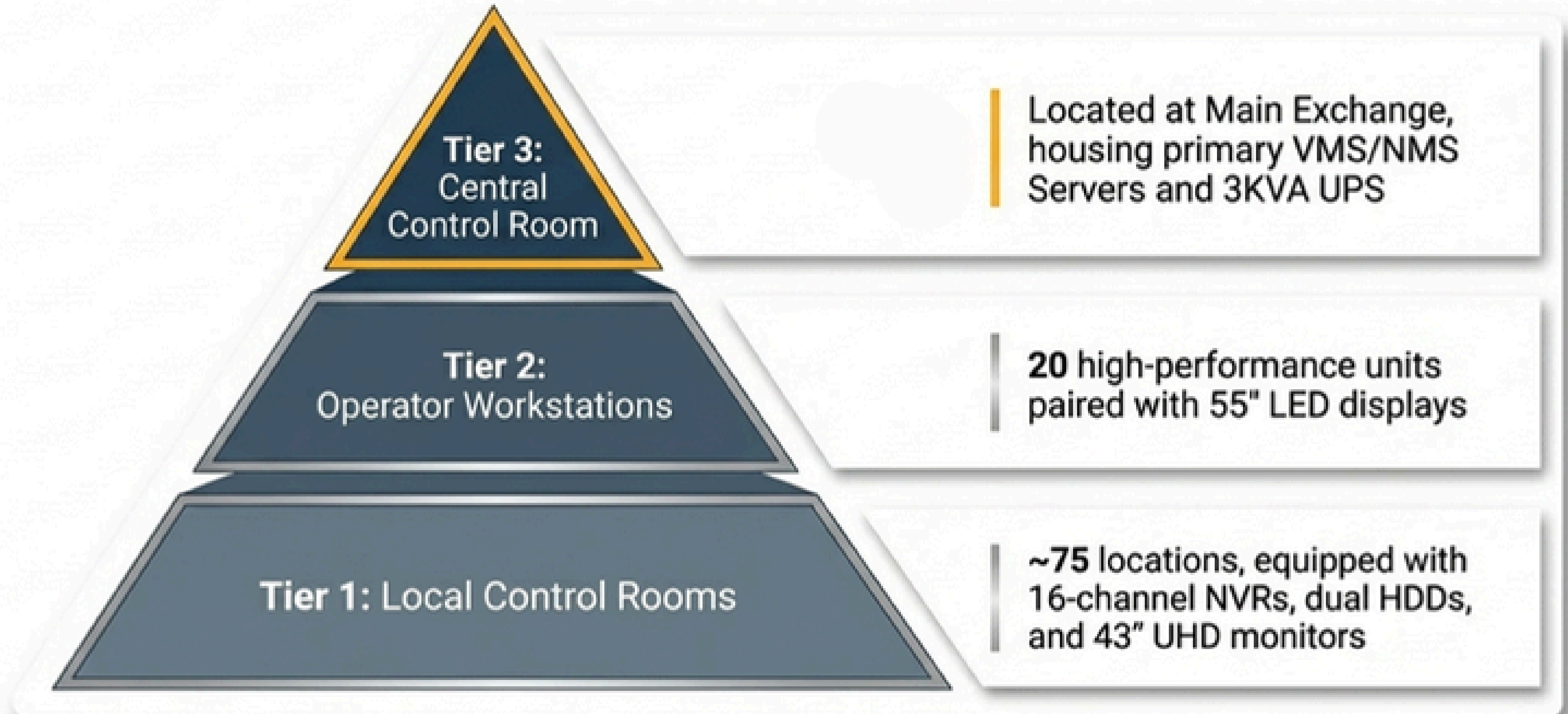


**20x ANPR  
Cameras**

For logistics tracking at  
gates and weighbridges.



# Command & Control Tiers

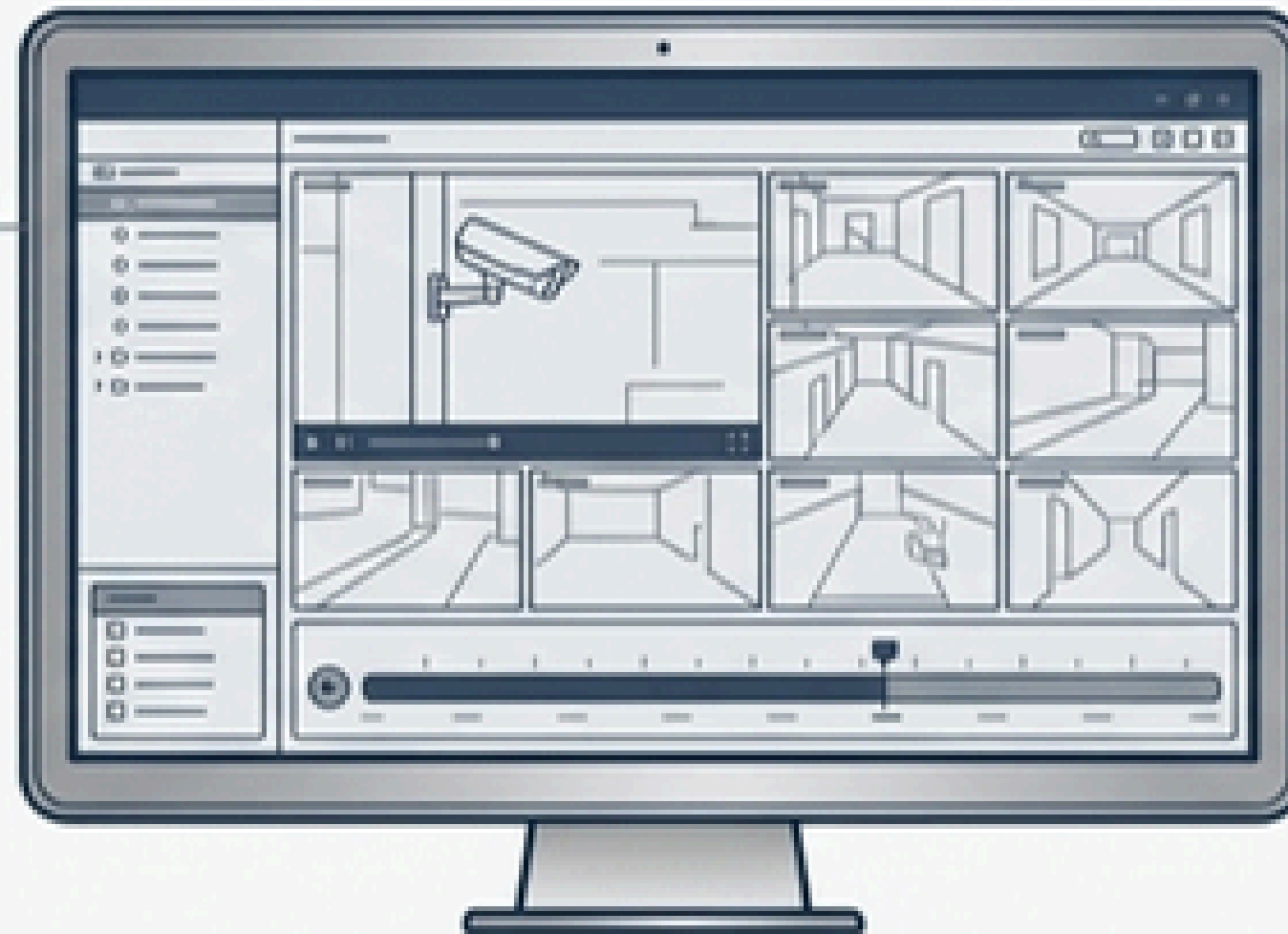




# Video Management System (VMS)

## Scale

Supports 500+ cameras and 20 simultaneous clients.



## Intelligence

Multi-stream H.265 encoding, multi-level interactive site maps, motion detection, and virtual PTZ.

## Flexibility

Custom user layouts and post-facto analysis tools.



# Network Management System (NMS)

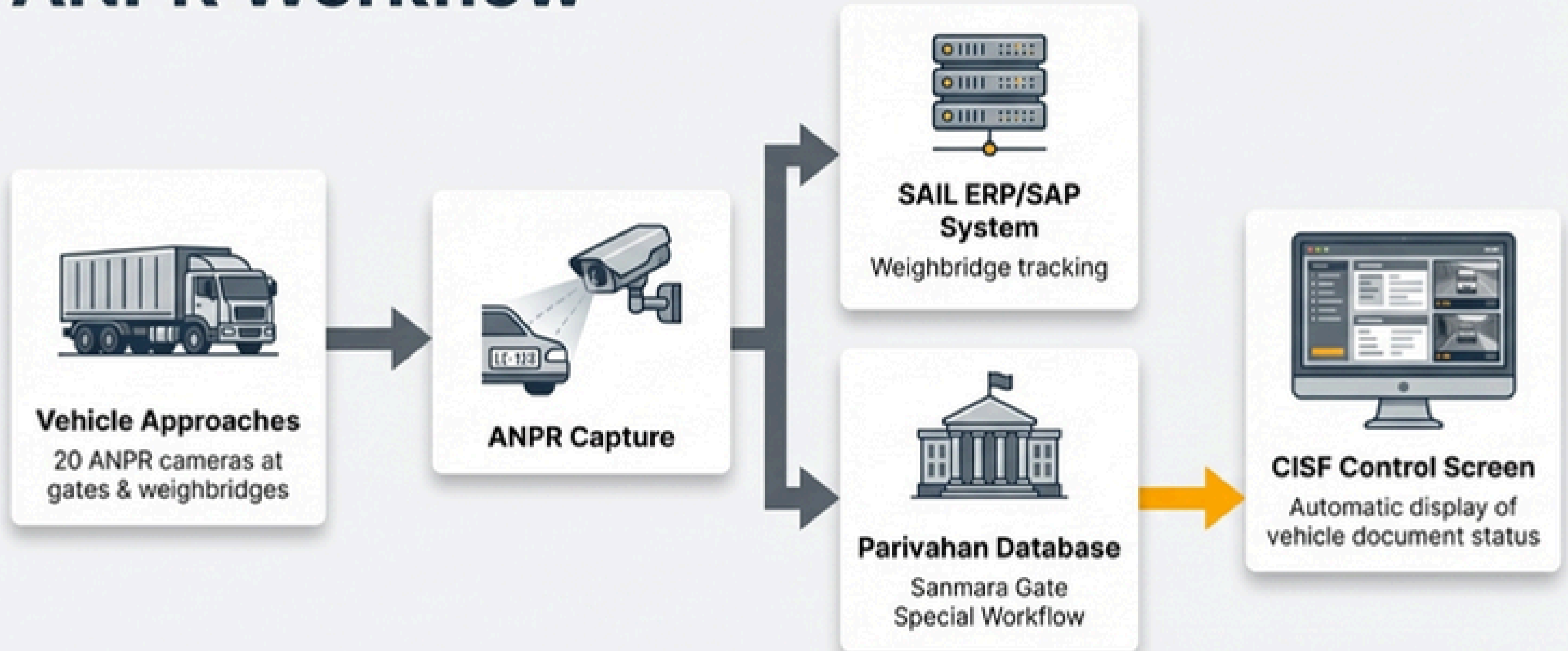
Centralized IT Infrastructure Deployment for up to 500 devices.



**Core Capabilities:** Auto-topology discovery, flow-based traffic analysis (Netflow/sFlow), and anomaly detection to prevent alert flooding.



# Logistics Intelligence: ANPR Workflow





# SLA & Performance Guarantee



**3-Year Comprehensive Warranty:**  
Round-the-clock (24x7x365)  
coverage for all hardware, software,  
and cabling.



**Complete Protection:** Includes free  
defective hardware replacement  
and coverage for lightning/voltage  
surge damage.



**Performance Guarantee:**  
Monitored target calculated  
strictly on a monthly and  
quarterly basis.

