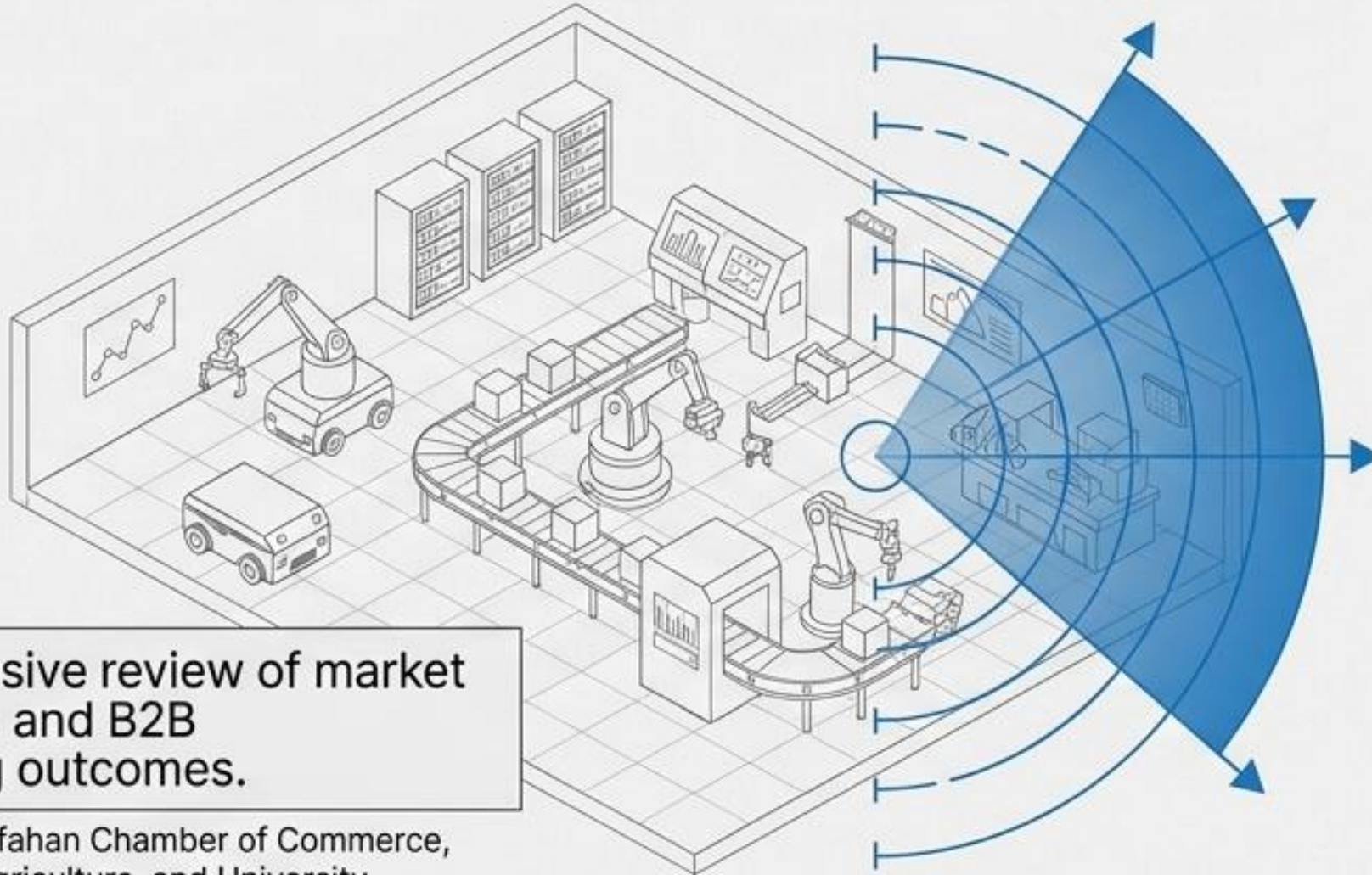


Industry Innovation Radar

Connecting Technology Capabilities
with Strategic Market Needs



A comprehensive review of market opportunities and B2B matchmaking outcomes.

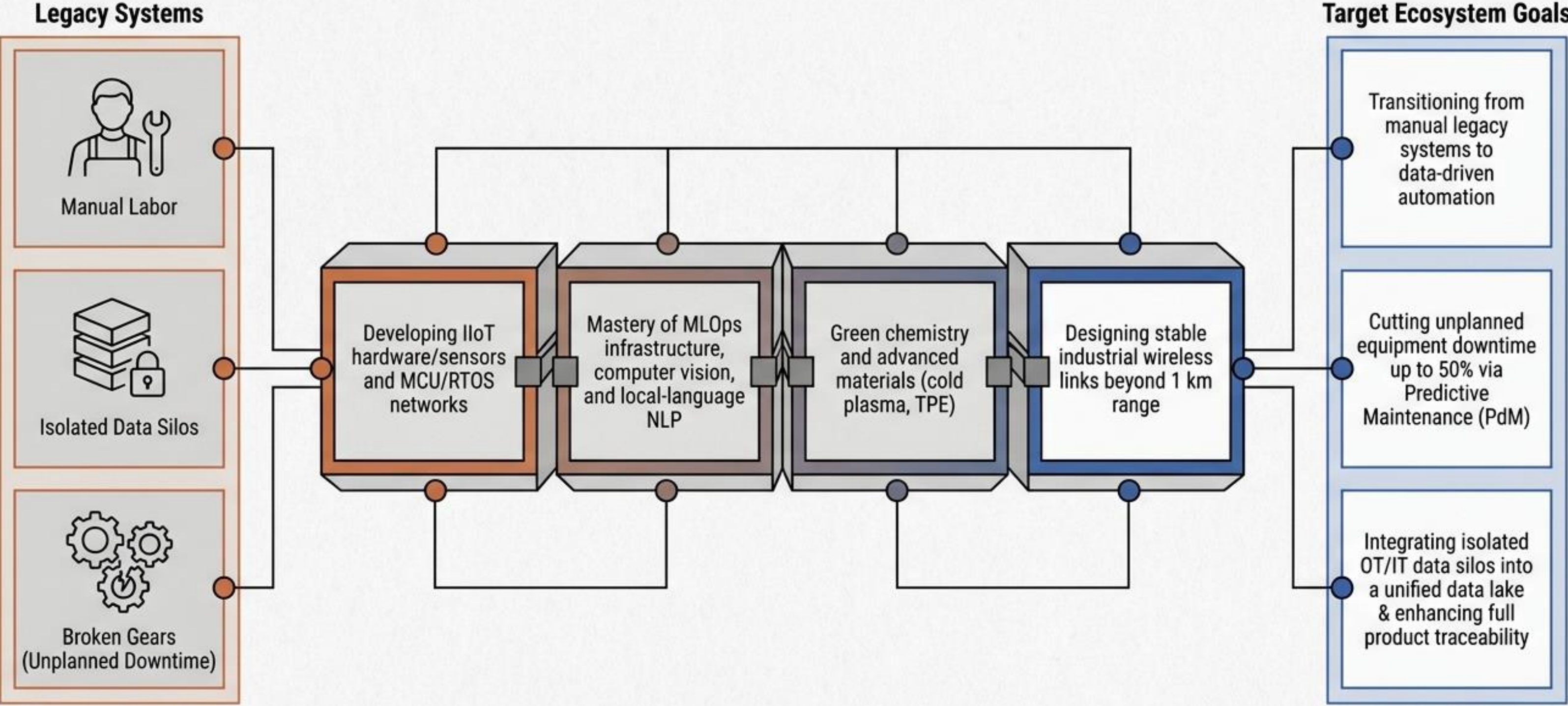
Innovation House – Isfahan Chamber of Commerce, Industries, Mines & Agriculture, and University.

CONTACT &
RESOURCES

SCAN TO CONNECT



Macro Framework: Addressing Industries' Fundamental Challenges



Agriculture & Food: Productivity & Supply-Chain Smart Manufacturing



Mechanized Harvesting & Packaging

Need: Developing mechanized harvesting equipment (e.g., for Damask rose) and modern food-packaging solutions.



Technology needed: Expertise in mechatronics, agricultural robotics, and precision mechanical-mechanism design.



Supply Chain Traceability (Tracking)

Need: Creating a digital ID for livestock from birth through processing and sale, for full transparency.



Technology needed: Mastery of RFID technologies, QR codes, and low-power IoT tracking systems.



Livestock Health & Behavior Monitoring

Need: Online biosensors for early disease detection and optimal-window estrus detection in livestock.



Technology needed: Low-power wearable biosensors and smart algorithms for livestock data processing.

Logistics & Warehousing: Smart Layout Management & Cold-Chain Control



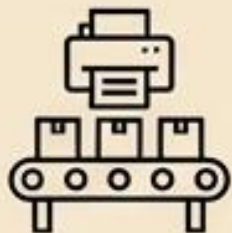
Smart Vertical-Layout Warehousing

Need: Controlling vertical stacking, weight distribution, and FEFO-based outbound flow due to limited floor space.



Technology needed

RFID systems, QR codes, digital product IDs, and Warehouse Management Software (WMS).



Automatic Date & Line-ID Printers

Need: Automatically printing date, ID, and barcode on metallized sheets on high-speed lines.



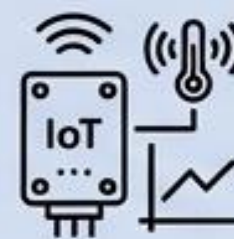
Technology needed

Product-detection sensors, industrial inkjet printers, and real-time controllers.



Cross-Border Cold-Chain Monitoring

Need: Continuous temperature/humidity monitoring of sensitive import/export shipments end-to-end.

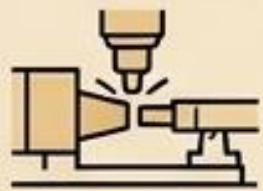


Technology needed

Thermoelectric modules, low-power IoT online monitoring, and real-time data transmission.

Production-Line & Parts Automation: Localization & Quality Improvement

Extending Die Life & Eliminating Polluting Solvents



Need: Extending life of aluminum-extrusion dies (>20 tons) and replacing gasoline in pipe-expansion.



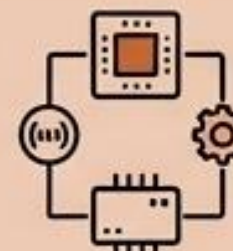
Technology needed: Plasma-hood (cold plasma) technology and water-based, non-petroleum degreasing formulations.



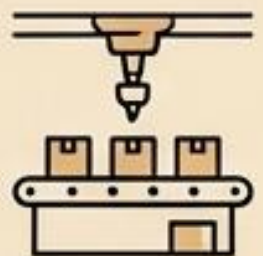
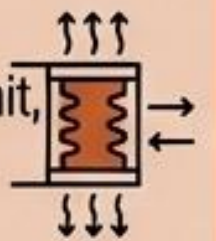
Compressor Localization & Refrigerator Monitoring



Need: Domestic production of fixed-speed compressors, multi-point temperature control, and smart defrosting.



Technology needed: MCU/RTOS central control unit, hybrid Peltier systems, and Adaptive PID algorithms.



Polymer Line Automation

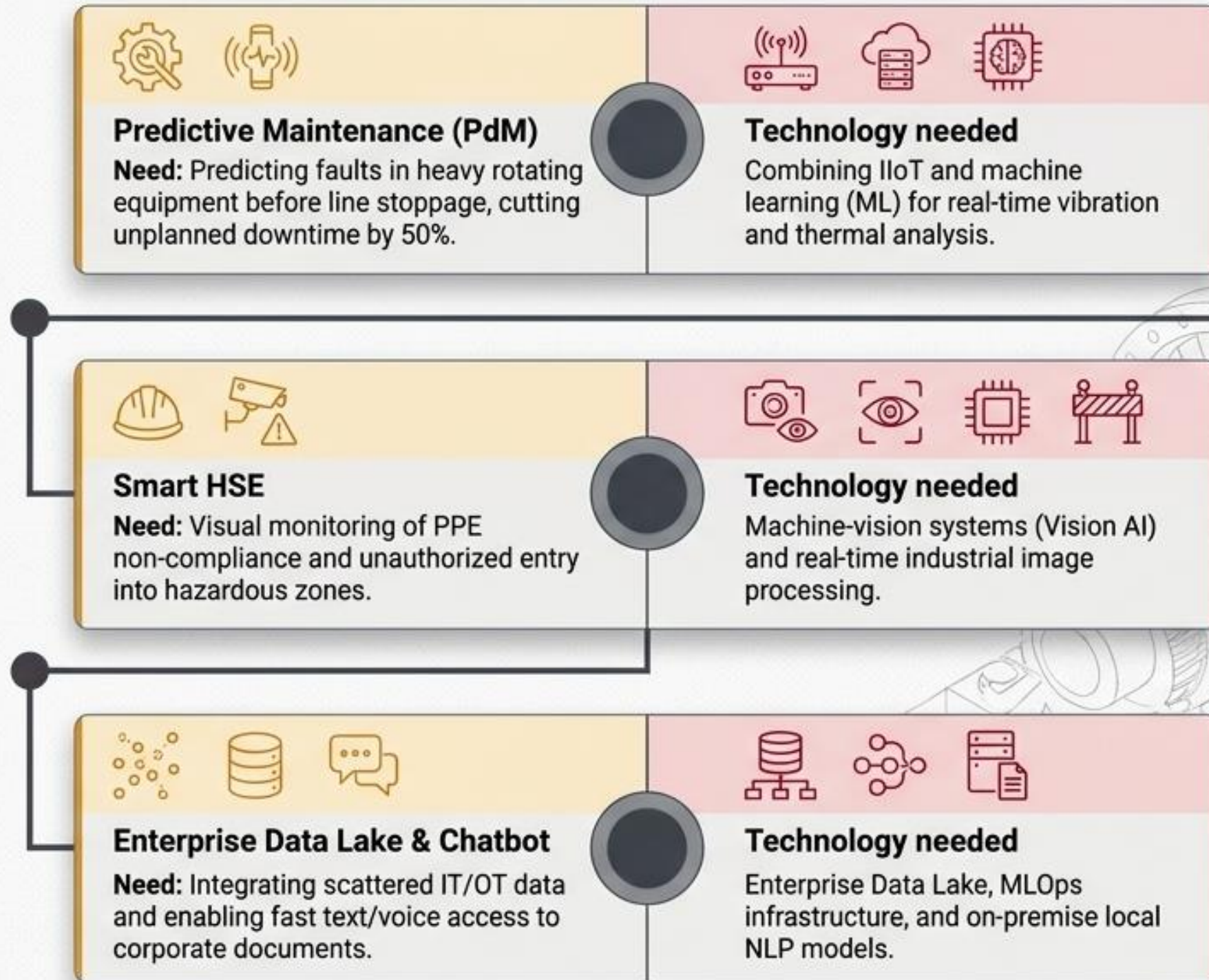
Need: Reducing manual labor, addressing worker shortages, and improving safety and production speed.



Technology needed: Industrial robotic automation, PLC/DCS control systems, and safety sensors.

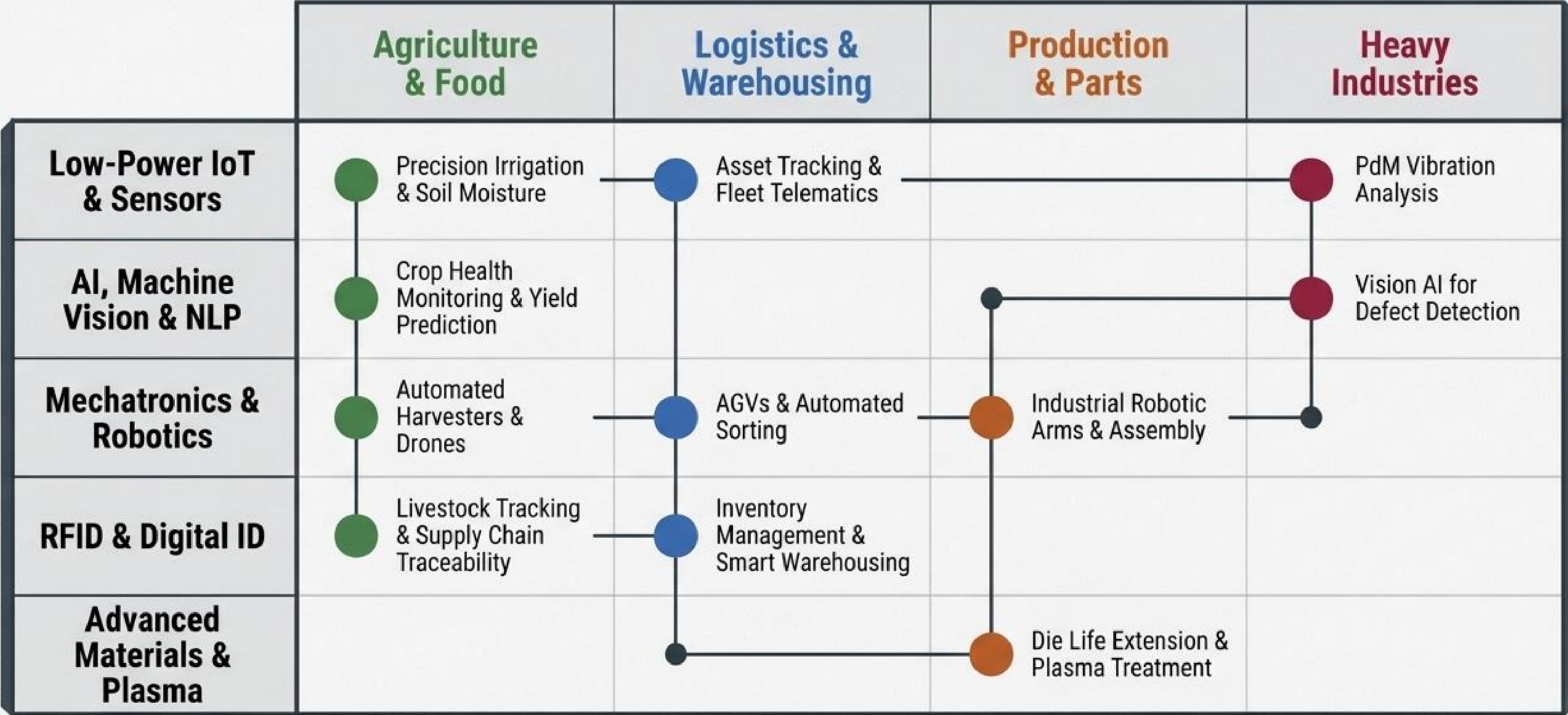


Heavy Industries (Steel & Mining): AI and Predictive Maintenance

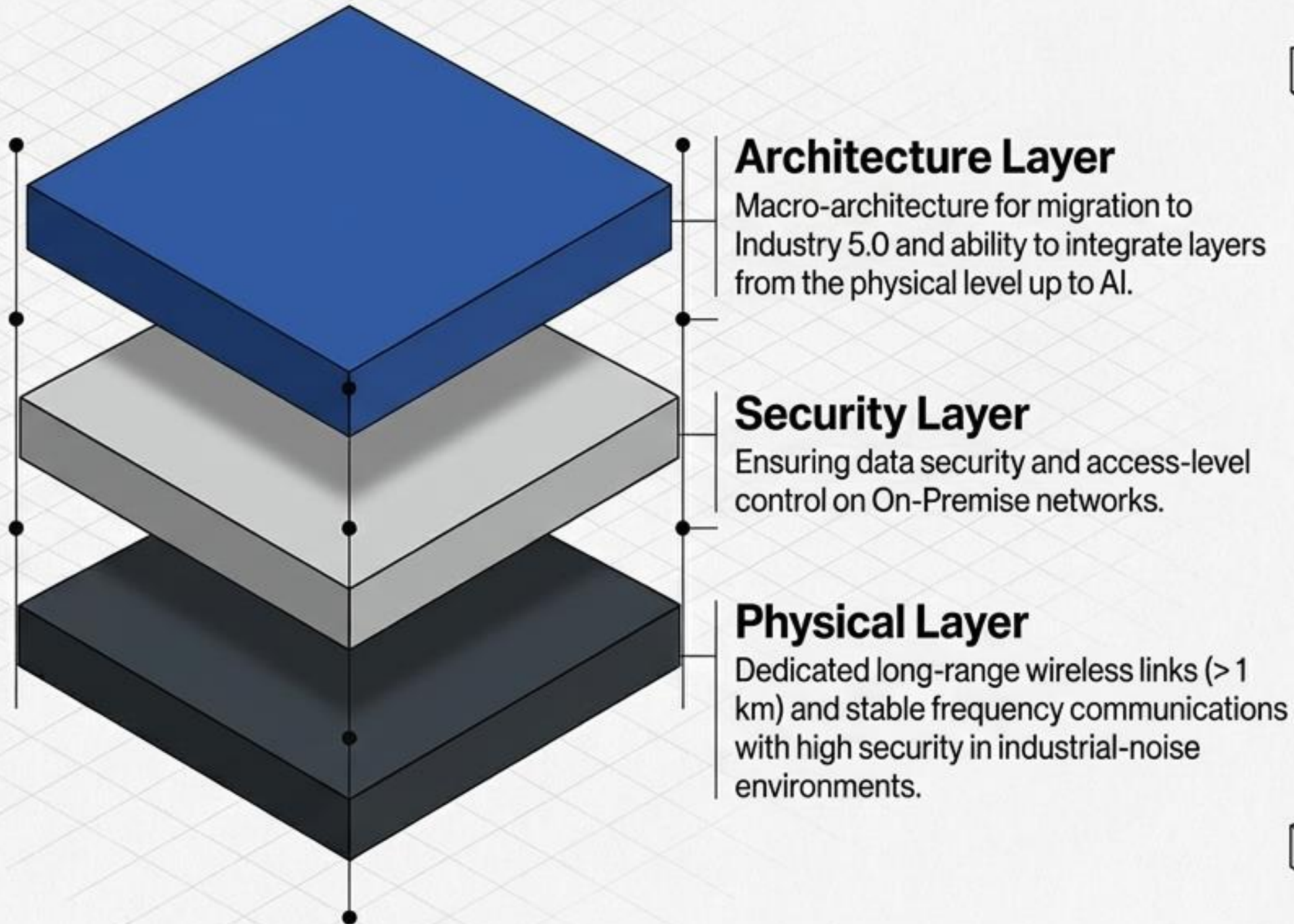


The Innovation Convergence Matrix

Cross-Sector Analysis of Core Technology Demands



Foundation: Technical Requirements, Quality Standards & Governance



Bridge the Gap Between Technology and Industry

Connect with the Innovation House at the Isfahan Chamber of Commerce to initiate a B2B matchmaking dialogue.

• Phone: 036-36560000, ext. 3037 (Seyed Mohammadhossein Mahmoudi)					
• Website: ECCIM.COM					
• Official Directory: eccim.com/bdi/ic					
• Instagram: @ECCIM_INNOVATION					
✉ Email: IC@ECCIM.COM					
☎ Eitaa: 09910500266					

