

IIoT and Predictive Maintenance in Manufacturing

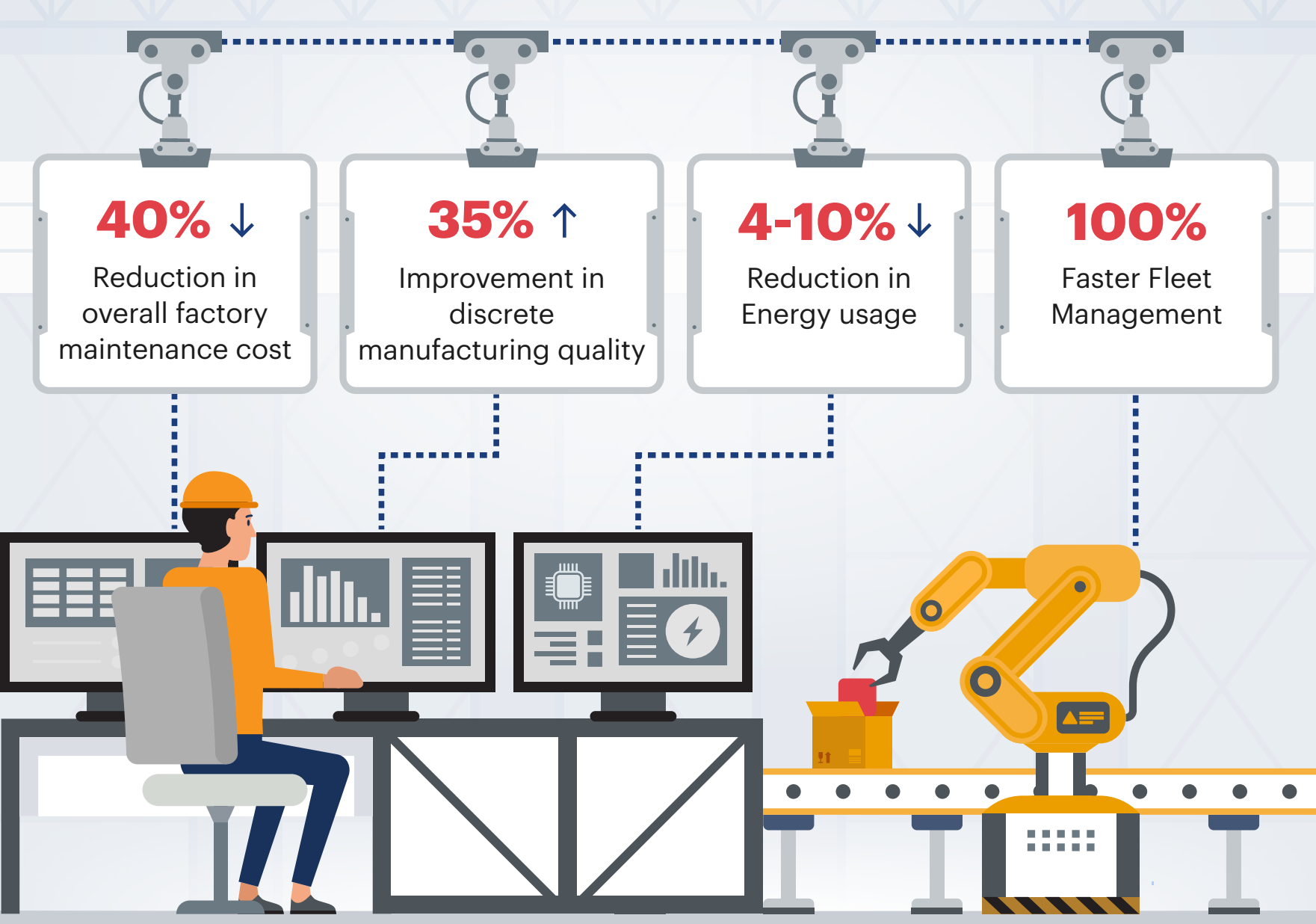
The Industrial Internet of Things (IIoT) is a vital element of Industry 4.0 that harnesses the power of smart machines and real-time analysis for making better use of data, improving performance, operational efficiency, and productivity of industrial processes.

Industrial IoT (IIoT)
Market Size to become

\$ 263.4
Billion by 2027

Source: Meticulous Research

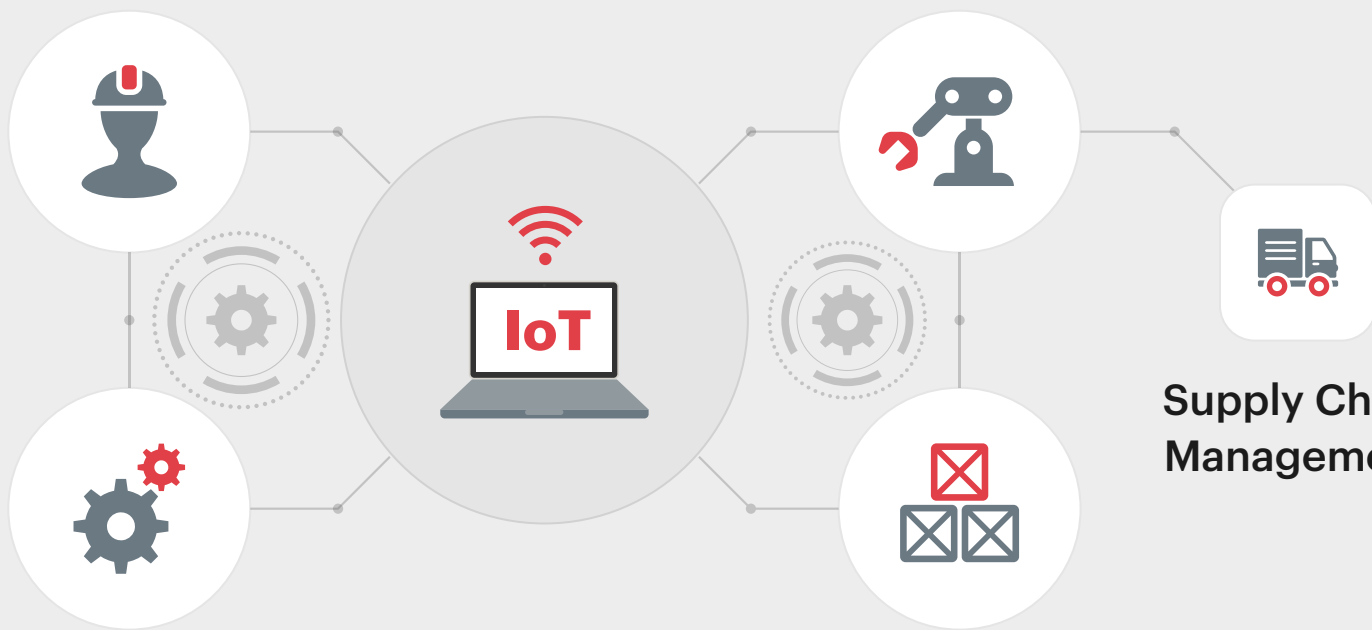
Impact of Industrial IoT



Top AI Use cases in Manufacturing driven by IIoT

Predictive Maintenance

Quality Management



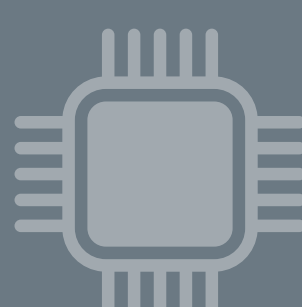
AI in Predictive Maintenance

AI is extensively used for predictive maintenance by analyzing massive real-time data speedily to predict assets failure intelligently and keep at a check at the performance.

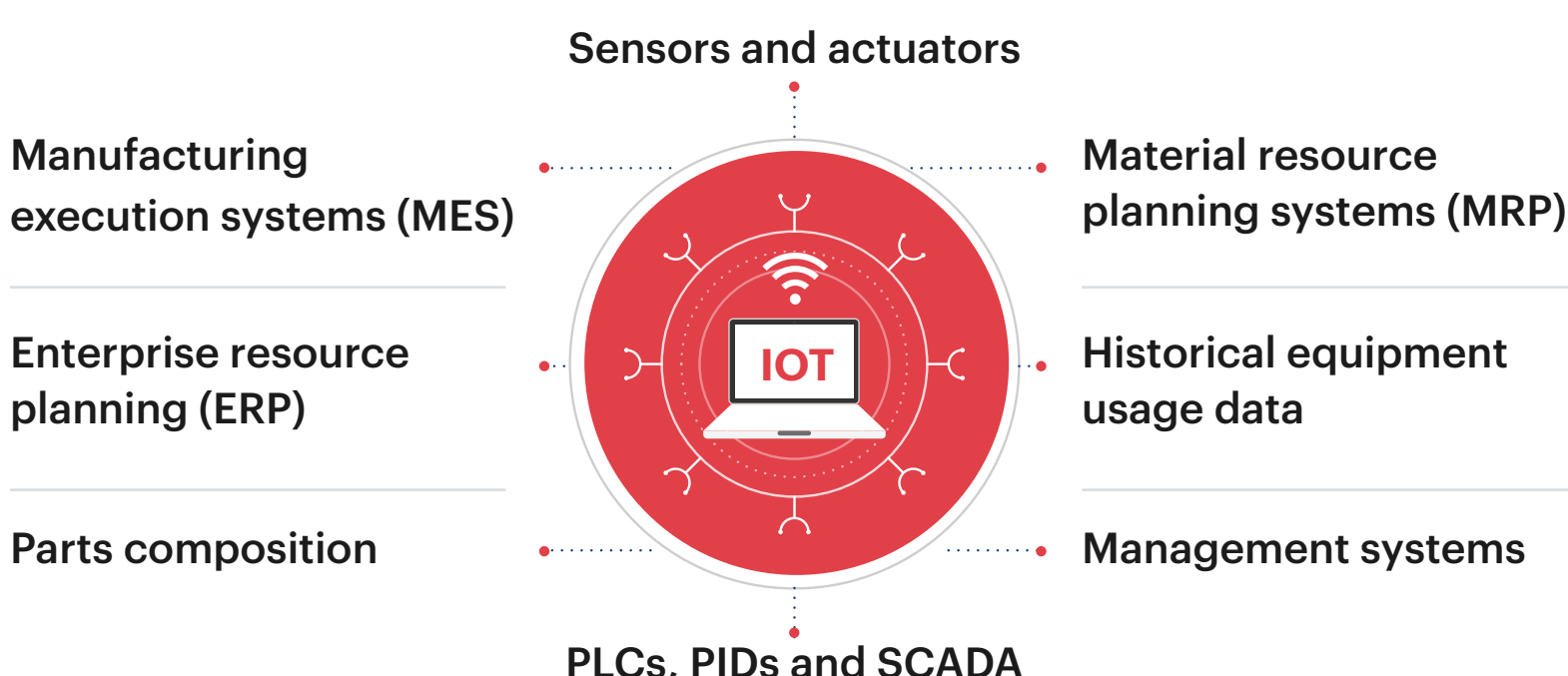
AI for predictive maintenance could save
\$0.5 trillion to \$0.7 trillion

across manufacturing plants globally






Source: McKinsey



Key Data Sources for Predictive Maintenance



Accelerating Predictive Maintenance with Data Engineering

| Data Challenges for Predictive Maintenance | | Solutions Offered by Data Engineering | |
|--|-----------------------------|---------------------------------------|--|
|  | Data Security | ➤ | Implement Robust Data Governance Framework |
|  | Lack of Data Infrastructure | ➤ | Build Modern Data Infrastructure and Architecture |
|  | Unexplored data | ➤ | Enable Data Integration and Aggregation from Various Sources |
|  | Delay in Insights | ➤ | Get Access to Near Real-time Insights |
|  | Delayed Data Processing | ➤ | Build and Streamline Data Processing Pipelines |

To know more about data engineering use cases in Predictive Maintenance

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