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MFGNxt

Manufacturing Industries is one of the prime beneficiaries of Digital, capturing nearly \$8 trillion growth delivering New customer experiences, driving new efficiencies & vastly improving asset utilization

EMBEDDED INTELLIGENCE IS FUTURE OF MANUFACTURING ENABLING:

- Innovation in operations- Operation Model Transformation
- Generate New Revenue Streams- New Business Models
- Data Enabled Services- New Customer experience/Selling Products Smarter

DIGITAL INVESTMENTS IN MANUFACTURING ARE NO MORE UNCOMMON

50-60%
IOT Adoption

Industry/Auto
top of **41.6 Bn**
connected
devices

6-8%
Blockchain
Adoption
in Mfg

\$9.4 Bn-
AIOPs
investments

YET THERE ARE CHALLENGES

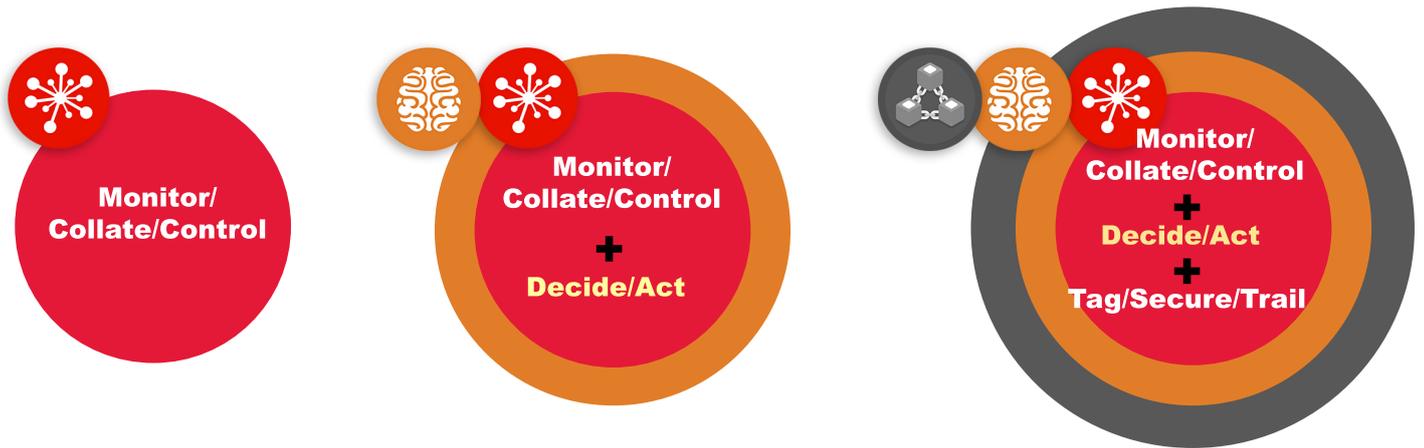
- **3.5 Bn** - Recall costs
- **2 Bn** - Inefficiencies in Supplier Management
- Counterfeit goods - **\$461 Bn**

- Poor Maintenance - **5-10%**
- Downtimes - **\$50 Bn**
- Waste/Losses - **\$5 Tn**

- Warranty Rate **1-4%**
- Supplier Recovery **< 20%**
- User Engagement **< 60%**



Enabling Smart Function Processes with convergence of (IOT + AI + Blockchain)



Digital Technologies such as AI & Blockchain are enabling Fourth Industrial Revolution, but they are working in siloes & hence their capacity isn't completely utilized. Tech Mahindra has made investments with top IOT Platform providers, Niche startups, partnerships with AI product vendors, online Marketplace platform GAIA for delivering IIOT and AI solutions.

TechM's POV is to leverage convergence of these technologies & enable smart function processes in Manufacturing Value chain with increased productivity & Efficiency, improved visibility & Traceability & Optimized Manufacturing Operations. Solution leverages provenance & secure features of blockchain to ensure data is accurate & safe for enhanced AI Insights

OUR OFFERINGS AND VALUE PROPOSITION

- IP Platforms – Tactix/Socio/Uno
- Partners with: -IOT Platform IBM/MS/AWS
- Niche Startups of Various Geos

Platforms/ Partners

- E2E Manufacturing Catalogue enabled Toolkit containing vast suite of AI algorithms & Blockchain AI Labs in Munich, Shanghai

Industry Solutions

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COE Services

- Consult/Build/Support
- Joint COE Models with Design Thinking Approach
- Industry Aligned Assessment Frameworks
- AI lifecycle Methodologies

- Distributed Marketplace
- Entire AI/ML Lifecycle management
- White Labeling
- Contributor of Accumos Linux

GAIA - Online Marketplace

POTENTIAL USE CASES IN MFGOPS.AI

- Enhance/Automate the labor intensive Vendor Selection Process @ Procurement ,Leveraging Blockchain for Vendor Oding & AI to Vendor Evaluation

Improved Vendor Selection

- Enhance the proactive asset management process by leveraging AI to get real time insights & Blockchain for Procurement of necessary parts

Proactive Asset Management

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Responsible Minerals Initiative

- Leverage Blockchain to validate Provenance of conflict minerals sourcing & AI @ multiple instances across the sourcing cycle to enhance entire sourcing process

- Build an E2E Visibility across the Aero Ecosystem enhancing MRO functionality leveraging Blockchain & AI

Transparent/ Intuitive Aerospace Ecosystem

SMART PROCESSES ENABLES IMPROVED

