

المؤتمر الدولي الحادي والعشرون للتشغيل والصيانة في الدول العربية

تطوير إدارة الصيانة باستخدام برامج التحول الرقمي

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تنظيم

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Abstract



This paper presents a comprehensive framework on developing maintenance management and facilitating the use of digital transformation software.

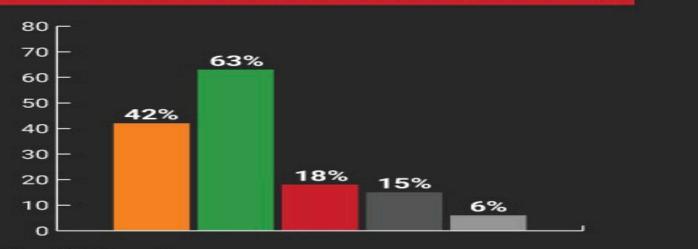
<u>Through this, digital transformation will achieve significant improvements, including:</u>

- 1- Ensuring reliable and sustainable operation of industrial systems and equipment
- 2- Work efficiency, enterprise productivity, and speed of delivery
- 3- Reducing human errors and reducing unplanned downtime
- 4- Reduce maintenance risks and reduce costs

OUT SOURCING MAINTENANCE WORK



WHAT ARE YOUR MAIN REASONS FOR OUTSOURCING MAINTENANCE WORK?



Lack of time/manpower Maintenance personnel lacks specialized skills In an effort to reduce maintenance costs Simply because it is easier to manage operations that way Other reasons

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Digital transformation is the process of using technology to create new ways of doing business. The concept can comprise changing existing systems or building new ones.



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Why is digital transformation important?



Why is digital transformation important?



Staying competitive

Improving efficiency and productivity

Enhancing customer experience

Making data-driven decisions

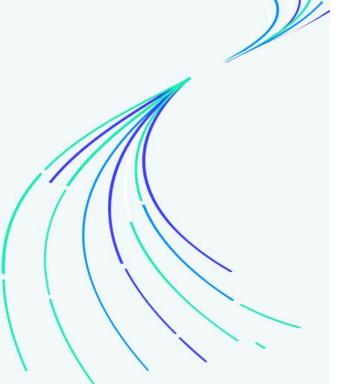
Increasing adaptability

Strengthening sustainability

Allowing for innovation

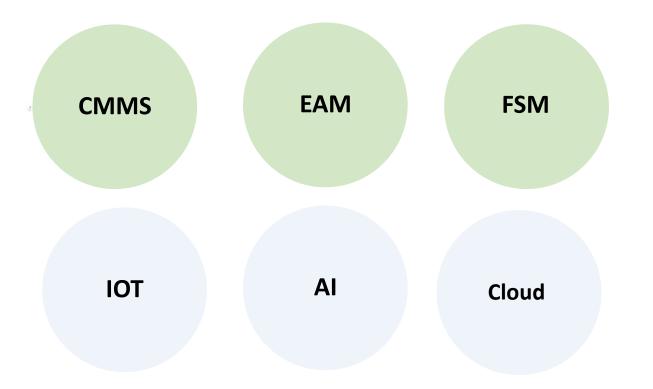
Attracting and retaining talent

Saving money



Maintenance programs and digital technologies





Disadvantages of Technology





Disadvantages of Technology

- 1. Loss of control over personal data
- 2. Exposure to malicious attacks
- 3. Violation of privacy and ethical standards
- 4. Automation that leads to job loss
- 5. Loss of personal contact and relationships
- 6. Technology dependence
- 7. Electronic waste and e-waste management problems

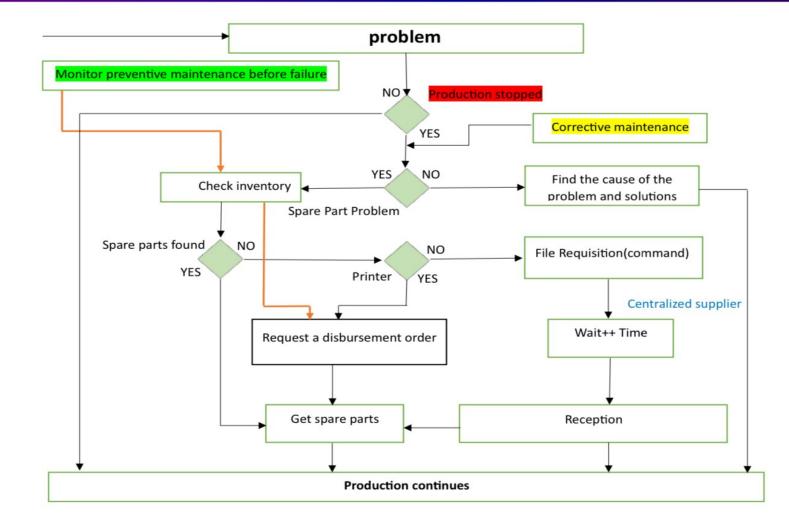
Comparison between traditional maintenance processes and digital maintenance



Traditional operations	Digital programs
It can be difficult to get a comprehensive view of the health of equipment and assets and schedule maintenance	Provides tools to monitor, track and manage data in a transparent, efficient and comprehensive manner for equipment and to prioritize maintenance.
Many companies rely on corrective maintenance, Which means repairing equipment after breakdowns occur	Supports the shift to preventive and predictive maintenance
Lack of communication and collaboration between maintenance team members, management and operators	It provides collaborative platforms and tools for effective communication and information sharing between different teams
Inventory management and supply of spare parts and materials	Provides integrated systems to manage and monitor inventory and automatically reorder based on maintenance needs

Traditional maintenance methodance





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Smart Maintenance Business Process





Smart Maintenance Business Process

CHALLENGES FACING DIGITAL TRANSFORMATION



BIGGEST CHALLANGES TO DIGITAL TRANSFORMATION



1. Integrating siloed apps and data



2. Risk Management and compliance



3. Business and IT misalignment



4. Lack of skill sets and experience



5. Migrating legacy code and applications

Digital Transformation KPI

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//////// **Digital Transformation Key Performance Indicators** 11111111 Digital Operational Customer Conversion satisfaction efficiency rates engagement **(** 劉 9,29, Employee Time to Return on productivity market Investment

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5 parameters for your data review



data is sensitive

sensitive data

stored

access to sensitive data Channels where does sensitive data go

visibility now to monitor interactions with sensitive data

conclusion



In conclusion, digital transformation programs have revolutionized the development of maintenance management

Providing institutions with improved tools, capabilities and continuous development.

These programs enable streamlined operations and data-driven decision making

Real-time monitoring and predictive maintenance, resulting in improved operational efficiency and cost savings.

■ By embracing digital transformation, organizations can increase asset performance and achieve higher levels of productivity and customer satisfaction.



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