



Clonos, Your Digital Stand-By

**Experience CLONOS: Your
Gateway to Operational
Excellence**

JULY 2024



Clonos

Introduction

Welcome to Clonos, the ultimate digital twin solution designed to revolutionize industries. Clonos offers a virtual representation of your physical environment, integrating advanced digital twin technology with robust asset and maintenance management systems. Our platform empowers organizations to optimize operations, enhance asset reliability, and achieve sustainable growth with comprehensive, cutting-edge solutions.

Challenges Faced by Industries

Industries grapple with inconsistent data management, inefficient manual processes, and a lack of predictive maintenance tools. Manual scheduling and fragmented data hinder efficiency, leading to unplanned downtime and increased costs. Limited visibility and inadequate reporting tools make tracking asset performance and regulatory compliance difficult. Poor communication, high operational costs, and training challenges further complicate management efforts.

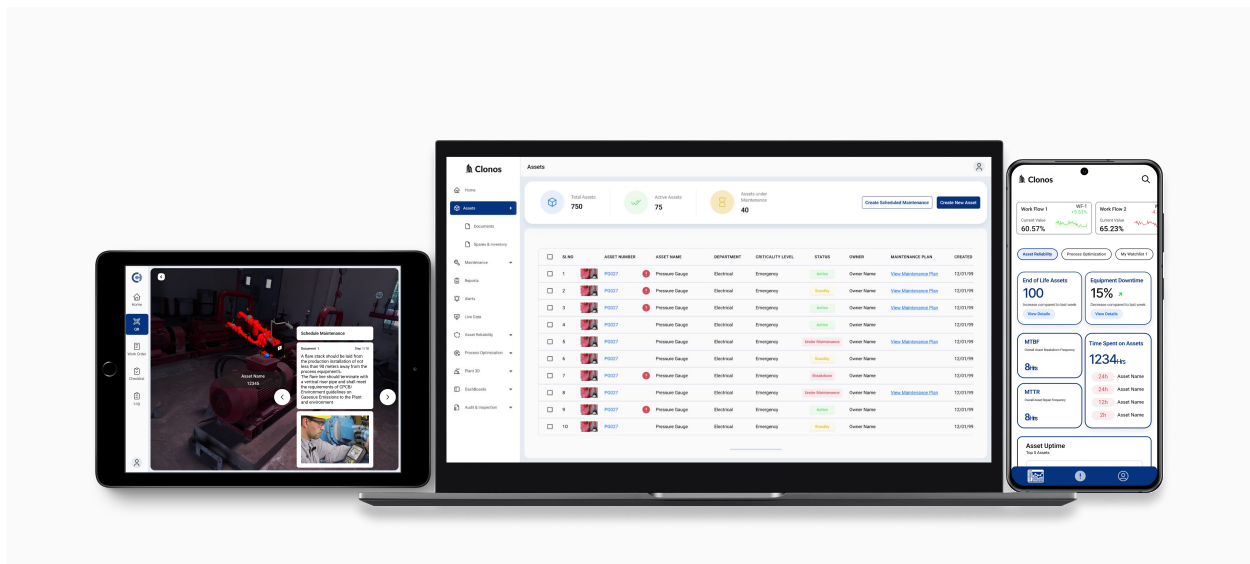
- **Increased Downtime** - Delays in diagnosing and resolving issues can lead to prolonged equipment downtime, affecting production schedules and productivity.
- **Higher Costs** - Extended downtime and ineffective troubleshooting can result in higher maintenance costs, including overtime for technicians and potential replacement of parts.
- **Safety Risks** - Incomplete information can lead to improper handling of equipment, increasing the risk of accidents and injuries.
- **Quality Issues** - Ineffective troubleshooting may result in suboptimal repairs, leading to recurring problems and affecting the quality of the final product.



Clonos SaaS Platform

Asset & Maintenance Management System

Our Clonos SaaS Platform offers a comprehensive maintenance and asset management system designed to streamline operations and improve efficiency. This platform integrates robust asset registration and hierarchical organization, document management, work order management, tasks library, customizable checklists, digital logs, audit and inspection modules, user management, scheduled maintenance plans, and comprehensive reporting tools. By consolidating all asset-related activities into a single, user-friendly platform, Clonos enhances data accuracy, reduces downtime, and drives operational excellence. CLONOS uses IoT sensors and predictive analytics for real-time condition monitoring and proactive maintenance.



“Companies using integrated asset management systems report a 28.3% reduction in unplanned downtime compared to those using disparate systems, according to a report by IBM”



Predictive maintenance using IoT and real-time data can reduce maintenance costs by 10-40% and downtime by 50%, as stated by McKinsey & Company.

Key Features

- **Asset Registration & Hierarchy** - Register and organize assets efficiently.
- **Document Management** - Store and access documents easily.
- **Work Order Management** - Track and manage work orders.
- **Maintenance Scheduling** - Plan maintenance to reduce downtime.
- **Audit & Inspection Modules** - Conduct audits and inspections for compliance.
- **Digital Logs & Recurrence** - Capture data digitally for accuracy.
- **Condition Monitoring** - providing instant data and alerts for proactive maintenance.
- **Reports & Analytics** - Generate reports for asset performance insights.

Benefits

- **Improved Efficiency:** Streamline maintenance and asset management processes, reducing downtime and increasing productivity.
- **Enhanced Data Accuracy:** Digital logs and document management ensure accurate and up-to-date information.
- **Scalability:** Suitable for small teams to large enterprises, the platform scales to meet your growing needs.
- **Compliance:** Maintain regulatory compliance with built-in audit and inspection tools.
- **Cost Savings:** Optimize maintenance schedules and reduce unplanned downtime, leading to significant cost savings.

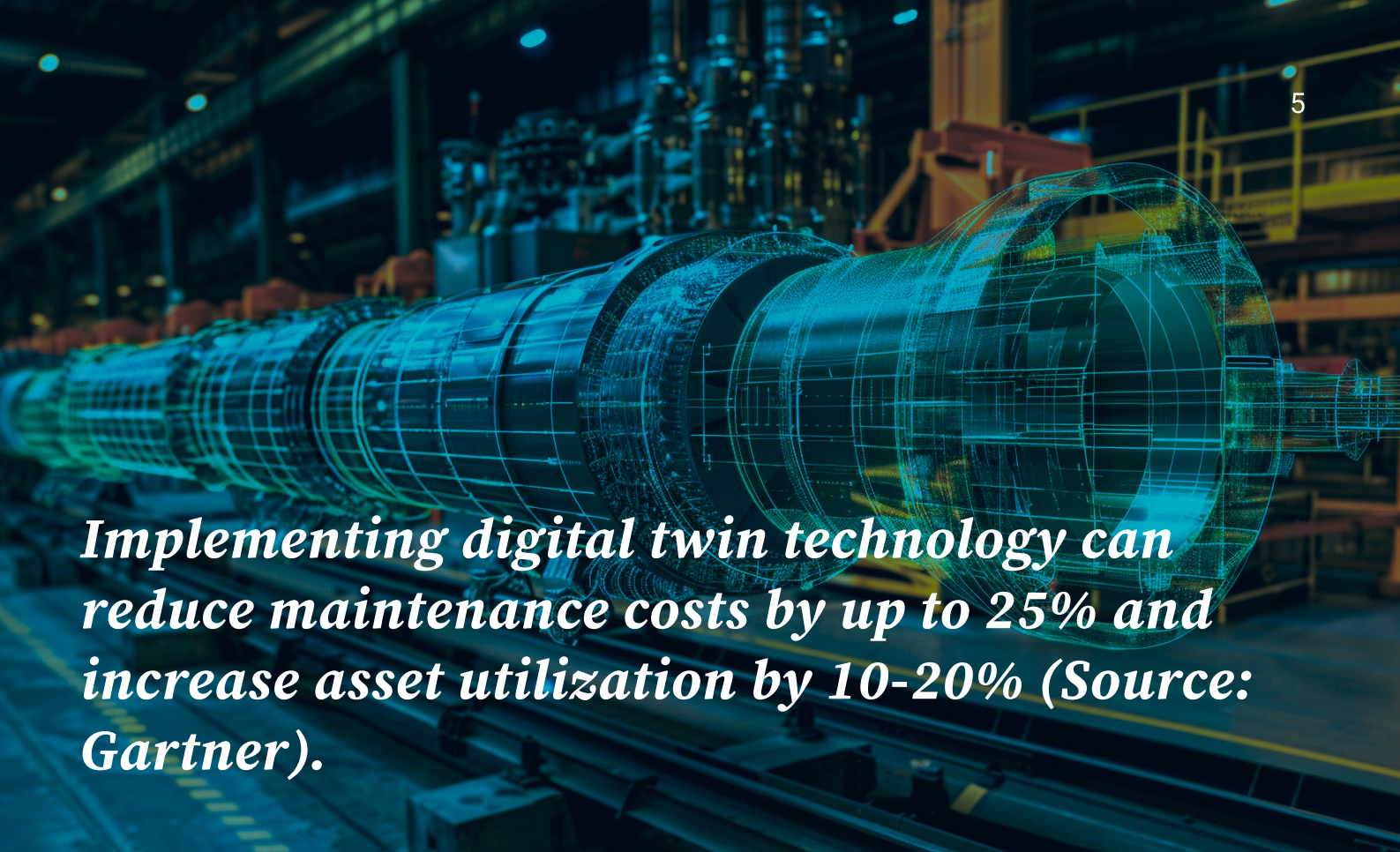


Clonos 3D Twin

Digital Twin & Remote Asset Management System

Clonos 3D Twin provides a virtual replica of your physical environment, allowing users to interact with assets in a realistic 3D space. This digital twin technology enables remote asset management, offering detailed insights into asset performance and facilitating proactive maintenance. With Clonos 3D Twin, organizations can conduct virtual plant walkthroughs, access real-time data, and make informed decisions to optimize operations.





Implementing digital twin technology can reduce maintenance costs by up to 25% and increase asset utilization by 10-20% (Source: Gartner).

Key Features

- **Realistic 3D Modeling:** Create accurate virtual replicas of physical assets.
- **Remote Asset Management:** Monitor and manage assets remotely from anywhere.
- **Real-Time Data Integration:** Access and visualize real-time data within the digital twin.
- **Virtual Plant Walkthroughs:** Conduct virtual tours and inspections of the plant.
- **Proactive Maintenance:** Identify potential issues and plan maintenance proactively.
- **Interactive Interface:** User-friendly interface for easy interaction with the 3D models.

Benefits

- **Operational Efficiency:** Improve operational efficiency by remotely managing and monitoring assets.
- **Informed Decision-Making:** Make better decisions with detailed insights and real-time data.
- **Reduced Downtime:** Proactively address maintenance issues to minimize downtime.
- **Cost Savings:** Lower maintenance costs by identifying issues early and planning interventions effectively.
- **Scalability:** Adapt the digital twin to different scales, from small facilities to large plants.
- **Improved Safety:** Conduct virtual inspections and walkthroughs to ensure safety compliance without physical presence.



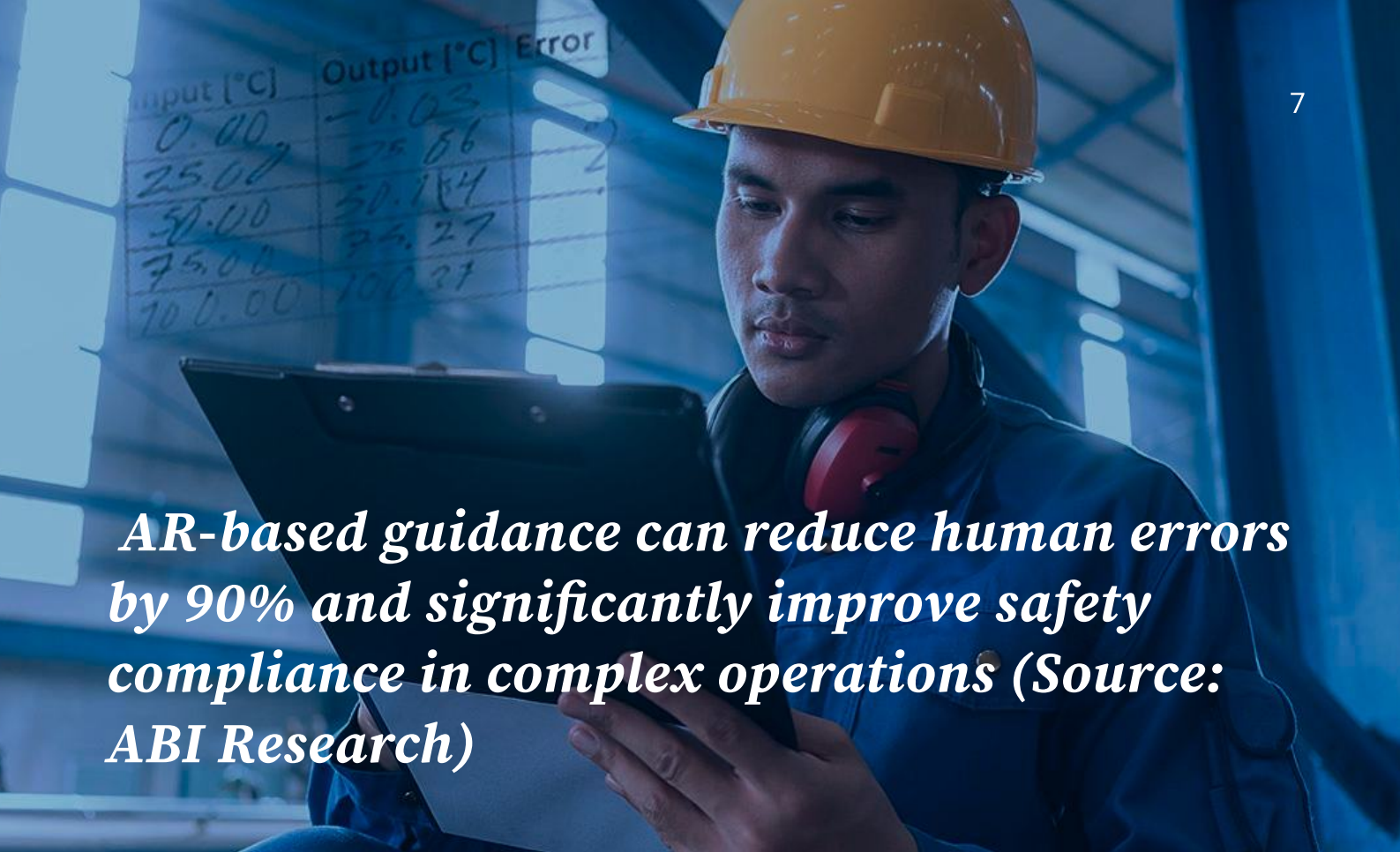
Clonos AR Assist

Intelligent Operational Assistant for Frontline Plant Operators

Clonos AR Assist leverages augmented reality to provide frontline plant operators with real-time guidance and support. By scanning QR codes on assets, operators can access detailed asset information, log data, and view AR-imposed step-by-step instructions. This intelligent operational assistant enhances efficiency, reduces errors, and ensures that maintenance tasks are performed accurately.



A PTC survey found that AR can improve first-time fix rates by 30% and reduce mean time to repair by 27%.



AR-based guidance can reduce human errors by 90% and significantly improve safety compliance in complex operations (Source: ABI Research)

Input [°C]	Output [°C]	Error
0.00	-0.03	
25.00	25.86	
50.00	50.14	
75.00	75.27	
100.00	100.37	

Key Features

- **Augmented Reality Guidance:** Real-time AR overlays providing step-by-step instructions for maintenance tasks.
- **QR Code Integration:** Scan QR codes on assets to instantly access detailed information and instructions.
- **Comprehensive Asset Information:** View detailed asset data, including specifications and maintenance history, through AR.
- **Data Logging:** Capture and log maintenance activities directly within the AR interface for accurate record-keeping.
- **Interactive Troubleshooting Tools:** Utilize AR tools for efficient and guided troubleshooting of asset issues.

Benefits

- **Enhanced Efficiency:** Streamline maintenance processes with real-time guidance, reducing task completion time.
- **Error Reduction:** Minimize human errors with clear, visual instructions provided through AR.
- **Improved Accuracy:** Ensure precise execution of maintenance tasks by following AR-imposed steps.
- **Increased Uptime:** Reduce downtime by quickly and effectively addressing maintenance issues.
- **Enhanced Training:** Improve training for new operators with immersive AR-guided procedures.
- **Better Compliance:** Maintain compliance with standardized procedures and documentation through AR logging.



Clonos VR OTS

Operator Training Simulation with Look-Ahead Models

Clonos VR OTS offers immersive training simulations for plant operators, utilizing look-ahead models to predict and prevent potential issues. This virtual reality solution provides a safe and effective training environment, helping operators gain hands-on experience without risking harm. Clonos VR OTS enhances skill development and improves operational readiness.



“VR training can lead to a 75% retention rate compared to 10% for reading or lectures, according to a PwC study”



VR simulations provide a risk-free environment where operators can practice complex procedures, leading to a 30% improvement in overall operational readiness (Source: Forbes).

Key Features

- **Immersive Training Simulations:** Realistic VR environments that provide hands-on training experiences for operators.
- **Predictive Look-Ahead Models:** Utilize predictive models to foresee and prevent potential operational issues.
- **Safe Training Environment:** Conduct training in a risk-free virtual environment, ensuring operator safety.
- **Skill Development:** Enhance operator skills through practical, interactive training sessions.
- **Interactive Learning Modules:** Use interactive modules for engaging and effective learning experiences.

Benefits

- **Operational Readiness:** Prepare operators for real-world challenges with realistic training scenarios.
- **Skill Enhancement:** Develop and refine operator skills in a controlled, immersive environment.
- **Safety Compliance:** Ensure safety by training operators without exposing them to actual operational risks.
- **Cost Efficiency:** Reduce training costs by utilizing VR simulations instead of physical training setups.
- **Efficiency Improvement:** Equip operators with the skills needed to improve plant efficiency and reduce downtime.
- **Continuous Learning:** Promote continuous learning and development through interactive VR training.

Process Management

Optimize Processes Through KPI-Derived Work Instructions

Clonos Process Management optimizes workflows through KPI-derived work instructions, ensuring that processes are executed efficiently and effectively. This solution enables users to create and simulate scenarios, receive recommendations, and continuously improve their operations based on real-time data and analytics.



“Effective process management can lead to a 30% increase in productivity, according to a study by the Harvard Business Review”



Companies with optimized process management systems experience a 20% increase in efficiency and a 15% reduction in process cycle times (Source: McKinsey & Company).

Key Features

- **KPI-Derived Work Instructions:** Generate work instructions based on key performance indicators to optimize processes.
- **Scenario Simulation:** Create and simulate various operational scenarios to identify optimal workflows.
- **Real-Time Data Integration:** Incorporate real-time data into process management for accurate and timely decisions.
- **Continuous Improvement Recommendations:** Receive recommendations for ongoing process improvements based on data analytics.
- **Detailed Analytics and Reporting:** Access comprehensive analytics and reports to monitor process performance.

Benefits

1. **Optimized Workflows:** Ensure efficient and effective execution of processes with KPI-derived instructions.
2. **Informed Decision-Making:** Make data-driven decisions with real-time insights and analytics.
3. **Operational Excellence:** Continuously improve operations based on detailed performance analytics.
4. **Productivity Increase:** Boost productivity by optimizing workflows and reducing process bottlenecks.
5. **Scalability:** Adapt process management solutions to various scales of operations, from small teams to large enterprises.
6. **Cost Savings:** Reduce operational costs through optimized processes and efficient resource management.

Key Benefits

Clonos optimizes maintenance and asset management, ensuring accuracy, compliance, scalability, and significant cost savings through reduced downtime.

THE CHALLENGE

Industries battle with unreliable data, cumbersome manual processes, and the absence of predictive maintenance tools. This leads to heightened downtime, increased costs, safety hazards, and reduced product quality.

THE SOLUTION

Clonos addresses these challenges with an integrated platform that consolidates all asset-related activities. It offers predictive maintenance, real-time AR guidance, immersive VR training, and data-driven process optimization.

28.3%

reduction in unplanned
downtime

40%

Reduction in maintenance
costs using real-time data

10x

Improvement in
operational efficiency with
predictive maintenance



Our Subscription Plans

Choose your plan and get started with CLONOS

Basic

Suitable for smaller teams

- ✓ Asset Registration & Hierarchy
- ✓ Document management
- ✓ Work order
- ✓ Tasks Library
- ✓ Checklist with recurrence
- ✓ Digital Logs with recurrence
- ✓ User Management
- ✓ Maintenance Plan
- ✓ Audit & Inspection
- ✓ Reports
- ✓ Approval system & E-signature

Choose Plan

Advanced



All Basic plan features, plus

- ✓ 3D Asset Integration
- ✓ Instant Asset Access with QR Code Scanning
- ✓ Live Data Integration & Visualization
- ✓ Condition Monitoring
- ✓ Asset Dashboard
- ✓ Downtime Reporting (MTTR, MTBF)
- ✓ Alarm registration & history
- ✓ Team Management
- ✓ Work Orders with Teams
- ✓ Custom Safety recommendations(PPE)
- ✓ Global Template Creation for Checklists & Logs - (upto 10 templates)
- ✓ Monitor Issues and Set Conditions through Checklists/Log Sheets

Choose Plan

Premium

All Advanced plan features, plus

- ✓ KPI dashboards -People, Process, Machines
- ✓ AR Enabled Instruction manuals
- ✓ Mobile Application
- ✓ Compare design vs actual data of the Asset
- ✓ Unlimited Template Creation

Choose Plan



About us

At Crion, we revolutionize asset management and maintenance with cutting-edge digital twin technology. Our platform leverages 3D visualization, real-time data, and predictive maintenance to streamline operations, enhance data accuracy, and boost efficiency. From small teams to large enterprises, Clonos scales to meet your growing needs, ensuring compliance and delivering significant cost savings. Join us in transforming how industries manage and maintain their critical assets.

Crion Technologies,
IITM Research Park, 32, Kanagam Rd,
Kanagam Periyar Nagar, IIT, Tharamani, Chennai,
Tamil Nadu 600113
Contact: 6380142396



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