

ORACLE

# Oracle Industry Playbook

Construction and Engineering

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# Construction and Engineering

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Today, owners and construction firms are frustrated by the industry's complexities and feel their business process and tech solutions often make things worse. Project management is laborious, tactical, and stressful. Disconnected systems prevent project and finance teams from working in sync and achieving better results. Managers feel like battlefield generals, always scrambling the troops, but wish they could operate more like symphony conductors, making sure the various players hit all the right notes. To address this, firms are augmenting their expertise with intelligent construction platforms. Integrated systems deliver greater visibility, more operational control, and the ability to orchestrate performance and results. The payoff: owners and construction firms can reduce risk throughout their operations.

# Key Imperatives for Construction and Engineering

- 1 Power through change with unified operations by synchronizing labor, equipment, and materials
- 2 Develop secure, scalable, and automated systems to support innovation and improve decision-making
- 3 Drive sustainability and increase reliability while mitigating health and safety risks

# Forces Shaping the Construction and Engineering Industry

## INDUSTRY CHALLENGES

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### **Productivity, ROI and Margins**

Inefficient output, high risk, and constant change can result in poor margins and ROI. Complex funding allocation across projects and programs.

### **Disconnected Teams and Data**

Disconnected internal and external stakeholders, processes, and data create project delays and cost overruns which impede work and decision-making. Difficult to keep up with increased project speed, complexity, and new contract types.

### **Labor and Knowledge Shortage**

Continued trade labor and knowledge shortages. Attracting and retaining the next generation of talent.

### **Supply Chain Disruption and Volatility**

Unexpected material shortages, transportation problems, supplier challenges, and rapid fluctuations in material and labor costs can quickly cause project schedules and budgets to change. Managing large volumes of contractors can make on-site logistics complex.

### **Pressures to act sustainably**

Regulatory, economic, environmental, and social pressures to act more sustainably.

### **Multidimensional risks**

Identifying and mitigating job-site safety risk, contractual disputes, IT risks, and security vulnerabilities more effectively with limited resources. Tied up contingency funds and resources that could be better allocated elsewhere.

## VISION OF SUCCESS

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- Leverage data insights to augment skills and decision making, predict risk, and drive continuous improvement. Dynamic, continuous capital planning and resource allocation that maximizes returns, considers risk, and adjusts to changes.
- Seamless collaboration between owners, general contractors, and subcontractors with control across project and asset lifecycles. Access to shared analytics to predict schedule and workflow risks, inform decision-making, and support continuous improvement.
- Strong contractor relationships and increased self-perform. Improved recruiting and retention of talented employees, and ability to attract the next generation of workers.
- Agile supply chain management and resource allocation synchronized according to central project schedules. Optimized material and subcontractor management. Integration of modular construction methods.
- Integrated technologies to drive efficiencies and minimize waste throughout your supply chain. New tracking of embodied carbon from bid to handover. Optimized material ordering to help reduce waste from packaging.
- Always-on, onsite and remote jobsite monitoring with intelligence to interpret, predict and mitigate safety risks. A collaborative environment that helps reduce or quickly resolve contractual disputes. Cyber-security protocols to protect sensitive project data. Highly available, reliant, and compliant IT infrastructure.



# Oracle Industry Suite for Construction and Engineering

Future-proof your business with a secure, scalable, high-performance cloud

Field /  
Operations









ORACLE SMART CONSTRUCTION PLATFORM

ORACLE CE INTELLIGENCE

 Descriptive Analytics  Predictive Analytics

Portfolio & Project Risk for Schedule, Safety, Cost, Quality, Collaboration

ORACLE CE APPLICATIONS

 Program & Portfolio Management	 Preconstruction & Design Coordination	 Schedule, Resourcing & Risk	 Collaboration & Field Management
 Document Control	 Cost, Change & Payments	 Commissioning	 Closeout & Handover




Back Office

ORACLE FUSION APPLICATIONS

 Enterprise Resource Planning	 Customer & Service Exp.	 Supply Chain Management	 Enterprise Perf. Management	 Human Capital Management
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IT /  
Cloud

ORACLE CLOUD INFRASTRUCTURE

 Oracle Integration Cloud	 AI/ML services (w/ Cohere)	 Azure Interconnect
Public cloud regions		Sovereign cloud regions



# Oracle Fusion Cloud Applications Suite

A platform for enterprise-wide transformation

## Customer Experience



Marketing  
Sales  
Service

## Supply Chain & Manufacturing



Supply Chain Planning  
Inventory Management  
Manufacturing  
Maintenance  
Product Lifecycle Management  
Procurement  
Order Management  
Logistics

## Enterprise Resource Planning



Financial Management  
Procurement  
Project Management  
Risk Management and Compliance

## Enterprise Performance Management



Planning, budgeting, and forecasting  
Profitability and Cost Management  
Financial Consolidation and Close  
Account Reconciliation  
Tax Reporting  
Enterprise Data Mgmt.

## Human Capital Management



Human Resources  
Talent Management  
Workforce Management  
Payroll

Data Intelligence

Revenue Transformation

Back-office Unification

Customer Experience

Supply Chain Unification

Financial Excellence

Empowered Workforce

Connected Planning



# Oracle Fusion Cloud ERP

## AI-Powered Finance



### Financials

- General Ledger
- Accounting Hub
- Payables & Assets
- Treasury & Payments
- Expense Management
- Receivables & Collections
- Bill & Credit Management
- Revenue Management
- CPQ / Subscription Management
- Joint Venture Management
- Lease Accounting



### Procurement

- Supplier Qualification Management
- Sourcing
- Procurement Contracts
- Self Service Procurement
- Purchasing
- Supplier Portal
- Spend Classification



### Project Management

- Cost Management & Control
- Billing & Revenue Mgmt
- Planning, Scheduling & Forecasting
- Project Asset Management
- Project Management
- Resource Management
- Program Management
- Grant Management
- Task Management



### Enterprise Performance Management

- Enterprise Planning
- Profitability & Cost Mgmt
- Narrative Reporting
- Financial Consolidation & Close
- Account Reconciliation
- Tax Reporting
- Enterprise Data Management



### Risk Management

- Separation of Duties Reporting (SOD)
- Preventive SOD User Provisioning
- Security Monitoring
- User Access Reviews & Certifications
- Fraud & Payment Monitoring
- Configuration & Audit Monitoring
- Internal Control Assessments
- Risk & Controls Matrix
- Workforce Health & Safety

Touchless Operations

Predictive Insights

Connected Actions





# Oracle Fusion Cloud SCM

Deep Functional Integration Connecting the Digital Thread



## Supply Chain Planning

Demand Management  
Supply Planning  
Sales & Operations Planning  
Supply Chain Collaboration

Strategic Sourcing



## Supply Chain Execution

Inventory  
Costing  
Manufacturing  
Maintenance  
Quality  
Production Monitoring

Smart Operations



## Order Management

Order Management  
Product Configuration  
Order Pricing  
Global Order Promising  
Channel Revenue Management

Perfect Order



## Logistics

Transportation Management  
Global Trade Management  
Warehouse Management  
Logistics Network Modeling

Revenue Transformations



## Product Lifecycle Management

Innovation Management  
Product Hub  
Product Development  
Quality Management

Strategic Sourcing



## Procurement

Sourcing  
Contracts  
Purchasing  
Supplier Management

End to End Visibility





# Oracle Fusion Cloud HCM

Empowering Employee Success for Exceptional Business Outcomes



## Human Resources

- Benefits
- Core HR
- Work Life
- Workforce Modeling & Predictions
- Strategic Workforce Planning
- Advanced HCM Controls



## Talent Management

- Recruiting
- Onboarding
- Learning
- Career Development
- Opportunity Marketplace
- Performance Management
- Compensation
- Succession Planning
- Dynamic Skills



## Workforce Management

- Time & Labor
- Workforce Scheduling
- Workforce Labor Optimization
- Absence Management
- Workforce Health & Safety



## Payroll

- Payroll
- Payroll Core
- Payroll Interface



## Employee Experience

- HCM Communicate
- Journeys
- Connections
- Grow
- Touchpoints
- Celebrate
- HR Help Desk
- Digital Assistant

Intelligent & Automated People Processes

Hyper-Personalized Experiences

End-to-End Visibility



# Oracle Fusion Cloud CX

## Maximizing the Power of Your Enterprise Data and AI



### Marketing

Unity Customer Data Platform  
Eloqua Marketing Automation  
Responsys Campaign Management  
CrowdTwist Loyalty and Engagement



### Sales

Fusion Sales  
Sales Force Automation  
Configure, Price, Quote (CPQ)  
Subscription Management  
Commerce  
Incentive Compensation



### Service

Fusion Service  
Digital Customer Service  
Field Service  
Knowledge Management  
Service Logistics

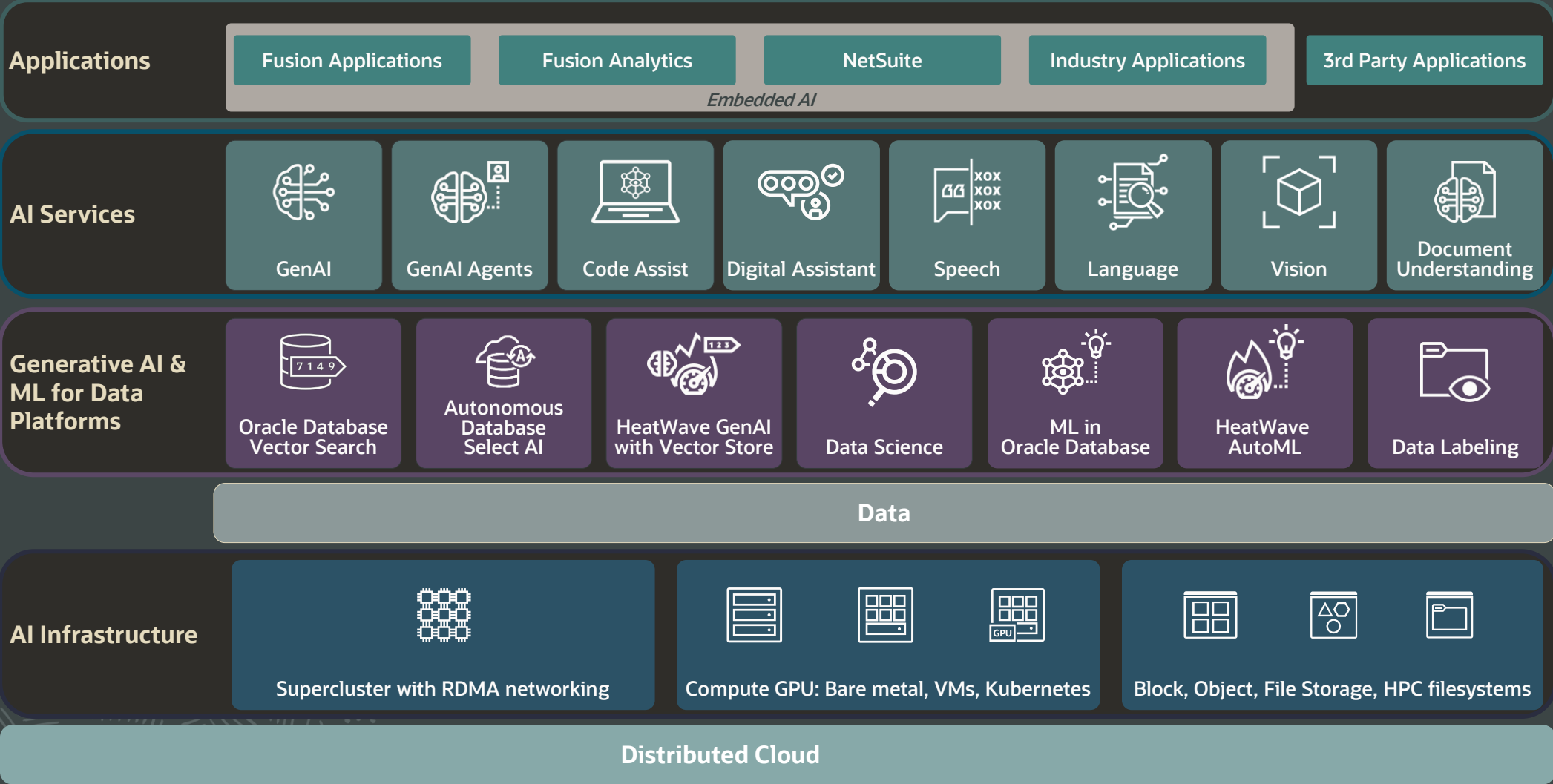
Revenue Transformation

Service Automation

Marketing and Sales Unification

Single Customer View

# The Oracle AI Stack



AI Partners and ISVs



# Extensive Partner and ISV Ecosystem

 **accenture**

**Deloitte.**

**IBM**

 **pwc**

**Infosys**

 **cognizant**

 **KPMG**

**tcs**

 **NVIDIA.**

 **wipro**

 **Informatica**

 **Palantir**

+20,000

Partners and ISVs

# More Industry and Leadership Awards Than Any Other SaaS Company

ERP	SCM	HCM	CX
<b>28X</b>	<b>10X</b>	<b>8X</b>	<b>22X</b>

Gartner, Forrester, IDC, Omdia

Number of times top-tier analyst firms placed Oracle in a leadership position over the last 36 months

# Why Oracle?

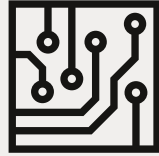


## Complete Suite

Best-of-breed apps designed and built for changing customer needs—with machine learning, process automation, and other customer-driven innovations.

Finance, HR, supply chain, manufacturing, marketing, sales, service and analytics built to work together.

100s of new features each quarter.



## Best Technology

Next-generation cloud infrastructure (OCI) designed for Fusion Applications.

The only public cloud with the performance, security and availability to run your mission-critical operations.

40 cloud regions worldwide for commercial and government with 9 more planned.



## Applications Platform

Award-winning consumer-grade+ user experience built with Redwood Design System.

The same tools for all developers to easily personalize, extend and build applications.

Self-learning and self-improving applications.

The logo icon is a red square with rounded corners. At the top, there are three horizontal white lines representing a book's pages. In the lower half, there is a white Oracle logo symbol, which is a stylized letter 'O' with a horizontal gap in the middle.

# Oracle Playbook