ORACLE

Oracle AI Playbook

For Engineering and Construction

Connecting project execution with enterprise financial and operational control



Disconnected data puts engineering and construction outcomes at risk

Projects involve many organizations, systems, and handoffs. Disconnected data slows decisions, increases risk, and makes predictable outcomes harder to achieve.

Choose the path that reflects your role:

Explore owner/capital program solutions

Explore Contractor/EPC solutions

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Capital project owner outcomes

Enterprise control of capital investment, project execution, and asset operations.

1. Prioritizing investment into projects that best align with organizations' goals.
2. Consistently executing projects across the portfolio using standardized, connected processes to help prevent surprises and achieve on time and on budget performance.
3. Efficiently operating a finished asset that meets value, scope, and quality expectations.

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Disconnected enterprise and project data puts capital outcomes at risk

When enterprise and project data are disconnected, leaders lose the visibility needed to protect cost, schedule, and outcomes

1. Capital investments lack a connected view across portfolio
2. Fragmented cost, schedule, and change data delays risk identification and response
3. Disconnected handoffs between capital planning, project delivery, handover, and operations limit visibility and control across the lifecycle



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Connect capital planning, project delivery, and enterprise operations

Transform data into decisive actions for better outcomes

1. Make capital investment decisions with a complete portfolio view ❯
2. Connect project and enterprise financials ❯
3. Carry a trusted project record into operations ❯
4. Start your journey ❯



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Make capital investment decisions with a complete portfolio view.

Use AI-powered insights to make faster, better investment decisions across your portfolio. Align funding and resources to the initiatives with the greatest impact, predict project and financial risk, and continuously adapt plans as priorities change.

Recommended actions:

- Increase project delivery efficiency through intelligent automation and connected enterprise and project data
- Create a real-time, AI-enhanced view of priorities, dependencies, and project performance.
- Consistently fund the initiatives most likely to advance strategic goals.
- Use AI-powered insights to help identify potential project risks, cost overruns, and resource constraints earlier.
- Reduce approval delays with AI-assisted intake, scoring, and recommendations.
- Improve agility by using forecasts to reallocate resources as needs change.

How to get started:

- Establish a single, standardized portfolio intake and scoring process.
- Apply AI to evaluate initiatives against strategic alignment, expected value, cost, risk, and capacity.
- Use predictive scenarios to optimize investments, schedules, and resource allocation.
- Automate portfolio reporting and surface decision-ready recommendations.
- Manage budgets and funding sources centrally to strengthen governance and compliance.

Oracle capabilities supporting strategic goals

Capital planning and portfolio management	Capital program management	Budgets and funding	OCI integrations	AI and Analytics

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Connect project and enterprise financials.

A shared data foundation connects schedules, costs, contracts, status, budgets, actuals, and forecasts so project and finance teams act from the same current information.

Recommended actions:

- Reduce surprises by surfacing schedule, cost, and change-order risks earlier.
- Improve capital outcomes through current access to project financials and forecast across the portfolio.
- Accelerate decisions with trusted, connected data and AI-driven insights.
- Increase operational efficiency by automating workflows, controls, and maintenance management.
- Strengthen visibility with consistent up to date data across project and enterprise financials.

How to get started:

- Establish a unified data foundation for portfolio, budget, actuals, schedule, and risk.
- Prioritize high-value workflows for automation, such as change management and cost controls.
- Connect project data with ERP, finance, procurement, contracts, and operational systems.
- Apply AI to detect anomalies, forecast outcomes, summarize issues, and recommend actions.

Oracle capabilities supporting strategic goals



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Carry a trusted project record into operations.

Break down handoff silos across the asset lifecycle by connecting project, financial, operational, and compliance data to the enterprise. Apply AI to surface risks, guide decisions, help teams manage transitions and identify potential gaps.

Recommended actions:

- Deliver more predictable cost, schedule, and operational outcomes.
- Eliminate lifecycle handoff gaps with a connected enterprise record.
- Reduce risk through earlier visibility into readiness, compliance, and exceptions.
- Accelerate decisions with AI-generated insights and recommended actions.
- Improve governance and accountability from planning through handover and operations.

How to get started:

- Standardize core processes and data across planning, delivery, handover, and operations.
- Connect project management with finance, procurement, asset, and operational systems.
- Create a complete digital asset record that follows the asset through its lifecycle.
- Use AI to identify incomplete handoffs, emerging risks, and required next actions.
- Automate reviews, routing, and compliance controls to keep work moving.

Oracle capabilities supporting strategic goals



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Start your journey

Questions for capital project owners

AI-enabled portfolio value and prioritization

How could AI help prioritize capital projects against enterprise strategy, funding capacity, risk, and expected business value?

What early-warning signals could AI identify across cost, schedule, scope, resource, and supplier data?

Which investment decisions would improve with AI-generated forecasts, scenario analysis, and recommended actions?

What governance, data quality, and human-review controls are needed to use AI confidently?

Connected enterprise and capital project data

Which project data is currently disconnected from finance, procurement, contracts, assets, and operations?

Do we have a common data foundation linking portfolio plans, budgets, actuals, schedules, change orders, and asset records?

Can stakeholders trace a project's impact from capital request through delivery, handover, and ongoing operations?

Where do siloed systems or spreadsheets create duplicate work, inconsistent reporting, or missed risks?

Predictable delivery and lifecycle performance

Where do handoffs break down between planning, project delivery, commissioning, and operations?

Are approvals, controls, and compliance evidence embedded in the workflow—or managed outside the system?

Can teams act on a shared view of project health before issues affect business outcomes?

How are lessons learned and proven practices captured and reused across future capital projects?



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Contractor and EPC outcomes

Connected teams, controlled workflows, and earlier visibility into threats to margin and schedule

1. Prioritizing investment into projects that best align with organizations' goals.
2. Consistently executing projects across the portfolio using standardized, connected processes to help prevent surprises and achieve on time and on budget performance.
3. Efficiently operating a finished asset that meets value, scope, and quality expectations.

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Disconnected teams and data put project margin and delivery certainty at risk

1. **Mounting pressure to deliver with certainty:**
   Cost volatility, fragmented data, workforce constraints, and rising risk make it harder to protect project outcomes and margins.

2. **Productivity and margin pressure:**
   Scope change, rework, and cost volatility erode delivery performance.

3. **Disconnected teams and data:**
   Siloed project, commercial, field, and enterprise data slows decisions.

4. **Fragmented project, commercial, field, and enterprise data delays risk identification and action:**
   Incomplete, inconsistent data restricts early risk detection and prediction.



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A connected delivery organization.

1. Deliver more profitable projects with AI-powered productivity ❯
2. Keep every delivery partner aligned with connected, AI-powered collaboration ❯
3. Build a more productive, AI-enabled workforce ❯
4. Connect every team, everywhere, to keep delivery moving ❯
5. Detect and manage risk across delivery ❯
6. Start your journey ❯



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Deliver more profitable projects with AI-powered productivity

Connect project, field, supply-chain, and finance data to give Contractors and EPCs the insight and automation needed to reduce rework, manage risk earlier, and protect margin.

Recommended actions:

- Automate the finance function through agentic AI to help streamline financial workflows.
- Protect margin with earlier visibility into cost, schedule, and resource risk.
- Reduce rework by connecting teams to current drawings, documents, issues, and decisions.
- Improve client confidence and win repeat work by connecting sales, project delivery, and service experiences.
- Strengthen compliance and control through consistent, auditable workflows.
- Enable faster, more confident decisions with AI-powered project intelligence.

How to get started:

- Connect project execution data with commercial, supply-chain, and finance systems.
- Start AI with high-value use cases: project summaries, issue identification, document intelligence, and risk signals.
- Automate handoffs and approvals between the field and back office.
- Establish a trusted, governed data foundation that enables teams and AI to act from the same information.

Oracle capabilities enabling strategic goals



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Give every delivery partner one governed project record

Connect owners, contractors, subcontractors, and project teams around a shared view of documents, progress, decisions, and risk—reducing delays, rework, and costly miscommunication.

Recommended actions:

- Accelerate decisions with current, accessible project information.
- Reduce rework and disputes through controlled documents, drawings, and communication.
- Keep stakeholders aligned as project complexity and contract requirements increase.
- Surface workflow, schedule, and collaboration risks earlier with AI-driven insight.
- Build client confidence through transparent, timely project coordination.

How to get started:

- Create one collaboration environment for documents, drawings, models, issues, communications, payments.
- Connect internal teams, owners, contractors, and subcontractors to the same governed project information.
- Use AI to summarize project changes, identify unresolved issues, and highlight emerging workflow or schedule risk.
- Standardize collaboration, review, and approval workflows across projects.

Oracle capabilities enabling strategic goals

Project management, documents, and collaboration	Construction intelligence cloud	Trusted payment workflows

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Put project knowledge in the flow of work

Help Contractors and EPCs do more with limited capacity by connecting people to project knowledge, automating routine work, and applying AI to accelerate learning, decisions, and performance.

Recommended actions:

- Use agents to continuously evaluate staffing coverage, policy risk, absence requests, and timecard data, then surface what needs attention.
- Preserve institutional knowledge as experienced workers retire or move between projects.
- Accelerate onboarding and upskilling through agentic AI with a human in the loop
- Strengthen subcontractor and supplier relationships through simpler, more connected workflows.

How to get started:

- Identify high-volume, knowledge-intensive tasks that can be automated or AI-assisted.
- Connect project documents, processes, and communications so AI can surface relevant, trusted information.
- Use AI to summarize project information, answer routine questions, and guide new team members.
- Focus workforce development on the skills needed to work effectively alongside AI and data-driven tools.

Oracle capabilities enabling strategic goals

Human Capital Management	Project management, documents, and collaboration	AI/insights

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Connect field, commercial, and enterprise teams

Connect field execution, supply chain, project controls, and finance to respond faster to disruption, protect schedules, and keep work moving.

Recommended actions:

- Improve delivery agility when material, labor, or logistics conditions change.
- Protect cost and schedule performance with a connected view of commitments, progress, and financial impact.
- Automate procurement and payments through agentic AI where supported by available functionality and appropriate controls.
- Enable faster field decisions with current, accessible project and supply-chain information.
- Use AI to identify emerging constraints, explain impacts, and guide timely action.

How to get started:

- Connect scheduling, project controls, procurement, contracts, payments, and finance data.
- Modernize document, subcontractor payment, planning, and supply-chain workflows in the cloud.
- Establish a shared view of supplier performance, commitments, material status, and project risk.
- Use AI to help teams find policy and procurement information, summarize exceptions, and identify potential disruptions.

Oracle capabilities enabling strategic goals



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Predict and prevent delivery risk with connected project and site data

Connect project and enterprise data to identify safety, schedule, cost, contractual, and operational risks earlier, then guide accountable action.

Recommended actions:

- Help identify high-risk conditions earlier to support proactive safety management.
- Limit schedule and cost impacts through earlier risk visibility and intervention.
- Strengthen compliance and contractual control with consistent, auditable processes.
- Improve allocation of contingency funds and resources based on current risk exposure.
- Use AI to turn jobsite images, video, sensor, and project data into actionable risk intelligence.

How to get started:

- Connect jobsite observations, workforce data, project controls, contracts, and communications.
- Use AI to detect anomalies, summarize risk signals, and prioritize issues for human review.
- Standardize safety plans, incident reporting, and escalation workflows across every site.
- Establish current controls for cybersecurity, access, compliance, and risk governance.

Oracle capabilities enabling strategic goals



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Start your journey

Questions for delivery organizations

Productivity, margins, and AI readiness

Where are cost, schedule, productivity, and margin risks identified today—and how early?

Which recurring project-management tasks consume the most time or require manual consolidation?

Is our project data sufficiently complete, trusted, and accessible to support AI-driven insight?

Connected teams and data

Can project managers, field teams, subcontractors, and commercial teams work from the same current view of project performance?

Which critical data remains disconnected across schedule, cost, contracts, documents, progress, and issues?

Where do handoffs or approval processes delay action?

Workforce capacity and knowledge

Where do skill shortages or reliance on experienced personnel create delivery risk?

How effectively do we capture lessons learned and make project knowledge available to the next team?

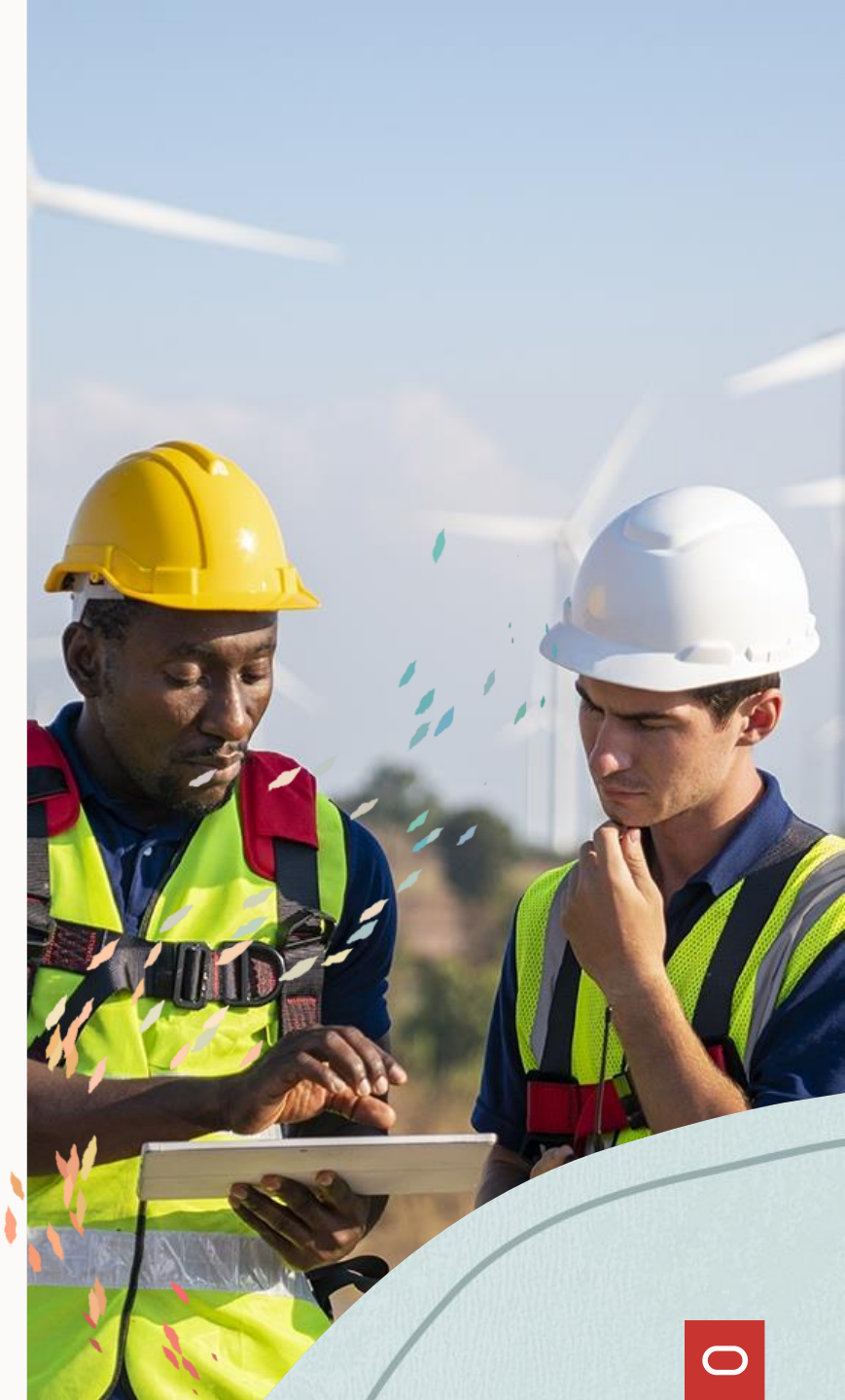
Which knowledge-intensive activities could benefit from AI-assisted search, summaries, or guidance?

Supply chain, safety, and risk

How early can teams see potential material, subcontractor, quality, safety, or compliance issues?

Can teams connect risk signals across the project to understand likely cost and schedule impacts?

What controls are needed to use AI responsibly while retaining human accountability for delivery decisions?



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The Oracle AI Advantage

Connect industry and enterprise processes, trusted data, AI, and cloud infrastructure to improve outcomes.

Oracle Applications

Agentic Applications • AI Agent Studio

Industry Applications

- Capital Projects and Construction
- Retail
- Utilities
- Health and Life Sciences
- Restaurants
- Communications
- Financial Services
- Hospitality
- Public Sector

Enterprise Applications

- Enterprise Resource Planning
- Human Capital Management
- Customer Experience
- Supply Chain

Data Intelligence – Fusion • NetSuite • Industry • Health

AI Database & AI Data Platform

- Multicloud AI Database
- Autonomous AI Database
- Autonomous AI Lakehouse
- Semantic Engine
- Analytics
- GenAI Service

Oracle Cloud Infrastructure

AI Services – Governance • OCI Enterprise AI • Accelerator Packs

- Compute • Networking • Storage
- Supercluster

Public Cloud • Dedicated Cloud • Alloy • Sovereign Cloud • Government Cloud

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Additional ways Oracle serves Engineering and Construction

Intelligent Communications



Connect unified communications, contact centers, carriers, security, compliance, and AI across hybrid and multicloud environments. With open, policy-driven orchestration, you retain carrier control, preserve dial plans, and unify security and compliance.

Connected Engineering and Construction Operations



Connect construction equipment, job sites, field sensors, vehicles, and project platforms to collect telemetry, enable digital twins, and transform real-time operational data into actionable insights. Improve equipment utilization and worker safety, support predictive maintenance, help optimize project timelines and resource allocation, and increase visibility across construction operations.

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Why Oracle?



Complete Suite

Best-of-breed apps designed and built based on customer needs—with AI throughout.

Industry-specific apps, finance, HR, supply chain, manufacturing, marketing, sales, service, and analytics built to work together.



Best Cloud Technology

Next-generation Oracle Cloud Infrastructure (OCI) with the performance, security, and availability to run your mission-critical operations.

Cloud regions worldwide for commercial and government needs.



Award-Winning Design

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.



Committed to Your Success

Oracle Customer Success Services helps you maximize your cloud investment with proactive support, expert guidance, and comprehensive tools and best practices.

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Oracle AI Success Navigator

Unlocking the Full Potential of Oracle Cloud Applications with AI-Driven Best Practices

Achieve cloud transformation objectives

Leverage Oracle standards with AI guided actions, role-level ownership, and accountability across your team, Oracle, and your SI

Make confident design decisions

Oracle Modern Best Practice and Oracle University learning modules deepen understanding and reduce customization risk, while hands-on practice through Starter Configuration helps drive experience-based decisions

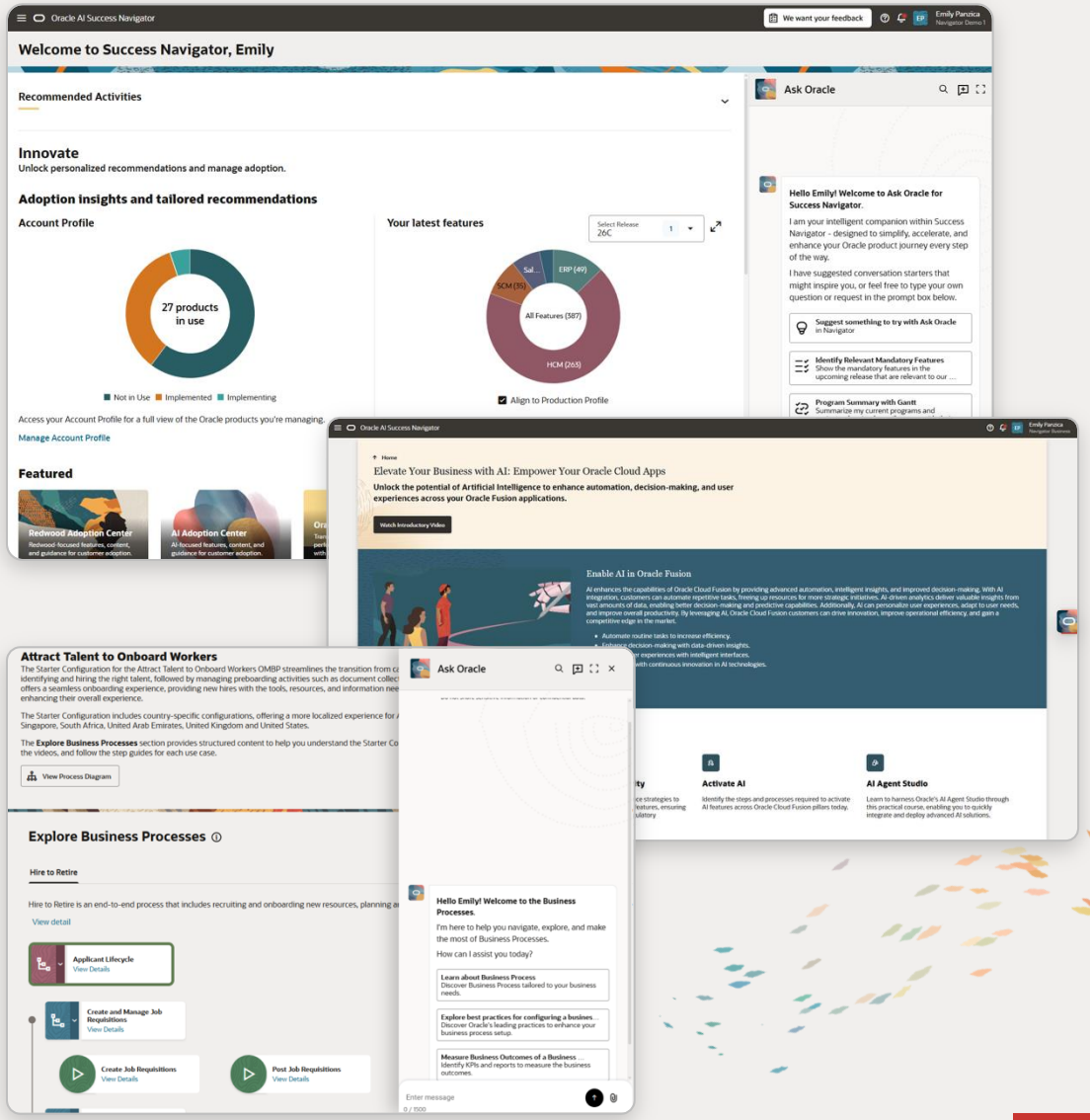
Increase your investment's value with AI innovations

Accelerated process optimization and AI-driven recommendations maximize value of your Oracle investment, while consolidated release materials with customizable adoption roadmaps drive business and IT alignment

Leverage AI every step of the cloud journey

AI agents shape your journey and provide strategies for ongoing evolutions, so teams can focus on the differentiating, higher-value work

ORACLE
AI Success Navigator



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Co-innovate with Oracle to turn business challenges into AI solutions

Oracle's AI co-innovation motion brings Oracle product engineers, industry experts, and adoption expertise together with customer teams.



Bring your AI use case

Solve priority problems with measurable value

Co-innovate in pods

Partner with experts to understand workflow, data and requirements

Prototype-pilot

Build quickly and prove impact against KPIs

Sustain innovation

Evolve validated solutions beyond the pilot



Customer outcomes

Working production solution

A priority workflow built and run in your environment

Measured value

Progress tied to a North-Star KPI, not just a demo

Enterprise-ready execution

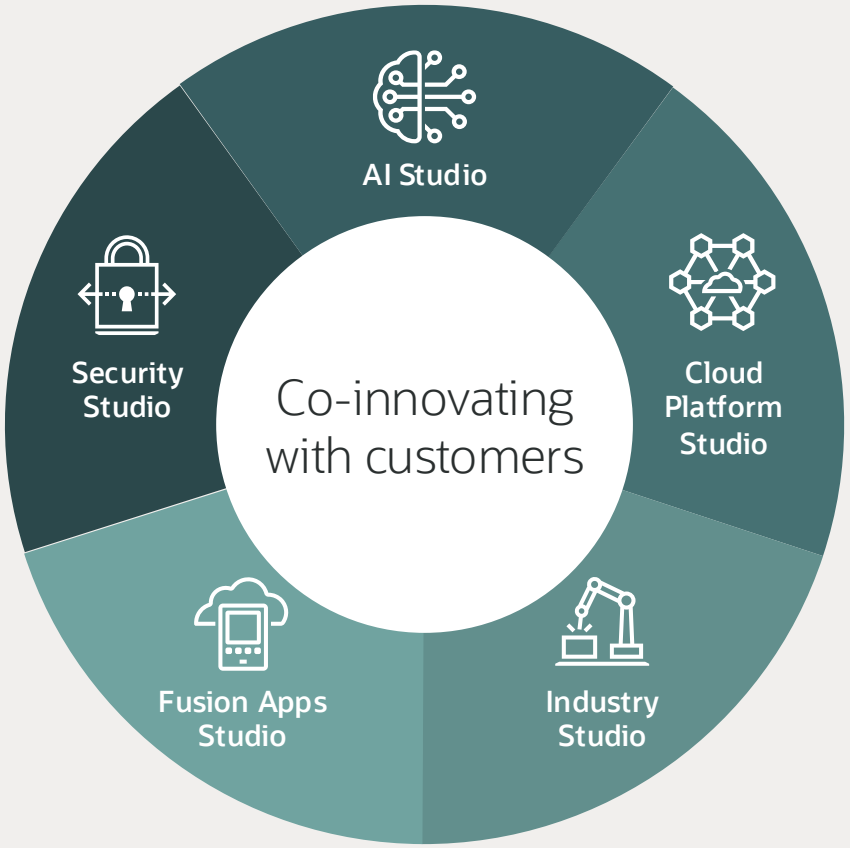
Security, run-readiness guardrails and full telemetry

Direct product influence

Validated learning informs reusable capability and future product direction

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Driving value realization with CSS innovation studios



Accelerate Value Realization

Optimize business processes, minimize human error, and streamline labor-intensive tedious tasks through customer-centric industry solutions

Drive Innovation Adoption

Leverage Design Thinking workshops and MVPs to prioritize Oracle innovations and AI relevant for your business and then scale to production

Maximize Investment

Gain the benefits of AI, data infrastructure, and applications with CSS solutions, best practices, and guidance

Delivery Advantage

FDE approach blends functional, technical, and AI specialists to accelerate end-to-end delivery—from business design to scalable, value-led deployment.

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Extensive partner ecosystem

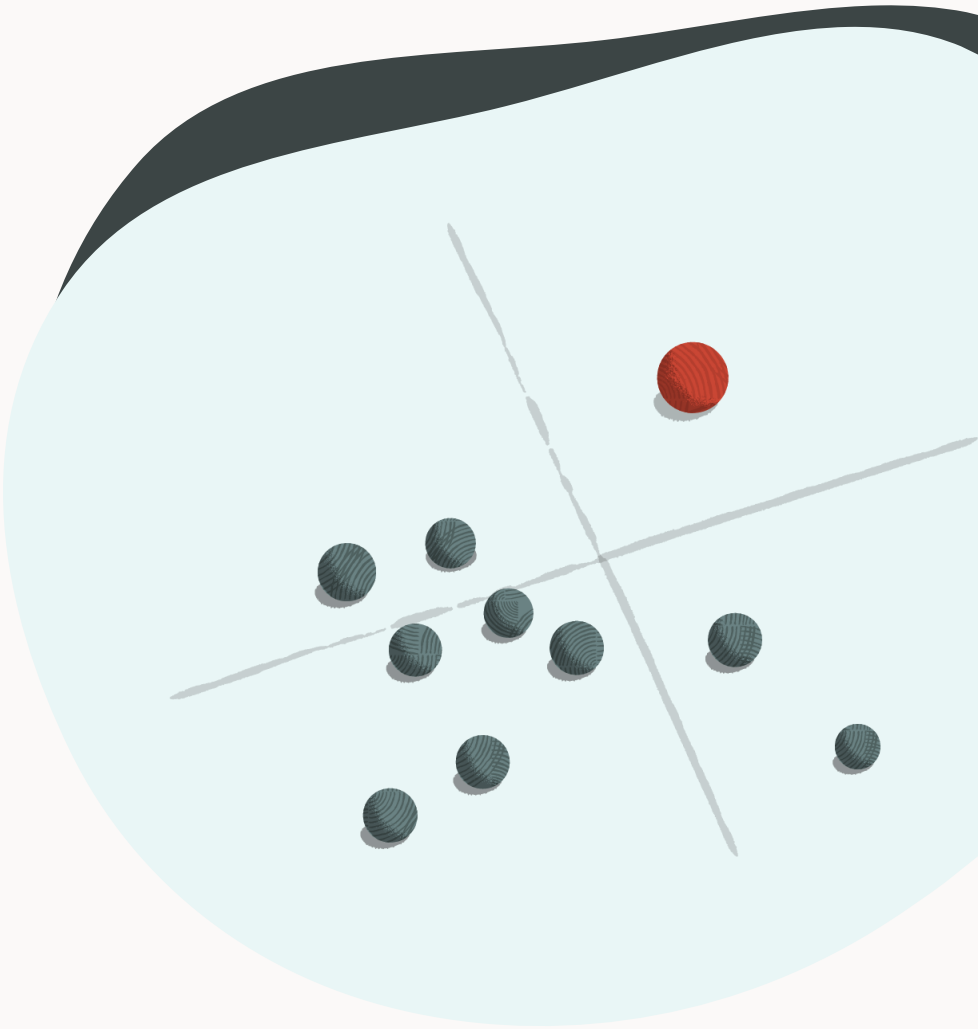
+20,000

Partners and ISVs

accenture
cognizant
Deloitte.
IBM
pwc
argano
cohere
DXC TECHNOLOGY
HURON
Peloton CONSULTING GROUP | Digital Transformation Realized.
VERTEX
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