Oracle Playbook

LIFE SCIENCES

Powering the Future of Life Sciences

Modernizing life sciences technology, transforming healthcare

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Life sciences

Life sciences organizations face relentless pressure to accelerate innovation while controlling costs. Yet, fragmented technology, siloed data, clinical trial inequities, and supply chain disruptions make this increasingly difficult. To overcome these challenges and drive better health outcomes, they need cutting-edge technology, seamless data access, and rapidly expanding expertise in innovation.

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Key imperatives for life sciences

1. Leverage technology innovation to transform the business
2. Adopt a patient-centric approach with a focus on improving clinical care
3. Mitigate risk—both for regulatory compliance and cybersecurity

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Forces shaping the life sciences sector

INDUSTRY CHALLENGES

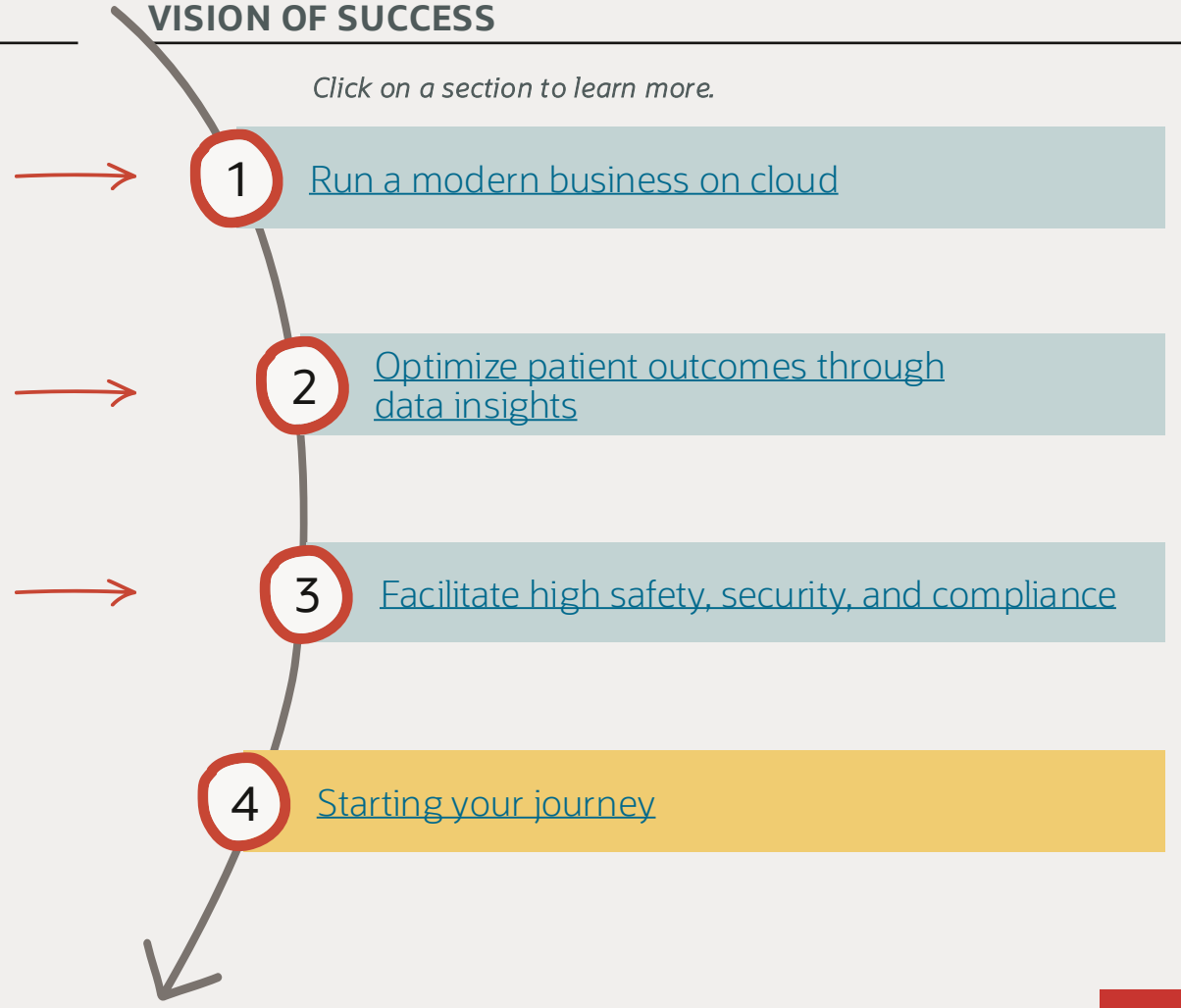
Outdated technology that constrains the business
Older systems, data silos, and data latency hinder business success. Though profits are regularly scrutinized in the public eye, life sciences organizations must operate profitably like any other commercial business.

Need to improve patient outcomes and efficacy
Life sciences companies face an ongoing imperative to improve patient outcomes. Labeling mishaps, slow responses to issues, and other negative press can have a detrimental impact on a brand.

Managing risk in changing regulatory environments
Life sciences businesses are subject to significant regulation by bodies such as the FDA. Regulations exist across a broad range of business activities including manufacturing, labeling, and sales and marketing.

VISION OF SUCCESS

Click on a section to learn more.



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1: Run a modern business on cloud

Run a modern business by leveraging integrated systems that link ERP, clinical data, and health outcomes for the entire enterprise. Manage revenue while taking a balanced approach to profitability that doesn't come across as gouging patients.

Recommended actions:

- Invest in modernizing your technology stack to a real-time, connected cloud.
- Get granular about planning and budgeting.
- Manage your people to think holistically about the business—and give them modern tools for actionable insights.

How to get started:

- Learn about AI and how it can drive better efficiency and optimization in a way that addresses regulation and compliance requirements.
- Use AI to do real-time trend and variance analysis via natural language interactions, run event-driven predictions on financial/operational data, and guide "what if" simulations.
- Provide a conversational interface to help users build, modify, calculate, and analyze profitability and cost models.

Oracle capabilities enabling strategic goals

Finance	Planning and budgeting	Human capital	AI	Patient data	Manufacturing

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2: Optimize patient outcomes through data insights

Leverage advanced analytics based on real-time information about patient outcomes to inform drug development and optimize results.

Recommended actions:

- Understand patient outcomes in real time with high correlation to drug development.
- Implement smarter ways of planning and manufacturing.
- Test and innovate to optimize patient outcomes as the key goal.
- Help effectively manage drug recalls and other critical communications.

How to get started:

- Understand demand and regulatory changes by region.
- Determine the right KPIs to measure outcomes.
- Learn how you can integrate sensors and wearables for better, more comprehensive data about patient outcomes.
- Use generative AI for summarization.

Oracle capabilities enabling strategic goals

Patient experience	Manufacturing	Clinical trial management	Analytics	Product recall management	Integration

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3: Facilitate high safety, security, and compliance

Protect systems from threats. Keep up with changing regulatory and sustainability needs. Maximize patient and employee safety and immediately respond to any issues.

Recommended actions:

- Leverage secure cloud technology for compliance and threat protection.
- Implement modern employee health and safety systems to keep workers safe.
- Track and measure adherence to changing compliance needs.
- Use blockchain to maintain required conditions (e.g., temperature, humidity) during transit of medications and drug components.

How to get started:

- Understand key regulatory and compliance requirements for consumers and workers.
- Plan a cloud modernization for aging systems that may expose the organization to security risks.

Oracle capabilities enabling strategic goals

Manufacturing	Employee health and safety	Cloud	Training	Governance, risk, and compliance	Blockchain

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Internal questions to get going

Data

Do we have the data we need to make the right decisions?

How well integrated are our systems?

Are we integrated into third-party systems where needed?

Employees

Do our employees feel like they're working with modern technology?

What kind of upskilling will our teams need to administer and adopt this kind of cloud technology?

Which teams do we foresee being the hardest to enable? The fastest?

Operations

What kind of analytics and insights do we need on day one of going live?

What are the biggest regulatory and compliance risks we regularly face?

Do we have a clear understanding of all the parties working with our organization?

Can we connect data silos to align operations with results?

System architecture and consolidation

Do our IT silos hurt our business?

Do we struggle with outdated technology that hinders efficiency and accuracy?

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Four key elements to your success

Leadership defines vision/urgency for AI adoption, alongside commitment to customer success and continuous improvement.

Processes are continually reimagined to **streamline** operations and **empower** people to focus on higher-value work.

Oracle provides everything you need to deploy best-in-class applications and continuously innovate – with AI and agentic at the core.

Benefit from a unified data model provided by Oracle's end-to-end technology stack and invest in data governance.

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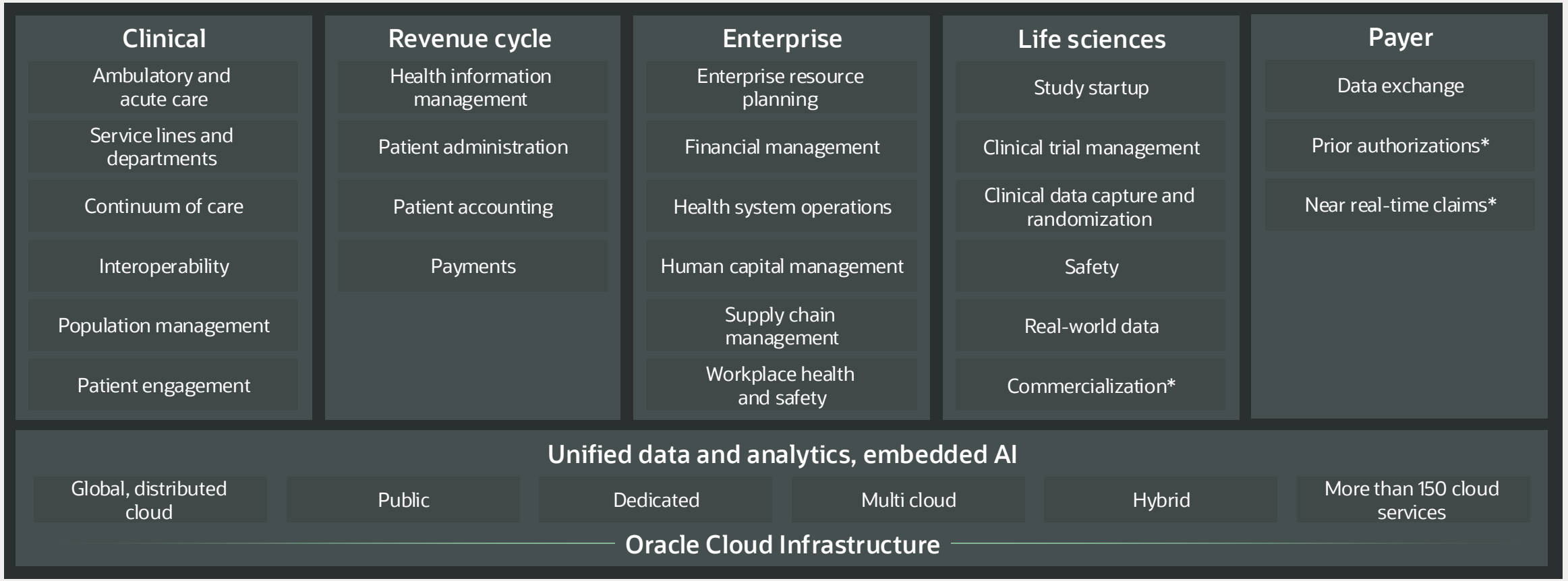
Oracle Health and Life Sciences

Comprehensive solutions for healthcare innovation



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Additional ways Oracle serves Life Sciences

Complete Capital Program Management

Support project governance, visibility, and performance across capital project portfolios. Address project risk, manage change, and sharpen decisions from ideation and planning through execution and asset operation.

Secure Network

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 Life Sciences Operations

Connect laboratory equipment, clinical devices, patient monitoring systems, and operational platforms to collect telemetry, enable digital twins, and transform real-time operational data into actionable insights. Improve clinical data visibility, help track patient progress and clinical results, help support compliance, enhance predictive maintenance, and help improve life sciences operations.

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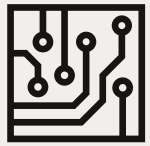
Why Oracle?

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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Committed to your success

Oracle Cloud Success Navigator

Achieve Cloud transformation objectives

Cloud success starts with projects that are delivered on time, on budget, and done right the first time. Leverage standards from +10K implementations with AI guided actions, role-level ownership, and accountability across your team, Oracle, and your SI to achieve success faster.

Confident design decisions deliver exceptional results

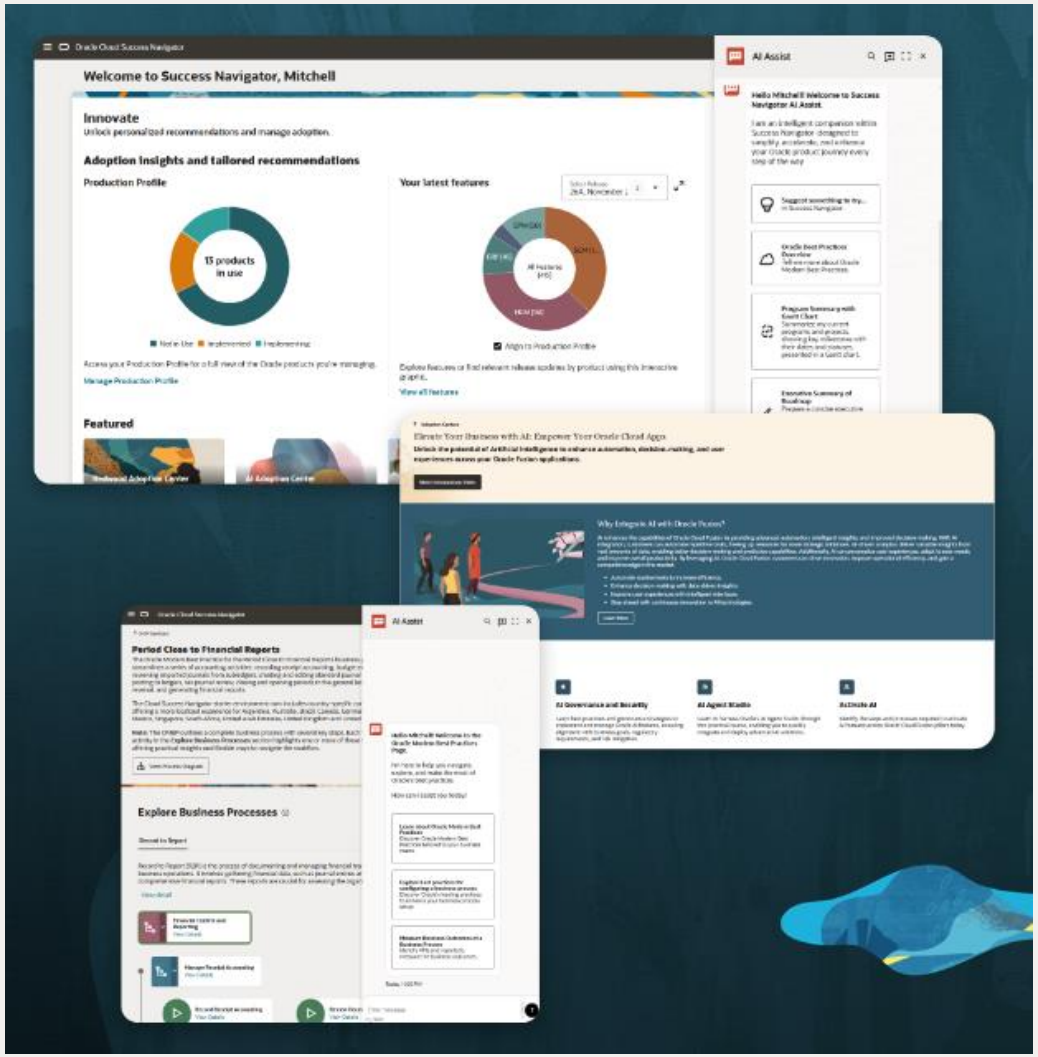
Oracle Modern Best Practices and Oracle University modules establish knowledge of your Oracle solutions and reduce customization risk. Hands on application practice through Starter Configuration helps drive decisions from experience.

Increase your investment's value with AI and innovations

Reduce cycles and costs while AI identifies gaps and expedites planning. 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 create tailored strategies for ongoing evolution. Empower teams and increase satisfaction by directing resources toward value innovation not tedious administration.



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Extensive partner ecosystem

+20,000

Partners and ISVs

accenture

Deloitte.

KPMG

pwc

cohere

Palantir

Red Hat

THOMSON REUTERS

VERTEX

aws

Google Cloud

Azure

NVIDIA

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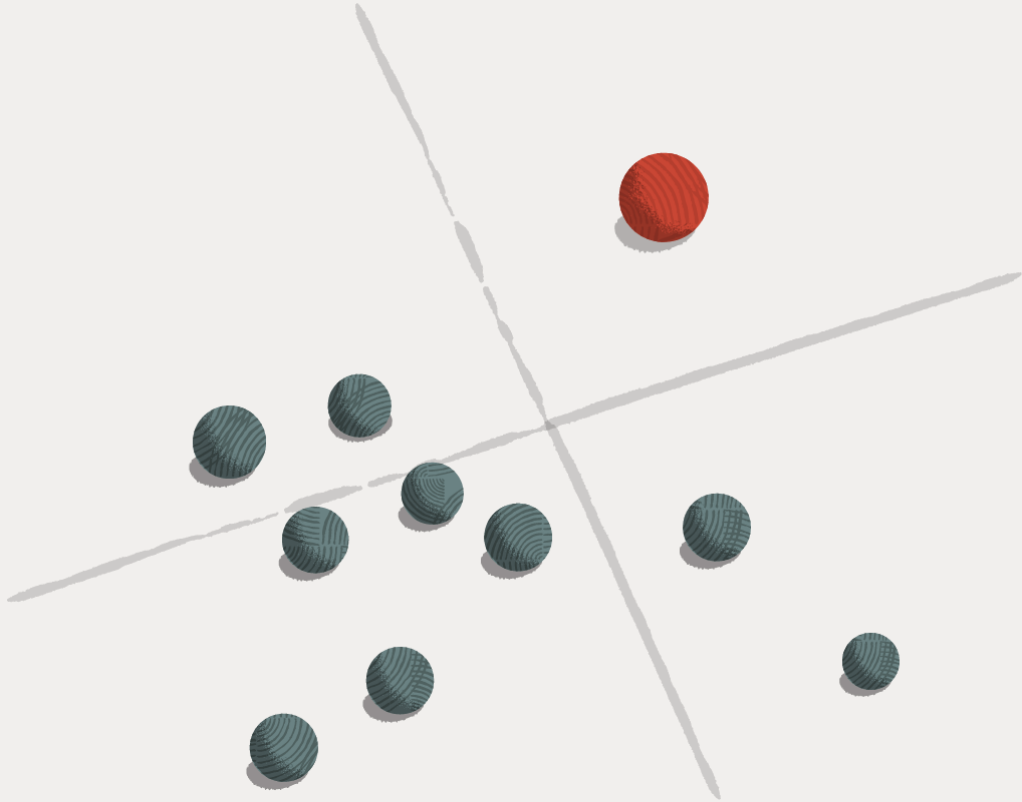

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