# How it all comes together

All of this is made possible with the Databricks Data Intelligence Platform, which is built for sharing and collaboration. Data sharing and collaboration in the Databricks Platform is built on top governance (Unity Catalog) and storage layer (Delta Lake, Iceberg, Parquet).

As we discussed earlier in this book, Databricks Marketplace is the open marketplace for all your data, analytics and AI. Databricks Clean Rooms allows businesses to easily collaborate in a secure environment with their customers and partners on any cloud in a privacy-safe way. Both of these are powered by Delta Sharing. And all of this is secured and governed by Unity Catalog.

The integration of Delta Sharing with Unity Catalog ensures that data sharing is secure and governed, meeting compliance and privacy requirements. Unity Catalog provides centralized governance and security for data sharing. It allows organizations to manage, audit and track the usage of shared data, ensuring compliance with security and regulatory requirements.

Delta Lake, Apache Iceberg and Parquet are foundational technologies that enable efficient data sharing and collaboration across industries.

By integrating the capabilities required by data engineers, data scientists and business analysts into a single platform, Databricks eliminates the complexity and inefficiencies associated with using disparate tools. This unified approach supports a wide range of data analysis and AI tasks.
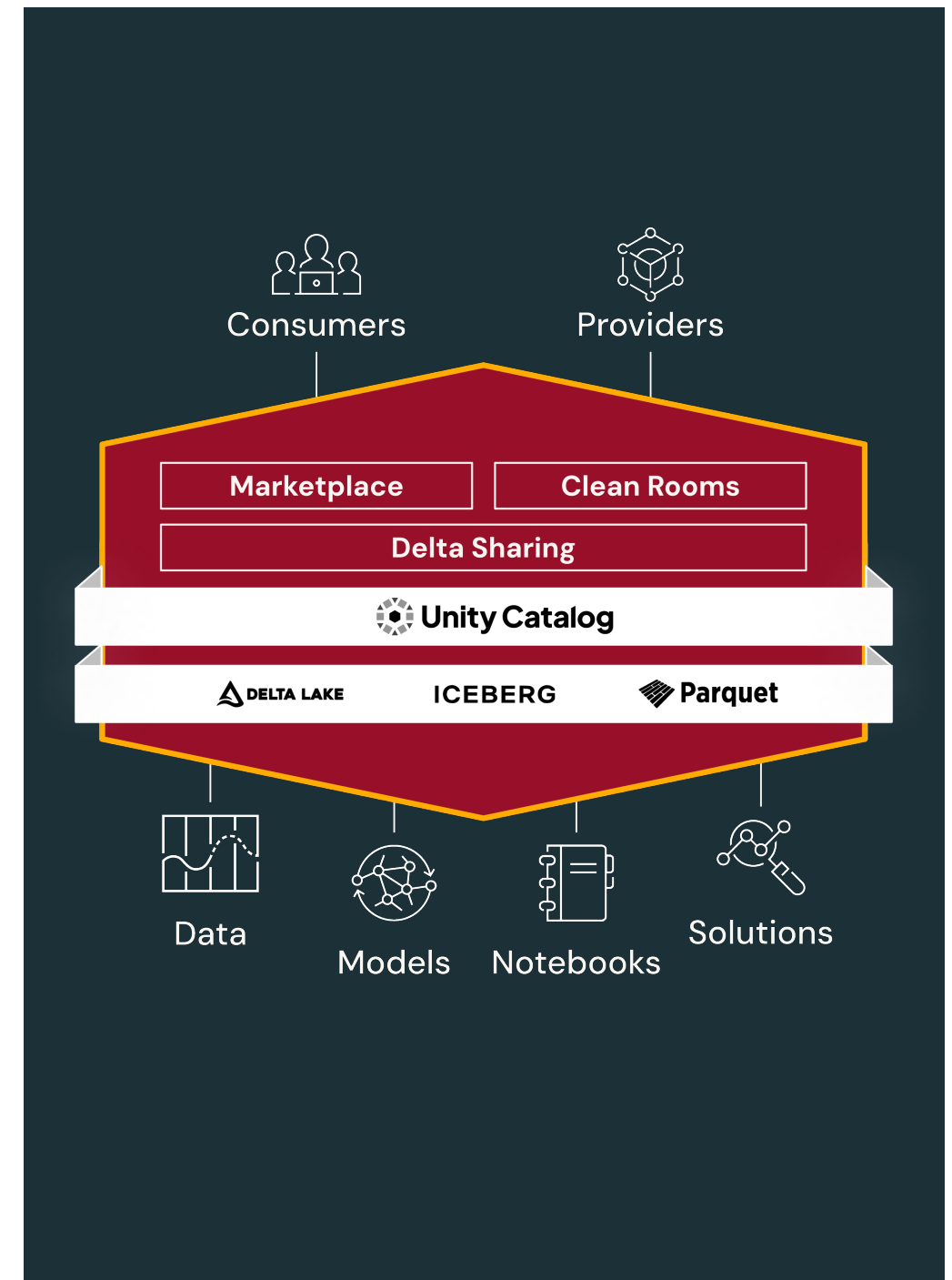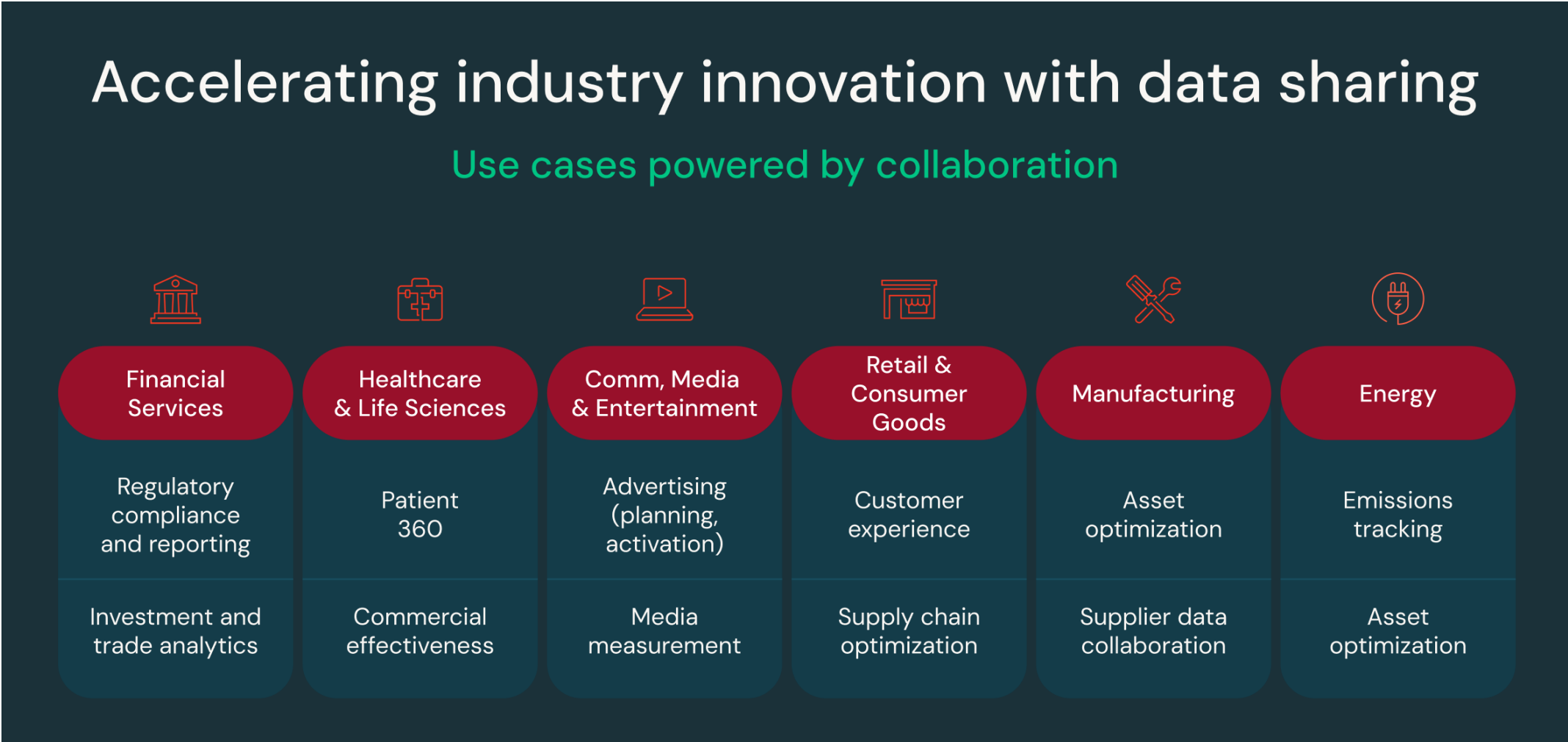
Data sharing across industries

Data sharing has become a critical enabler across multiple industries, driving innovation, efficiency and collaboration. Here are some key examples:

- **Retail:** Data sharing helps retailers create a unified customer view by integrating data from various sources like weather, events and pricing to offer personalized marketing and optimize supply chains. It also facilitates real-time collaboration with suppliers to improve inventory management and reduce response times.

- **Financial Services:** In an industry where regulatory compliance is paramount, data sharing ensures timely and accurate reporting for regulations such as AML (anti-money laundering) and KYC (Know Your Customer). Real-time access to data enhances transparency and efficiency in meeting compliance requirements.

- **Healthcare and Life Sciences:** Data sharing powers initiatives like Patient 360 by combining clinical data from electronic health records (EHRs), insurance claims and wearable devices. This holistic view improves patient outcomes and enables better collaboration across the healthcare ecosystem. Data sharing is highly relevant to real-world evidence (RWE) for life sciences companies to understand how medical treatments perform in everyday settings, beyond the controlled environment of clinical trials.

- **Manufacturing:** In industrial manufacturing, data sharing is essential for predictive maintenance and asset optimization. By securely sharing equipment performance data with suppliers, manufacturers can predict failures before they occur, driving efficiency across production lines.

- **Energy:** Data sharing supports emissions tracking and carbon offset verification by integrating diverse data sources. This helps energy companies optimize asset performance and collaborate on sustainability initiatives without compromising sensitive information.

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Accelerating industry innovation with data sharing

Use cases powered by collaboration

Financial Services	Healthcare & Life Sciences	Comm, Media & Entertainment	Retail & Consumer Goods	Manufacturing	Energy
Regulatory compliance and reporting	Patient 360	Advertising (planning, activation)	Customer experience	Asset optimization	Emissions tracking
Investment and trade analytics	Commercial effectiveness	Media measurement	Supply chain optimization	Supplier data collaboration	Asset optimization

Across these sectors, secure and privacy–compliant data sharing is transforming operations, enhancing decision–making and fostering deeper collaboration between stakeholders.
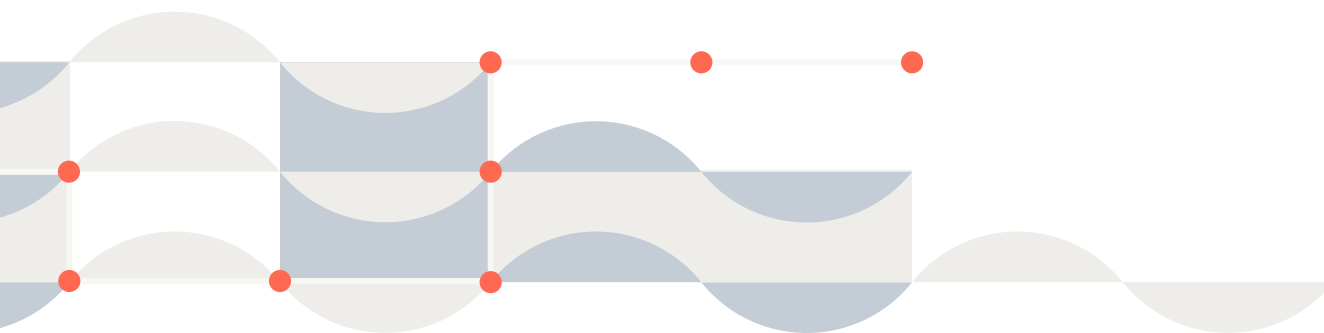
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Resources
Getting Started With Data Sharing and Collaboration

Data sharing plays a key role in business processes across the enterprise, from product development and internal operations to customer experience and compliance. However, most businesses have been slow to move forward because of incompatibility between systems, complexity and security concerns.

Data–driven organizations need an open — and secure — approach to data sharing. Delta Sharing answers this need without imposing restrictions or additional costs. It's the first–ever open protocol, an open standard for sharing a dataset securely. With Delta Sharing, organizations can easily share existing large–scale datasets, based on open source formats like Apache Parquet, Iceberg and Delta Lake, without moving data. Databricks Marketplace expands on this

by offering an open platform for exchanging not just data but also AI and analytics assets such as AI models, notebooks and Solution Accelerators. Databricks Clean Rooms provides a secure, privacy–safe environment for multiple parties to collaborate on sensitive data without exposing raw data.

- **Share across platforms:** You can share live datasets, AI models and notebooks across platforms, clouds and regions. This open approach is powered by Delta Sharing, the world's first open protocol for secure data sharing, which allows organizations to share data for any use case, any tool and on any cloud.

- **Share all your data and AI:** Databricks Marketplace is an open marketplace for all your data, analytics and AI, enabling both data consumers and data providers to deliver innovation and advance analytics and AI initiatives

- **Share securely:** Databricks Clean Rooms allows businesses to easily collaborate with customers and partners on any cloud in a privacy–safe way. With Delta Sharing, clean room participants can securely share data from their data lakes without any data replication across clouds or regions. Your data stays with you without vendor lock–in, and you can centrally audit and monitor its usage.

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Get started with these products by exploring the resources below.

Delta Sharing

- Data Sharing on Databricks

- Learn About Databricks Unity Catalog

- Blog Post: What's New With Data Sharing and Collaboration on the Lakehouse

- Learn About Open Source Delta Sharing

- Video: What's New With Data Sharing and Collaboration on the Lakehouse

- AWS Documentation

- Azure Documentation

Databricks Marketplace

- Learn About Databricks Marketplace

- Explore Databricks Marketplace

- Video: Databricks Marketplace — Going Beyond Data and Applications

- Demo: Databricks Marketplace

- AWS Documentation: What Is Databricks Marketplace?

- Azure Documentation: What Is Databricks Marketplace?

Databricks Clean Rooms

- Learn About Databricks Clean Rooms

- Video: What's New With Data Sharing and Collaboration on the Lakehouse

- eBook: The Definitive Guide to Data Clean Rooms

- Webinar: Unlock the Power of Secure Data Collaboration with Clean Rooms

- Product Tour

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