EDM Webinar

Address Your Blind Spots Around Mission-Critical Data

A conversation with

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Today's speakers

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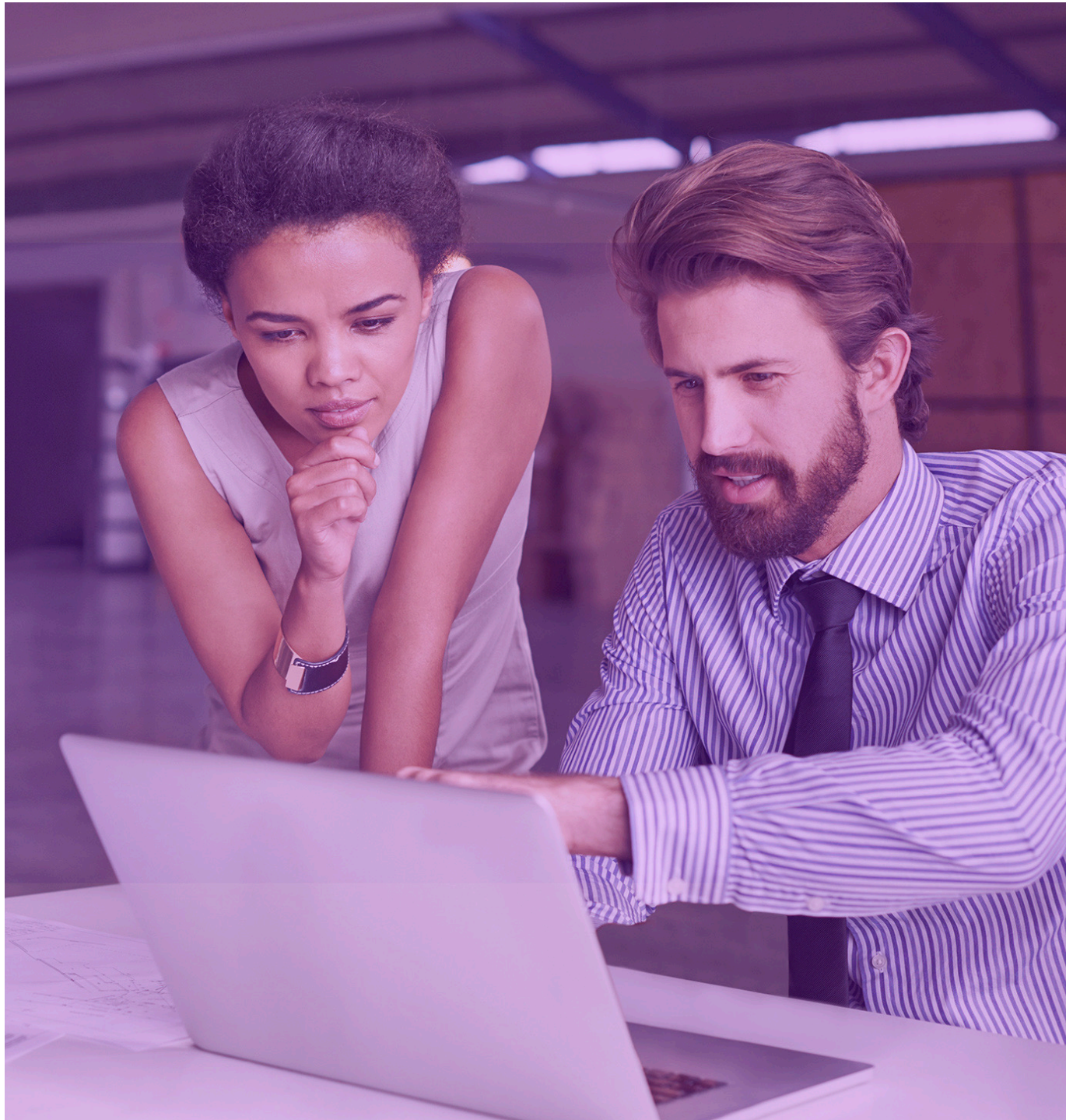
Address Your Blind Spots Around Mission-Critical Data

Ashwin Ramachandran,
Senior Director, Product Management

Agenda

- The benefits of modernization
- Modernization challenges
- The complexity of mission-critical assets
- Solutions for Integration success
- Customer story



What are the benefits of modern analytics platforms?

Enable competitive differentiation

Optimize existing spend

Leverage market-available skills

Achieve insight at any scale

What systems are mission critical?

Deeply entrenched history in the business

Run core business operations that directly impact revenue

High-visibility, with tight security restrictions in place

Contain rich data assets that are constantly changing

Market growth trends

$5.3 Billion

2022 Mainframe market growing at 2.6% CAGR

>50%

2019 Mainframe transaction growth

>15%

2020-2025 CAGR for cloud database and DBaaS markets

Poll #1

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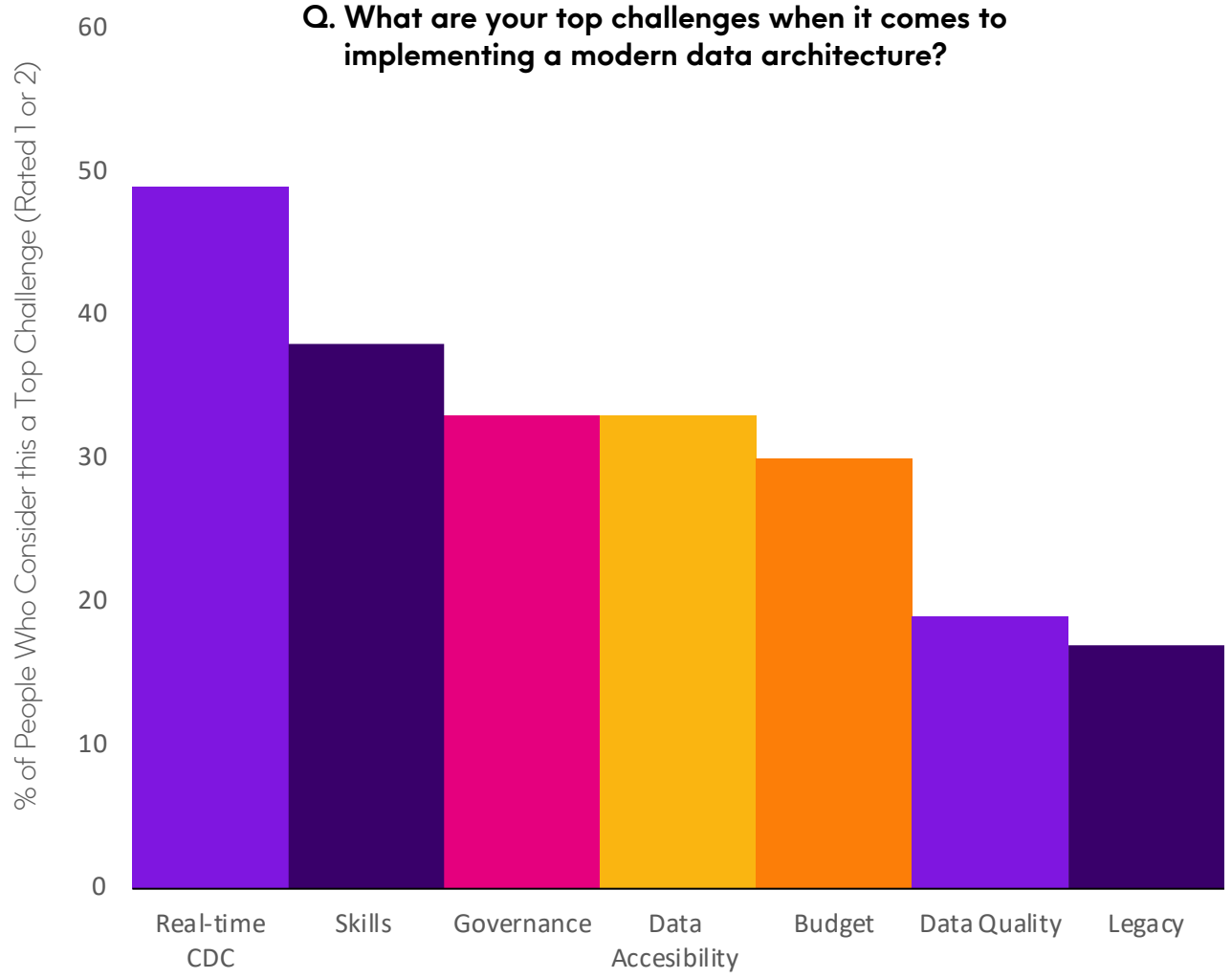
How can mission-critical data contribute to success?

Opportunity	Impact
Mission-critical systems that generate data are **not** going away	The need to reliably integrate this kind of data at speed continues to grow
Treasure trove of historical data	Decisions can be made *in-context*
Comprehensive views of business entities	Can enable data-driven initiatives like Customer 360, fraud prevention, and more

The integration challenge remains complex...

- Real-time Change Data Capture
- Shortage of Skills/Staff
- Data Accessibility for Users Across the Business
- Budget
- Poor Data Quality
- Difficulty leveraging Mainframe, IBM i, and other mission-critical systems
- Scalability



...and some challenges are nebulous!

Cultural barriers within an organization cannot be ignored!

- Onboarding data from SaaS-based assets is straightforward
- Mainframe teams and IBM i teams are typically siloed from data teams implementing new applications and analytics on the cloud
- Strict limitations exist around installing products, opening ports, and accessing data
- Need to implement a solution that clears all these cultural hurdles while still delivering a technically viable solution

Poll #2

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Steps to successfully leverage mission-critical data

1. Start by eliminating a silo
2. Escape the delay of batching
3. Identify opportunities to scale up
4. Explore modernizing existing applications

Eliminate the silos!

- Choose standard connectivity protocols
  - JDBC
  - SFTP
  - FTP(S) or Connect: Direct for mainframe platforms
- Leverage existing metadata to minimize error and maximize reusability
  - Copybooks, table DDLs, schema registries
- Ensure encryption of data in flight at every point in the journey
- Be flexible to a combination of data delivery styles and topologies:
  - One-way
  - Broadcast
  - Consolidation

Replicate data at the speed of business

- Use log-based change data capture techniques to identify transactions ***as they occur***
  - Minimize impact to online transactional backends
  - Example mechanisms include:
    - IFCID 306
    - CICS
    - IBM i journals
    - Oracle redo and archive logs

- Ensure that data availability is treated with the same urgency as infrastructure or application availability

- Perform data translation and conversion ***off-platform*** wherever possible
  - zIIP offloading for complex mainframe operations
  - MIPS reduction to minimize impact to platform

Scale it up and drive new use cases!

Warehousing modernization, BI, and analytics

Real-time applications and to facilitate lambda architectures

Rehosting and modernizing on-premises deployments

Poll #3

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Modernize more than just data

1

Use replication to connect live applications on mission-critical platforms to new applications on the cloud

2

Opens up opportunities for migrating existing applications that run on the mission-critical platform

3

Mainframe applications can be migrated to cloud platforms without redevelopment by leveraging a rehosting solution or a tool like Connect

SKY

"We soon determined that Connect was doing exactly what it said on the box. It was working as designed...[it] opens up the whole database to us. If we add any new tables, then it's easy to add them to the extraction process and replications."

Quintin McKenzie
Head of Corporate Core

Sky realizes real-time, error-free data replication

OBJECTIVE

- In digital transformation mode
- Consolidating toolsets across the enterprise and moving functions like analytics to Snowflake on AWS
- Struggled to populate Snowflake with their mission-critical data

CHALLENGES

- Business-critical systems such as billing, subscriber management, and chart of accounts all run on IBM i, each with its own file structure
- Existing bespoke ETL processes were inflexible, slow to run (4-10 hours), and prone to network issues
- Needed a new process to automatically feed Snowflake with this critical data without impacting IT

SOLUTION

- Precisely Connect
- Snowflake on AWS

BENEFIT

- Sales now has a view into subscriber behavior that is current
- IT focused on making higher-value contribution to the business instead of rebuilding pipelines that are prone to break upon change
- Innovation is occurring on Snowflake in the form of new applications, while the mission-critical, reliable, IBM i backends run unchanged

Key Takeaways

1. Mission-critical data helps fulfill the promises of digital modernization
2. There are numerous challenges both technical and organizational
3. Get early wins, moving to real-time data delivery where possible
4. Use your unlocked data to intelligently modernize your applications

Questions?

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Our software, data enrichment products and strategic services deliver accuracy, consistency, and context in your data, powering confident decisions.

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customers

99
of the Fortune 100

100
countries

2,500
employees

Brands you trust, trust us

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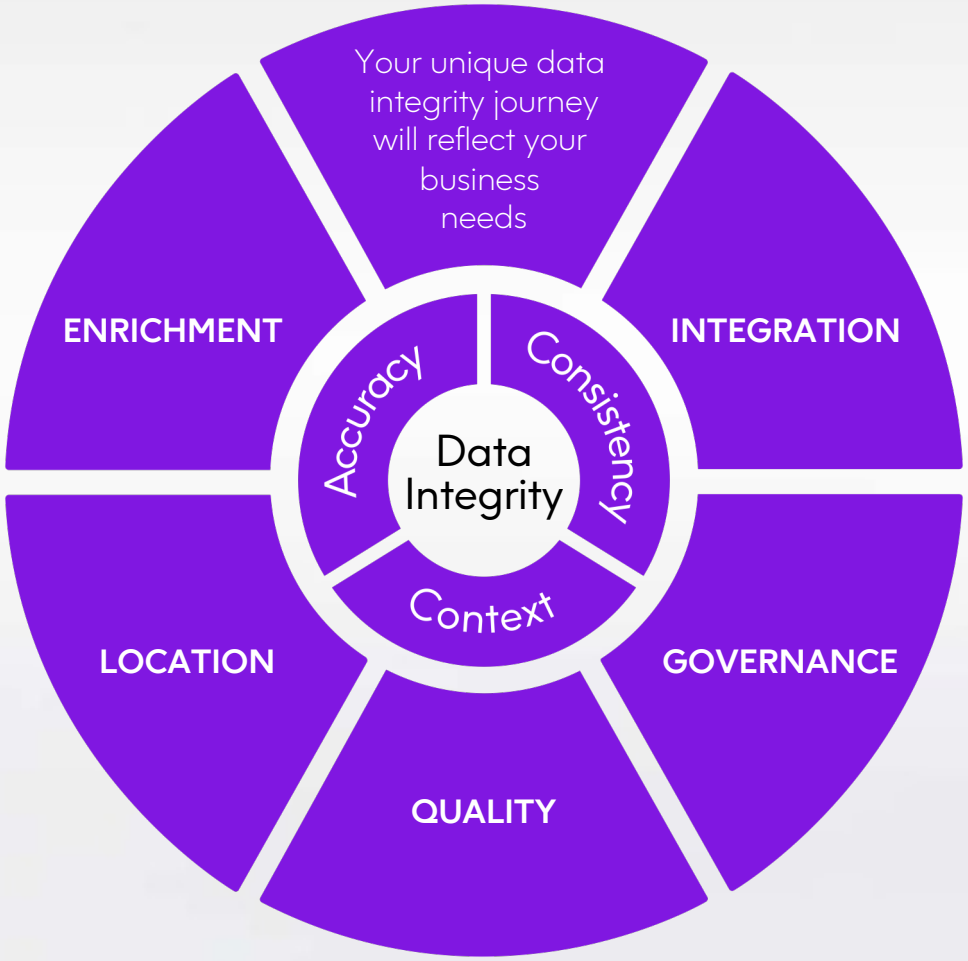
Data leaders partner with us

databricks, snowflake, aws, Cloudera, Google Cloud, splunk>, servicenow, IBM, Confluent, Microsoft, neo4j, TomTom, here, SAP, OpenShift

Data integrity is a journey

- Every journey to data integrity is unique and driven by business initiatives
- Market trends are accelerating the need for data integrity
- Precisely addresses needs across the data integrity journey

The Precisely Data Integrity Suite unites the steps to data integrity that unlock incremental value



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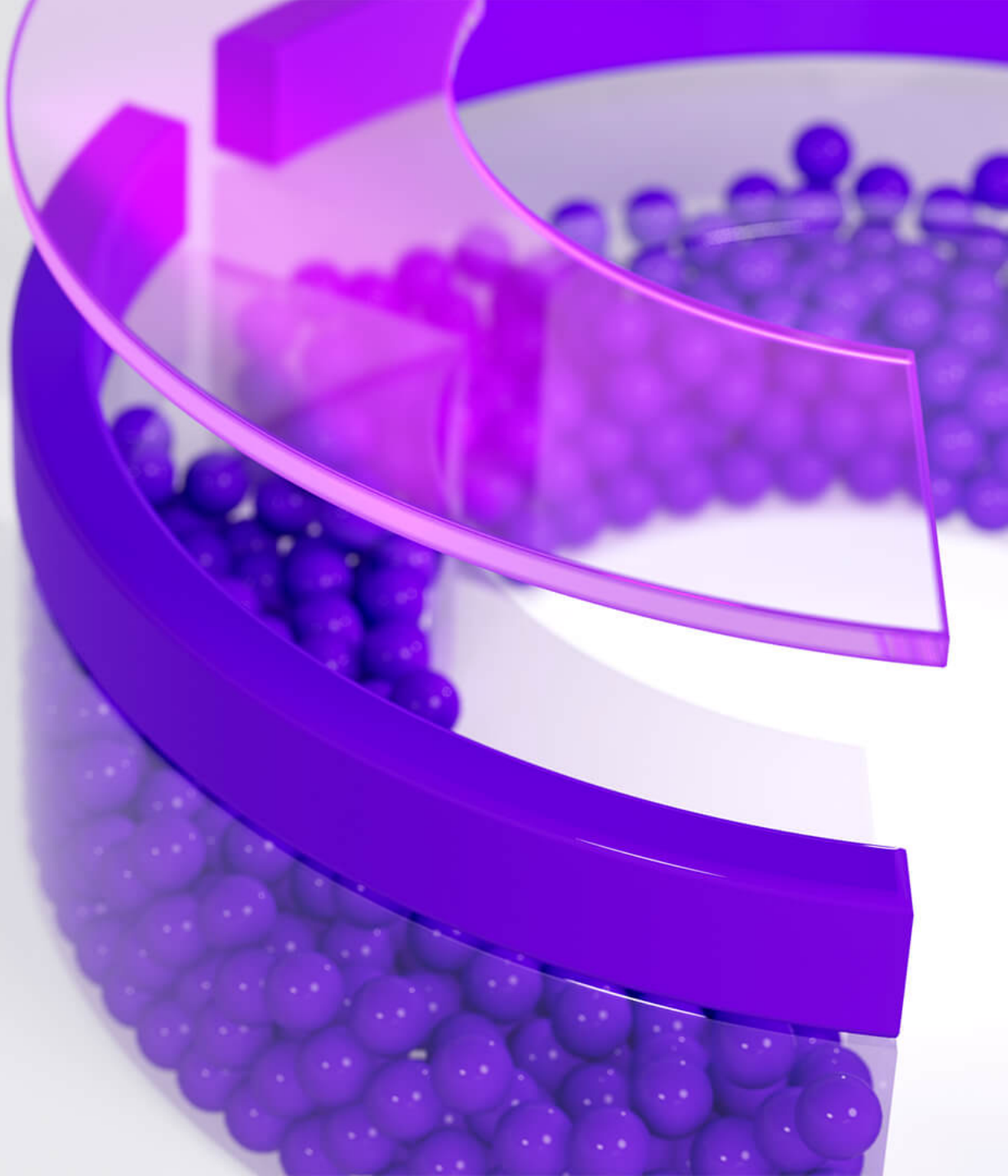
Data Integrity Suite

The modular, interoperable Precisely Data Integrity Suite contains everything you need to deliver accurate, consistent, contextual data to your business - wherever and whenever it's needed.



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