



# Next-gen data lineage: A blueprint for success

Core capabilities to look out for in a modern data lineage tool

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## What is data lineage?

Data lineage maps the origin and flow of data across enterprise systems, showing upstream sources, downstream usage, interconnected applications, and dependencies.

## What makes a modern data lineage tool?

Traditional data lineage tools offer static diagrams that mostly trace technical flows, quickly becoming outdated and providing limited governance. In contrast, tools like Solidatus enhance these flows by incorporating business context, ownership and accountability - bridging the business-technical divide.

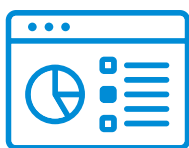
### Legacy data lineage

- Static documentation and diagrams
- Manual metadata collection
- Limited to technical users
- Basic impact analysis
- Limited collaboration features
- On-premise deployment
- Limited search options
- Basic static reports

### Modern data lineage

- Interactive visual data maps
- Automatic metadata collection
- Business user friendly interfaces
- Scenario planning with diverse use cases
- Collaborative workflows embedded
- Cloud-native implementation
- Universal search across enterprise data
- Interactive visual reporting dashboards
- Audit trail automatically maintained
- End-to-end governance

## Why is it important to business?



Provides one scalable solution for all **reporting** requirements



Slashes critical decision time from **months to minutes**



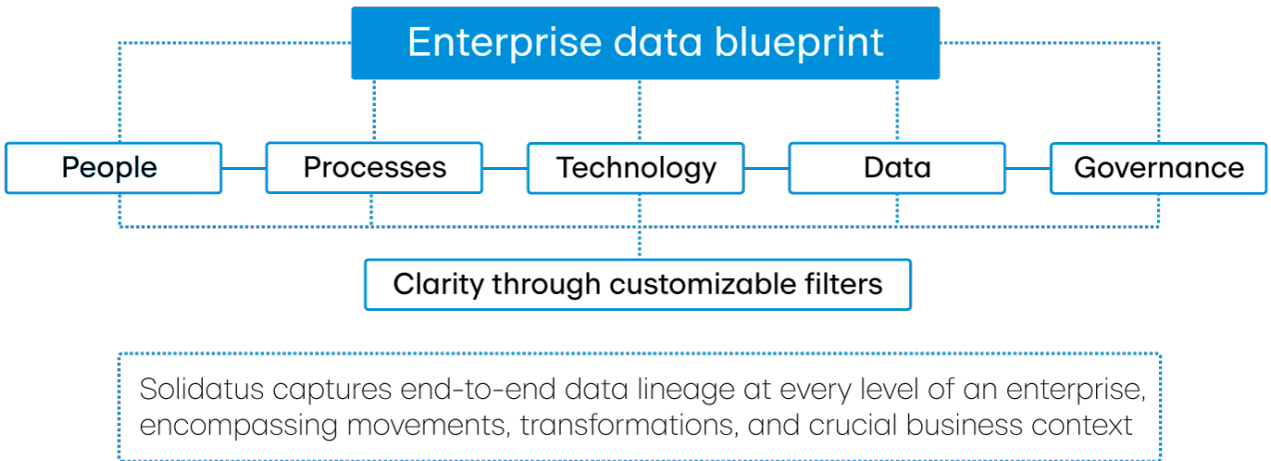
Automates manual operations, saving **75%** in costs

As enterprise data ecosystems grow more complex, comprehensive visibility into lineage becomes critical, shifting businesses from a fragmented view of data assets to total visibility across interconnected systems.

This form of 'connected governance' allows leaders to see where information enters, where it's stored, and what impact it has on operations and key decisions. Enhanced control and deeper understanding lead to risk reduction, improved operational efficiency, and substantial time and cost saving.

## How does Solidatus build multi-dimensional data lineage?

At Solidatus, we recognize everything in a business connects, forming an ecosystem greater than isolated parts. To drive efficiency and innovation, organizations must first understand how they operate on different dimensions. This information is what drives an "enterprise data blueprint".



Solidatus delivers a living digital twin of an enterprise data environment that evolves alongside business and technology transformations. This means future-proof clarity and confidence.

**System of record**

**Dataflow and transformations**

**Critical data controls**

**Technical lineage mapped to business context like regulatory obligations**

**Regulatory reports**

Configurable lenses enable specialists to concentrate on specific business views, optimizing data pipelines, addressing policy violations, and gaining insights into operations, compliance, and controls. This is achieved while preserving a unified view of the entire organization.

## What sets Solidatus data lineage apart?

While there are numerous quality data lineage tools in the market that offer enterprise visualizations, **Solidatus distinguishes itself in several key areas:**

### 1. Enterprise data blueprints that are highly customizable

Solidatus transforms data blueprints from static diagrams to dynamic, interactive reflections of the enterprise, enabling the exploration of evolving interdependencies. With user-driven highlighting and manipulation of connections, teams can intuitively explore and reveal powerful insights across siloed systems. Evergreen data blueprints bring understanding by unveiling the living dynamics between data and decisions.

### 2. Deep impact analysis that packs business power

Solidatus brings Git-style version control to data models, enabling decentralized collaboration. Groups can modify data models, advancing independently, before integrating updates into an authoritative enterprise data blueprint. This facilitates efficient communication and exploration of impact change scenarios for both business and IT users. For example, users can evaluate the downstream impacts and integration points of replacing a legacy system with newer technologies or simulate what impact a supply chain disruption might have on downstream manufacturing processes and business units.

### 3. Evergreen data intelligence through supercharged connectivity

Connectors link data lineage tools with applications and infrastructure across enterprise tech stacks; unlike typical approaches, Solidatus connectors don't just copy schema, they conduct deep, real-time analysis to map system architecture and define relationships. Through identifying metadata changes by comparing them to previous versions, users can assess the impact of fine-grained changes on connected systems, maximizing insights.

## What other key capabilities matter in modern data lineage tools?

### Core capability 1: The ability to visualize complex data flows

#### Intuitive mapping and visuals

Data lineage – more valuable when represented as clear diagrams – accelerates governance attestations by offering a unified view of contextual data relationships, bridging the gap between technical and regulatory teams. Visualizing intricate data flows in real-time can be challenging for complex organizations, so a data lineage tool needs to be able to show a combination of views from various sources to create a comprehensive, up-to-date picture of data movement, even in fragmented or siloed structures.

## Sophisticated rules and filters

Investigating data lineage requires both all available information and only the relevant portion. Without a comprehensive data view, search results can be misleading. For large organizations, data lineage tools must offer powerful, flexible features to display relevant data and filter out non-essential information for finding the right details.

## Universal search

To ensure accurate data lineage, subject matter experts should be empowered to model their areas. However, aggregating their knowledge can be challenging. The best data lineage tools enable multiple models to be queried simultaneously, providing consolidated results as needed.

### Core capability 2: The ability to perform enterprise-wide impact analysis

## Scenario planning

Accurate data lineage is key for mitigating risks during system changes. It enables modeling and analysis to anticipate impacts, preventing unforeseen issues in upgrades or migrations. Additionally, it allows simulation of how integrating new technologies like AI, RPA, or Blockchain could affect business processes, costs, and risks.

## Version control

For effective scenario planning in a well-documented data lineage environment, comparing, adjusting, and potentially discarding proposed alternatives is crucial. A data lineage tool with unlimited version history and selective roll-back or roll-forward capabilities streamlines and strengthens this process.

## Temporality and bi-temporality

Many data lineage tools offer temporal information, showing lineage at a specific snapshot in time. Less common are tools with bi-temporality, allowing multiple views as lineage evolves. This is extremely valuable for tracking compliance and changes over time.

## Business friendly dashboards

The more data stored in a lineage tool, the harder it is to make it accessible at the right level. Dashboards effectively present aggregated information in a business-friendly format. A data lineage tool supporting flexible ad-hoc queries and customizable dashboards is more valuable compared to rigid, tabular outputs. This is critical for enterprise interoperability and making complex data querying user-friendly to non-technical teams.

## Integration with existing data catalogs

When selecting a data lineage tool, consider existing metadata sources within the organization. Integrating these sources into the tool expedites adoption and promotes reuse. It also helps establish consistent terminology or, when synonyms are used, ensures a shared understanding. This way, knowledge remains evergreen and not static documentation.

## Sophisticated import and export functionality

Interoperability relies on your lineage tool's import and export capabilities. The value of lineage data depends on seamless sharing of organizational data for decision-making. A quality data lineage tool provides diverse methods for both data ingestion and distribution/publication.

## Powerful automation

Automated data gathering is crucial for building timely lineage and metadata upkeep. Seek a data lineage tool from a vendor that offers both a wide range of off-the-shelf connectors and either a build service for custom connectors or a software development kit (SDK) for in-house connector development.

## Explore how Solidatus tackles business challenges head-on



### Solidatus in action: Technology demonstration

Watch a [short video](#) to learn how a Solidatus user builds and navigates an enterprise data blueprint.



### Solidatus in action: Compliance and governance

Watch a [short video](#) to learn how understanding data origins improves access controls, compliance enforcement, and issue remediation.



### Solidatus in action: Connected governance

Watch a [demo](#) to learn how leading organizations use Solidatus to align business and technical teams to achieve objectives faster and better than ever before.

We'd love to hear your data challenges and show you how Solidatus can help. For a personalized consultation and demo, visit [solidatus.com](https://solidatus.com) or email us at [hello@solidatus.com](mailto:hello@solidatus.com)