

SOLUTION PROFILE

# Gain Control Over Your Data's Cost, Risk and Sustainability With Pentaho Data Storage Optimizer

Part of the Pentaho+ Platform

## Balance Data Across Cloud and On-premises Infrastructures



### Understand Data Everywhere

Automatically find, analyze and tag structured, semi-structured and unstructured data stored in the cloud and on-premises across the entire data lifecycle.



### Minimize Data Costs

Leverage policy-based governance to optimize data expenses using all available storage infrastructure while meeting service level objectives.



### Automate Data Management

Define and apply rules to orchestrate data reporting, protection, availability, retention, tiering, migrating, archiving and purging.



### Business Continuity

Keep track of data business criticality, sensitivity characteristics and achieve compliance with regulatory requirements to ensure business continuity.

## The data storage cost and sustainability optimizer

Data management practices are evolving rapidly, and it's crucial to adapt to the ever-expanding landscape from edge to core to cloud. There is always need and desire to get fast access to data. On the other hand is the desire to manage costs. As your data volumes grow, so does the risk. Sensitive and confidential data must be identified and controlled for access. For stale data, while the fast access is rarely needed, you never know when you will need to retrieve or get access to old business records, for example, to resolve a customer dispute, to satisfy a compliance audit, or to absolve your company of wrongdoing in a legal dispute. It's essential to consider the balance between fast access to data and its actual value, sensitivity of data and regulatory mandates on data.

Pentaho Data Storage Optimizer from Hitachi Vantara is an intelligent data discovery, categorization and tiering solution that allows you to inventory and understand stored data, identify content and cost of storage, and use policy-driven automation to better manage compliance, reduce cost and mitigate risk.

Data has an inherent lifecycle where its value starts at a high level and declines over time, and optimization requires different approaches during its lifecycle. Also, not all data is equal, in the sense that some data, even when its "new," does not need to be

immediately accessible, and by assuming so, increases the cost. The cost of storing any data eventually surpasses its business value, but business users determine data value and IT staff manage data storage, creating a significant challenge for every business. Pentaho Data Storage Optimizer overcomes these challenges by automating data lifecycle management.

**Pentaho Data Storage Optimizer** delivers the right data, at the right performance, in the right location and at the right cost while minimizing environmental impact.

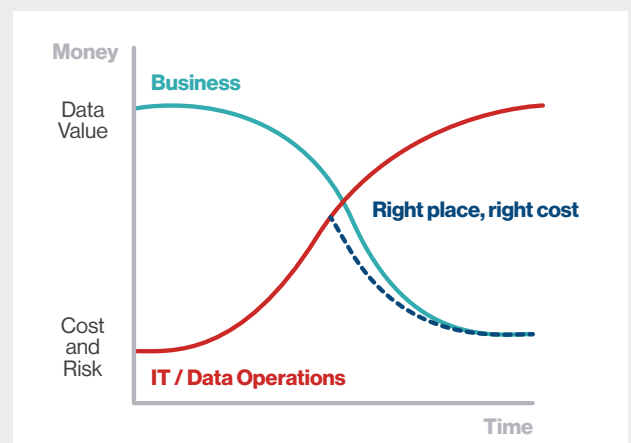


Figure 1. Data Lifecycle and Cost Optimization Approach

### Unified Data Management

The costs and sustainability of storage and data infrastructure have become significant for organizations facing exponential information growth. Enterprises need a policy-driven automated solution, like Pentaho Data Storage Optimizer, to determine the “temperature” of data and unify data tiering, migration and archiving while taking into account aspects around things like data risk, sensitivity and regulatory requirements.

### Transparent Tiering

Pentaho Data Storage Optimizer provides a unified software solution for data tiering, migration and archiving. Pentaho adds transparent tiering to the data lifecycle so that the most used “hot” data is classified to be maintained in its original location where all continue accessing it without interruptions or changes. Less frequently used “warm” data benefits from a seamless migration by Pentaho Data Storage Optimizer to less costly storage, while not impacting active databases and applications. Equally so, inactive “cold” data benefits from automated archiving to storage on-premises or in the cloud where it is also automatically moved back into the source location if accessed by users.

### Self-Service Data Access

Large and mid-sized enterprises gain the ability to take control of their storage and data costs as well as sustainability with Pentaho Data Storage Optimizer. Its self-service processes, with easy-to-use tools, provide significant capabilities for data management, regardless of the storage products and services in use, across cloud, core or edge environments and unstructured, semi-structured and structured formats.



### Tier Data Transparently

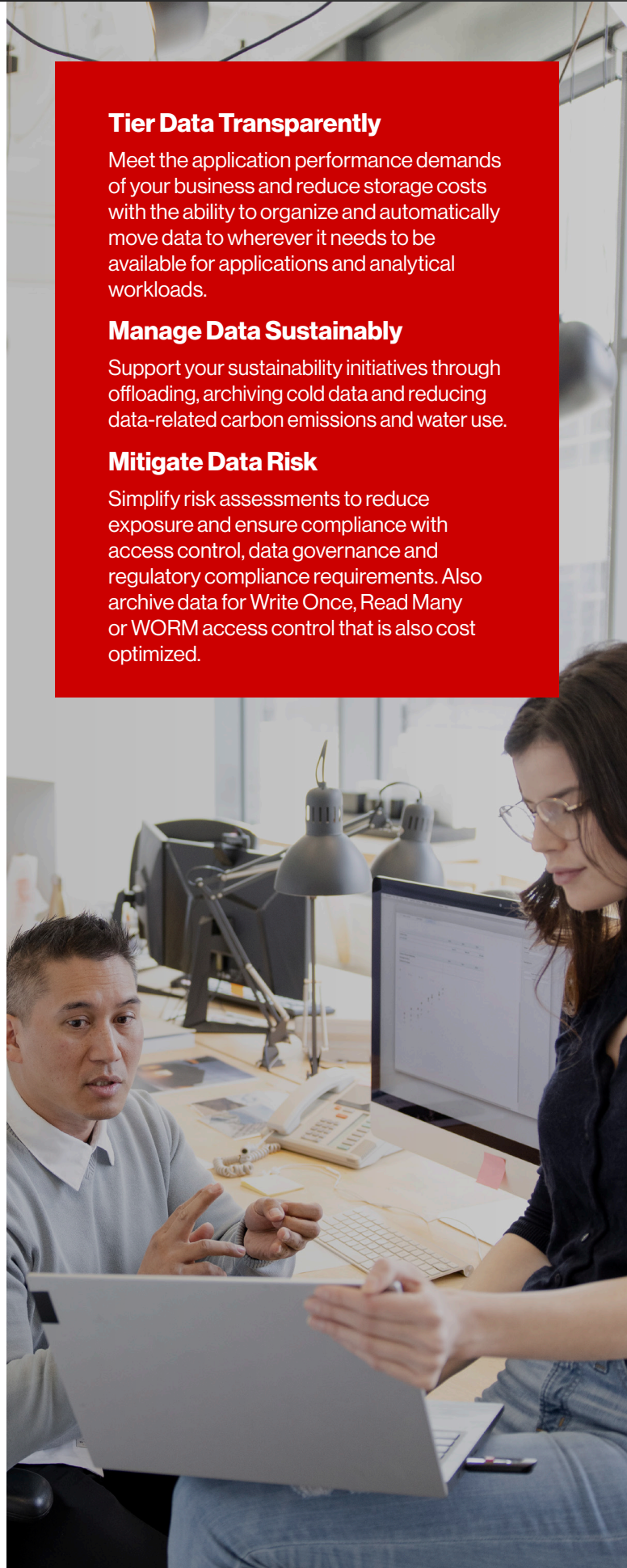
Meet the application performance demands of your business and reduce storage costs with the ability to organize and automatically move data to wherever it needs to be available for applications and analytical workloads.

### Manage Data Sustainably

Support your sustainability initiatives through offloading, archiving cold data and reducing data-related carbon emissions and water use.

### Mitigate Data Risk

Simplify risk assessments to reduce exposure and ensure compliance with access control, data governance and regulatory compliance requirements. Also archive data for Write Once, Read Many or WORM access control that is also cost optimized.



## Optimize Your Data for Performance, Cost and Sustainability

**Easy-to-use tools and self-service processes your business needs.**

### Perform Analysis

- Assess the existing landscape via data discovery.
- Gain greater visibility and control over data cost.
- Define policies to tier, archive and purge data.

### Take action to Tier and Move Data

- Deploy policies for on-premise and Cloud stored data.
- Storage administrators and data owners can review data distribution, currency, capacity, utilization, and cost effectiveness and easily identify re-tiering and migration candidates
- Make Retrieval Seamless where Business users, and applications have access no matter where it is physically located.

### Mitigate Data Risk

- Define data asset risk profiles (e.g., sensitivity)
- Apply policies to mitigate risks (e.g., access control)
- Understand risk using a visual dashboard.

### Improve Environmental Impacts

- Define ESG reporting glossary and master records.
- Assess data stores for carbon emissions and water use.
- Establish targets based on data storage and usage.

**“Through 2027, 85% of workload placement decisions will need to be continually optimized, because of changing product, availability and cost requirements.”**

Five predictions on the future of infrastructure and operations  
SiliconAngle, December 2022

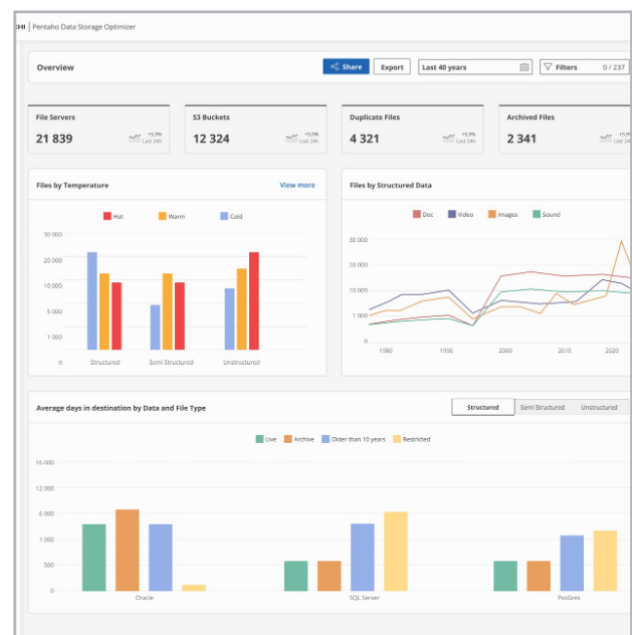


Figure 1: The Pentaho Data Storage Optimizer Reporting Screen

## ABOUT HITACHI VANTARA

Hitachi Vantara, a wholly-owned subsidiary of Hitachi Ltd., delivers the intelligent data platforms, infrastructure systems, and digital expertise that supports more than 80% of the Fortune 100. To learn how Hitachi Vantara turns businesses from data-rich to data-driven through agile digital processes, products, and experiences, visit [hitachivantara.com](https://hitachivantara.com).



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