

Data & Analytics Practice

EDW Optimization



REDUCE COSTS, IMPROVE PERFORMANCE, AND SCALE

Unused data in the Enterprise Data Warehouse (EDW) is being stored on expensive storage devices and data transformation (ELT/ETL) processes are consuming large amounts of CPU resources on these MPP platforms. It is not unusual for

- Up to **60% of CPU** capacity to be consumed by data transformation and load processes
- More than **50% of data to be unused**
- **95% of queries** to only access the most recent 2 years of data.

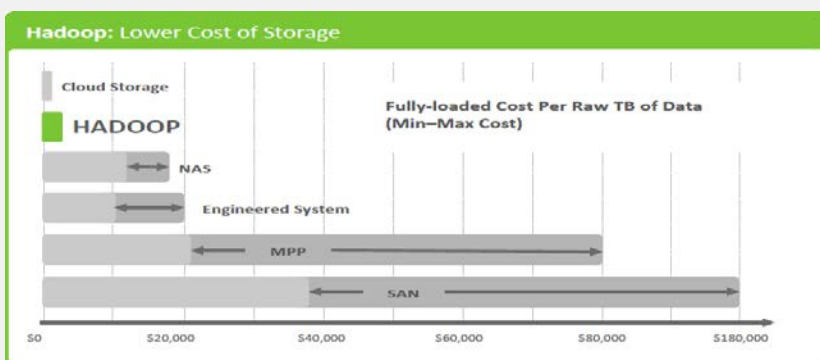
Today's modern enterprise requires implementing a new data architecture to avoid expensive MPP upgrades, to optimize overall EDW costs and to support enhanced data and analytics capabilities.

Apache™ Hadoop® **reduces costs** because it is deployed on commodity servers and storage devices and incrementally scales.

RCG's EDW Optimization solution delivers **real financial benefits** by effectively implementing Apache Hadoop to augment current EDW platforms.

RCG's EDW Optimization solution is an **effective implementation of Hadoop** to augment current EDW architecture and achieve the following benefits:

- **Reduce cost and improve performance** by off-loading EDW data and processing to Hadoop
- Implement a platform that **scales incrementally** using low cost hardware and software
- Support unstructured, semi-structured and structured data in a single analytics platform
- Enable **new analytic capabilities** providing insight that is not possible to achieve from current environments
- Provide **seamless access to data** for analysis and business applications

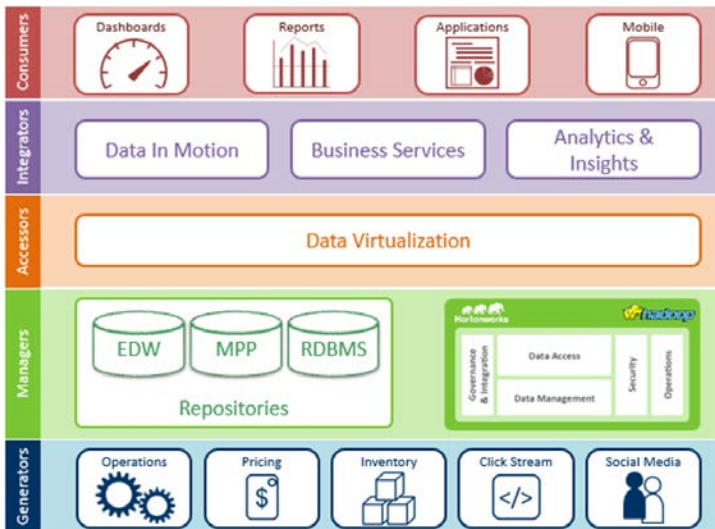


Source: Juergen Urbanski, Board Member Big Data & Analytics, BITKOM

For more information on any of RCG's solutions, check out <http://www.rcgglobalservices.com> or contact solutions@rcggs.com

Modern Data Architecture

RCG assists our clients in reaping the benefits of transforming their legacy data processing and analytics into a modern data architecture to allow organizations to collect everything, dive in anywhere and provide key stake holders flexible access to all enterprise data.



This architecture provides benefits in the form of efficiencies and new capabilities not available in legacy solutions.

- Efficiencies: Significantly lower storage cost and optimization of data processing workloads such as data transformation and integration
- New capabilities: Flexible “schema-on-read” access to all enterprise data, and multi-use and multi-workload processing on the same sets of data (batch and real-time)

EDW OPTIMIZATION ROADMAP

Our streamlined analysis and planning engagement assists our clients in building the case for moving from their current legacy architecture to a Modern Data Architecture and beginning their journey to a “Data Lake.”

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Data usage and workload analysis is performed to identify off-load opportunities for ETL/ELT processing and moving dormant and unused data to Hadoop.

Our team will analyze and summarize the current state, create a future state architecture, define a business case (ROI) and develop an implementation roadmap (including quick wins).

EDW OPTIMIZATION OFF-LOAD

Our team reviews current EDW data sets and ELT/ETL processes to develop a detailed approach for off-loading. A proof-of-concept may be provided for special situations.

We will establish or configure your Hadoop environment and use RCG’s data ingestion framework to accelerate the migration of dormant and unused data to Hadoop. We will then migrate your ETL/ELT processes to Hadoop.

Our last steps include restructuring the data to optimize performance and provide seamless access for data analysis.

Additional Related Services:

ENTERPRISE ENABLEMENT - Extend the platform to support enriched data sources, service orchestration and data virtualization.

DATA VALUE REALIZATION - Provide capability to analyze data in motion, perform advanced analytics, achieve information value creation, and realize visualization.

