



zensar

Data Modernization and Cloud Data Security Solution

An  **RPG** Company

Challenges Observed in Data Modernization

Impediments seen in the journey to Data Modernization and managing Security & Governance in the Cloud.

-  Inefficient on-premises legacy system.
-  Changing regulations, cost, and complexity of data privacy.
-  Highly complex data systems built over multiple years, so migration to cloud difficult.
-  Collecting and protecting data.
-  Increased TCO over a long term.
-  Non-scalable architecture for future needs.

Client needs

-  Align to modern data architecture
-  Enhance data governance and security
-  Faster time-to-market
-  Cost-effective solutions



Robust data modernization with Zensar

Zensar’s data modernization practice takes a holistic three-way approach to ensure:

- **Tailored architectures** – with unique consulting-led and domain-specific data strategies for Snowflake cloud.
- **Fast and accurate migrations** – through no-code platform-based automated data migration.
- **Secured data cloud** – through cloud data security and access-control platform.

Our alliances

Snowflake

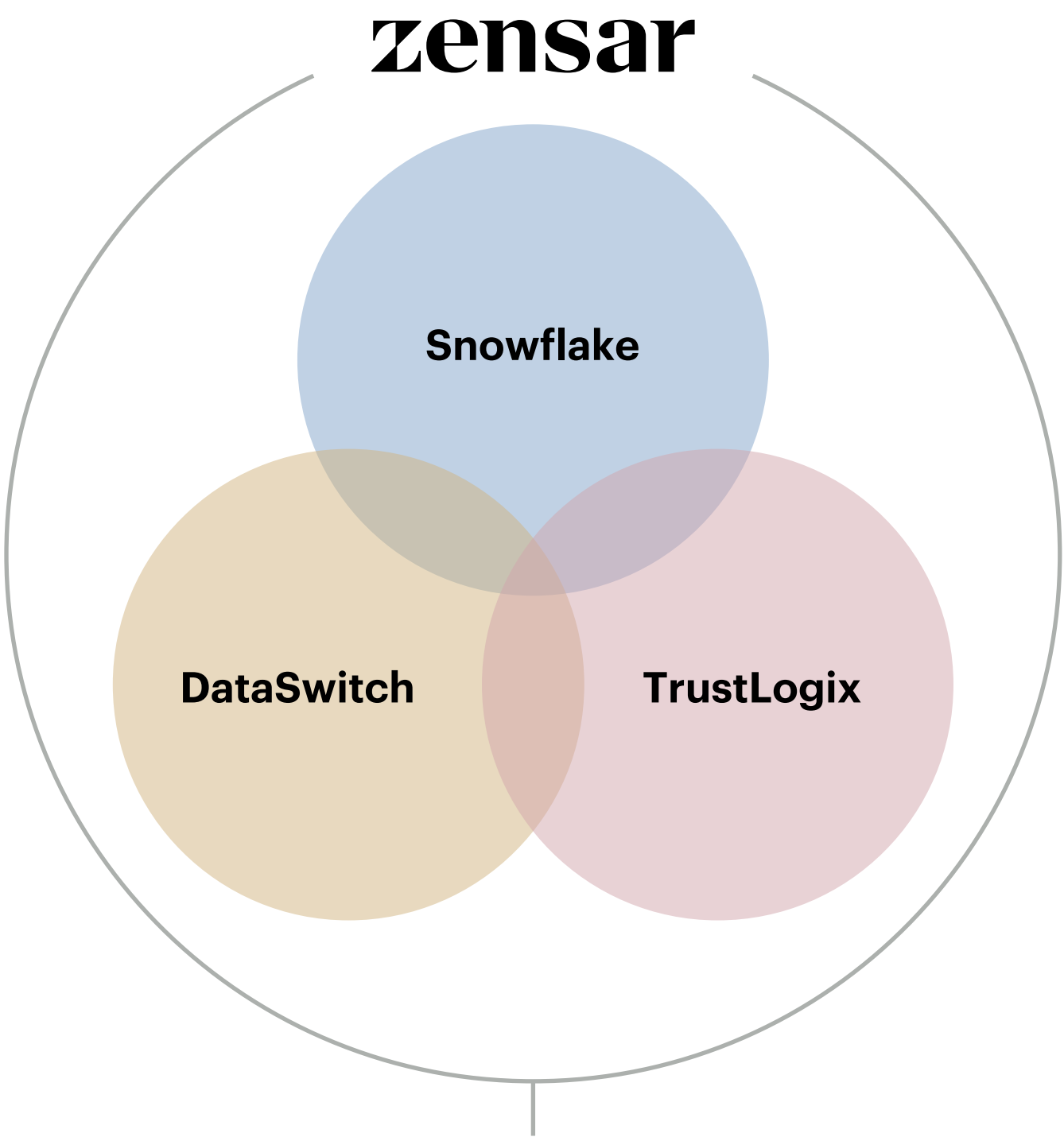
- Deep Snowflake expertise, multiple clients.
- Data strategy, consulting, architecture, engineering, and modernization services.

DataSwitch

- No-code-based automation platform.
- Migrate and redesign DW schema. Migrate data and validate.
- Convert legacy ETL processes.

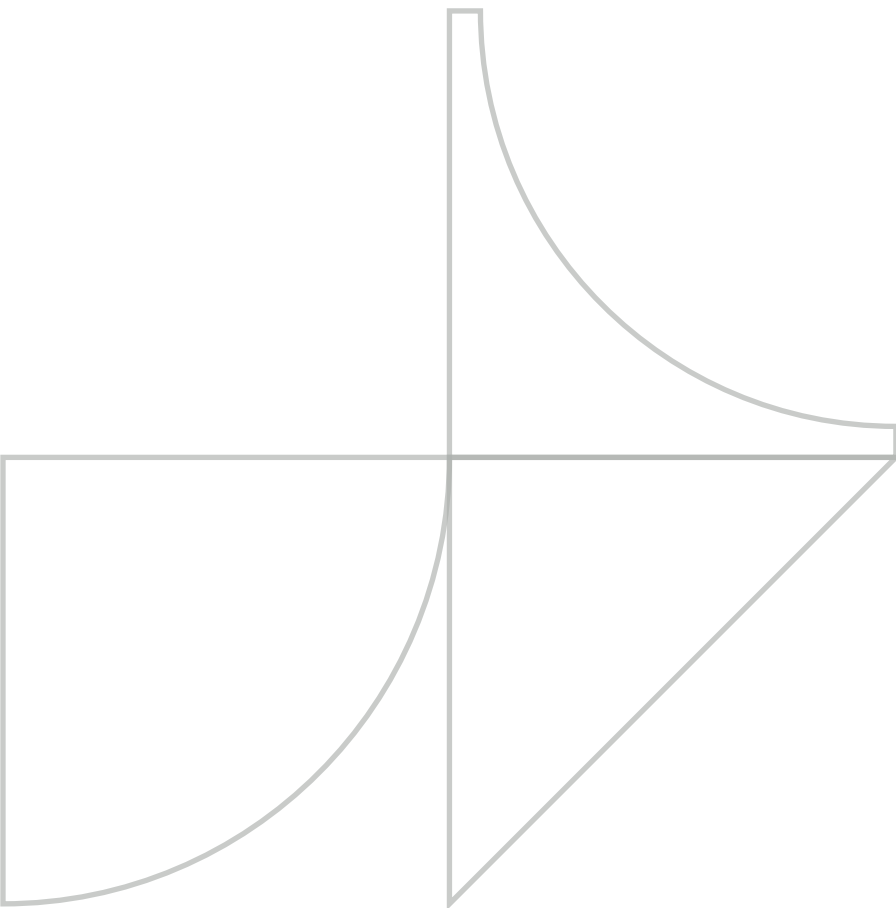
TrustLogix

- Cloud data security and access controls platform. Granular access controls.
- Visibility into data risks and access patterns. Streamline DevSecOps.



Value delivered

Brings together end-to-end transformation, modernization, and security.



ZenDM

Our accelerator for data migration

Problem

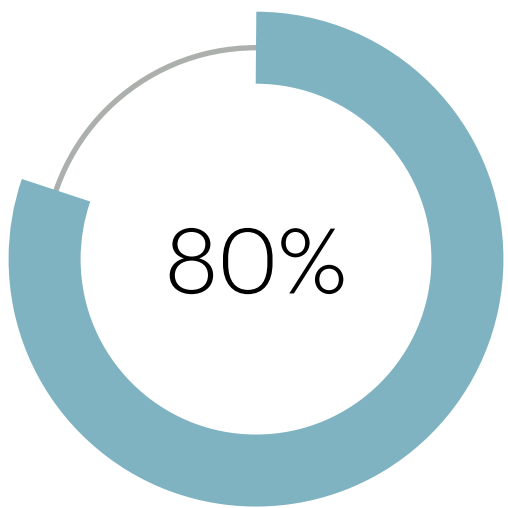
- Data migration to Snowflake involves heavy lift-and-shift to replicate structures from the source (Teradata, Hadoop, and Oracle). This is a manual, labor-intensive, and error-prone activity.
- Verification and data validation post Snowflake migration is a manual activity prone to errors, thereby posing a potential risk.

Solution

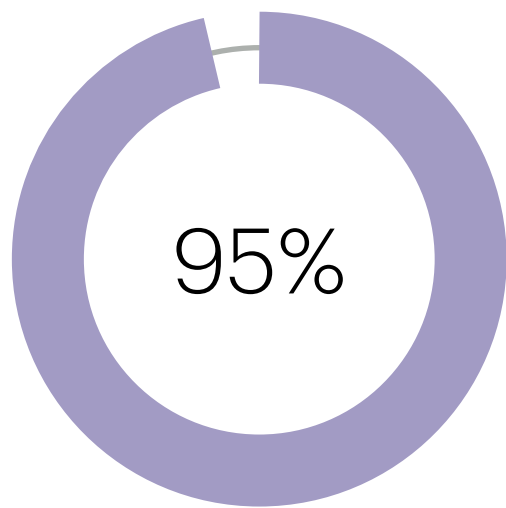
- ZenDM is a comprehensive automated solution for data migration from an on-premise data source (Oracle, Teradata, and Hadoop) to Snowflake on cloud.
- Helps eliminate issues arising due to human errors, reducing time and cost.
- Provides enhanced user experience by enabling easy selection of the source and target object.
- Automates post-migration verification to ensure the source and target maintain data integrity.

Features

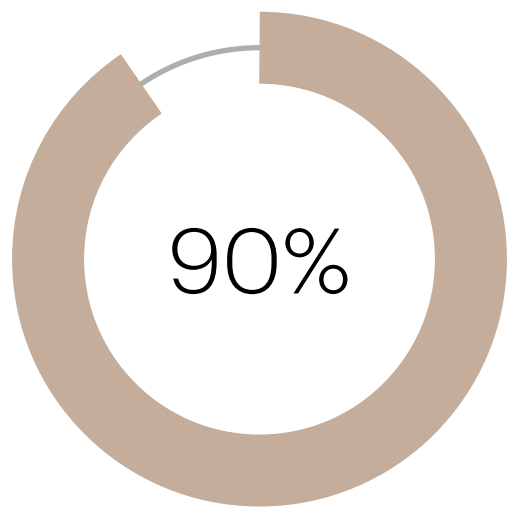
- No manual intervention
- Bulk data load
- Real-time progress tracking
- Teradata Parallel Transporter (TPT)
- Push notifications
- Multi-threaded processing



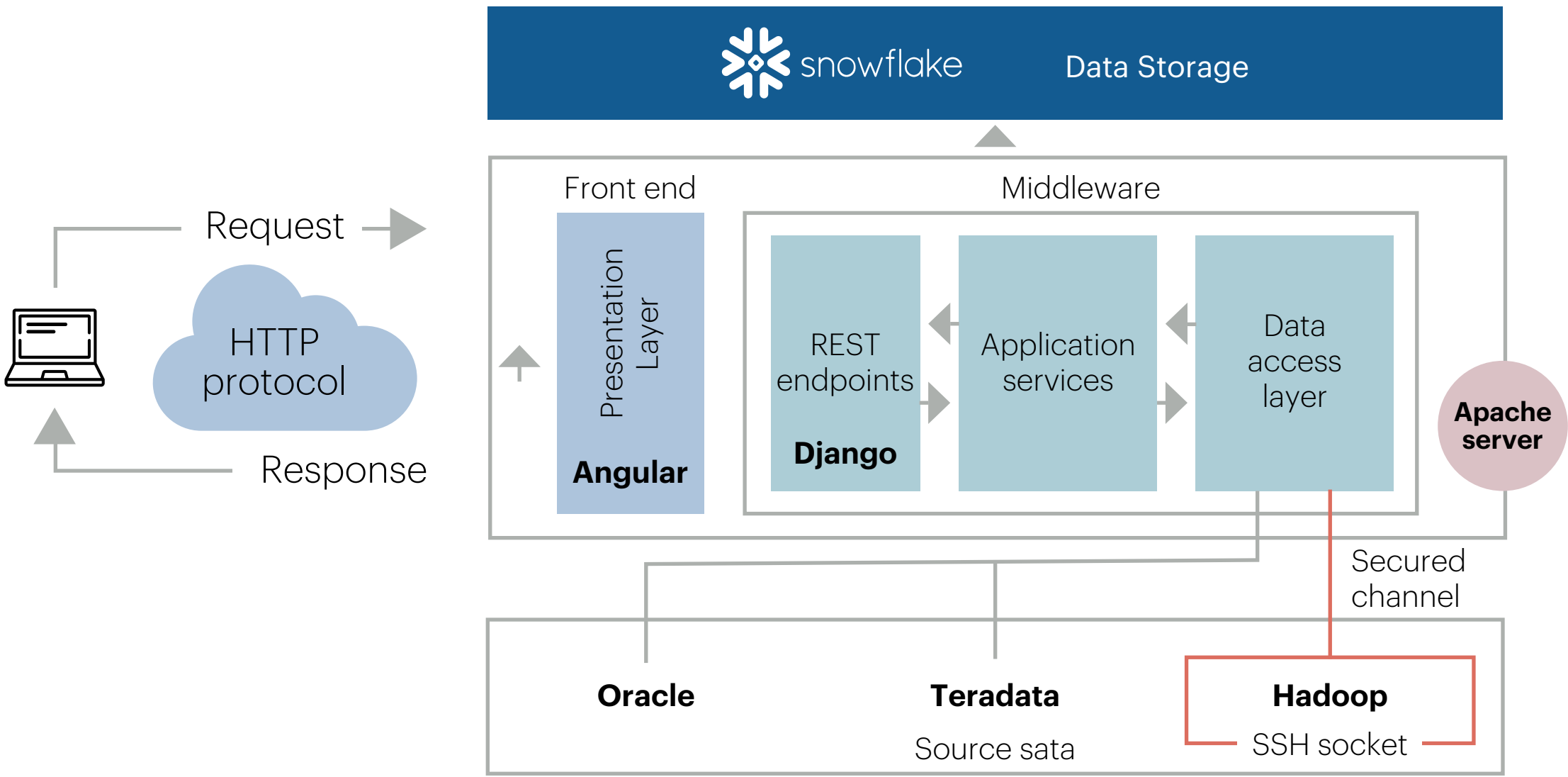
Reduced efforts



Automated migrations



Error reduction



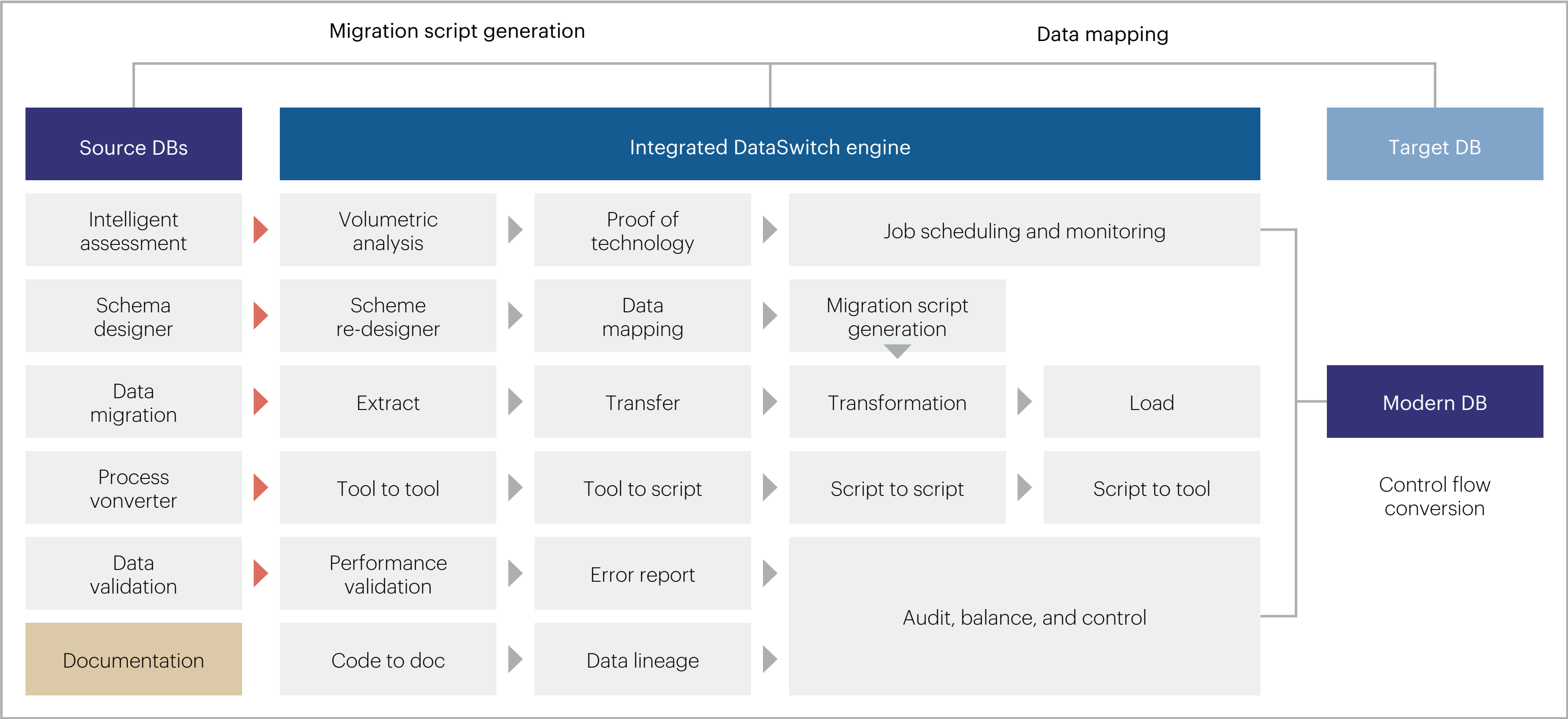
Automated data migration

Journey to the cloud

Approach

- **Intelligent assessment:** An in-depth volumetric analysis of source systems, workloads, and interdependencies to define future state strategy and recommendations.
- **Transformation:** End-to-end transformation, including core business logic to target-native equivalents.
- **Validation:** Data pipeline validations through row- and cell-level queries.
- **Optimization:** Target-specific executable packaging with optimal price-performance ratio.
- **Execution:** Hybrid pod-based delivery model comprising expert teams from Zensar and DataSwitch.

Solution



Tools and accelerators

No-code
automation platform



Zensar IPs

- ZenDM
- Smart Connectors
- ETL Migration framework

Cloud coverage



Data security and governance

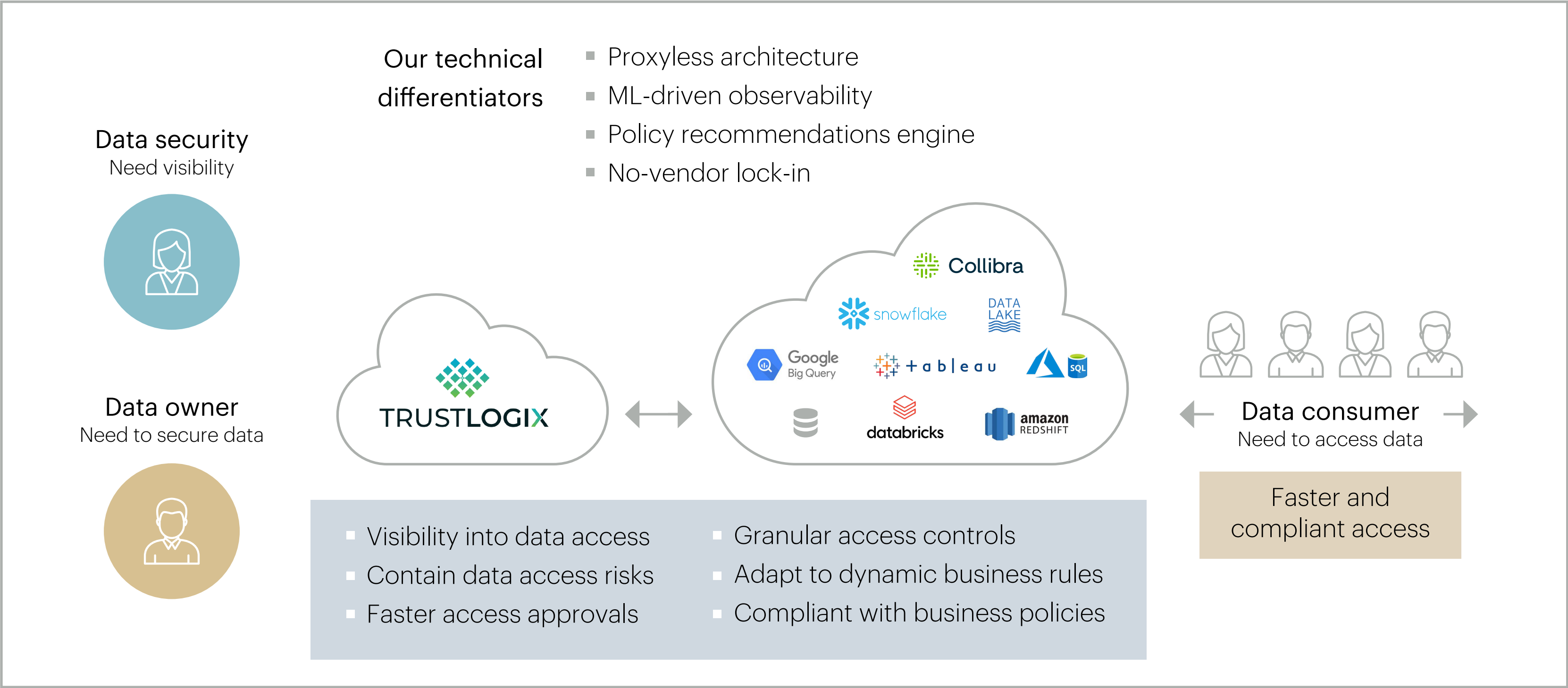
Operating securely in target state

Right data to the right people, instantly and securely, every time.

Features

- **Unified approach:** Eliminate data silos and easily manage all data access and privacy needs from a single platform.
- **Granular access controls:** Create and enforce fine-grained access controls from data ingestion to consumption.
- **Intelligent discovery and monitoring:** Discover data access and sharing risks and receive recommendations to resolve them.
- **Performance at scale:** Maintain accurate and efficient security operations at scale with a proxyless and agentless architecture.

Solution



Tools and accelerators

Data security platform



Cloud and platform coverage



Benefits of ZenDM

Our data migration offering

Benefits

Faster Delivery at Half the time

- 50% Faster time to market with extreme automation approach to enhance Business Velocity

Cost Benefit through Automation

- Upto 60% cost effective as the platform provides significant reduction of manual effort through configurable, automated & self-service capabilities

No-Code Platform increases Productivity

- No-code approach for data platform modernization

Reduced Risk to IT & Businesses

- Cost can grow exponentially with complex existing architecture

Scalable & Flexible Target Platform

Assured Quality with Built-in best practices, guidelines, accuracy, security & governance

Implementation Specific Customizations

Extensive Partner Ecosystem & Thought Leadership

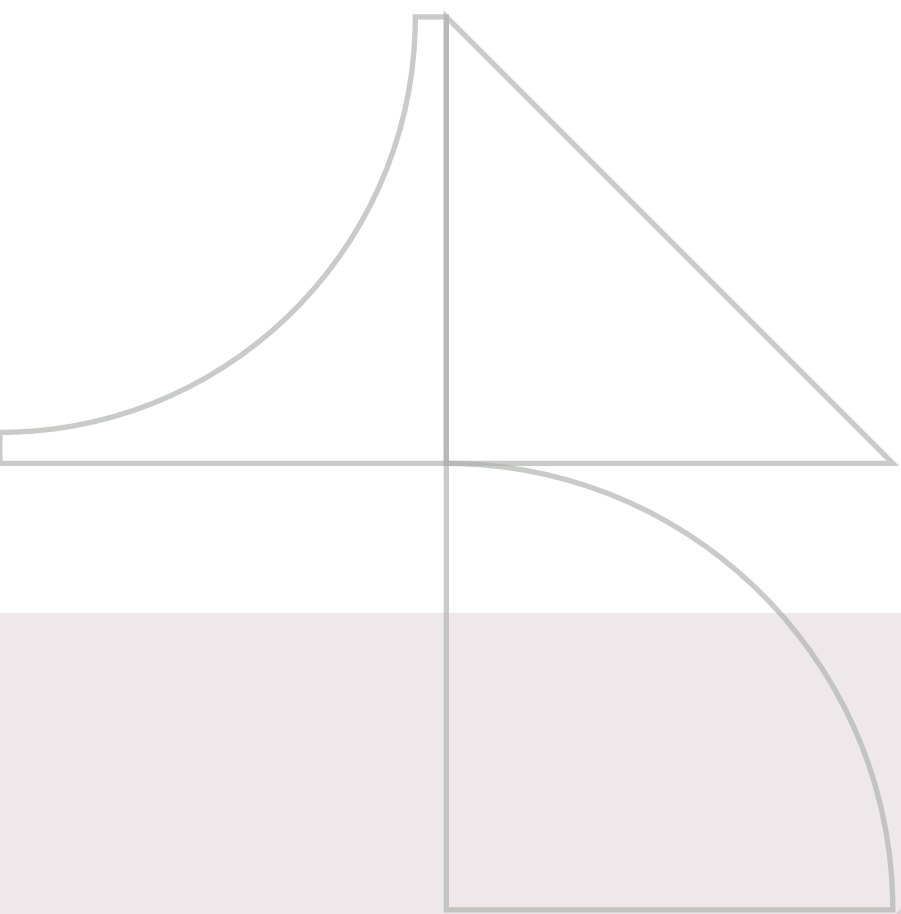
Features and functionalities

Data modernization and migration-specific

- Intelligent assessment and evaluation to assess the data complexities
- Automated schema redesign
- Data migration through fully automated and scalable tools
- Process conversion – legacy data scripts to modern database scripts
- Automated data validation across all converted data

Cloud data security and governance-specific

- Discover sensitive data access issues and risks in 30 minutes or less
- Recommend and enable policies for least-privilege access and remediation of risks
- Control and protect your data across all cloud and data platforms
- Continuously observe, report, and provide alerts for new issues and risks



Our data migration expertise in action

Case study 1

Engineering and operations for a cloud DWH platform on Snowflake that enabled connected insights for a leading US-based networking company



Problem

The client was facing challenges in making data real-time and easily accessible to business stakeholders for actionable insights. Data availability, data quality, and data accuracy were other challenges. Also, the cloud data platform had to be scalable and usable for easy integration with other applications.



Solution

Migrated on-premises EDW on Teradata and Hadoop Data Lake to Snowflake on AWS. Implemented microservices-led data-as-service for the entire organization for supply chain-related data.



Impact

Decreased OPEX by \$1 million, improved data integration cycle by ~10X, and enhanced application performance by ~5X.

Case study 2

Developed an HR analytics platform on Snowflake for a leading US-based life sciences company



Problem

The client was looking for a scalable and future-proof platform with reduced data refresh time, flexibility to run ad-hoc analysis, faster reporting, and easy data sharing and replication.



Solution

Designed the architecture and implemented MVP for overall BI modernization. Implemented a complete solution for HR analytics and went live within 18 weeks, along with data load, schedule, sync, and dashboard. Provided near-real-time reporting, improved security, and data accuracy.



Impact

300+ hours of manual efforts saved, 3X performance benefits, 35+ Power BI reports, and 200+ visuals developed.



Schedule a discovery and assessment session with our data experts by reaching out to us at **velocity@zensar.com**

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An  **RPG** Company

We conceptualize, build, and manage digital products through experience design, data engineering, and advanced analytics for over 145 leading companies. Our solutions leverage industry-leading platforms to help our clients be competitive, agile, and disruptive while moving with velocity through change and opportunity.

With headquarters in Pune, India, our 10,500+ associates work across 30+ locations, including Milpitas, Seattle, Princeton, Cape Town, London, Singapore, and Mexico City.

For more information please contact: **velocity@zensar.com** | **www.zensar.com**

