Modernize and Automate Data Integration

Qlik Data Integration Platform

June 2020
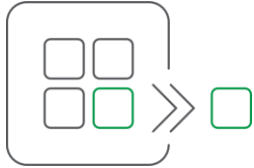
Qlik **Q**® **LEAD WITH DATA**™

GPStrategy
Analítica para los Negocios
y su Rentabilidad

Modernize and Automate Data Integration

Efficiently capture large volumes of changed data from heterogeneous sources and deliver analytics ready data in real-time to Cloud Platforms where it can be catalogued for discovery and provisioning to Analysts and Data Scientists

LEADER IN CHANGE DATA CAPTURE

- ✓ Most comprehensive platform supportability matrix
- ✓ Modern architecture & UI
- ✓ End-to-end offering captures changed data and delivers analytics ready data
- ✓ Publish to BI and Data Science tools

MARKET LEADER IN CLOUD INTEGRATION SOLUTIONS

- ✓ Relied on by the top cloud computing providers
- ✓ Migrated and integrated more than 200,000 databases and mainframes to AWS, Azure and Google
- ✓ Complete cloud data delivery and catalog capabilities, closes the last mile

LEADER IN EASE OF USE AND AUTOMATION

- ✓ Automated mapping, target table creation and data instantiation
- ✓ Quickly create and deploy analytics ready structures
- ✓ Catalog, inventory, search and retrieve data for use at scale

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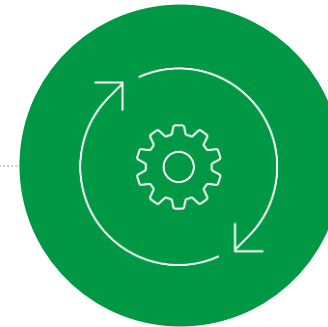
Modernize and Automate Data Integration

1. REAL-TIME

✓ Architected from the ground up for real-time changed data capture and analytics-ready data delivery
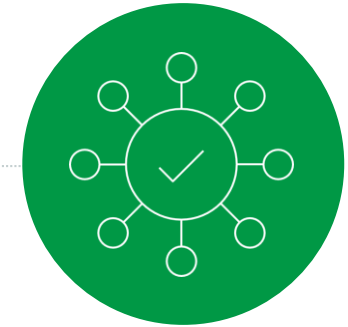
2. HETEROGENEOUS

✓ Seamlessly move real-time data between heterogeneous systems

✓ Connect on-premise systems with Cloud environments

✓ Move data between Cloud providers

✓ One platform

3. COMPLETE & AUTOMATED
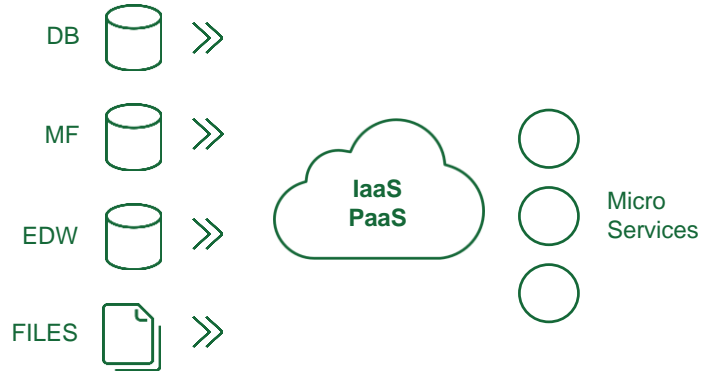
✓ Initial instantiation

✓ Target table creation

✓ Automated mappings

✓ Schema synchronization

✓ Data Warehouse, Data Mart and Data Lake creation

✓ Catalog data assets

✓ Publish to BI and Data Science tools

4. SCALE & STABILITY
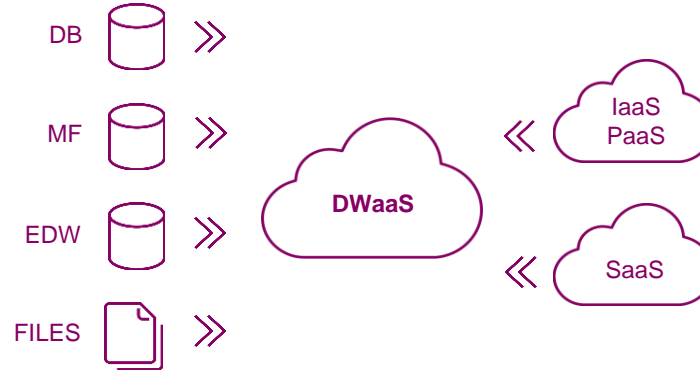
✓ Relied on by more than 2,500 customers, including half of the Fortune 100

✓ R&D scale to embrace ever-changing tech landscape

✓ Deep expertise in data, data integration and analytics

Trends Driving Integration Modernization & Automation

CLOUD APPLICATION DEVELOPMENT

- ✓ Legacy application modernization
- ✓ Faster, easier new application development
- ✓ Higher scalability/elasticity
- ✓ Infrastructure and maintenance cost savings
- ✓ **Requires real-time data from on-premise systems**

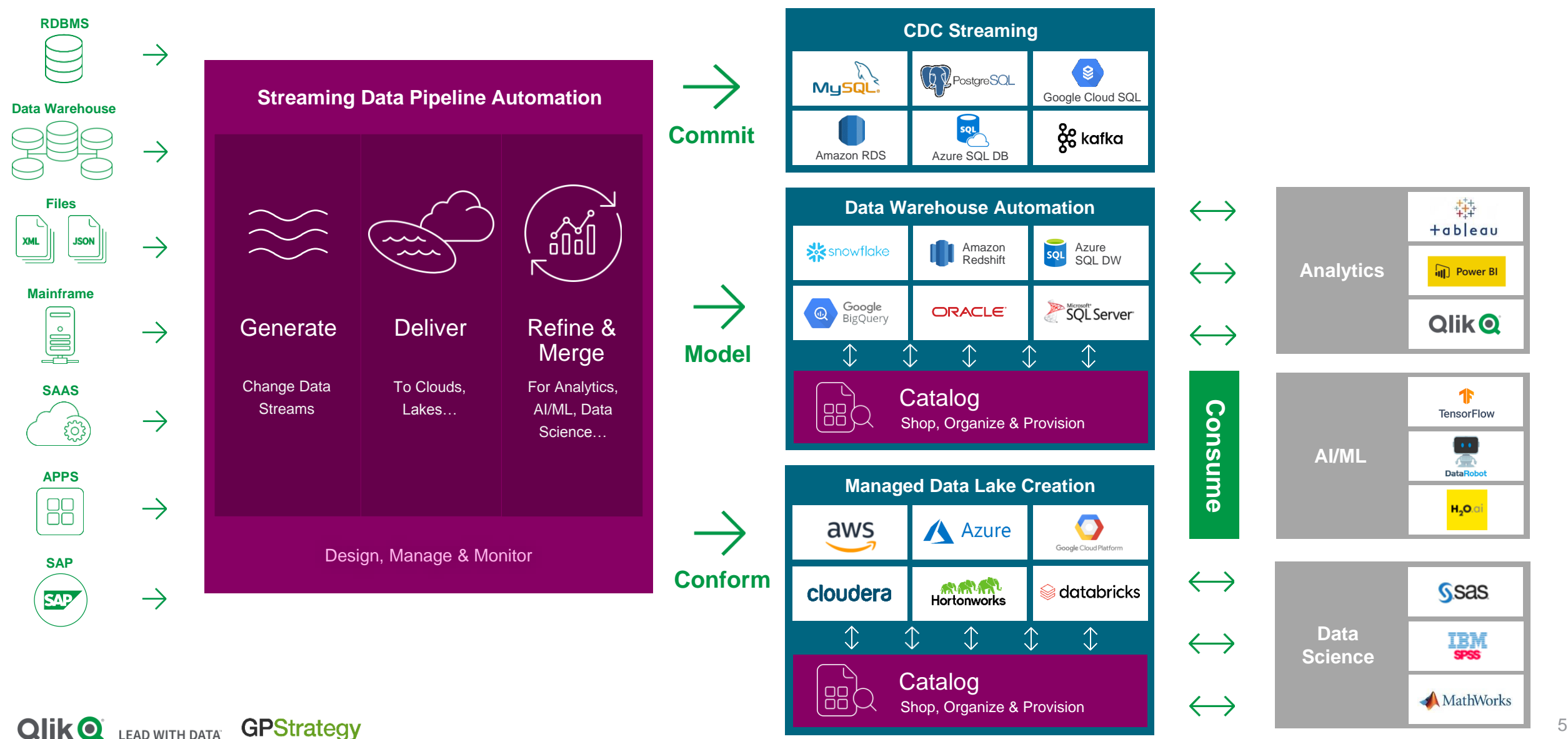**DATA WAREHOUSE MODERNIZATION**

- ✓ Reduce the costs associated with legacy EDW's and provide elasticity
- ✓ Meet new business requirements
- ✓ Support more advanced analytics
- ✓ **Data Warehouse Automation replaces traditional ETL with modern self-service capabilities**
- ✓ **Requires real-time data from on-premise systems and cloud platforms**

NEXT GENERATION ANALYTICS & DATA MONETIZATION

- ✓ Analyze a broader set of data structures along with structured data
- ✓ Needs organization and intuitive search
- ✓ Leverage AI/ML, IoT and decision automation for a competitive advantage
- ✓ **Requires Managed Data Lake Creation and Big Data processing at scale**
- ✓ **Requires real-time data from on-premise systems and cloud platforms**

Modernize, Automate & Simplify DI with Analytics-ready Data Delivery

RDBMS

Data Warehouse

Files
XML JSON

Mainframe

SAAS

APPS

SAP

Streaming Data Pipeline Automation

Generate
Change Data Streams

Deliver
To Clouds, Lakes…

Refine & Merge
For Analytics, AI/ML, Data Science…

Design, Manage & Monitor

Commit

Model

Conform

CDC Streaming
MySQL · PostgreSQL · Google Cloud SQL
Amazon RDS · Azure SQL DB · kafka

Data Warehouse Automation
snowflake · Amazon Redshift · Azure SQL DW
Google BigQuery · ORACLE · Microsoft SQL Server

Catalog
Shop, Organize & Provision

Managed Data Lake Creation
aws · Azure · Google Cloud Platform
cloudera · Hortonworks · databricks

Catalog
Shop, Organize & Provision

Consume

Analytics
tableau · Power BI · Qlik

AI/ML
TensorFlow · DataRobot · H₂O.ai

Data Science
SAS · IBM SPSS · MathWorks

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QDI - Platform Supportability Matrix

DL/DW Automation

1. On Roadmap

SOURCES

Database
- Oracle
- SQL Server
- DB2 iSeries
- DB2 z/OS
- DB2 LUW
- MySQL (+ MariaDB, Percona)
- PostrgeSQL
- Sybase ASE
- Informix
- SAP HANA
- ODBC

EDW
- Exadata
- Teradata
- Netezza
- Vertica
- Pivotal

Mainframe
- DB2 z/OS
- IMS/DB
- VSAM
- COBOL Copybooks

Cloud
- Amazon RDS (SQL Server, Oracle, MySQL, Postgres)
- Amazon Aurora (MySQL)
- Amazon Aurora (PostgreSQL)
- Amazon Redshift
- Azure SQL Server MI
- Google Cloud SQL (MySQL, PostgreSQL)

NoSQL
- MongoDB

SAP
- ERP
- CRM
- SRM
- GTS
- MDG
- SAP ECC - HANA
- SAP HANA (database)

(on Oracle, SQL, DB2 LUW, HANA)

SaaS
- Salesforce

Flat Files
- Delimited (e.g., CSV, TSV)

TARGETS

AWS
- RDS (MySQL, Postgres, MariaDB, Oracle, SQL Server)
- Aurora (MySQL, Postgres)
- S3 ✓
- EMR ✓
- Kinesis
- Redshift ✓
- Snowflake ✓
- Databricks ✓

Azure
- DBaaS (SQL DB) ✓
- DBaaS (MySQL, Postgres)
- ADLS Gen1 & 2 ✓
- BLOB
- HDInsight
- Event Hub
- Synapse (SQL DW) ✓
- Snowflake ✓
- Databricks ✓

Google
- Cloud SQL (MySQL, Postgres)
- Cloud Storage ✓
- Dataproc ✓
- Pub/Sub 1.
- BigQuery 1. ✓
- Snowflake ✓

Database
- Oracle ✓ ✓
- SQL Server
- DB2 LUW
- MySQL (+ MariaDB, Percona)
- PostgreSQL
- Sybase ASE
- Informix
- MemSQL
- ODBC

Data Lake
- Cloudera / Hortonworks ✓
- MapR
- Amazon EMR ✓
- Azure HDInsight ✓
- Google Dataproc ✓

EDW
- Oracle Autonomous DB (cloud)
- Exadata
- Teradata
- Netezza
- Vertica
- Sybase IQ
- SAP HANA
- Microsoft PDW

Streaming
- Kafka
- Amazon Kinesis
- Azure Event Hubs
- MapR Streams

SAP
- SAP HANA (database)

Flat Files
- Delimited (e.g., CSV, TSV)

Please refer to latest support matrix for full list.

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QDI - Cloud Partner Alignment

DL/DW Automation

	aws	**Azure**	**Google Cloud Platform**
DBaaS	RDS (All)	All	All
STORAGE	S3 ✓	ADLS ✓, BLOB	GCS ✓
HADOOP	EMR ✓	HDInsight ✓	DataProc ✓
STREAMING	Kinesis	Event Hubs	**Kafka**
DWaaS	Redshift ✓	Azure Synapse ✓	BigQuery ✓
OTHER DWaaS	Snowflake ✓	Snowflake ✓	Snowflake ✓
SPARK	Databricks ✓	Databricks ✓	

Please refer to latest support matrix for full list.

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Hablemos

Recuerde que estamos atentos a cualquier duda o sugerencia, no dude en **comunicarse con nosotros** y uno de nuestros consultores atenderá sus solicitudes

📞 +57 3143950921

✉️ *Email:* hablemos@gpstrategy.com.co

f *FACEBOOK:* GPStrategy Colombia

🐦 *TWITTER:* @GPStrategyCo

in Linkedin: GPStrategy Colombia

www.gpstrategy.com.co

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