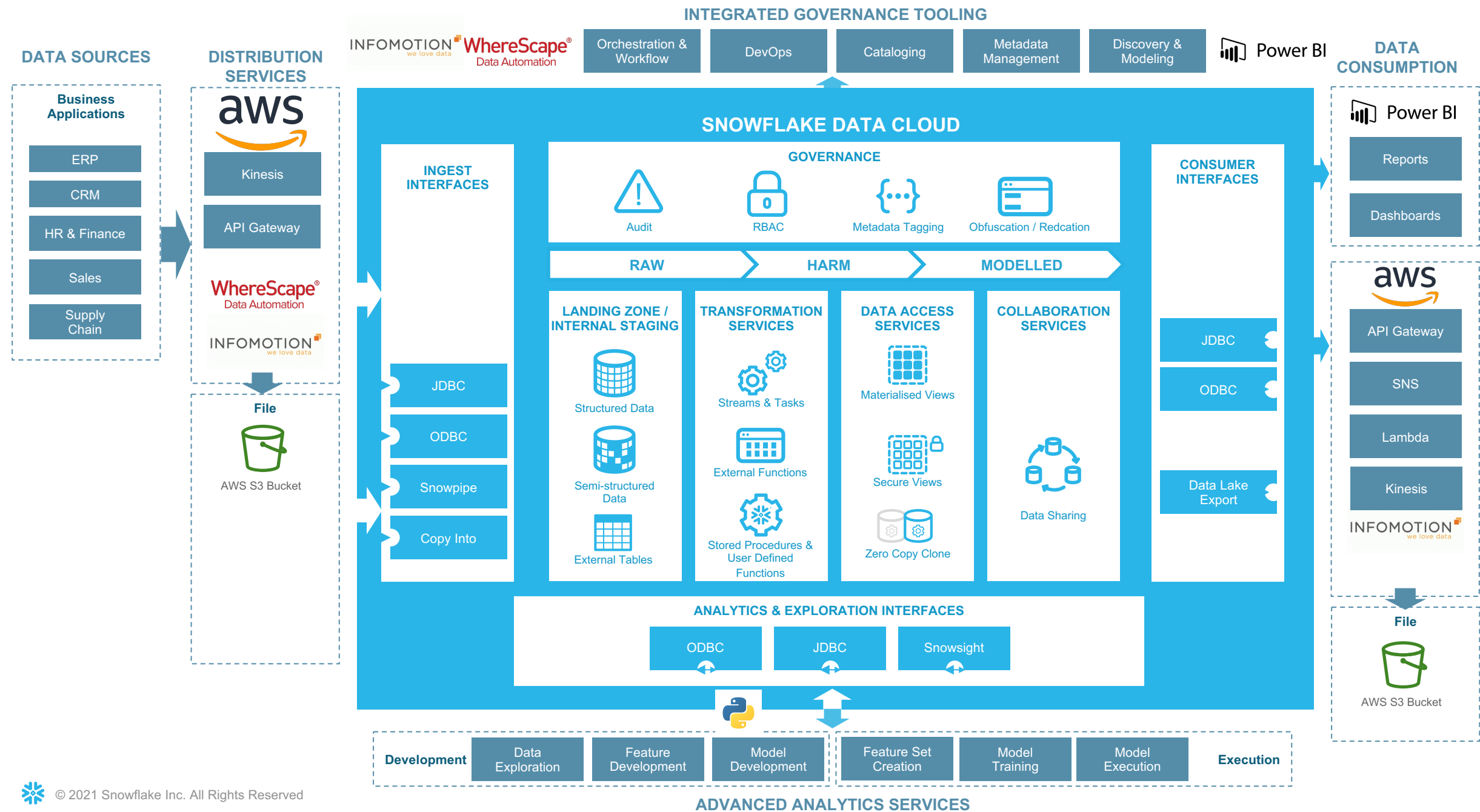snowflake

INFOMOTION
we love data

Central Data Cloud in Energy Trading

SNOWCASE

ARCHITECTURE TEMPLATE

Snowflake, INFOMOTION

REFERENCE LOGICAL ARCHITECTURE

INTEGRATED GOVERNANCE TOOLING

INFOMOTION — we love data / WhereScape® Data Automation

Orchestration & Workflow	DevOps	Cataloging	Metadata Management	Discovery & Modeling

Power BI

DATA SOURCES

Business Applications

- ERP
- CRM
- HR & Finance
- Sales
- Supply Chain

DISTRIBUTION SERVICES

aws

- Kinesis
- API Gateway

WhereScape® Data Automation

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File

AWS S3 Bucket

SNOWFLAKE DATA CLOUD

INGEST INTERFACES

- JDBC
- ODBC
- Snowpipe
- Copy Into

GOVERNANCE

- Audit
- RBAC
- Metadata Tagging
- Obfuscation / Redcation

RAW → HARM → MODELLED

LANDING ZONE / INTERNAL STAGING
- Structured Data
- Semi-structured Data
- External Tables

TRANSFORMATION SERVICES
- Streams & Tasks
- External Functions
- Stored Procedures & User Defined Functions

DATA ACCESS SERVICES
- Materialised Views
- Secure Views
- Zero Copy Clone

COLLABORATION SERVICES
- Data Sharing

CONSUMER INTERFACES

- JDBC
- ODBC
- Data Lake Export

ANALYTICS & EXPLORATION INTERFACES

- ODBC
- JDBC
- Snowsight

DATA CONSUMPTION

Power BI

- Reports
- Dashboards

aws

- API Gateway
- SNS
- Lambda
- Kinesis

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AWS S3 Bucket

ADVANCED ANALYTICS SERVICES

Development

Data Exploration	Feature Development	Model Development	Feature Set Creation	Model Training	Model Execution

Execution

Component Name	Functional description
AWS	*Hyper Scaler with following services: Lambda, SNS, API gateway, S3 Buckets, EC2*
WhereScape	*Data Automation Tool which generates native Snowflake SQL Code based on the Metadata and diferent Templates and Scripts.*
Power BI	*Reporting and Dashboarding on Snowflake with SSO Integration.*
INFOMOTION DMC	*Self developed Solution which enables a Metadata Management over a Webinterface. Used for light suited Data Catalog.*
Python	*Native Python connector to Snowflake for Data Science like Model Training*