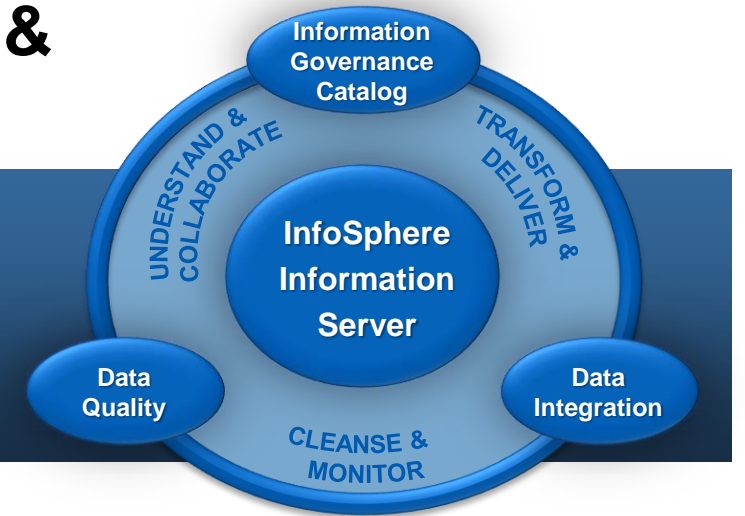# Unified Platform for Data Integration, Data Quality & Data Governance

... Powered by IBM InfoSphere Information Server

Integrating and transforming data and content to deliver accurate, consistent, timely and complete information on a <u>single platform</u> unified by a <u>common metadata layer</u>

Data Integration

Transform & Deliver

- Massive scalability
- Power for any complexity
- Deliver in batch and/or real-time with change capture

Data Quality

Cleanse & Monitor

- Analyze, classify & validate
- Cleanse & standardize
- Define, manage & monitor data rules & exceptions

Information Governance Catalog

Understand & Collaborate

- Catalog technical metadata & align w/ business language
- Manage (big) data lineage
- Manage information governance policies

• common connectivity • shared metadata • common execution engine
• flexible deployment: On-premise, Grid, Cluster, Cloud or native on Hadoop

Unified Platform for **Data Integration**, Data Quality & Data Governance

Data Integration:

The secret sauce to your successful Analytics Strategy

Your Analytics Application Initiative Demands Fast Access To High Quality Data

To enable this, utilize technology that:

- Provides flexibility on how to integrate your data and at what latency

- Provides high scalability across variety and volume of data

- Provides built in capabilities for data quality, governance and AI

Unified Platform for **Data Integration**, Data Quality & Data Governance

InfoSphere Information Server – Data Integration

Ingest, transform, process and deliver any data into any system

Satisfy the most complex transformation requirements with the most scalable runtime available in batch or real-time

- **Connect**
  - Connect to wide range of traditional enterprise data sources as well as Hadoop data sources
  - Native connectors with highest level of performance and scalability for key data sources

- **Design & Transform**
  - Transform and aggregate any data volume
  - Benefit from hundreds of built-in transformation functions
  - Leverage metadata-driven productivity and enable collaboration

- **Manage & Monitor**
  - Use a simple, web-based dashboard to manage your runtime environment
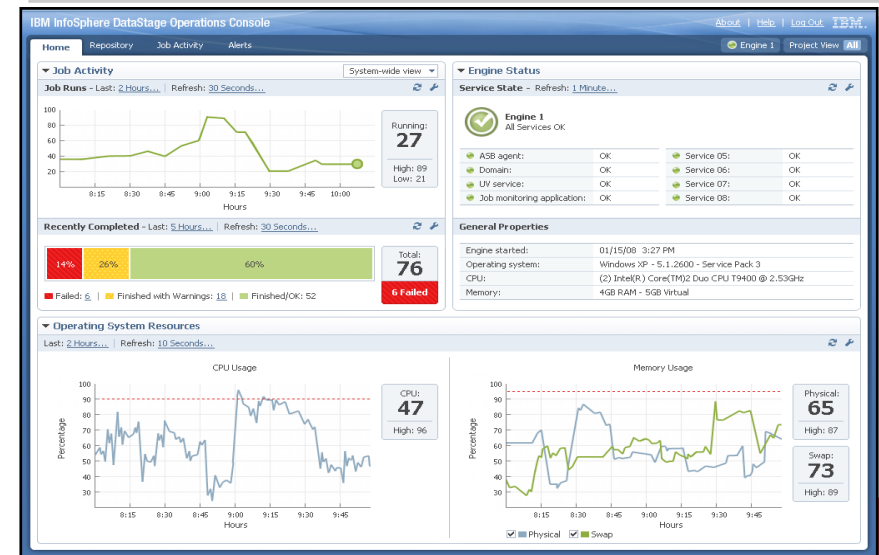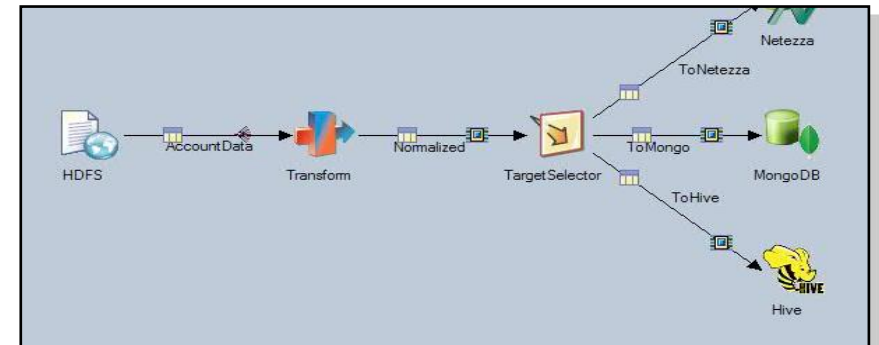
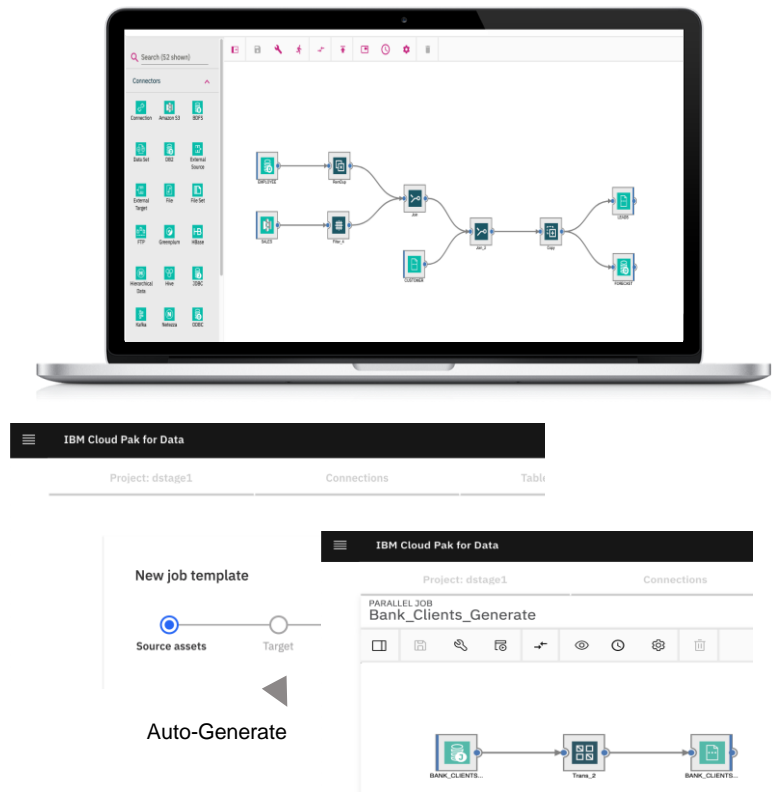# Unified Platform for **Data Integration**, Data Quality & Data Governance

Data Integration – IBM Infosphere

Increasing time to value through smarter automated design

Increased design productivity and time to value via:

- M/L assisted visual flow design

- Automatic schema propagation

- Rich set of ready to use operators and connectors

- Integrated source code control

- Job Templates to automatically generate data movement flows

Backwards compatibility to jobs designed with the DS rich client.

Unified Platform for **Data Integration**, Data Quality & Data Governance

Data Integration – IBM Infosphere

Ready to use Transformations:

- Simple and complex operations

- Warehouse specific operations

- Data Quality, Cleansing and Business logic

- Logical, String, Date, Time, Math operations

- Aggregations

- Hierarchical transformation

- Data security and obfuscation

- Development & Testing

21

Unified Platform for **Data Integration**, Data Quality & Data Governance

Which of the following steps would be most important right now to improve your organization's success with BI and analytics and increase the value it gains from data assets?

Step	Percentage
Improve data quality and trust in data	66%
Empower more users with self-service functionality	53%
Improve data integration and single, integrated views of data	51%
Establish a data catalog and metadata management	51%
Increase user training	48%
Address governance and regulatory priorities	36%
Improve data transformation and data pipeline development	36%
Ensure data security, access control, and authorization	31%
Automate data management and integration	31%
Allocate more budget and get executive support	28%
Embed analytics and visualizations in business applications	28%
Enable user exploration of unknown data	25%
Increase scalability	21%
Migrate data management to the cloud	15%
Other	3%

Source: "Evolving from Traditional BI to Modern Business Analytics," TDWI Best Practices Report, Q3 2020. Based on answers from 240 respondents. Respondents were asked to select at least their top five.

David Stodder, TDWI Senior Research Director, Business Intelligence

- Data quality: Two-thirds want to improve data quality and trust

- About half see establishing a data catalog and metadata management as key

- 36% want to improve data transformation and pipeline development

tdwi
Transforming Data With Intelligence™