## 2016 IMS Technical Symposium IMS meets IDAA

Udo Hertz, Director of zAnalytics Accelerator and DB2 z Tools Development 10 March 2016



## Data is transforming industries and professions.



## Customer experience is #1 priority in any industry

# Enterprises have plenty of data.

# #1 is rich transactionaldata from hundreds ofbusiness applications

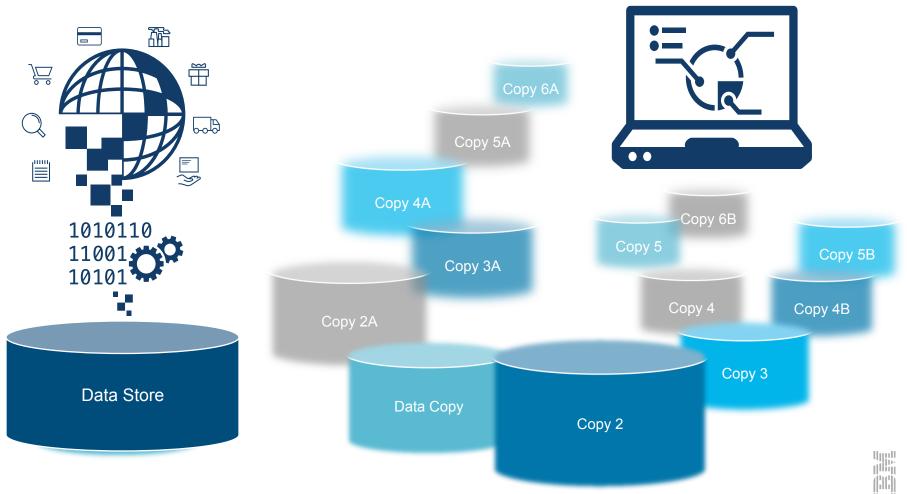


#### Is this your view of doing Analytics?





It's time to change the perspective Moving data for the sole purpose of analysis is costly, risky and unnecessary



Integrating BA/BI with operations requires a hybrid environment - IMS and the Analytics Accelerator (IDAA)



#### **DB2** Analytics Accelerator personalities

- Access path fast scan with hardware assisted early filtering
- Full width index
- Specialty engine
- Archive
- Integration hub: fast 'federated joins across heterogeneous sources
- Query and ETL acceleration

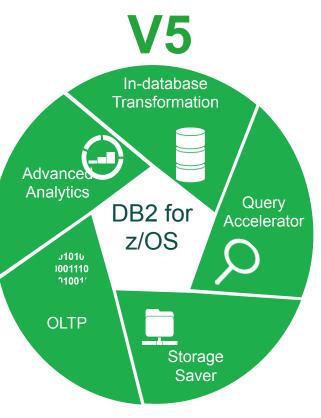
#### The hybrid computing Platform on z systems

- Supports transaction processing and analytics workloads concurrently, efficiently and costeffectively
- Delivers industry leading performance for mixed workloads
- The unique heterogeneous scale-out platform in the industry
- Superior availability reliability and security

#### IDAA no longer just accelerates reports and queries: Transform and model data without moving it

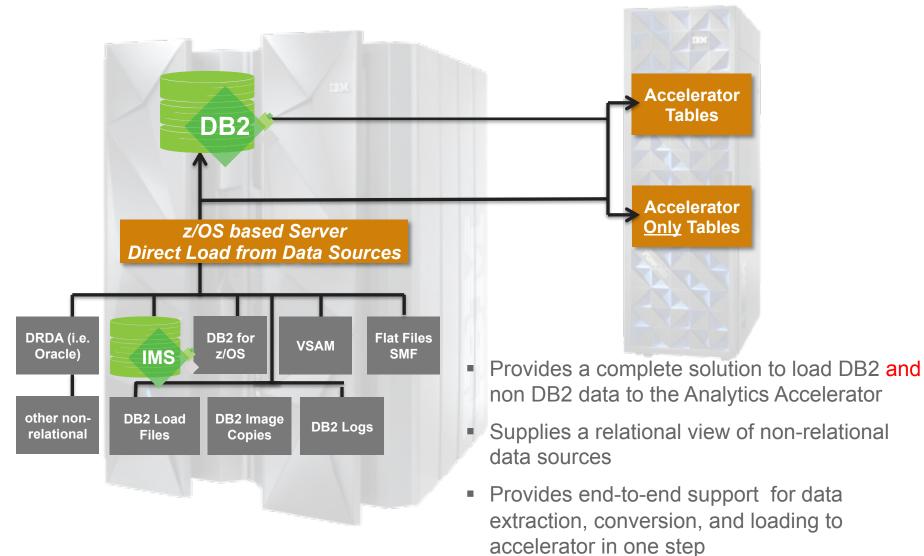
- Near real time high volume operational reporting in a cost effective way.
- Near real time analytics on the transactional data to spot fraud patterns and behavior
- Centralized, hybrid analytics/transactional environment and drive real-time business insight for banking solutions
- Loading and joining other types of data beyond DB2 provides business insight



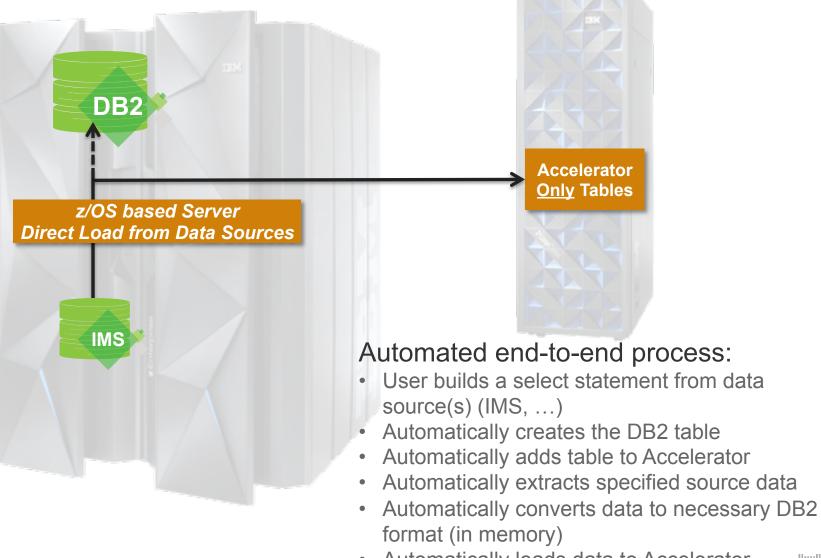




#### IBM DB2 Analytics Accelerator Loader for z/OS v2.1

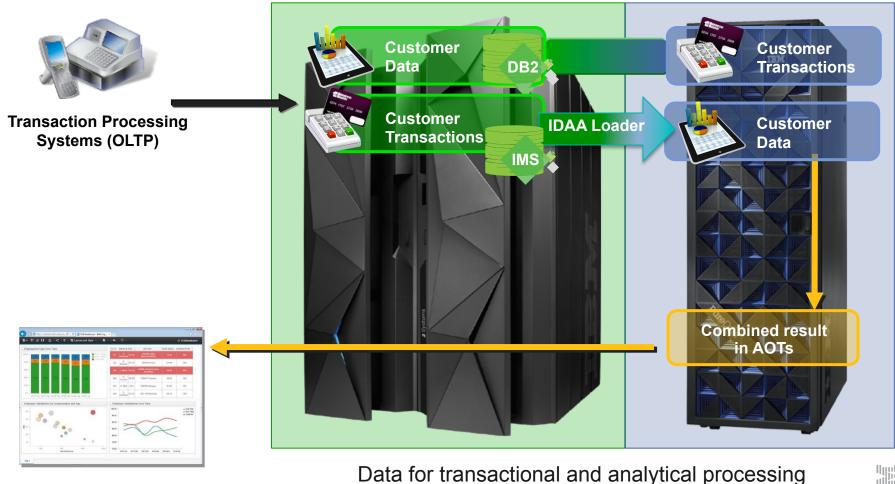


#### IBM DB2 Analytics Accelerator Loader for z/OS v2.1



#### Integrate IMS and DB2 data for analytics

Load external data to the accelerator and save combined analytic results in accelerator-only tables

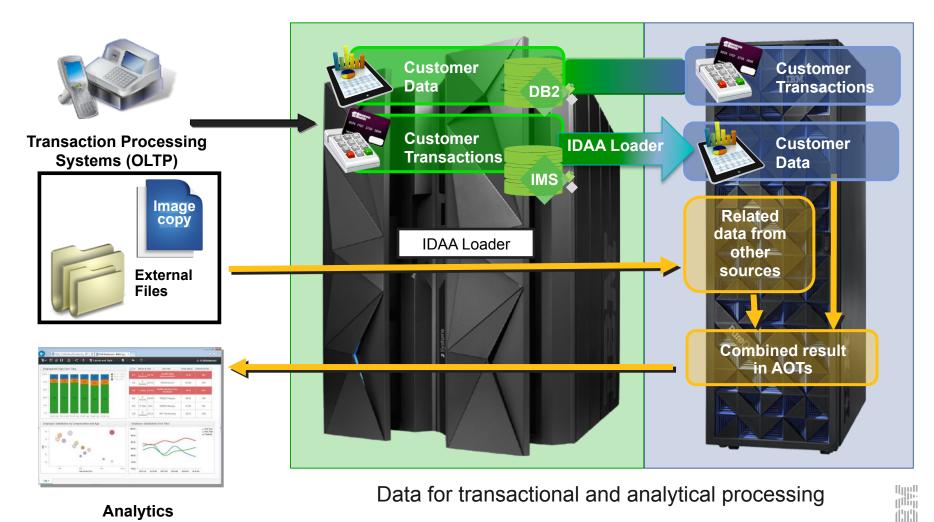


#### Analytics ©2015 IBM Corporation 10 March 2016

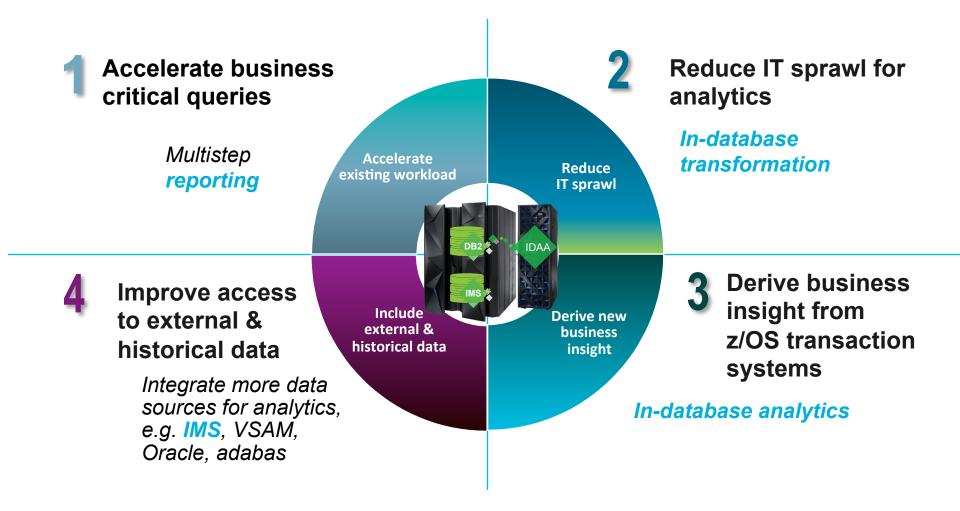
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#### Integrate more data sources for analytics

Load external data to the accelerator and save combined analytic results in accelerator-only tables

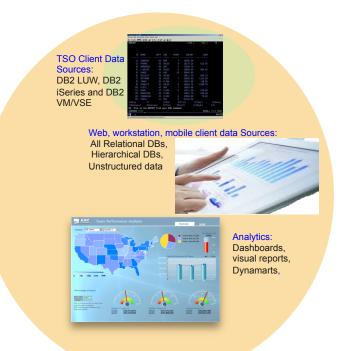


New use cases with Accelerator-only tables and in-database analytics



#### QMF for z/OS 11

- QMF for z/OS is a visual business intelligence tool that provides interactive dashboards, reports and analytics via modern interfaces such as the web and mobile devices.
- Access to many data sources DB2 as well as IMS via JDBC



- IMS DB customers can create analytics accessing IMS DB data:
  - QMF reports and dashboards can be created by directly accessing IMS DB data
  - Using the DB2 Analytics Accelerator Loader for z/OS, QMF for z/OS can query data from IMS in the DB2 Analytics Accelerator without impacting transactional workloads
- QMF pricing is based on the DB2 for z/OS footprint.
  - Access to all other data sources is at no additional cost
  - i.e. if you currently license QMF for z/OS to access DB2, then access to IMS is at no additional cost.

#### Join the QMF Beta Program starting now!

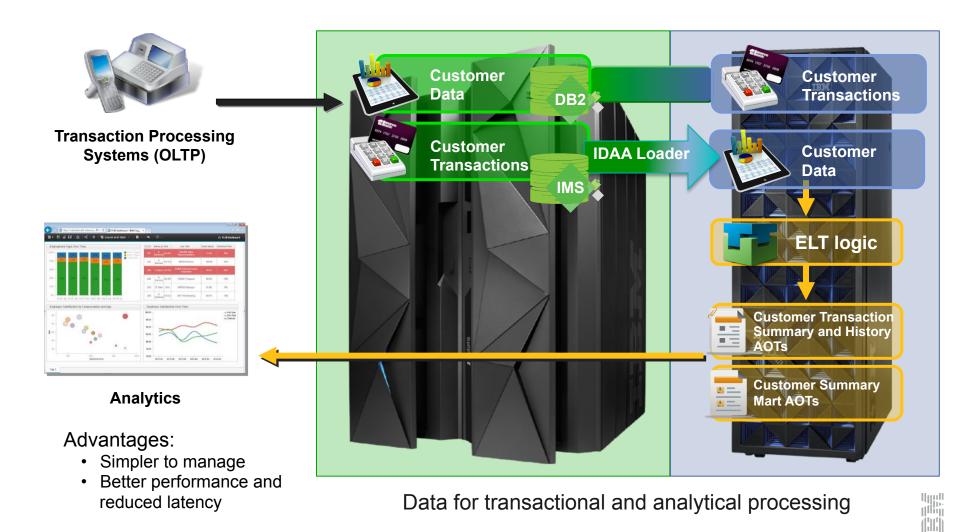
- Faster analytics and additional data sources: e.g. VSAM, Adabas, and more
  - The speed of QMF data federation is provided with new in-memory analytics technology
  - A single query can quickly analyze data from multiple data sources

#### > True Self-Service BI

- All users can create visual business insights with the new web client visualization interface
- Rapid deployment of business information using effective and immediate collaboration with others

#### In-database transformation

Using Accelerator-only tables and ELT logic in the Accelerator

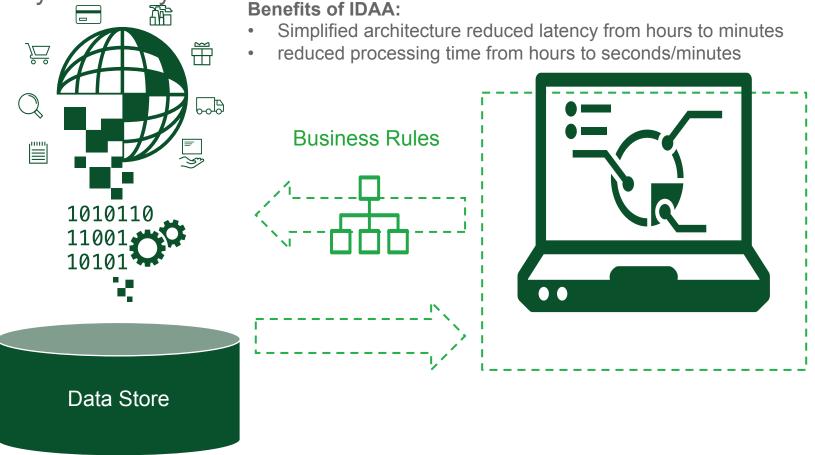


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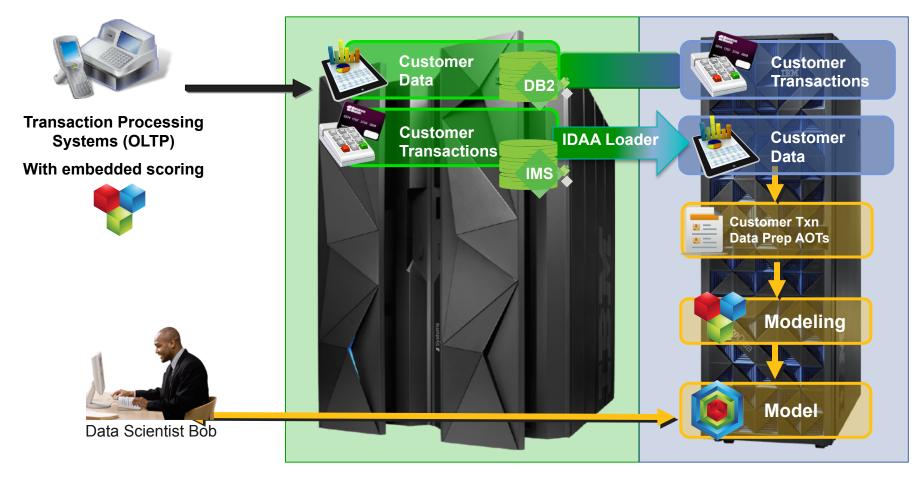
#### Example

A Global Financial Services company has a core **transactional fraud detection/monitoring** platform.

Fraud analytics team require access to intra-day view of operational data to carry out analytics



#### In-database analytics Data preparation (using AOTs) and SPSS modeling in the Accelerator



#### Data for transactional and analytical processing

#### Example

### Better retail **customer insights** from loyalty program and suggested-sell based on customer's shopping cart

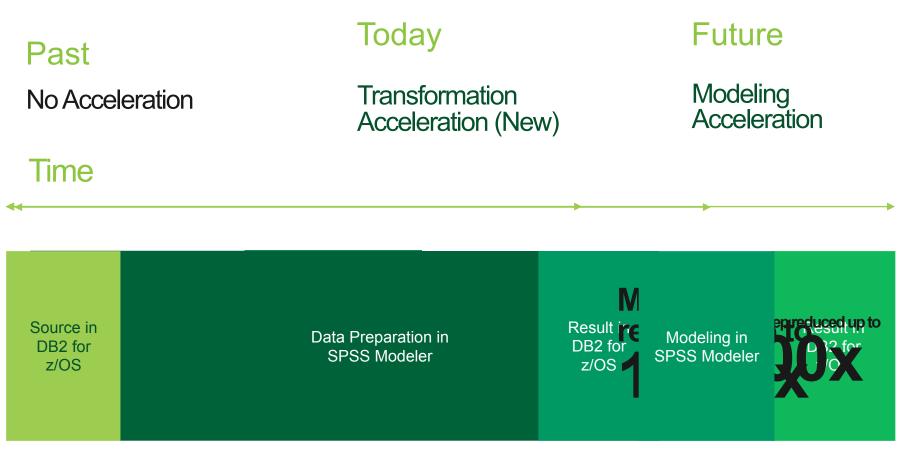
Dramatically reduce the time required to keep models current and improve accuracy by expanding the amount of data available for building those models.

Modeling

Source Data Data Access Preparation



#### Results of a retail use case study



#### **Benefit:**

Improved accuracy of buying suggestions reduced the turnaround time for model refresh from weeks to hours.

#### Example

Large North American insurance company needs more accurate **policy scoring** and better timing. Benefits of IDAA and IDAA Loader:

load the IMS data in a couple of hours 楍 instead of days Ħ Run scoring programs against 100% of the data in around 2 hours 6-0-**Predictive Models** E 1010110 11001 10101 Data Store

#### Win the customer experience arms race

Integrate analytics with your transaction systems to compete in the Cognitive Era

Adopt a strategy that **analyzes data in place** 

Drive **predictive intelligence** directly into your core operations

Build on what you have, incrementally, at your pace

