4PLUS & IBM Enterprise Data Warehouse Solution

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Agenda

- Business requirement
- Solution Propose
 - I. Infosphere Information Enterprise: Real time data for improve insight
 - II. IIAS: Hybrid Data Management
 - III. Cognos: Intelligent Reporting Tool

Executive Summary

Given the shift in the market due to the impact of COVID-19, cost cutting, risk mitigation and business continuity are top initiatives for your customers and prospects. As a result, we are coordinating a repositioning of our offerings to align our value propositions to align with the market needs. The initiative "IBM Enterprise Data Platform" focuses on messages that illustrate how IBM can help Business Entity and prospects realize cost savings and risk mitigation value propositions. This is a shift away from "value add" to "dollars saved".

"Provide Fact Base information to support decision making process with timely and effectively

Up to 50%"

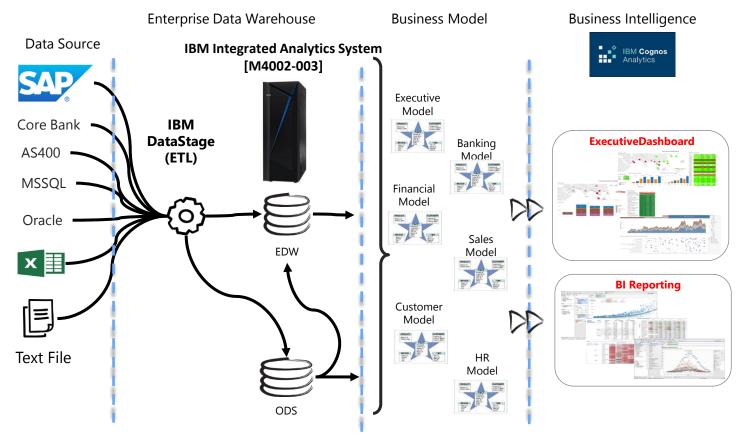
Project Objective

As Business Entity needs a centralized view of financial, non-financial and customer data. There are customer data, transaction data and master data that provided by multiple systems with various technologies and various data frequencies. Including data to another systems to serve various reports or downstream systems.

<u>4PLUS & IBM enterprise data warehouse solution will provide the</u> <u>following capabilities:</u>

- Provide a single source of the truth
- Provide data to serve operational and analytics purposes
- Provide batch monitoring and management
- Provide simplified and standardized ways to develop interfaces
- Provide fact base information and analytic report to support Management for decision making process.

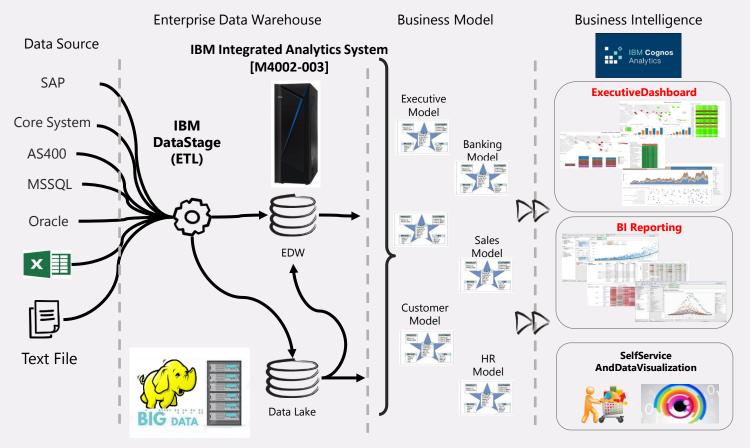
Solution: 4PLUS & IBM - Enterprise Data Warehouse and BI Solution



IBM.



Roadmap Solution: 4PLUS & IBM - Big Data Solution





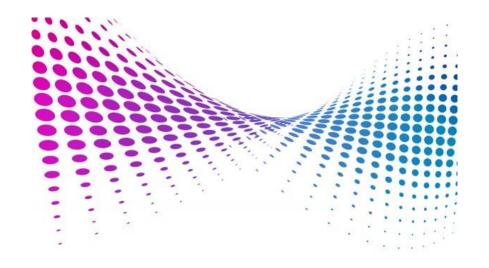


Proposed Solution

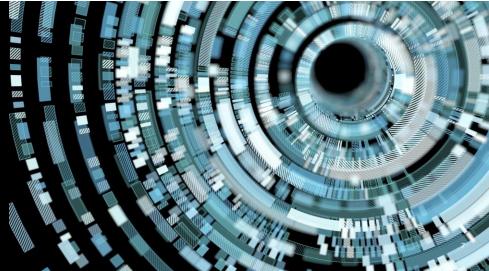
Integrated all Data

- ETL/ELT Tools (Text File) : IBM Data Stage
- EDW : IBM Integrated Analytics (IIAS)
- High Performance Data
- Scale out and Scale up
- Integrated KK Bank System
- BI and Reporting Tool : IBM Cognos

IBM IIAS: EDW Integration Analytic Systems



- Flexibility in choosing deployment and consumption models that best suit the business needs
- Bridge between data stores for seamless data integration or application movement
- Write your application once and run it anywhere with application portability
- Avoid lock-in



Introducing the IBM Integrated Analytics System

IBM

Built-in **IBM Data Science Experience** to collaboratively analyze data

Real time analytics with **machine learning** that accelerates decision making, bringing new opportunities to the business

Cloud-ready to support multiple workload deployment options

Reliable, elastic and flexible system that reduces and simplifies management resources

Leverages a **Common SQL Engine** for workload portability and skill sharing across public and private cloud

Optimized for **high performance** to support the broadest array of workload options for structured and unstructured data in your **hybrid data management** infrastructures

IBM INFOSPHERE:

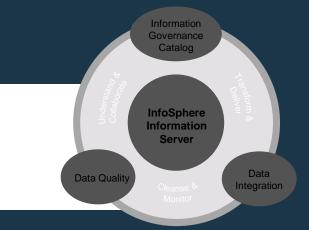
Flexibly meet your unique requirements — from data integration to data quality and data governance

- Integrates data across multiple systems This powerful, Scalable extract, transform, load (ETL) platform helps you get flexible and near real-time integration of all types of data
- Understands and governs your information Use a standardized approach to discover your IT assets and define a common business language to your data.
- Assesses, Analyzes and monitors data quality Derive more meaning from your enterprise data through integrated rules analysis on a scalable platform that support heterogeneous data.



IBM InfoSphere Information Server

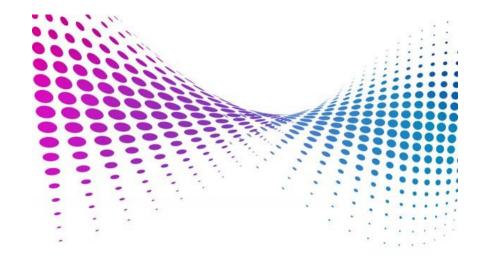
Information Empowerment for Your Data Ecosystem



Information Governance Catalog	Data Quality	Data Integration
 Understand & Collaborate Catalog technical metadata & align w/ business language Manage (big) data lineage BCBS compliance reporting 	 Cleanse & Monitor Analyze, validate, classify Cleanse & standardize Define, manage & monitor data rules + exceptions 	 Transform & Deliver Massive scalability Power for any complexity Deliver in batch and/or real-time with change capture

Common Connectivity / Shared Metadata / Security / Common Execution Engine With Flexible Deployments (Hadoop, Grid, Cloud)

IBM Cognos Analytics: Al Foundation



All the answers you need, in one place.

Complex data often presents analytics challenges. But you could break through the noise and paint a clear picture of what's driving your business.

You need analytic that are reliable enough to guide your business decisions, smart enough to detect hidden patterns, and visually compelling enough to resonate with your stakeholders.

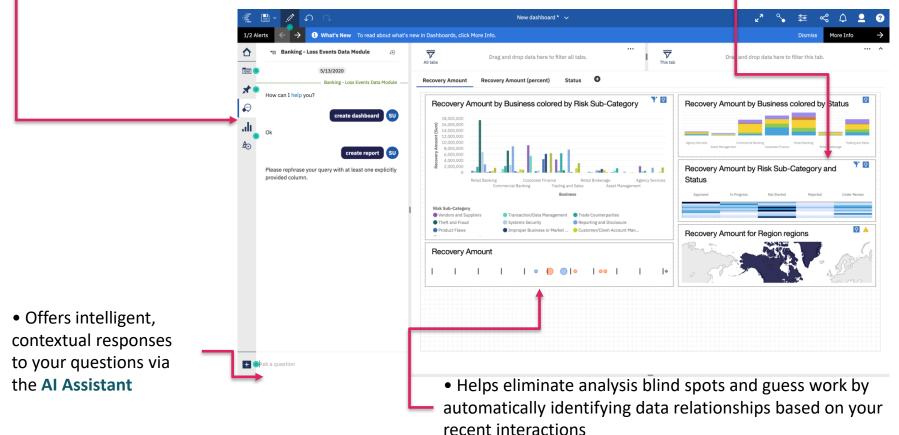
IBM Cognos Analytics is the only solution that uses AI-assisted data exploration to democratize business intelligence so users at any level can analyze and communicate the story of your data.



Find answers others can't

• Provides recommended visualizations and presents additional AI-generated insights in natural language

Uncovers the underlying drivers of results and the strength of the relationships among the data fields



Make your data work for you—from novice to expert

• Provides a simpler, faster and easier user experience, with extended capabilities revealed as you need them

• Surfaces answers quickly using common search terms, drawing from all your data sources, widgets, dashboards and reports

A GOOD EXAMPLE OF A DASHBOARD



• Automates data prep to save time and enhance data accuracy, letting users upload data and perform cleansing and shaping directly within the tool

• Allows easy mixing and matching of your data through a system that recommends data joins and ways to blend data from different sources

