

SAP Analytics – Overview Webinars

SAP Analytics - Overview

SAP BI – Overview & Roadmap

SAP EPM – Overview & Roadmap

SAP EIM – Overview & Roadmap

SAP Predictive Analytics – Overview & Roadmap

SAP GRC – Overview & Roadmap















Jayne Landry

Olivier Duvelleroy / Saurabh Abhyankar

Kirk Anderson

Paul Medaille

Sven Bauszus

Kevin McCollom

Mar 16

Mar 23

Mar 24

Mar 30

Mar 31

Apr 13

SAP Analytics Portfolio - BI Solutions 1/2

Crystal Reports; Nina Bao / Donald Guo Intro by Merlijn Ekkel Mar 29 Reporting Web Intelligence Gregory Botticchio **Adopting BI 4.1 /4.2** Merlijn Ekkel Apr 5 Apr 7 What's new in BI 4.2 Merlijn Ekkel **Analytics Services** Markus Schunter Apr 12 Portfolio **Self Service BI** Ina Felsheim Apr 14 Lumira; François Imberton Apr 20 **Discovery & Analysis** Intro by Saurabh Abhyankar Pred. Analytics, Pierpaolo Vezzosi

SAP Analytics Portfolio - BI Solutions 2/2

Cloud for Analytics Apr 21 Tv Miller **BI Cloud** BI in the Cloud BI for Office /Analysis for Office & Live **Office Integration** Alexander Peter Apr 27 Office **Dashboards & Apps** Ian Mayor / David Stocker Design Studio & Dashboards Apr 28 BI platform Maheshwar Singh May 3 **Big Data** Angela Harvey May 11 May 12 Reena Sethy Mobile

SAP Analytics Portfolio – Predictive Analytics deep dives

SAP Predictive Analytics

An automated process, a technological breakthrough to produce predictive results in operational IT environments

SAP Predictive Analytics

Why massive modeling is important?

SAP Predictive Analytics - Roadmap session What's new & what's next

Predictive Data Preparation

SAP Predictive Analytics

How to become a data scientist in no time

Laurent Tessier

Date tbd

Hervé Kauffmann

Date tbd

Ashish Morzaria

Date tbd

Abdel Dadouche

Date tbd

Ashish Morzaria

Date tbd

Webinars, Recordings & Presentations available @



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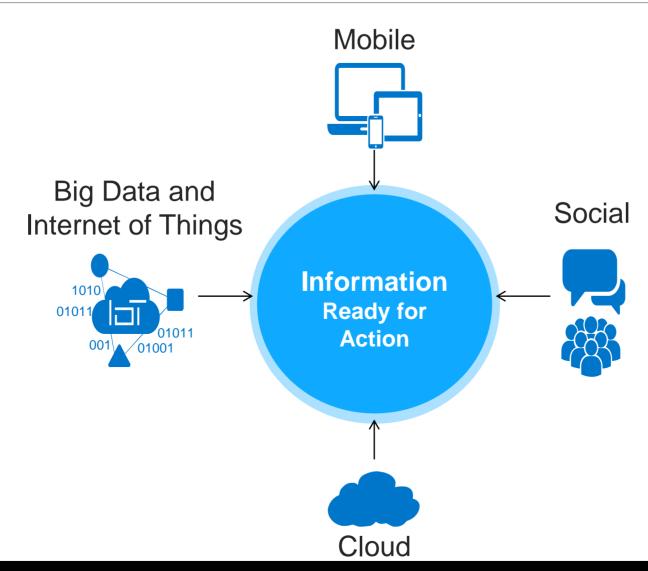


Introduction to EIM





Companies that can unlock value of information from data are winning



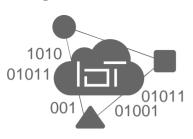
SAP solutions for enterprise information management

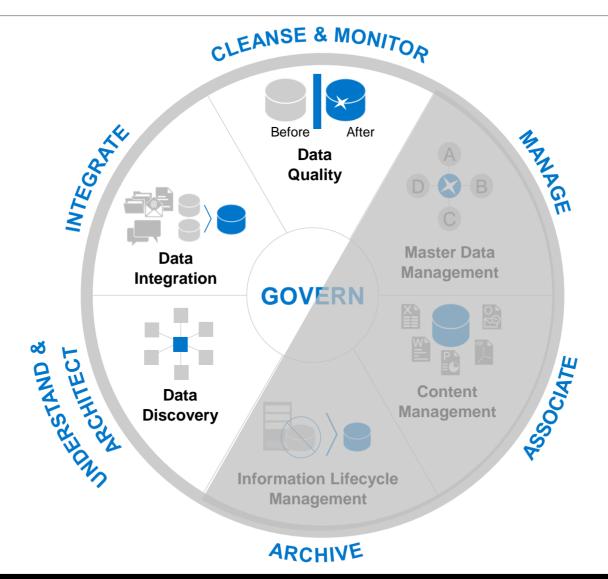
Information ready for action

Analytics



Big Data & IoT





Business Processes



Compliance



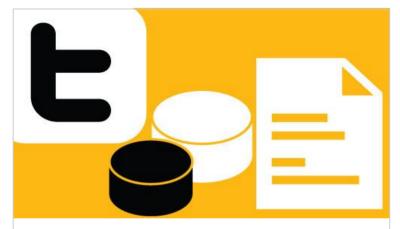


EIM for Analytics



SAP PowerDesigner

Capture



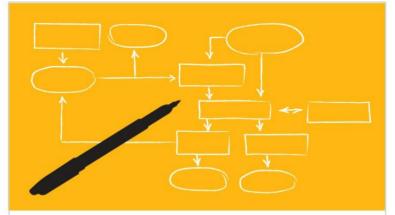
Define current environment

Document Existing Systems

Describe the interaction

Model business & technical artifacts with related metadata

Design



Design & plan for future

"As-is" and "to-be" modeling

Streamline implementation

Generate Change

Integrate all aspects

Tie business & technical viewpoints across the enterprise

Communicate



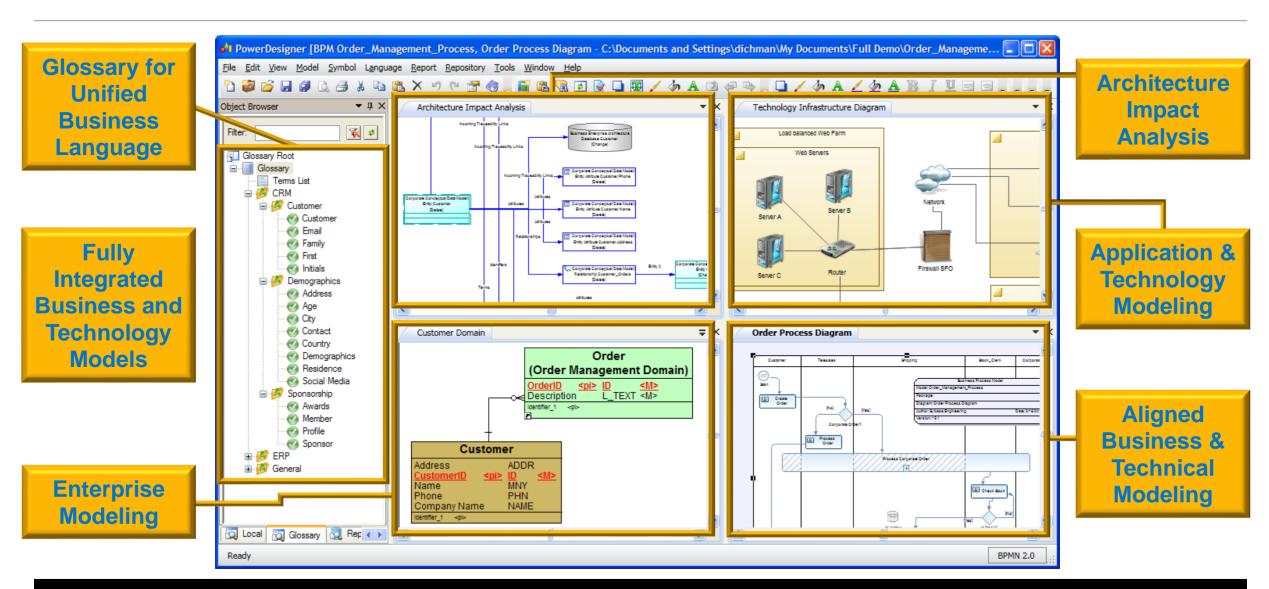
Realize impact of change

Graphical, bi-directional understanding from architecture to execution

Collaborate

Central repository to communicate, report and share

Integrated Information, Business and Technology Architecture



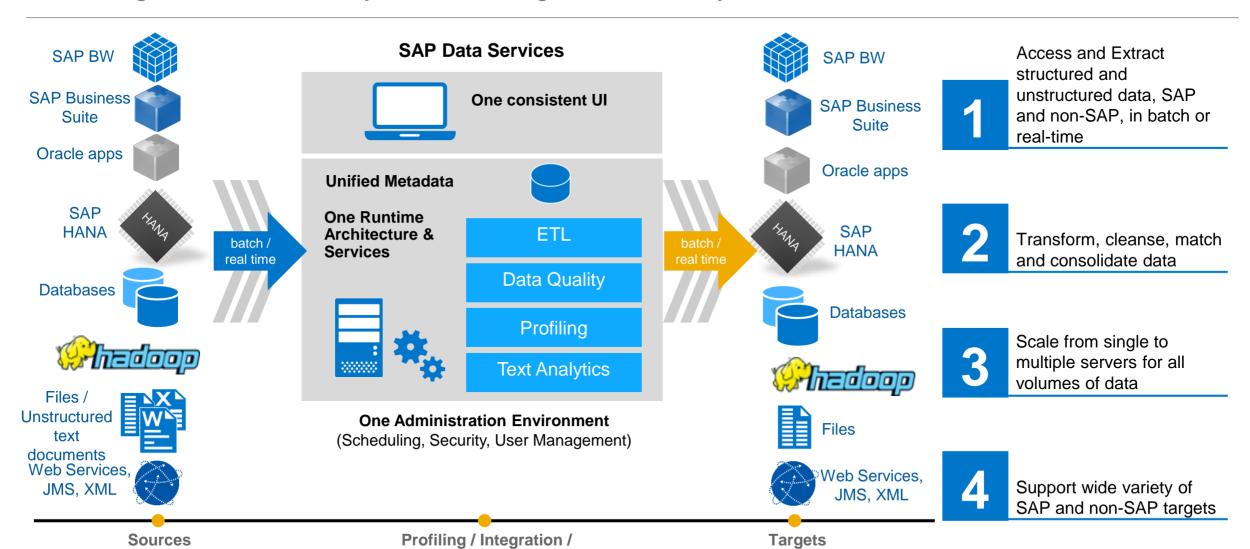
Data Services and Information Steward For Data Warehousing and Business Analytics



- Ensure right data into the DW for trusted BI
- EIM Solutions to integrate and harmonize data quickly, easily and accurately

SAP Data Services

Data Integration, Data Quality, Data Profiling and Text Analytics



Data Quality / Entity Extraction

SAP Data Services: Broadens Enterprise Data Access

Long history of providing connectivity to different sources

Databases

- HANA
 - tables
 - views
- Oracle
- DB2
- Sybase ASE / IQ
- SQL Server
- Informix
- MySQL
- Teradata
- JDBC/ODBC
- Netezza
- HP Neoview
- MongoDB
- Google Big Query
- HADOOP Hive

Applications

- SAP Bus Suite
 - Extractors
 - ABAP
 - BAPI
 - Idoc
 - RFC Direct read
- SAP NW BW
- SAP Rep Server
- SAP LT Rep Srvr
- SuccessFactors
- JD Edwards
- Oracle Apps
- PeopleSoft
- Siebel
- Salesforce.com

Files/Transport

- Text (delimited /fixed width)
- EBCDIC
- XML
- Cobol
- Odata
- Excel
- HTTP/HTTPS
- FTP/sFTP/SCP
- JMS
- Web Services
 - WSDL, WADL
 - SOAP, REST, JSON
 - oData
- HADOOP HDFS
- VCF*
- ESRI Shapefile

Unstructured Content

- Extracts context from any text or binary file types (docs, pdfs, ppts...)
- Understands context in 31 languages

Mainframe (with Partner)

- ADABAS
- ISAM
- VSAM
- Enscribe
- IMS/DB
- RMS
- Both direct and changed data

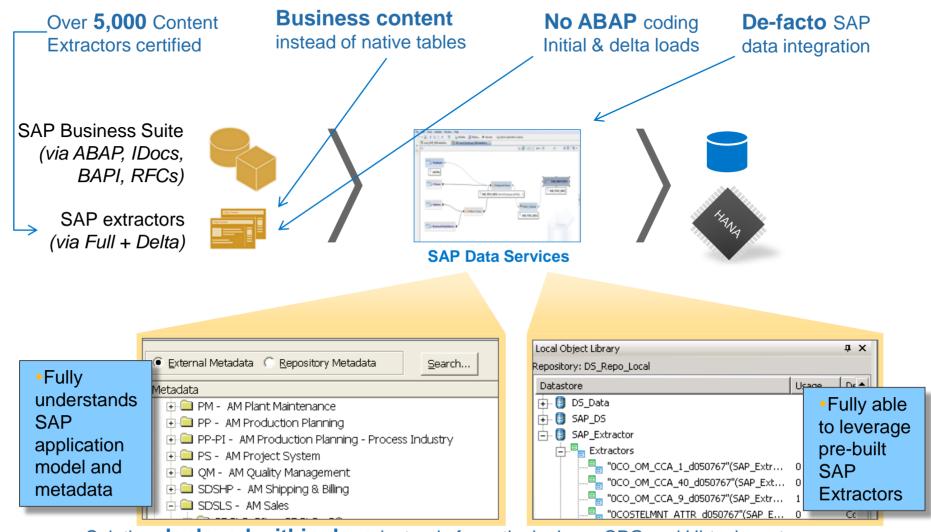
SAP Data Services Adapter Kit (SDK)

simplifies building connectivity to any applications and Big Data sources

*Variant Call Format for storing gene sequence variations

Please refer to https://service.sap.com/sap/support/pam

Best Native Access to SAP Business Suite Applications



Solution deployed within days instead of months by large CPG and Hi-tech customers

Native Extraction and Understanding of Unstructured Text

Automatically identify the entities, facts, and feelings hidden within

2012 Toyota Highlander, 1G1JF27W8GJ178227. Policy #456-788-99. \$500 deductible. Insured are William Thomas Snow and Christine W. Snow. On 1/09/13, received via text message "In accident! Need tow truck." and "Corner of Winter & Cross Rd". Dr. Snow slid through a stop on the snowy road and hit the stop sign. Significant damage to front of the car. He was unhappy at tow truck response time. Contact wtsnow@medicalcenter.com or 651.772.1234. Advance Appraisals Inc. to come out at 8:30am Monday to make further assessment.

DATE

VEHICLE/LAND

VEHICLE/VIN

POLICY NUMBER (CUSTOM)

CURRENCY

ORGANIZATION/ COMMERCIAL

TIME

DAY

NOUN GROUP

FACILITY/PATH

SENTIMENT

WEAK NEGATIVE SENTIMENT

MAJOR PROBLEM

PERSON

REQUEST

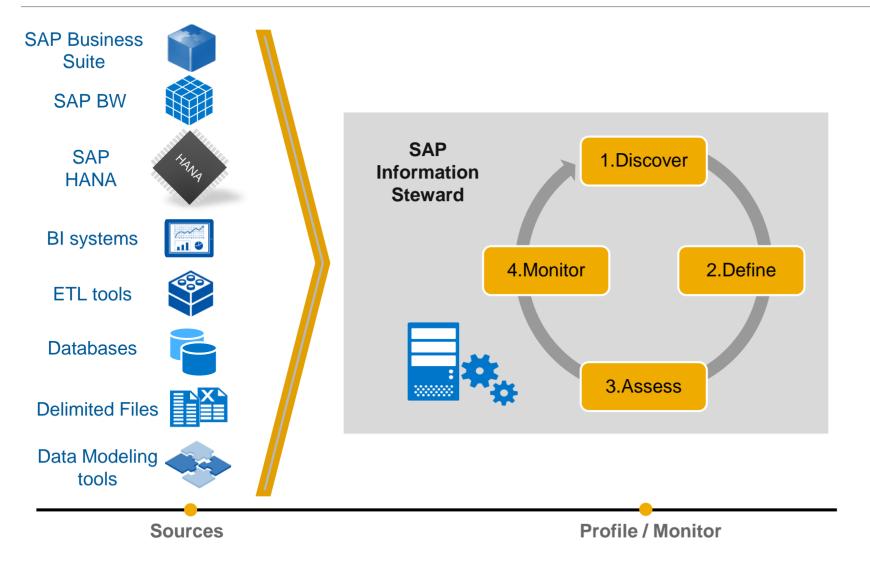
URL/EMAIL

PHONE

Who, What, Where, When, How much, as well as Feelings

SAP Information Steward

Profile, Assess, Monitor, and Manage Data Quality Across the Enterprise



Data profiling, metadata management.
Catalog data assets

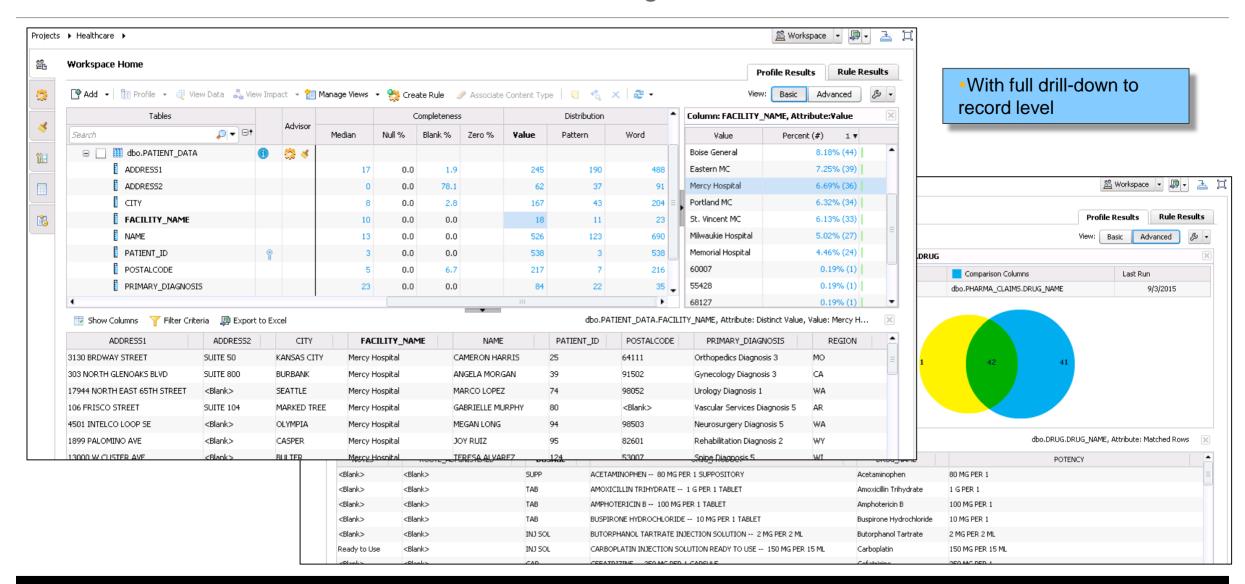
Define business terms, validation rules, cleansing rules and policies

Assess and Catalog data quality of data assets

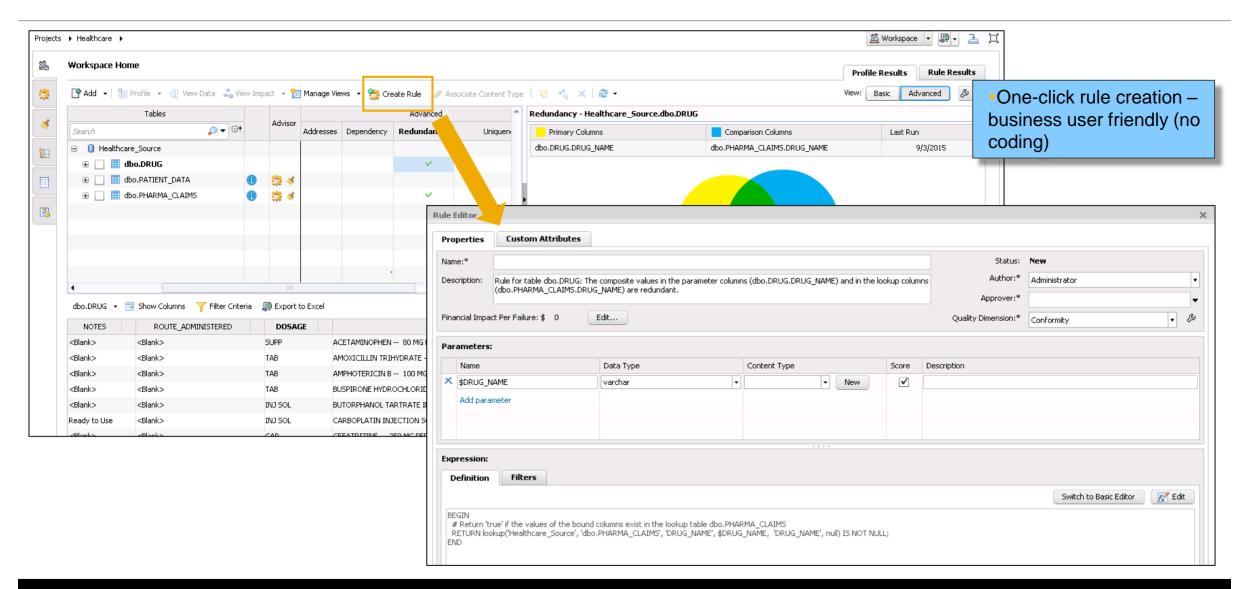
Monitor data quality, to resolve discovered issues

Profiling

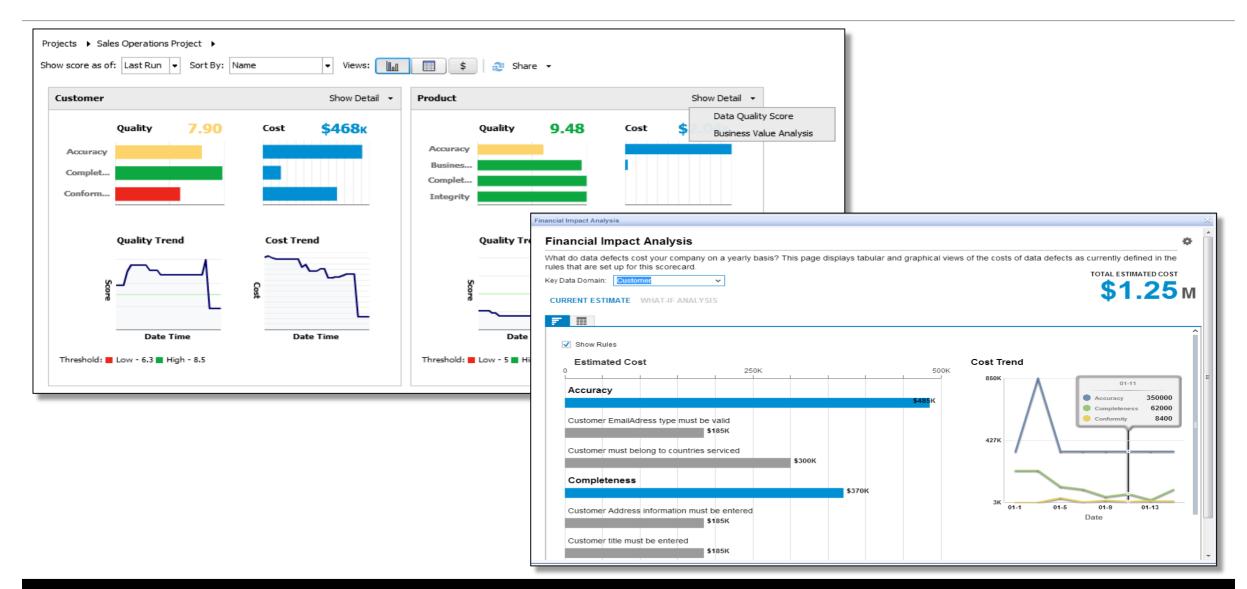
Point-and-click data assessment with zero coding



Validation Rules for Business Users

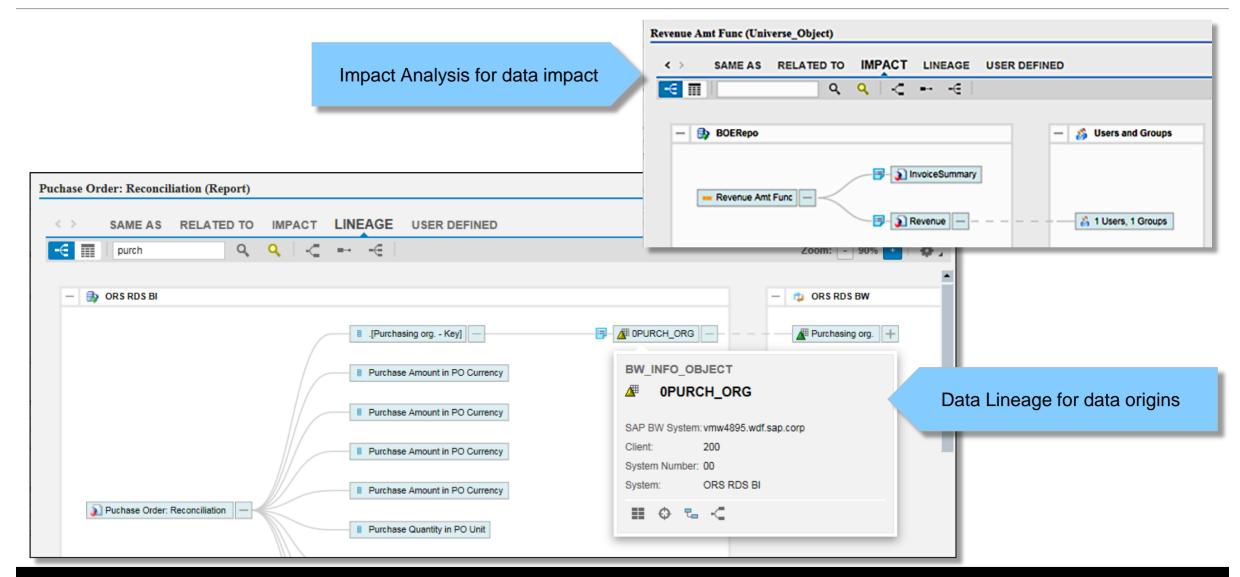


Visualization of Data Quality with Dashboard and Scorecards

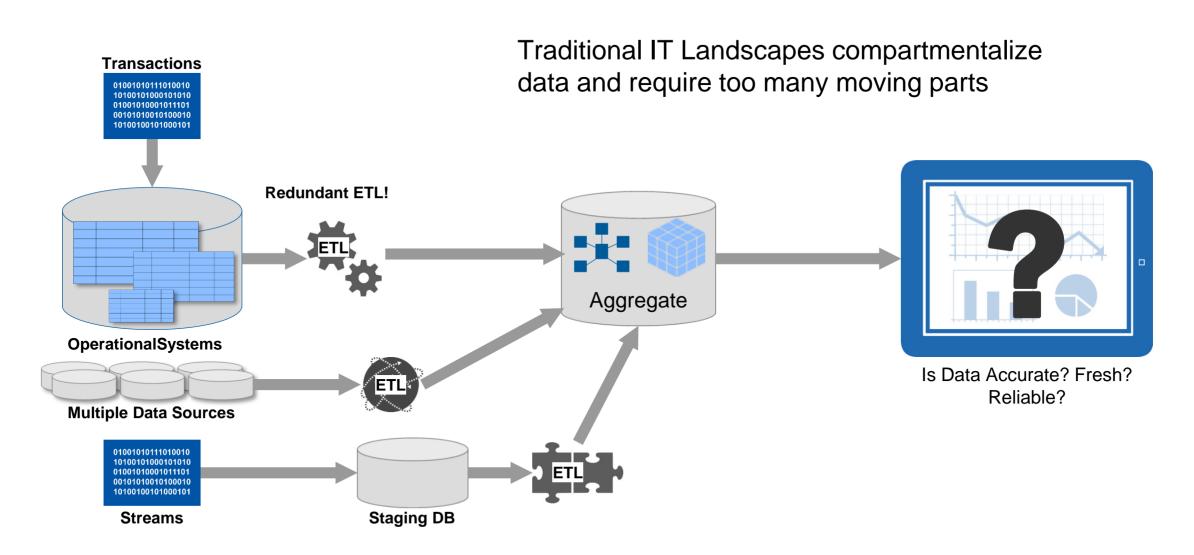


Data Lineage / Impact Analysis

Insights into data origins and data impact



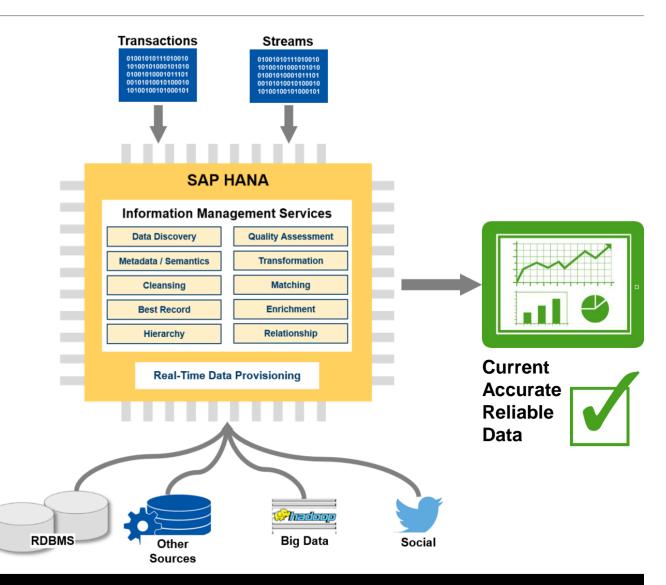
Typical Complex Data Landscape



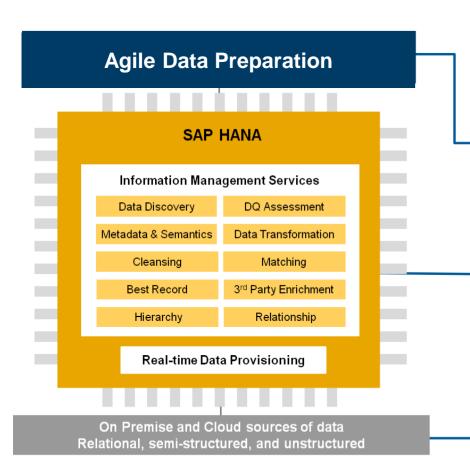
Simplified Landscape with SAP HANA

SAP HANA Enterprise Information Management simplifies your data handling

- Simplified landscapes, fewer moving parts
- Data management services built in to the platform – consumable by partner and customer applications
- One common modeling environment for provisioning and consuming data
- Open and extensible
- Supports any shape, size, style of data integration
- Open framework for new data sources
- Accelerated in-memory performance



Information Management powered by SAP HANA



SAP HANA IM: Simplified landscape, lower TCO, inmemory speed, common metadata repository, integrated modeling environment, simple UI, for cloud or on premise.

SAP Agile Data Preparation: Self-service data preparation with a consumer-grade UX, IT oversight, and full data stewardship.

SAP HANA smart data quality: Address information management requirements (cleanse, match, best record, metadata and semantics, enrichment, etc.) with in-built HANA services; put the power to manage data within the platform and made accessible to the application.

SAP HANA smart data integration: Supports real-time replication, physical bulk/batch data movement, and federation in a unified framework. Support for both onpremise and cloud sources, with built-in adapters for common sources and an open and easily extensible SDK for ecosystem to offer custom adapters.

Sold together as SAP HANA Information Management Option

Data Preparation is Challenging and Time-Consuming

Today: **Publish Analysis Data Preparation** /Share Business analysts and data scientists Transformation
 De-duplication Discovery spend most of their time on data Cleansing Data Profiling Modelina Enrichment Annotating Curation preparation activities:

This has created the need for end-user oriented tools that can shorten the overall time for data preparation and improve the productivity of data scientists and business analysts

With Self-service **Data Preparation**



Adapted from "Self-Service Data Preparation: The Next Big Market Disruption," Rita Sallam, Gartner, March 2015

SAP Agile Data Preparation

Powered by Smart Data Integration/Smart Data Quality

Agile Data Preparation:

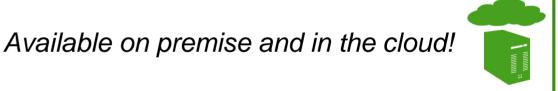
Consumer grade application that allows users to import, profile, merge, cleanse, de-duplicate and enrich any type of data to prepare for analysis in BI tools (Lumira, Tableau, Qlik, etc.). Gartner estimates that data analysts spend up to 80% of their time on data preparation.

Available on premise, and (soon) in the cloud; enables groups from teams to enterprises to take control of their data assets without IT bottleneck.

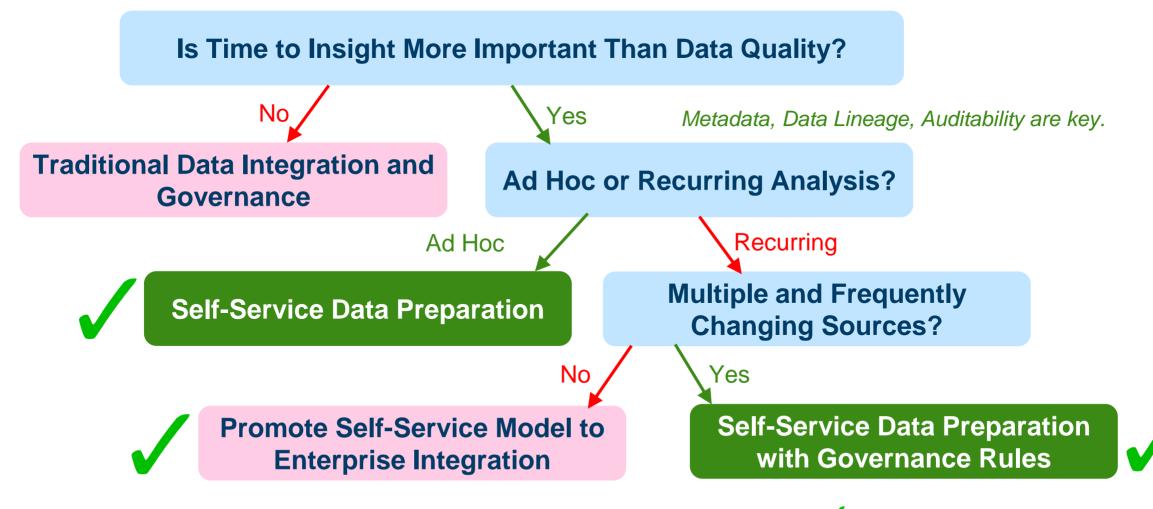
SAP Agile Data Preparation SAP HANA Information Management Services **Data Discovery Quality Assessment** Metadata / Semantics **Transformation** Matching Cleansing **Best Record** Enrichment Hierarchy Relationship **Real-Time Data Provisioning**

See a video demo at:

5 minute demo of SAP Agile Data Preparation



Harvest Content Generated by Business Users - Promote to Enterprise Integration and Governance



Adapted from "Self-Service Data Preparation: The Next Big Market Disruption," Rita Sallam, Gartner, March 2015



EIM Roadmap



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Dynamic governance, simplify, self-service and streamline EIM

Simple



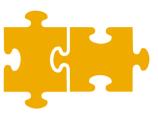
Easy User Experience
Compact Technology Stack
Complete Integration

Self-Service



Empower Users Business Ownership Personalized Reports

Dynamic Governance



Configurable – Adaptable
Policy Management
LOB-centric

SMART

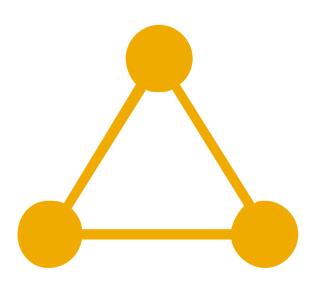


Agile | Quick | Sharp | Effective

Simplify



- Expanded use of Fiori UI technology allowing for more flexible and mobile enabled consumption
- Expanded and automated hierarchy management capabilities
- Tight integration across all EIM capabilities e.g. ETL; DQ; consolidation and governance; publishing; archiving
- On premise and cloud integration and support across your landscape



Self-service



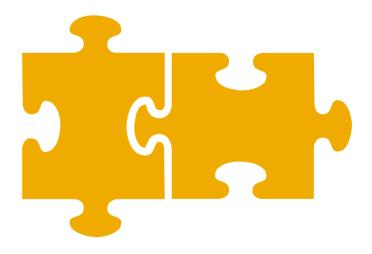
- Enable self-service data preparation for the business
- Enable data stewards to collaborate, assess, define, monitor, remediate and improve DQ
- Expanded SAP Smart Business analytical capabilities
- Flexibility to drill in and filter on Information Steward scorecards
- DQ dashboards based on SAP HANA rules framework easier rules management



Dynamic governance



- Governance and consolidation capabilities integrated on one SAP Master Data Governance platform
- Project to enterprise and enterprise to project policy management
 - Information policy management
 - Business user driven configuration of master data consolidation
- Expanded industry content and scenario enablement, e.g.
 Enterprise Asset Management



SAP EIM Roadmap

Existing EIM solutions

- SAP intends to continue offering existing EIM solutions to protect your investment
- SAP intends to continue enhancing existing EIM solutions to meet market needs

SAP HANA EIM solutions

- SAP provides a modern, in-memory platform for information management capabilities
- SAP intends to continue to enhance and add new capabilities driven by customer needs
- SAP intends to offer new applications (e.g. SAP Agile Data Preparation) for the cloud and on-premise based on the HANA EIM capabilities



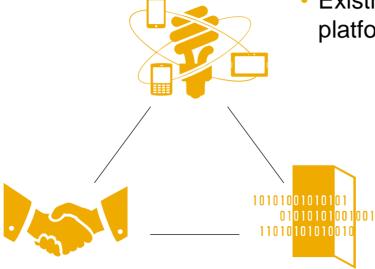
EIM roadmap summary

Better value to the business

- Simplicity and tight integration with industry and application offerings
- Built on our deep understanding of business processes

Innovation without disruption

- SAP will bring you to the future at your pace for both HANA and Cloud
- Existing products enhanced alongside new platform development



Comprehensive EIM Solutions for on premise and Cloud

- · Data in any style, shape, and delivery mode
- Information governance end-to-end



Thank You!



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Appendix: Product Roadmaps

For complete product roadmaps please see https://service.sap.com/roadmaps



SAP PowerDesigner

Today

PowerDesigner

Web Editors

- BPMN refinement
- Process Map language

Collaboration & Governance

- Multi-language Portal UI (EN, FR, DE, SP, RU, CH)
- · Portal custom attributes
- Portal reporting
- · Portal single sign-on support
- Portal model comparison (simple)

SAP Modeling Tool of Choice

- HANA SP08 support
- Portal administration features
- SAP Data Services integration

Planned Innovations

PowerDesigner

Web Editors

- · Requirements model
- · Enterprise Architecture model

Collaboration & Governance

- Portal enhanced search
- Portal impact & lineage analysis
- Portal multi-language content support
- · Portal customizable report
- · Portal model check-in management

SAP Modeling Tool of Choice

- Content collaboration with industry solutions
- SAP HANA updates and calculation view support
- SAP Solution Manager 7.1 improvements

HANA + Enterprise Architecture

- Data modeling
- · Enterprise Architecture modeling
- · Requirements modeling
- Impact & lineage analysis

Future Direction

Web Editors

- Glossary
- · Continued improvements of the Portal UI

Big Data

Support for unstructured data

Strategy & Planning

- Portal dashboard improvements
- Project lifecycle management collaboration
- Governance, risk & compliance collaboration
- · Additional EA notation support

Collaboration & Governance

- · Portal model comparison improvements
- Portal publishing
- · Notifications & subscriptions

SAP modeling tool of choice

- Content collaboration with industry solutions
- SAP Solution Manager 7.2 support
- SAP HANA Cloud Platform support

SAP Data Services

Today

Simple

- Improve Substitution Parameters management
- Add preview and select capability for importing objects

Big Data

- Support Hadoop on Windows platform
- Enhance existing connectivity (source/target) bidirectional support for Google BigQuery and MongoDB
- Data Access and Authentication Kerberos, LDAP, SSL
- Extended spatial data loading for MS SQL

Enterprise Support

- Runtime statistics integration with SAP Solution Manager
- Native integration with SAP NetWeaver CTS+
- Data Quality Statistics

Planned Innovations

Simple

- Landscape Management
- Replication wizard in Data Services Designer

Big Data

- Expand on premise connectivity- HP Vertica
- Expand cloud-based connectivity AWS S3, Redshift;
 Google Cloud Storage; Microsoft Azure (Blob Storage,
 SQL Server PaaS, IaaS)
- Advancing Enterprise Hadoop support with Apache Spark, YARN, Ranger, and Camel integration
- Support Outlook .PST container file as Source

Enterprise Support

- Enhancements in Text Data Processing engine
- Output linguistics Stem and POS tags
- Data Quality global expansion in Asia Pacific
- As-you-type suggestion for address search

Future Direction

Simple

- Display graphical execution plan
- Self-Guiding user interfaces
- · Intelligent Smart Module

Big Data

- Expand connectivity driven by market
- Data Model advisor for SAP HANA database
- Performance optimization

Enterprise support

- Self diagnostics and health monitoring utility
- Data Services 'datastore' as a service

SAP Information Steward

Today

Discover

- Support virtual view on union operation
- Enhance metadata collection for SAP ASE and SAP IQ
- Metapedia OnDemand category loading
- New SAP Business Suite metadata integrator
- SAP PowerDesigner integration

Define

- Information policy management
- Enhancement of custom attributes
- · Improved validation rule definition and approval
- New data quality advisor

Monitor & improve

- Improved email notification of failures
- Enhance analytics for data quality
- Improved match review user experience
- Six sigma calculation for rule score
- DQ business value analysis

Platform

- Integrator level security for metadata management
- Support for external scheduler

Planned Innovations

Discover

- Enhance Hadoop profiling and metadata integrator
- Enhance SAP Business Suite metadata integrator
- Support collection of SAP HANA's SDI and SDQ objects including transformation, source and targets
- · Metapedia desktop widget

Define

- Simplified rule editing
- Metapedia layout customization
- Grouping custom attributes

Monitor & improve

- · Calculate information policy scores
- Information policy management compliance dashboard
- Enhanced email notification to monitor score changes on scorecard level
- Export failed data for scorecard
- · Subscription based change notification
- Enhance validation rules usage reporting

Platform

- Enhance metapedia lifecycle management
- Clean up / maintain failed data tables

Future Direction

Simple, smart and collaborative user experience

Complete metadata management – from definition to operational metadata

Continued information policy management build out

Big data support for profiling and metadata management

Anonymize and mask sensitive information (e.g. PII) while preserving data relationships and relevant when viewing data

SAP SDI & SDQ

Today

SAP HANA smart data integration

- Workload Management Integration
- New Adapters
- Just-In-Time data preview
- New Data Sources
- Hierarchical Transform
- · Change Data Capture
- Virtual Table Parameters
- Auto Arrange
- · Enhanced Monitoring and Operations
- New Adapter Capabilities

SAP HANA smart data quality

- Enhanced Match Transform
- Enhanced Geocode Transform

Enterprise Semantic Services (ESS)

- Scheduling of publication and data profiling jobs
- · Monitoring of active requests
- Publish remote source metadata

Planned Innovations

SAP HANA smart data integration

- SAP Business Suite and SAP S/4HANA integration
- Disaster Recovery
- Transportable EIM repository content
- Data Masking Transform
- Hierarchy Flattening Transform
- Workflow
- REST API
- HDFS as a source & target

SAP HANA smart data quality

- New transform for SAP HANA rules framework (HRF) integration
- Best Record Transform

Enterprise Semantic Services (ESS)

- REST API to enrich Entity Grid with new properties
- Content type identification of new business types
- Support new types of remote sources with user level security

Future Direction

SAP HANA smart data integration

- Additional sources, transforms & targets
- Support for spatial data as a source
- Enhanced operational capabilities
- Enhanced usability
- Support for PGP, SFTP & SSO
- SAP HANA smart data streaming integration
- Apache Spark integration

SAP HANA smart data quality

- Custom cleansing rules
- Data enrichment
- Additional domains for cleansing
- REST API for on-premise deployments

Enterprise Semantic Services (ESS)

- Crawl, store and manage lineage and semantic relationships between datasets
- Suggest how to complement a user-given dataset with other related datasets
- ESS as a Service in the SAP HANA Cloud Platform

SAP Agile Data *

Today

- Interactively discover, search, manipulate, profile, cleanse and share datasets
- Monitoring capabilities for data lineage
- Job scheduling of projects
- Operationalization by IT (exchange to Web IDE)

Planned Innovations

- Stewardship capabilities (rules management, DQ scorecards)
- · Distribution of the validated data
- · Filter management, Aggregations
- Metadata Management, Data Protection Support
- Data Enrichment, Best records
- Workflow Support
- Excel amenities like multicolumn sorting, formatting, pivoting...

Future Direction

- · Additional domains for cleansing
- Additional stewardship capabilities (approval workflows, DQ reporting)
- Hadoop/Spark support