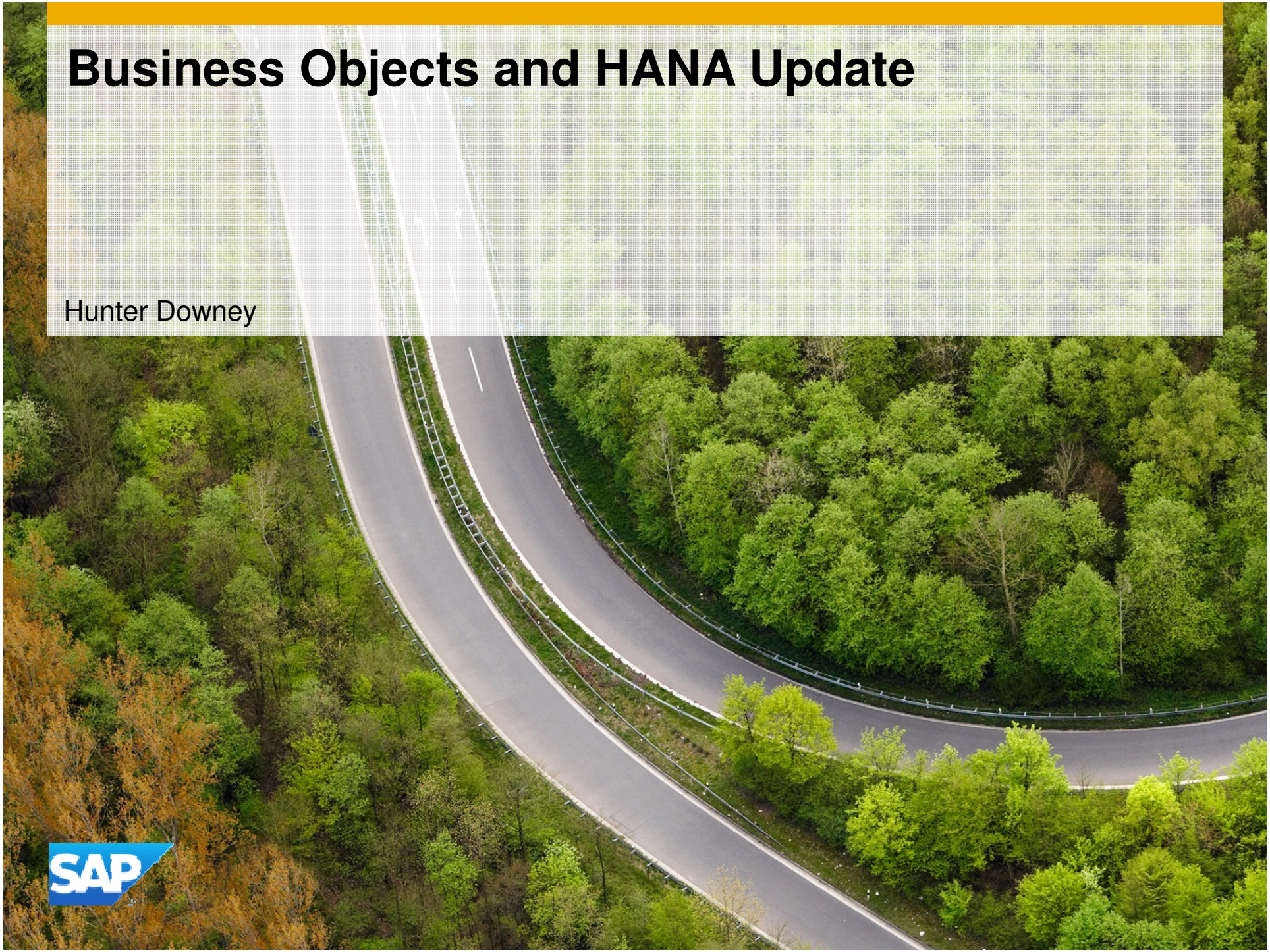
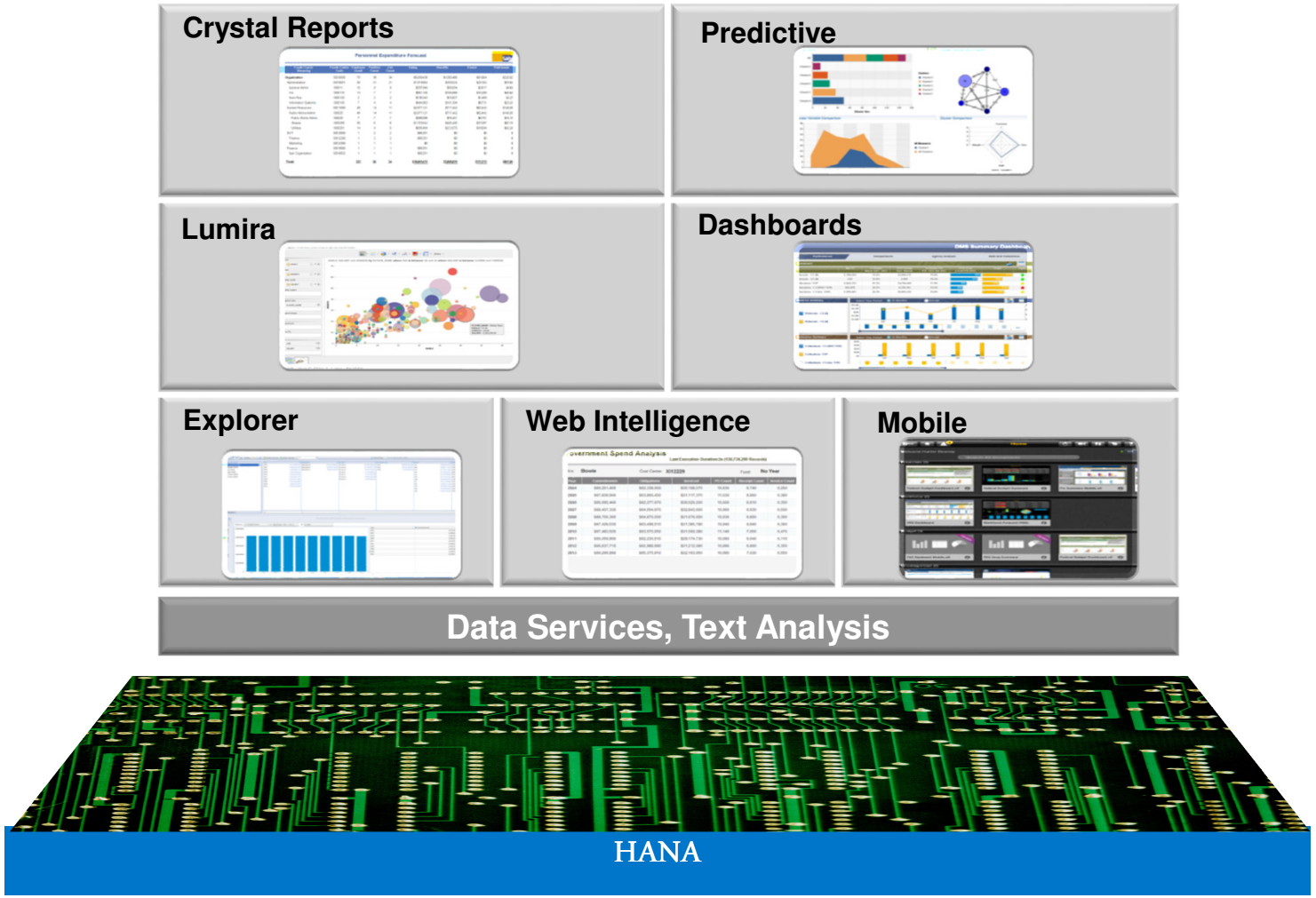
Business Objects and HANA Update

Hunter Downey



WHERE ARE WE TODAY?

What is our suite?



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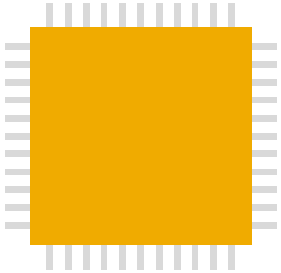
In Memory (HANA) Discussions

High Performance Analytical Appliance

Platform for Real-Time Business Applications

SAP HANA



In-Memory Database

Analytics
&
Planning

Predictive

Faster Processes

Single Platform

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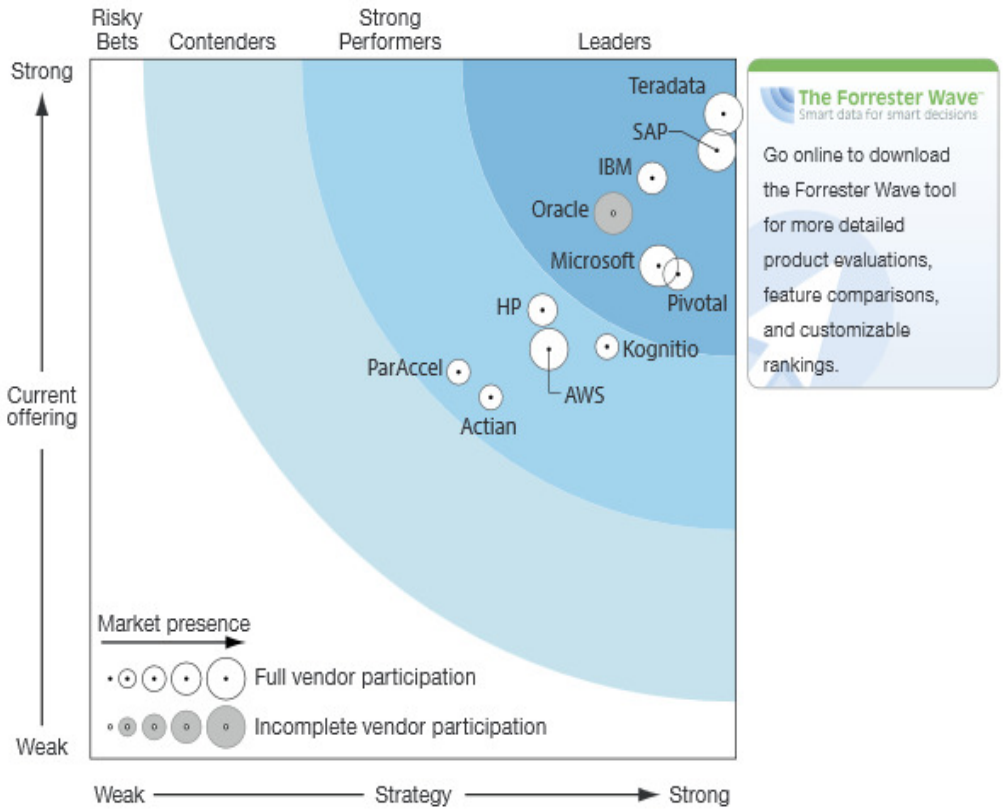
The Forrester Wave™: Enterprise Data Warehouse, Q4 2013

http://www.forrester.com/pimages/rws/reprints/document/86621/oid/1-LERVKO

Figure 3 Forrester Wave™: Enterprise Data Warehouse, Q4 '13



Source: Forrester Research, Inc.

SAP is finding its data mojo in SAP HANA and SAP Sybase IQ to support broader EDW use cases. SAP's differentiating go-to-market message for EDW focuses on its multinode distributed shared-nothing architecture distributed in memory, optimized data streaming, cache-coherent programming for optimized in-memory processing, real-time analytics, columnar data format, advanced compression, and data services layer. SAP HANA has done extremely well, gaining more than 1,800 customers since its launch in 2011. Enterprises are using SAP HANA for in memory data marts and SAP BW implementations that integrate with other DWs, including SAP Sybase IQ that has more than 4,500 customer installations. SAP provides streaming functionality to queue and ingest incoming streaming data, integrating with SAP Sybase ESP, a complex event processing solution, and supports high-speed data movement through SAP Sybase Replication Server.

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Public

3000+ HANA Customers

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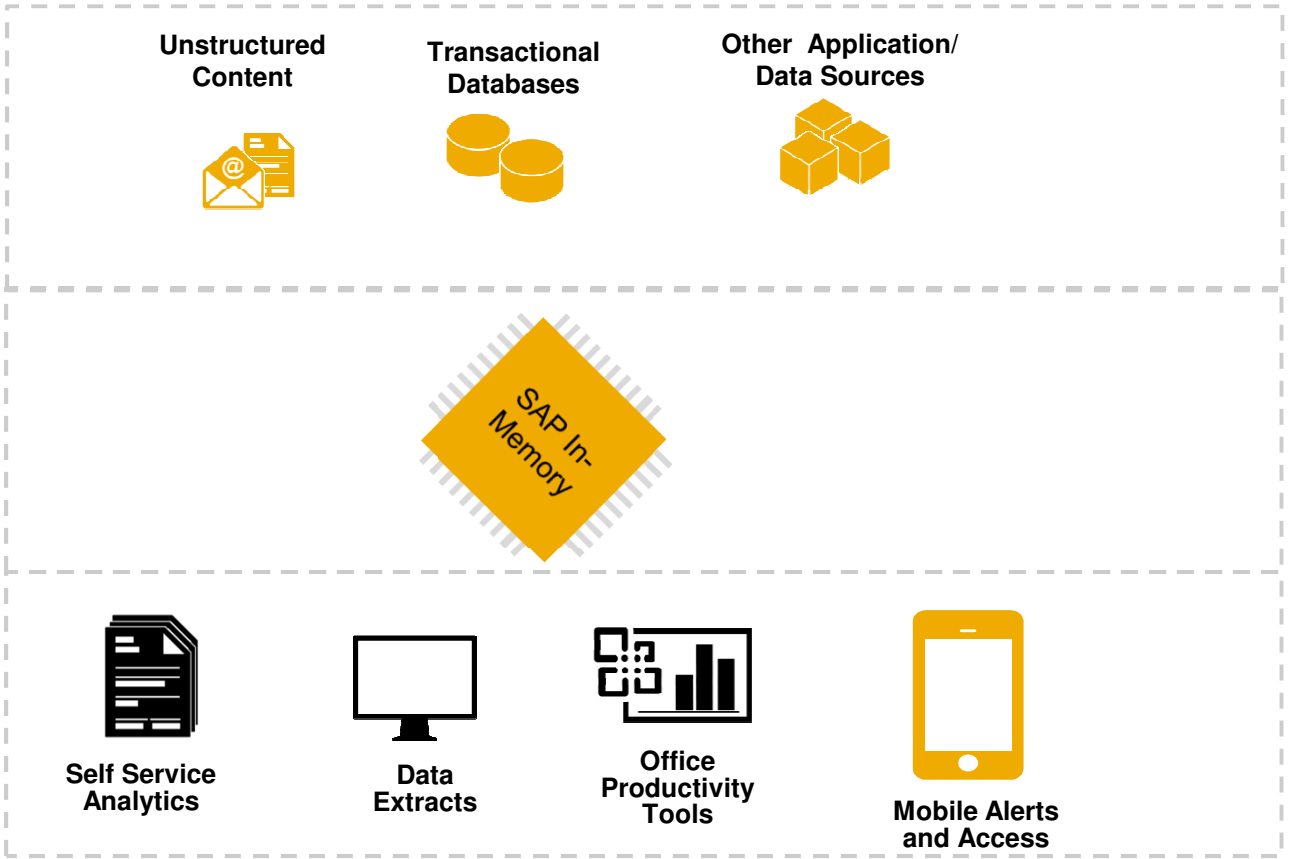
Our Approach



Identify all key data sources

Move to single enterprise source

Use the data

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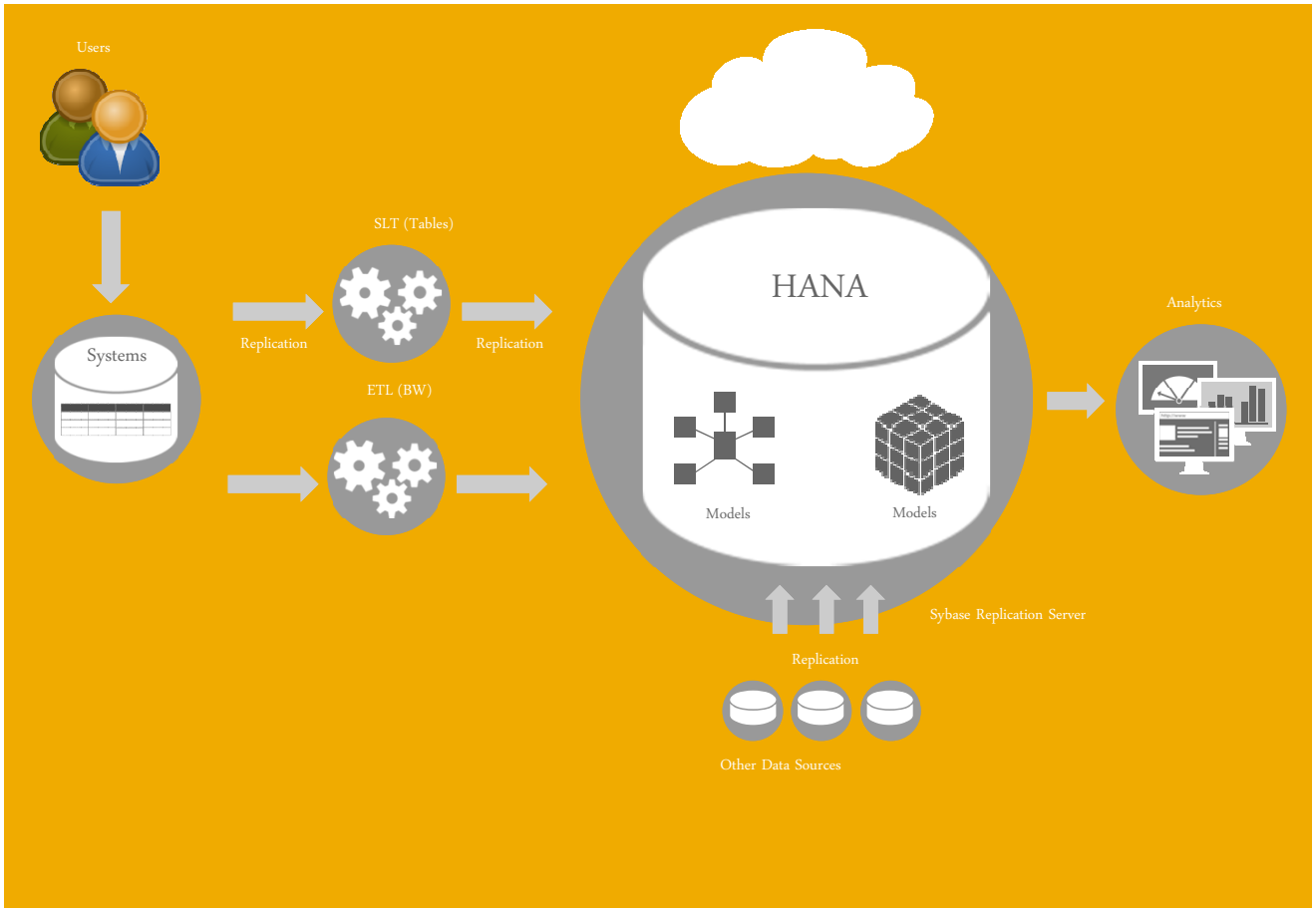
Enterprise Data Warehouse Strategy



Deliver real-time reporting & analysis on live data

Accelerate data warehouse performance

Eliminate unnecessary loading and transformations

Lower the time for analyzing data across a variety of sources

Reduce the volume of data that needs to be analyzed

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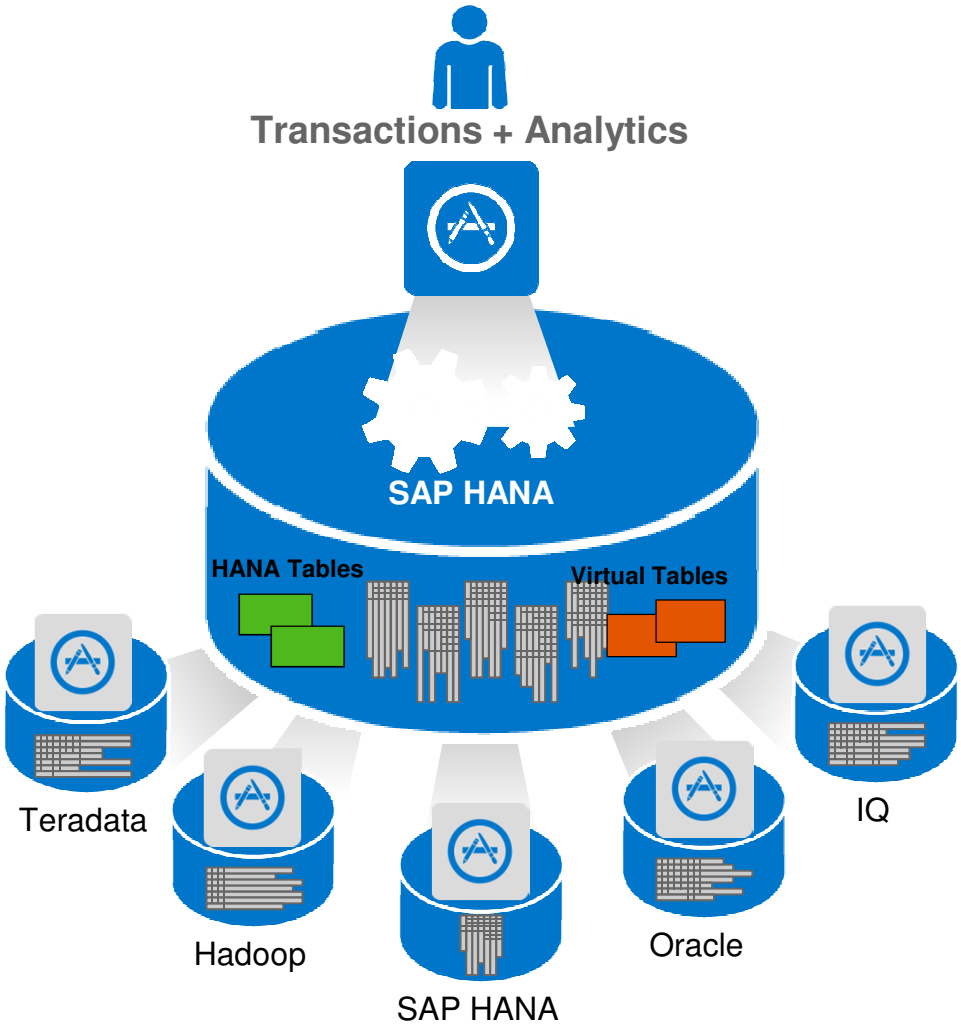
SAP HANA Smart Data Access – Unlimited Flexibility



Benefits

- Enables access to remote data access just like “local” table
- Smart query processing including query decomposition with predicate push-down, functional compensation
- Supports data location agnostic development
- No special syntax to access heterogeneous data sources

Heterogeneous data sources

- SAP HANA to Hadoop (Hive)
- HANA
- Teradata
- SAP Sybase IQ
- Oracle

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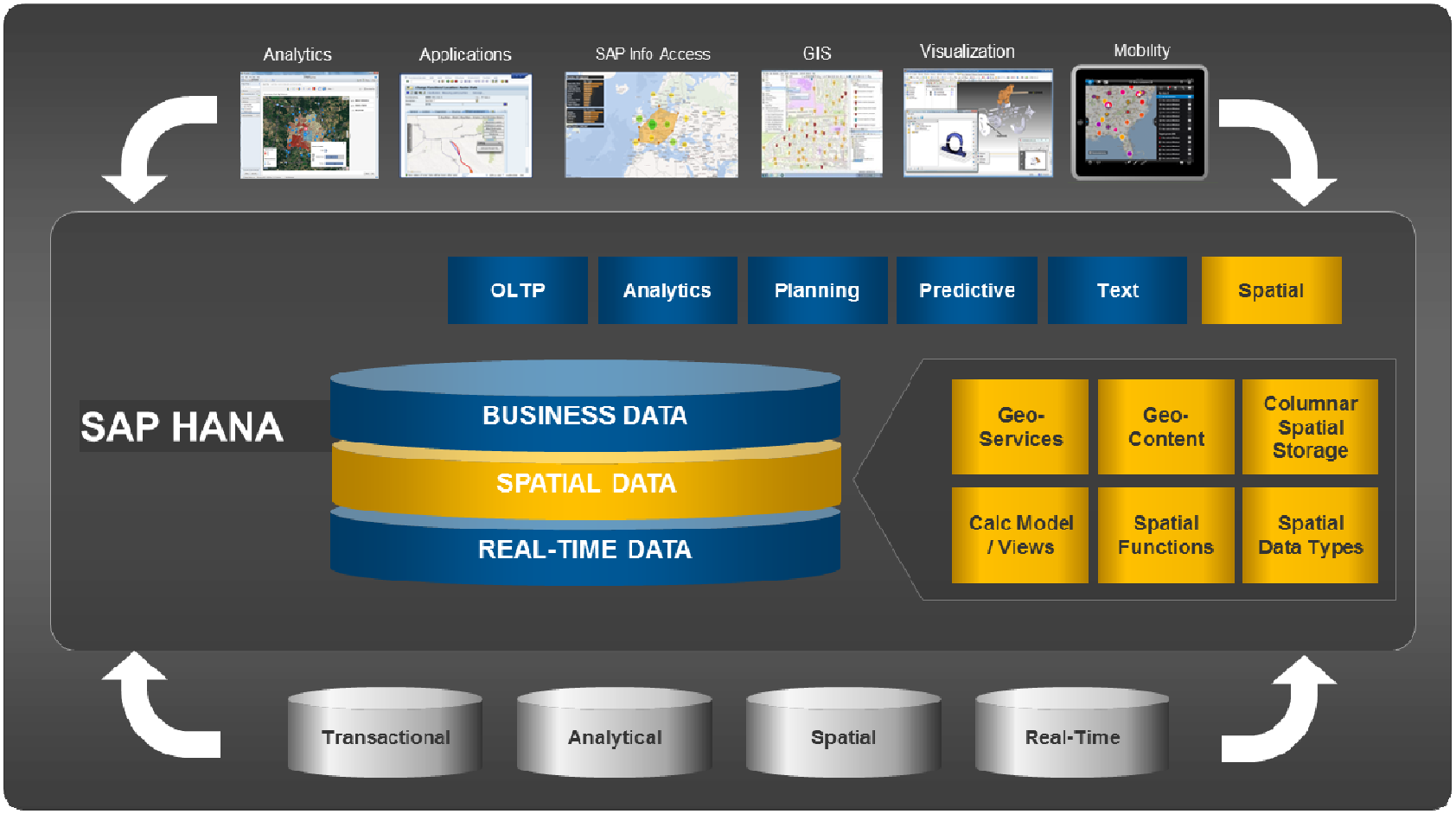
Spatial Processing with SAP HANA

Develop and deploy spatially-enabled analytics and applications



Real-time high-performance spatial processing

Unified modeling platform

Geo-application development platform

Combine spatial with business data

Geo-content and services

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The Big Data Express Coming to Washington, DC

Tuesday, March 18 from 11am – 2pm

- **Ronald Reagan Building, Washington, DC**

Wednesday, March 19 from 8:30am – 11:00am

- **Hoffman Building, Alexandria VA**

For details contact: margarita.castillo@sap.com

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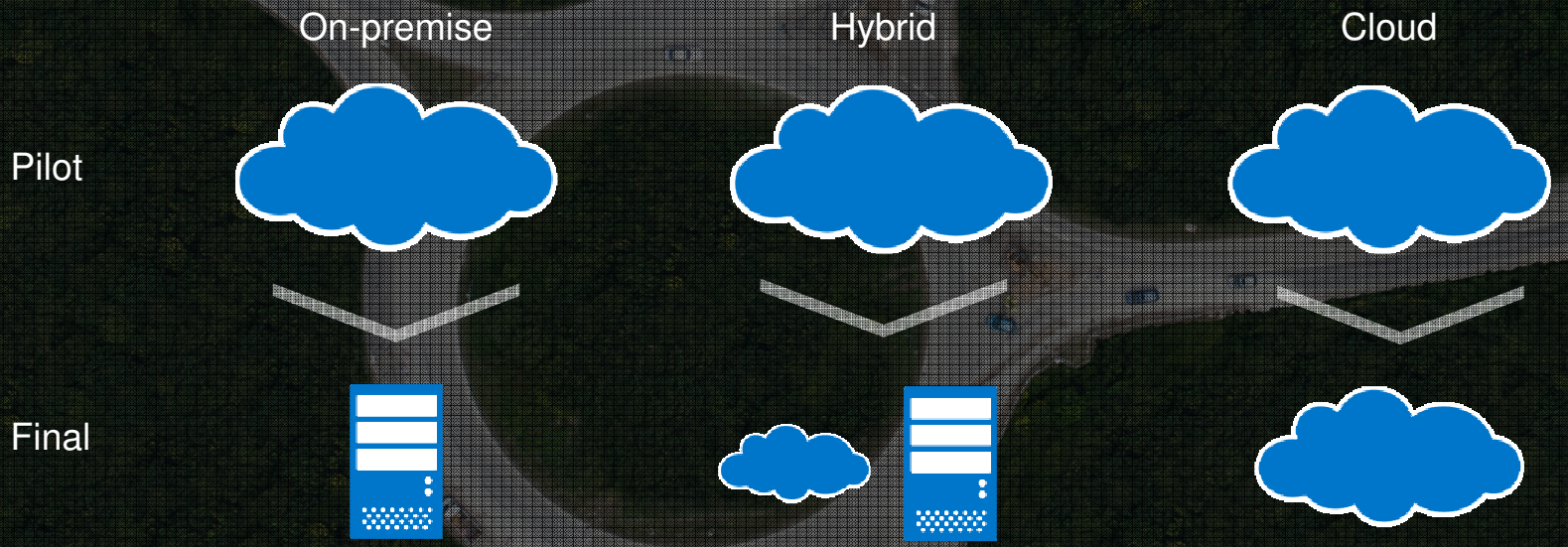
What's In It For Customers

- Experience Art of the Possible With Big Data
- Learn how SAP can help you harness the opportunity of Big Data
- Why Hadoop + HANA is the ideal technology strategy for Big Data
- Enjoy an unusual Big Data strategy session in the Big Data Express
- Test drive for yourself what other customers are doing with Big Data to innovate
- Hear from Big data experts and/or Data scientists
- Network and have fun

Choice of Deployment Scenario



Develop, Test, Deploy in Any Environment or in a Hybrid

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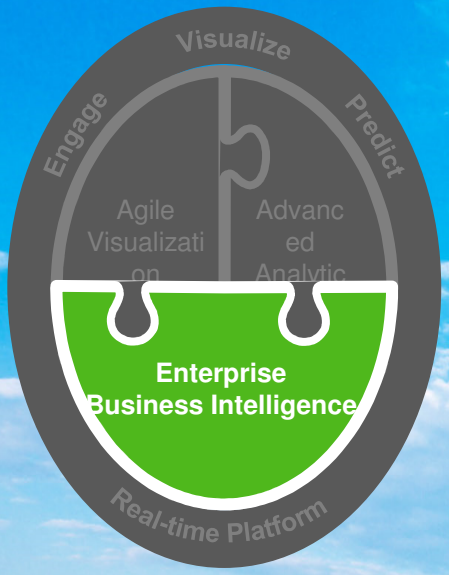
Business Objects 4.1

Enterprise Business Intelligence



> 1000 Customers on BI 4.1

> 8000 / 31% adoption on BI 4.x

Great Customer Feedback

FedEx: "in the 15-yrs I've worked with BOBJ -- 4.1 is the best code release ever"…

Cascades: "improvement in speed of the prompts in a Web Intelligence Report."

Arun District Council: "DeskI compatibility is exactly what we needed. It worked nicely"…

What analysts say

Forrester

- Forrester Wave Q4 2013
  http://www.forrester.com/pimages/rws/reprints/document/108103/oid/1-M6RP7E

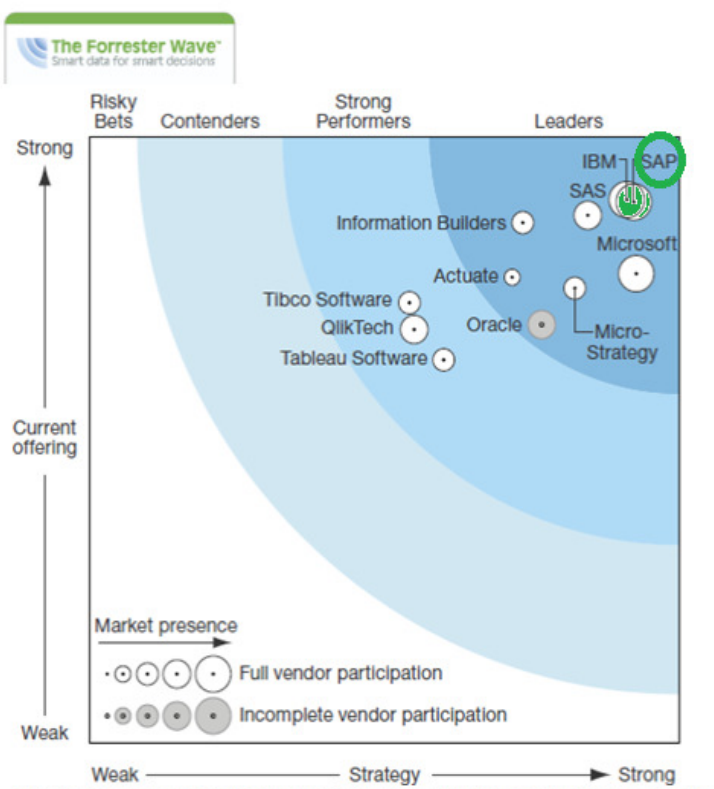


Figure 3 Forrester Wave™: Enterprise Business Intelligence Platforms, Q4 '13

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Did you know that in 4.1…?

- We connect to the most relational and OLAP data sources…ever
- Analysis for OLAP can connect to Teradata as an OLAP source
- ESRI has integrated ArcGIS with (Xcelsius) Dashboards
- Anyone can consume a universe (.unx) as an OData data source
- Partners are using the Design Studio SDK to create custom components and charts
- All BI content in the BI suite is mobilized
- The Promotion Management (CLI) allows you to promote over 100,000 objects
- You can automate .unx, WebI and CRE from traditional relational dbs to HANA
- Crystal Reports for Enterprise has a native MDX connection directly to HANA

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Will there be a 4.2?

In 2013, we released BI 4.1 which provides our customers with the foundation for Enterprise BI for years to come. For 2014, our focus is to continue optimizing BI 4.1 and delivering incremental innovations on this foundation ***without disruption****. Throughout 2014, we plan a series of Support Packs to BI 4.1 which will allow us to continue delivering new platform support and enhancements to our customers that are* ***easy to adopt****. We have many great innovations planned across our BI Suite including new releases of Lumira, Design Studio, Mobile, Web Intelligence and Analysis for Office.*

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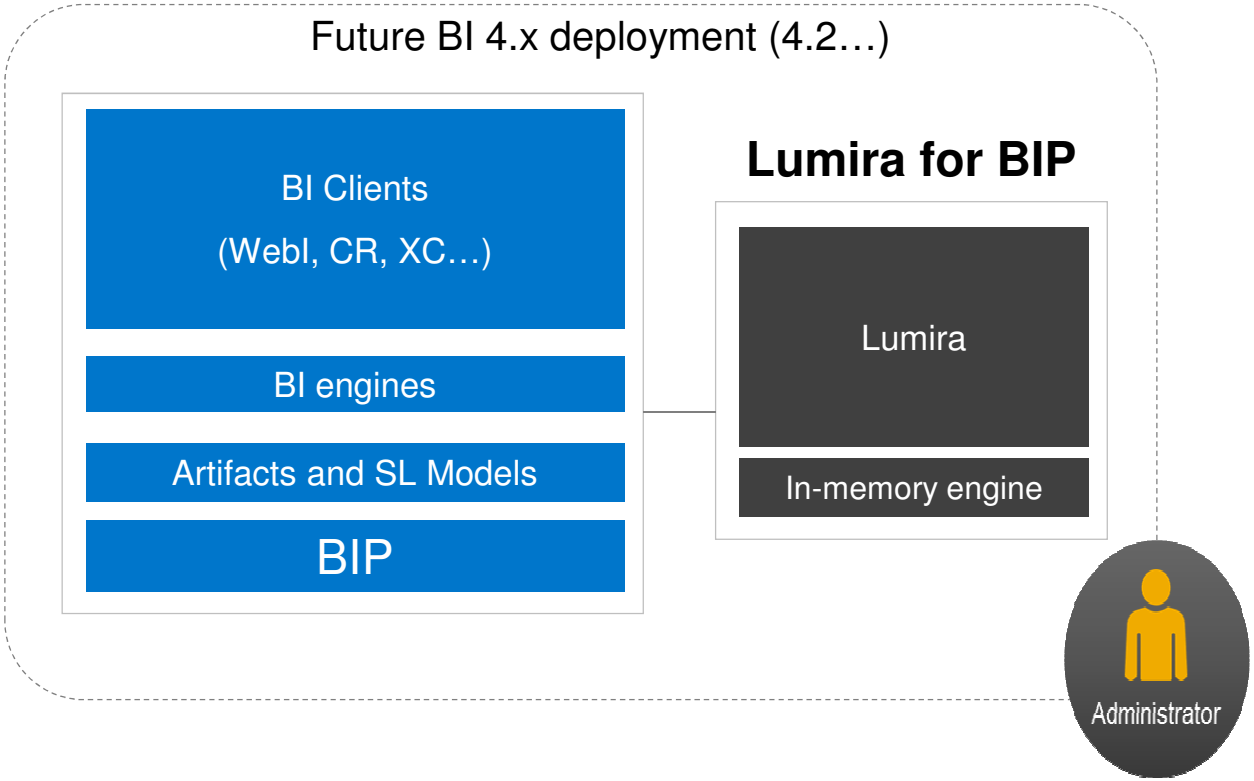
Bringing Lumira (and HANA) to BIP customers



Goals:

Provide existing BI4 customers a way to adopt the new functionality and simplified client portfolio without abandoning their recent investment in BI4. Upgrade from BI 4.1 to BI 4.x should add the required node (with the required HANA technologies) to the BI 4.x system landscape. Most platform functions still managed by BIP.

Lay foundation for customers to eventually move to the new HANA based platform

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Lumira

Enable Analysts to quickly create stories

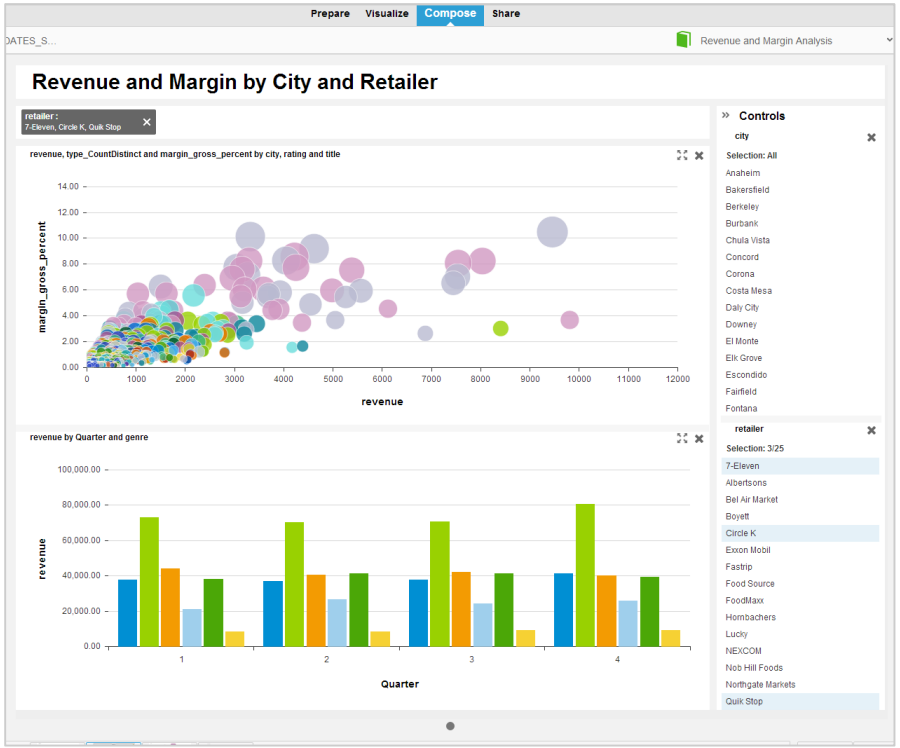
- Drag and drop visualizations from a gallery to create boards
- No need for coding or scripting
- Self Service with NO IT support needed

Making stories even more compelling

- Add images and text to convey your results
- Simple customizations to style and brand

Integration with Existing Business Objects Infrastructure

- Connects to Universe
- H2 – Save to BOE



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What's new: data sources

Support for new sources

New non-relational sources

- oData
- XML and web services (SOAP)

New relational sources

- Teradata 14
  - SSO for Teradata
- Oracle Exadata
- SQL Server 2012
- DB2 10 for zOS via JDBC, DB2 for zOS 10.1, DB2 LUW 10 & 10.1, DB2 for i v7.1
- Sybase ASE 15.7
  - SSO for Sybase IQ
- Oracle via ODBC (in addition to OCI and JDBC)
- Hive sur Amazon EMR
- PostgreSQL 9
- Greenplum 4.1 & 4.**2**

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oData Support

SAP is part of the group that created the oData standard

- Along with MSFT and IBM
- Open data protocol = a Web protocol for querying and updating data

There are 2 sides to oData

- oData consumption: access an oData compliant data source
- oData provisioning: expose a data stream as oData

oData roadmap for DSL

- oData consumption: available in 4.1
- oData provisioning: will be supported in 4.1 SP1, in the SL consumption SDK

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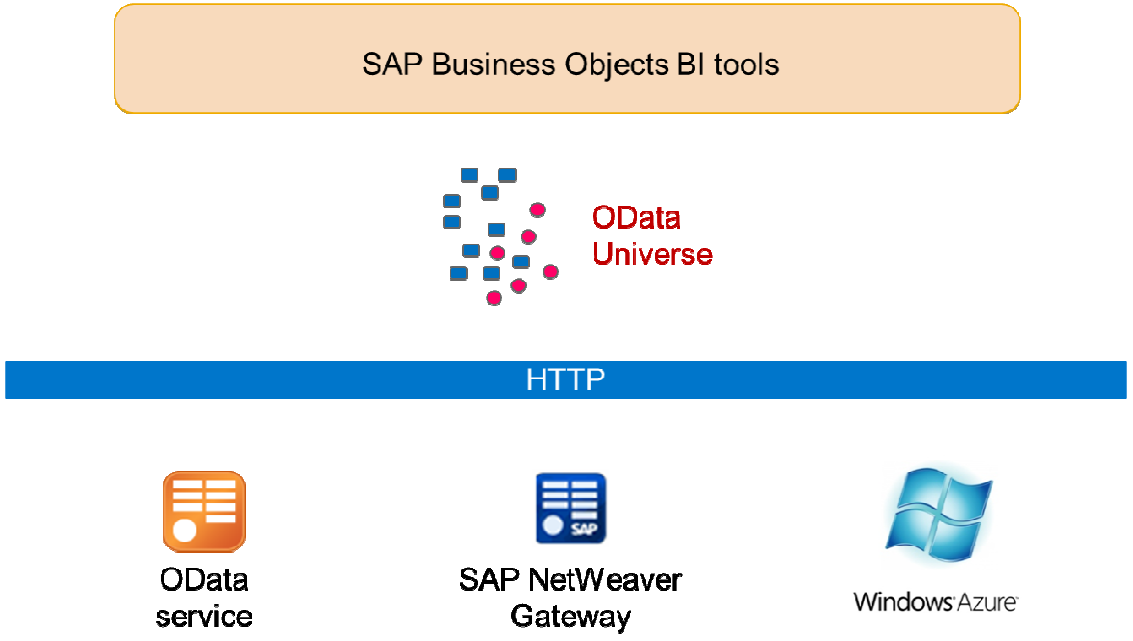
oData consumption in BI 4.1 - a new connectivity

The oData connection is defined in the information design tool

The designer can author a UNX universe against an oData service

The oData access is available to client tools supporting UNX universes

- Crystal Report Enterprise
- Web Intelligence
- Dashboard
- Explorer
- Mobi



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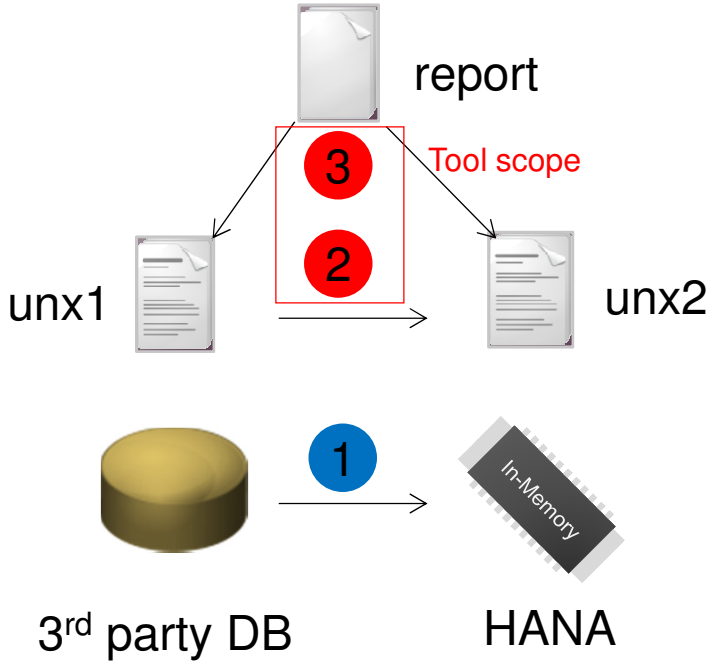
SAP HANA :Universe landscape migration

Objectives

- Move universes from 3rd party DB to HANA
- Automate process as much as possible

Migration steps

- Manual
  - Move 3rd party DB tables and views to HANA
- Automated
  - Migrate existing universe and security restrictions
  - Point existing reports to the new universe
  - Check differences in reports



Supported source databases

Oracle
MSSQL Server
Teradata
Sybase ASE

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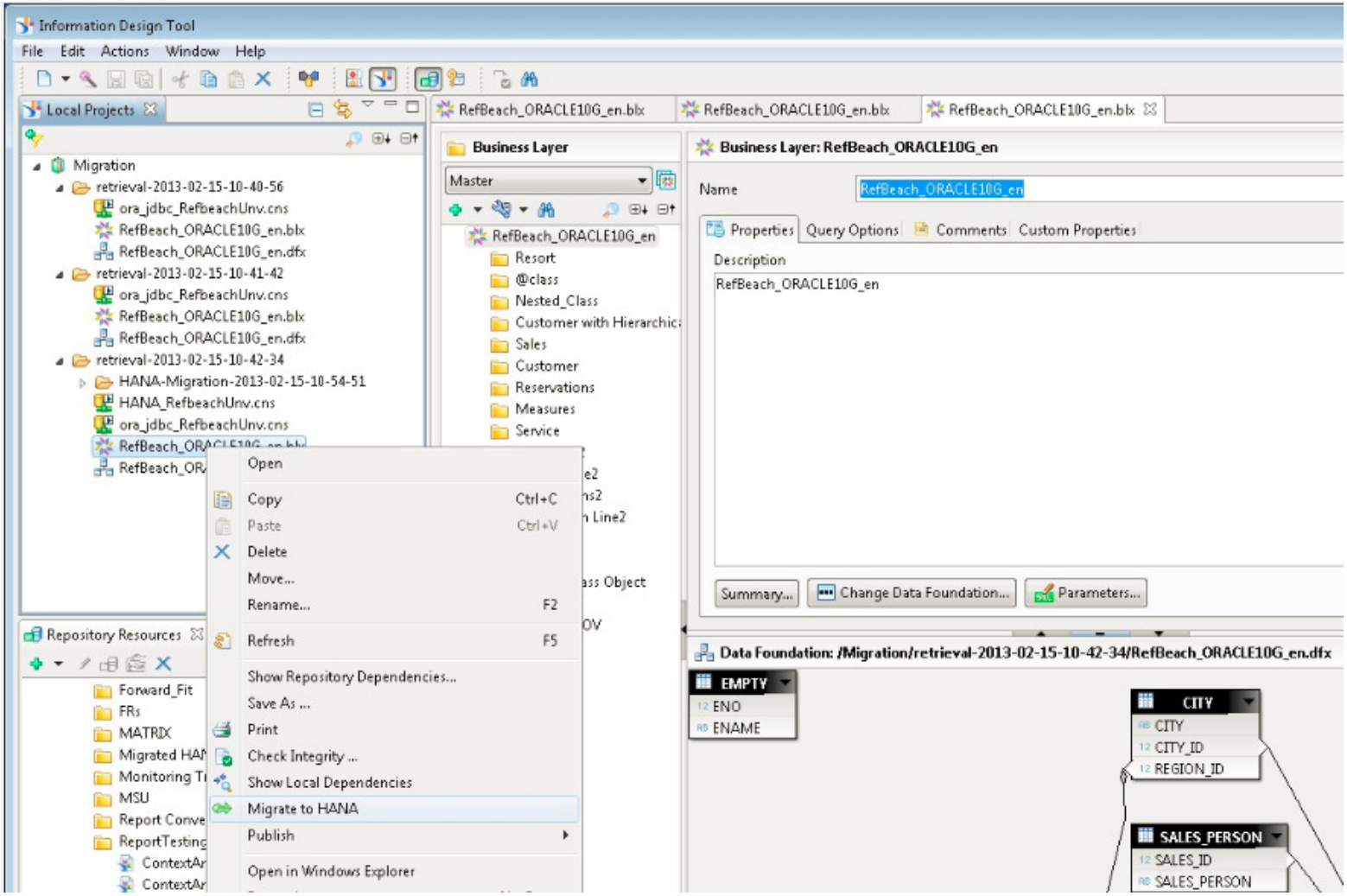
Launching universe landscape migration in IDT



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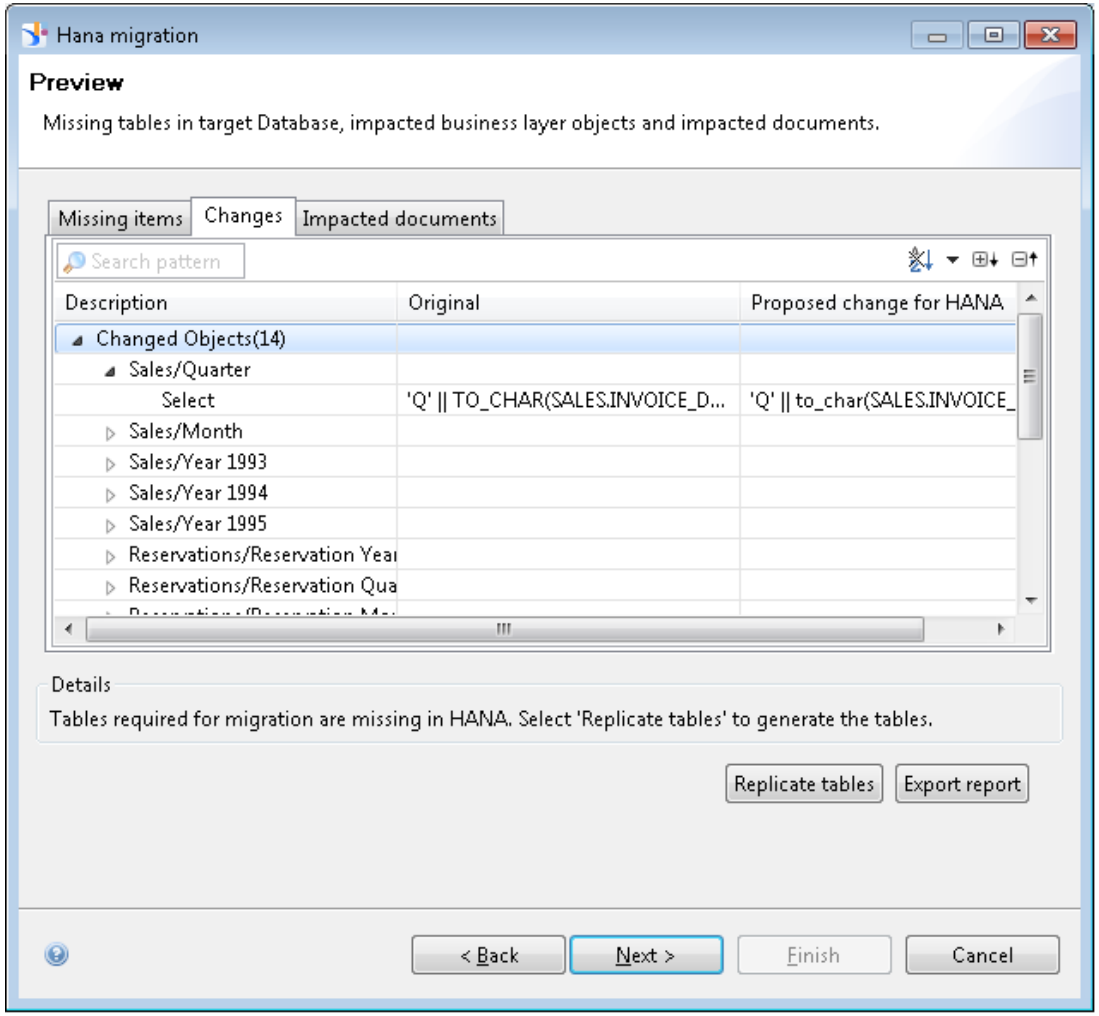
Universe migration to HANA



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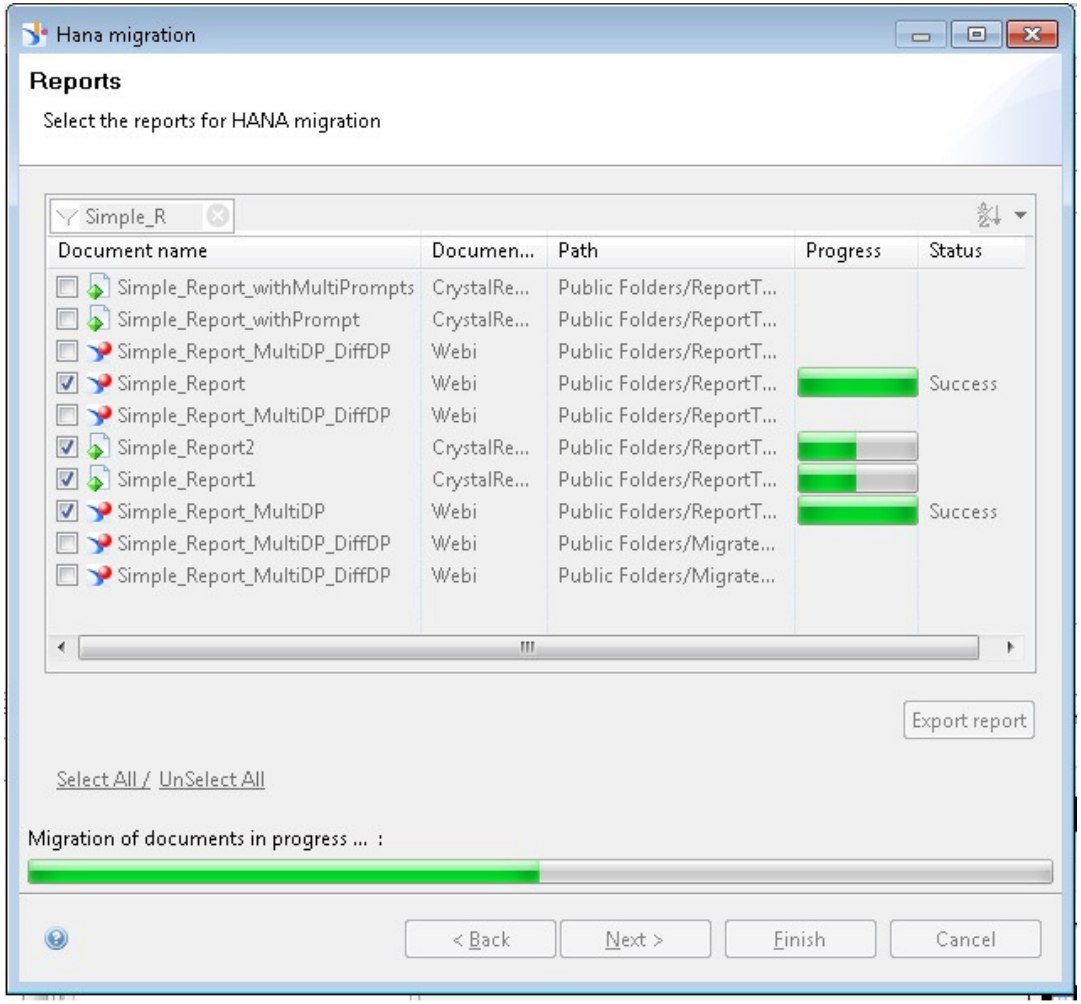
Migration of BI documents to HANA landscape



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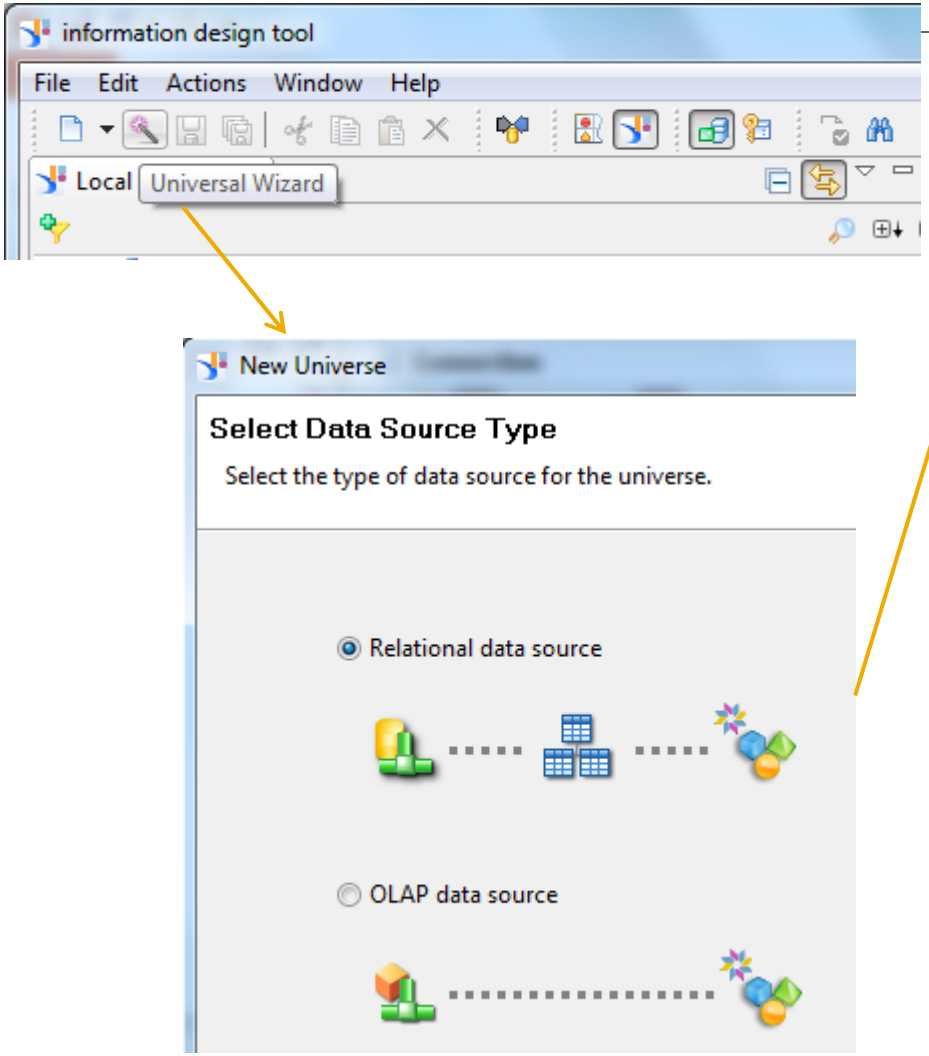
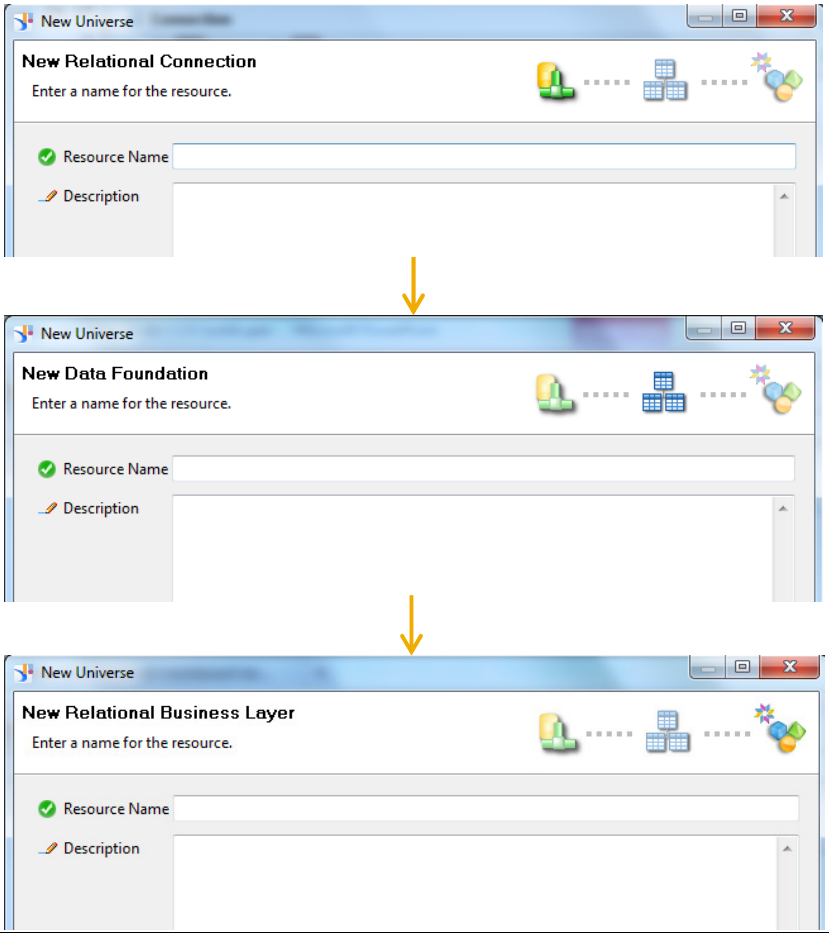
A Wizard to Create Universes



The new *Universe Wizard* helps you create your first universe in 5 minutes!



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Thank You