



**TANGO**

# **SAP BI Tools and Roadmap**

**New Zealand SAP User Group  
16<sup>th</sup> June 2016**

# Agenda

- **Introduction**
- **Convergence of Platforms & Tools**
- **Platform - Deployment Options**
- **Capabilities**
- **Our Recommendation**
- **Q&A**

# SAP BI Tools & Roadmap

2006



2016



## Modern Data Warehouse Architecture – Mixed Scenario

### Components in Detail

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#### Repository

- Metadata management, modeling environment, transports, versioning

#### Acquisition Layer

- Source system connectivity, landing area, real-time replication and ETL / ELT scenarios

#### Data Warehousing

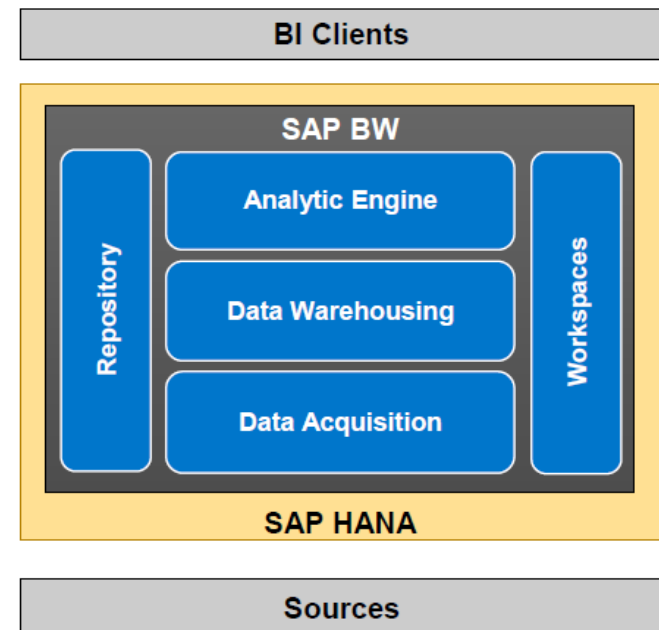
- Transformation, data lifecycle management, master data management, scheduling and monitoring

#### Analytic Engine

























































































































- Planning engine, reporting engine, rich set of predefined analytic functions

#### BW Workspaces



































































- Self service data upload, agile modeling



# Platforms & Tools – Current State

| Application   | Capabilities  |  |   |   |   |   |   |   |   |
|---|---|--|---|---|---|---|---|---|---|
|  Meets Capability<br> Limited Capability<br> Does Meet Capability | Formatted Reporting   | Dynamic Layouts  | Self Service  | Hierarchical Capabilities   | Visualisation   | Product Interoperability  | Mobility  | Multi Source  | Drilldown   |
| BEX Web Analyser  |    |    |    |    |    |    |    |    |    |
| BEX Analyzer (Excel Ad-in)  |    |    |    |    |    |    |    |    |    |
| BEX Report Designer   |    |    |    |    |    |    |    |    |    |
| BEX Web Application Designer  |    |    |    |    |    |    |    |    |    |
| SBOP - WEBI   |    |    |    |    |    |    |    |    |    |
| SBOP- Crystal   |    |    |    |    |    |    |    |    |    |
| SBOP – Xcelcius / Dashboard Designer  |    |    |    |    |    |    |    |    |    |
| SBOP – Analysis for Office  |   |   |   |   |   |   |   |   |   |
| SBOP – Analysis for OLAP  |  |  |  |  |  |  |  |  |  |
| SBOP - Design Studio  |  |  |  |  |  |  |  |  |  |
| Predictive Analytics  |  |  |  |  |  |  |  |  |  |
| Lumira  |  |  |  |  |  |  |  |  |  |
| SAP Fiori   |  |  |  |  |  |  |  |  |  |

# Platforms & Tools – Future State

| Application   | Capabilities  |  |   |   |   |   |   |   |   |
|---|---|--|---|---|---|---|---|---|---|
|  Meets Capability<br> Limited Capability<br> Does Meet Capability | Formatted Reporting   | Dynamic Layouts  | Self Service  | Hierarchical Capabilities   | Visualisation   | Product Interoperability  | Mobility  | Single/Multi Source   | Drilldown   |
| SBOP - WEBI   |    |    |    |    |    |    |    |    |    |
| SBOP - Crystal  |    |    |    |    |    |    |    |    |    |
| SBOP - Design Studio  |    |    |    |    |    |    |    |    |    |
| SBOP - Analysis for Office  |    |    |    |    |    |    |    |    |    |
| Predictive Analytics  |    |    |    |    |    |    |    |    |    |
| Lumira  |    |    |    |    |    |    |    |    |    |
| SAP Fiori   |  |  |  |  |  |  |  |  |  |

Note: Query Designer is not a front-end tool. It is simply used for modelling data for reporting use. It is being replaced by Eclipse based Query Designer for BW.

# Platforms & Tools - Data Source Capability

| <i>Environment</i>         | <i>Tools</i>   |
|----------------------------|--|
| BW on Traditional Database | BEX, Crystal, Webi, Lumira, Fiori, Predictive  |
| BW on HANA Appliance       | Crystal, Webi, Lumira, Analysis for Office, Design Studio, Fiori, Predictive, Workspaces |
| Native HANA                | Crystal, Webi, Lumira, Analysis for Office, Design Studio, Fiori, Predictive, Workspaces |
| SAP ECC/S4 HANA            | Crystal, Webi, Lumira, Fiori, Predictive   |
| Non-SAP                    | Crystal, Webi, Lumira, Analysis for Office, Design Studio, Predictive                    |

# Platform - Deployment Options

| <i>Deployment Option</i>              | <i>Pro's</i>   | <i>Con's</i>  |
|---------------------------------------|--|---|
| <i>Public Cloud (Any DB)</i>          | <ul style="list-style-type: none"> <li>- Easily Scalable</li> <li>- Possibly lower TCO</li> <li>- Options for SaaS cost model</li> </ul>   | <ul style="list-style-type: none"> <li>- No control over data centre availability and pre-defined maintenance schedule</li> <li>- Possible Network Latency issues</li> </ul>  |
| <i>Partner Private Cloud (Any DB)</i> | <ul style="list-style-type: none"> <li>- Easily Scalable</li> <li>- Possibly lower TCO</li> <li>- Options for SaaS cost model</li> <li>- Full control over data centre availability and maintenance schedule</li> </ul>  | <ul style="list-style-type: none"> <li>- Possible Network Latency issues</li> </ul>   |
| <i>On Premise (Any DB)</i>            | <ul style="list-style-type: none"> <li>- Full control over maintenance outages</li> <li>- Minimal Latency</li> </ul>   | <ul style="list-style-type: none"> <li>- Lower short term scalability</li> <li>- Support and Maintenance is Customer responsibility</li> </ul>  |
| <i>Multi Tenant (SAP HANA)</i>        | <ul style="list-style-type: none"> <li>- Maximises value from HANA appliance</li> <li>- Provides full real time reporting capabilities</li> <li>- Single DB to maintain</li> <li>- Full control over maintenance outages</li> <li>- Minimal Latency</li> </ul>   | <ul style="list-style-type: none"> <li>- Requires large HANA appliance with related data volume licencing costs</li> <li>- ERP must be migrated into HANA DB so S4</li> <li>- Support and Maintenance is Customer responsibility</li> <li>- Lower short term scalability</li> </ul>         |
| <i>SAP HANA (Sidecar)</i>             | <ul style="list-style-type: none"> <li>- Quick and relatively low risk to implement</li> <li>- Releases HANA performance benefits for BI and allows acceleration of selected ECC ABAP operational reporting</li> <li>- Provides real time reporting capabilities through the use of SAP SLT Functionality</li> </ul> | <ul style="list-style-type: none"> <li>- May require subsequent migration of BW to Multi Tenant landscape when ECC migrates to HANA</li> <li>- Support and Maintenance is Customer responsibility</li> <li>- Lower short term scalability</li> <li>- Requires SAP HANA licencing</li> </ul> |



# Different User Needs

How do I turn data into pixel-perfect formatted reports for greater insight?

How do I visualize key performance indicators for better decision making?

How do I answer ad hoc questions and interact with shared information?

How do I uncover trends from historical data and make possible better forecasts?

How do I find immediate answers to business questions?

# Capability - Agile Visualization

Discover. Predict. Create.

## Agility for business analysts and business users

- Discover trends, outliers and areas of interest in your business
- Adapt to business scenarios by combining, manipulating, and enriching data
- Tell your story with self-service visualizations and analytics
- Forecast and predict future outcomes

## Portfolio

- Lumira
- Explorer\*
- Analysis\*
- Predictive Analysis\* \*\*



\* SAP BusinessObjects Explorer; SAP BusinessObjects Analysis; SAP Predictive Analysis \*\*Predictive Analysis details are part of Advanced Analytics

# Capability - Dashboards and Apps

## Build engaging, visual dashboards

- Powerful environment to build interactive and visually appealing analytics
- Rich set of controls: buttons, list boxes, drop-down, crosstabs, charts...
- Use custom code to extend and build workflows

## Portfolio

- Design Studio\*
- Dashboards (aka Xcelsius)\*



\* SAP BusinessObjects Design Studio; SAP BusinessObjects Dashboards

Note: Design studio is recommended for HANA and BW customers currently using WAD

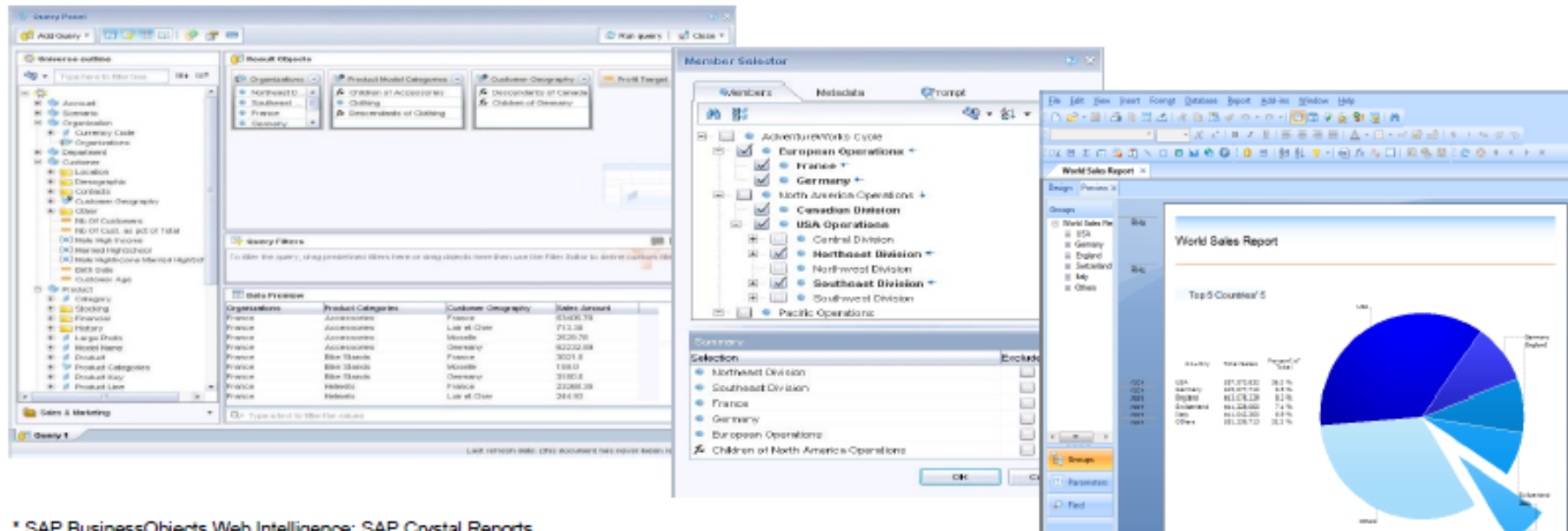
# Capability - Reporting

## High productivity design for report designers

- Quickly build formatted reports on any data source
- Securely distribute reports both internally and externally
- Minimize IT support costs by empowering end users to easily create and modify their own reports
- Enhance custom applications with embedded reports

## Portfolio

- Web Intelligence\*
- Crystal Reports\*



\* SAP BusinessObjects Web Intelligence; SAP Crystal Reports

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How do I find immediate answers to business questions?





# Our Recommendation

Follow a formal process to identify the correct tool for your needs and take into account the following key factors:

- You need to consider who your users are
- Your strategy should start with your business user needs and not with EDW requirements
- Aim to drive consistency in the look and feel of the tools to ensure user adoption and ultimately a simpler architecture
- Business Objects - Design Studio and Lumira meet most needs
- Design Studio also has a NetWeaver version for BW
- WEBI is a good tool for formatted portal delivered reporting
- Only consider Fiori for reporting if it is also going to be used for other purposes
- Use BW Workspaces to combine external data via self-service with your existing BW data sets

