# SAP Analytics Cloud Special Interest Group Session SBN Conference, 23.10.2019



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Agenda





- Data Connectivity
- Implementation Status
- Test Approach and Timeline
- Findings during testing
- Potential Use Cases for SAP Analytics Cloud
- Dashboard Examples



Our objective is to enable SAP Analytics Cloud as a self-service analytics tool and make this the preferred visualization tool in F&C (and other areas)

- Enable visualization and <u>digital value creation</u> through self service analytics
- Create stories based on <u>Equinor's Financial Model</u> and standards
- <u>Consistent and trusted data</u> Access to live data and updated metadata (hierarchies)
- <u>Security</u> Reuse the role concept in BW. No security breaches with data being available for unauthorized personnel
- <u>Governance</u> Establish practice and standard templates available for use
- <u>Flexible, yet scalable</u> Possibility to blend BW live data with imported data
- <u>Get insight</u> Use Smart Insights and Smart Discovery features to get more insight to our data







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# One | Simple | Cloud



#### Data sources



#### Data sources

#### Live

#### Cloud data sources

SAP Cloud	Platform <sup>1</sup>	SAP S/4HA	NA Cloud	SAP Marketin	ng Cloud	SAP Ariba
SAP Succe	essFactors					
SAP data	a source	es				
SAP HANA	SAP B	N SAP B	W4/HANA	SAP S/4HAN	A	
SAP BPC E	mbedded	SAP Busin	nessObjects	Universe		
Access v	ia SDI f	or SAP C		atform & S	AP HAI	NA <sup>2</sup>
Apache Hiv	e AWS	SAP Vora	a SAP :	Sybase ASE, IQ	, ESP	OData
Microsoft SQL Server		Spark SC	QL Orac	le Teradata	MaxD	3
IBM DB2	MySQL	Netezza	Facebook	Google+	Twitter	

#### Partner delivered

APOS	DB2	Deno	do I	Microsoft Analysis Services				Microsoft Azure		
Microsoft	SQL Serve	r Mo	ngoDB	MongoDI	B Atlas	MySQL		Netezza		
Oracle	cle Oracle Essbase (			e Exadata	SAP IQ		SAP SQL Anywhere			
Redshift	Terada	ita G	Google Big	gQuery	Cloudera	ŀ	Hortonworks			
Amaz	on S3									

Delivered Planned within the next 6 months Partners

1. Requires SAP Cloud Platform DBaaS license

2. SAP Cloud Platform connects to data using Smart Data Integration and Smart Data Access Adapters

3. This does not require the BI platform

#### Import

#### Cloud data sources

SAP Hybris Cloud for Customer SAP Cloud Pl			Platform	form <sup>1</sup> SAP Business ByDesign			SAP S/4HANA Cloud				
SAP Marketing Cloud SAP SuccessFa			cessFacto	ors S	SAP Fieldglass	s SAP V	SAP Workforce Ar		Concur		
Google BigQuery Google Drive Googl				Sheets	Sheets Salesforce OData Do			w Jones DN/	A		
3 <sup>rd</sup> party Cloud Stora	ge 3rd	<sup>i</sup> party C	CRM								
SAP data sources											
SAP BPC NW & MS	SAP E	00	SAP Busines	sObjects Un	iverse	SAP BW					
SAP S/4HANA SAP BW4/HANA											
Other data sources											
IBM Microsoft S	QL Server	M	IySQL	Netezza	OData	Oracle					
CSV Excel Progress OpenEdge Same data sources as SAP BI 4.2 <sup>3</sup>											
Partner delivered											
APOS CDATA					DataDirect Cloud						
Web Intelligence	QuickBo	oks		eloqu	а						
	Microsoft SharePoint				Google Analytics						
	NetSuite CRM & ERP				Microsoft Dynamics CRM						
	Oracle Marketing Cloud			Hubspot							
	MongoD	В		Marke	eto						
				Suga	rCRM						

This is the current state of planning and may be changed by SAP at any time.



## Potential use of SAP Analytics Cloud in Equinor



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## Implementation Status



# **Finished Tasks**

- Set-up SAP Analytics Cloud tenant with SSO
- Set-up connection to BW with SSO (PO4 / QO4)
- Initial roles defined
- Initial team/folder structure defined
- Implemented back-end notes for BW live connection (> 200)
- Set-up dynamic user creation & team assignment
- Security assessment for live connections and iOS app finalized
- Security assessment for import of data

# Ongoing Tasks &/or issues

- Prepare for SP16 upgrade (VR02.2020). Upgrade in Sandbox first.
- Set-up of Analytics app (iOS) with SSO to BW
- Enable data blending in SAC
  - BW Live model to BW Live model
  - BW Live model with imported data
- Explore Analytics Designer for building SAC applications/Enterprise Dashboards
- Set-up architecture for data import scenarios
- Set-up connection to S4/HANA (TRP system)



# Info: Link between Upgrades in SAC and BW 7.5

SAC is upgraded with new versions every 14 day (fast track), every quarter (normal track) Some required new notes and components in back-end



#### SAP Note 2541557 - Support further SAP Analytics Cloud BW features

Implement and run ABAP report Z\_SAP\_BW\_NOTE\_ANALYZER to check for new support notes and new functionality notes released back-end (up to SP16)

#### SAP Note 2511489 - Troubleshooting performance issues in SAP Analytics Cloud

Best practice on how to build queries and optimize performance in SAC

#### SAP Note 2715871 - BW - SAP Analytics Cloud remote blending

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## **Test Participants**

- Test phase: 30 Concurrent licences (approximately 50 users registered now)
- Test participants representing different functions and business areas





## Test Approach – Timeline





# Findings during testing

- Overall, very good performance when working with BW Live Data. Also when building stories with multiple data sources.
- Easy to set up linked dimensions between charts and models.
- Not all existing BW queries works as expected. Some issues with structures, default variable settings and hierarchies. Might be a need to rebuild some of our queries.
- Stories with responsive pages can be hard to work with

# **Known Limitations**

- Smart Discovery and Smart Insights features are currently not supported for BW Live Data
- BW Queries with Structures are supported but there are some limitations. (Data mode not supported, sorting of measures is not supported with structures)
- Variance charts with time dimension currently not supported for BW Live data. Hopefully solved by SP16. Variance for measure-to-measure is supported.
- Chart, table, and filter widgets do not support sorting based on the Time data

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### **Test Status**

Must have

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# Status • Default values in queries working as expected • Linked Analysis for all dimensions Data blending between live & live and live and imported Calculations (live features), including restricted measure • Variance (with time for **SP16**) in charts and tables • Variance (measure to measure) in charts and tables • Input control on pages and charts/tables • Filters (selection and exclude) Search features in filters (in dimensions) Mobile access and performance on mobile solutions • Hierarchies (1 issue with time-dependent org. hierarchy) Better use of time dimension with filters (SP16)

- Threshold values (for conditional formatting) .
- BW / BPC Import scenario ٠

### Status Nice to have Undo/back-button • Search to insight (indexing of models) • Geo charts (live-data) (SP16) • Range filters for measures • Restricted measures (based on calculations) (SP16)

### Potential use cases for SAP Analytics Cloud





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# SAP Analytics Cloud Special Interest Group

#### Mandate:

Promote learning and share experiences on implementation and use of SAP Analytics Cloud



#### SUGGESTED TOPICS

- SAC Implementations Lessons learned ٠
- Data Connectivity / Data Integration ٠
- Design Thinking / Story Building ٠
- Analytics Designer •
- Planning ٠
- Value Driver Tree / What-If Simulations
- SMART Augmented Analytics •
- Predictive Scenarios •
- SAC Mobile App
- Analytics Hub ٠



#### WHO

All members in SBN, SAP customers and partners who are interested to learn more about SAP Analytics Cloud



#### ORGANIZATION

Driven by the members. SBN will participate as facilitator and coordinator



#### HOW

Face-to-face meetings, Webinars, Videoconferences, Skype, Go-to-Meetings



#### WHEN / WHERE

Quarterly Meetings, visits hosted by members



#### CONTACT

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