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VELUX®



Data Modernization leveraging SAP BW/4HANA at Velux

SBN Conference, 22nd of October 2020



**MAKING AN
IMPACT THAT
MATTERS**
since 1845

Welcome to this presentation!

Data Modernization leveraging SAP BW/4HANA at Velux



Agenda

- 1 | Background
- 2 | BI and data landscape modernization
- 3 | Key takeaways
- 4 | Q & A



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VELUX

THE VELUX VISION

To lead the development of **better living environments** with daylight and fresh air through the roof, and to be rated as the best in the eyes of our customers.



COMPANY FACTS

VELUX®

Company facts

The VELUX Group is owned by VKR Holding A/S, a limited company wholly owned by the foundations and family.

The VELUX Group's financial results are incorporated into VKR Holding's consolidated accounts.

40

sales companies around the world

27

production sites in 10 countries

11,500

employees globally

2018 numbers (EUR)

2.6bn

VKR Holding revenue

240m

VKR Holding net profit

Modernization Journey – Not just technical!



Modernized Data Landscape

- Agility, Simplicity and Flexibility
- Centralised data governance
- Reducing time to market



Data & Analytics Board

- Managing demand
- Business case driven
- Strategy direction



Train and Deploy

- Developing capabilities
- Tool and talent governance
- Creating data awareness



Facilitate Collaboration

- Business partnering with IT, vendors, experts etc.
- With Business Owners

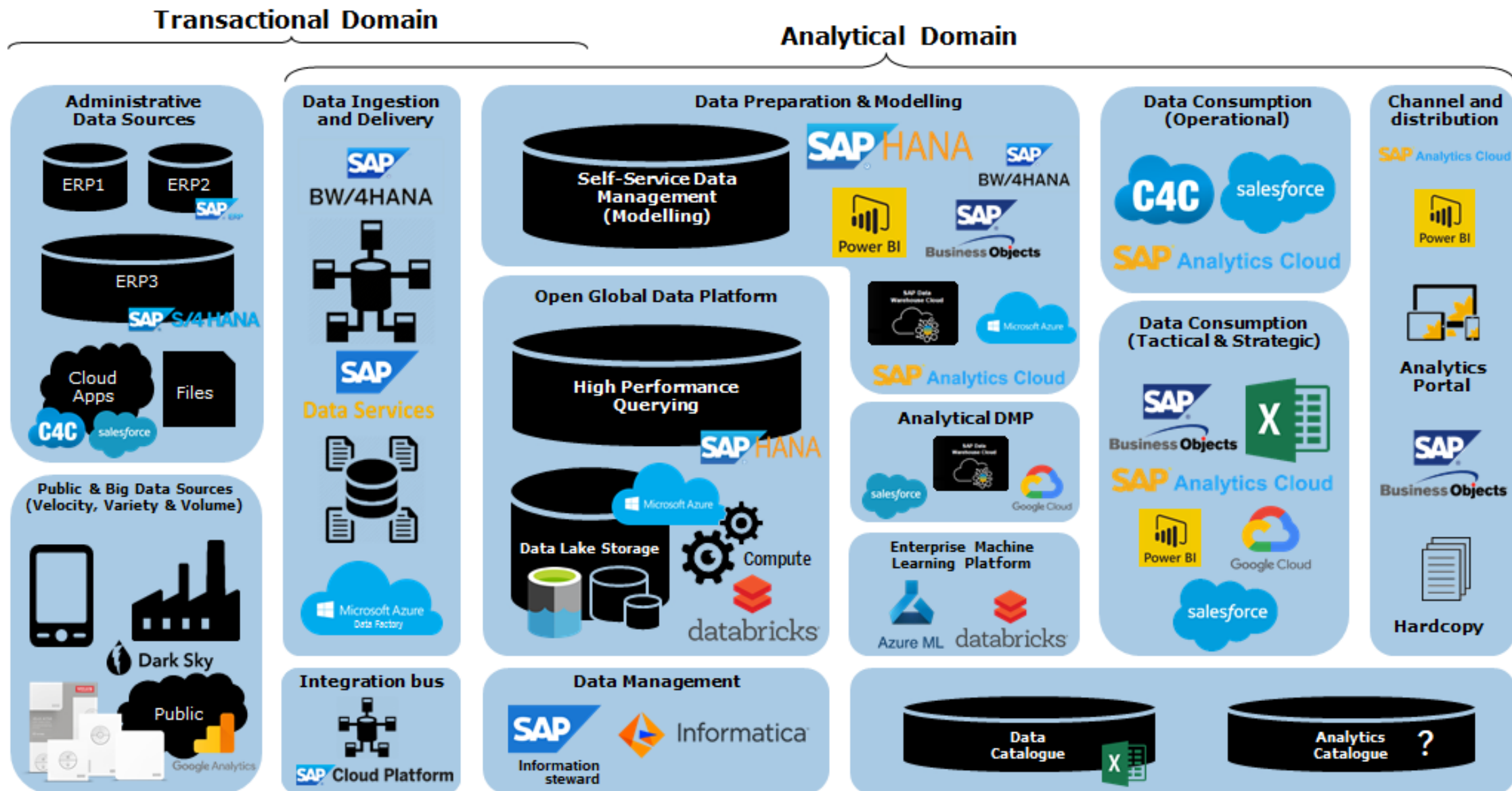
With the Vision to bring
Data & Analytics further
into key decision streams
in VELUX - Locally and
Globally

BI and data landscape modernization

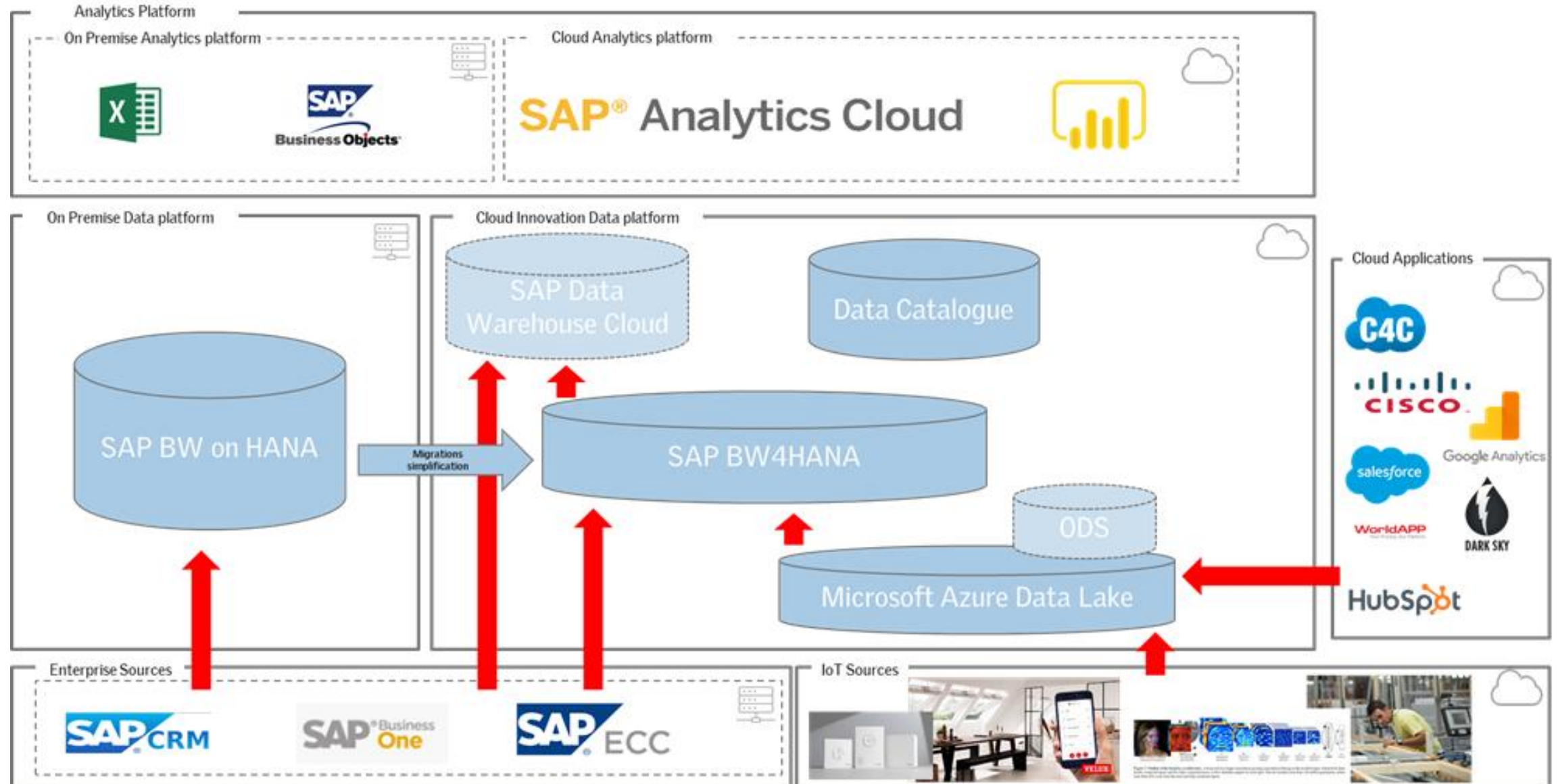
Technical infrastructure overview and roadmap



Technology Eco-System Architecture

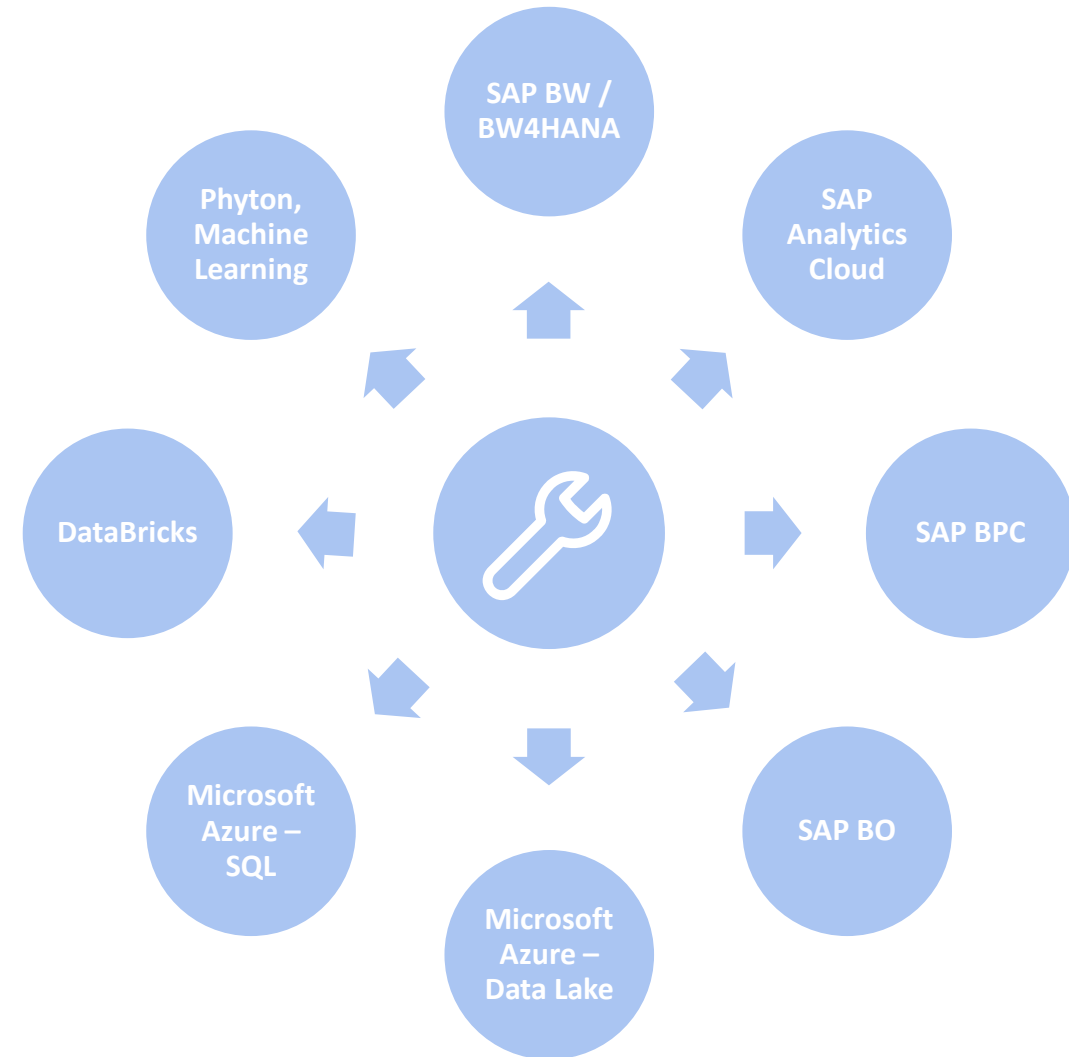
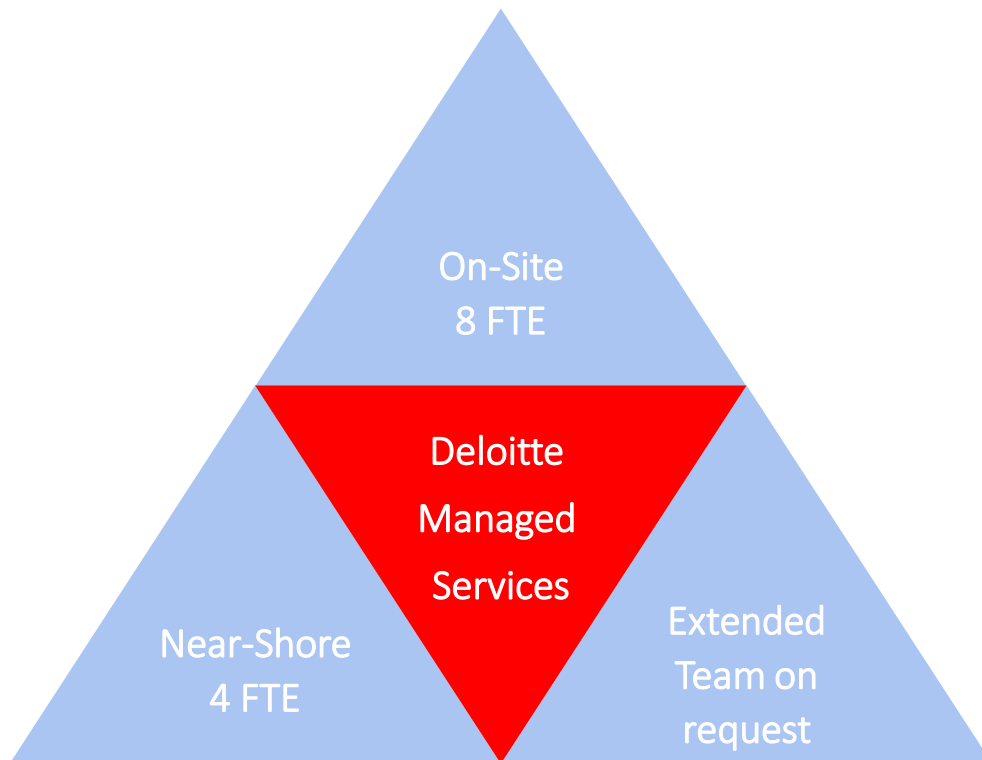


Project Driven Data & Analytics Roadmap



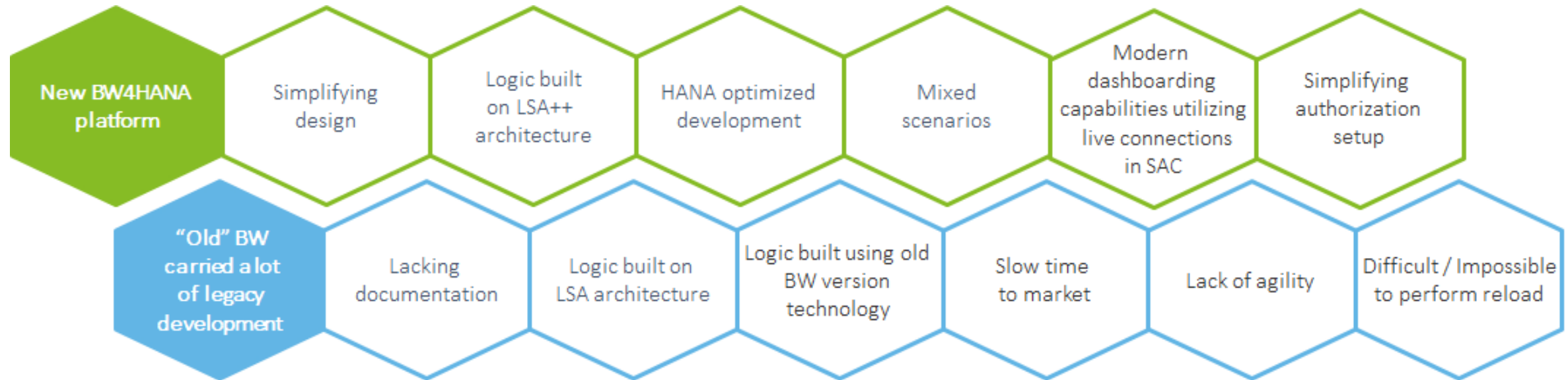
Velux partnership with Deloitte

Long term partnership between VELUX and Deloitte within Velux Data & Analytics



Green Field - Background

Upgrade BWonHANA vs. Green field BW4HANA



Pre study findings

Central finance / billing flow

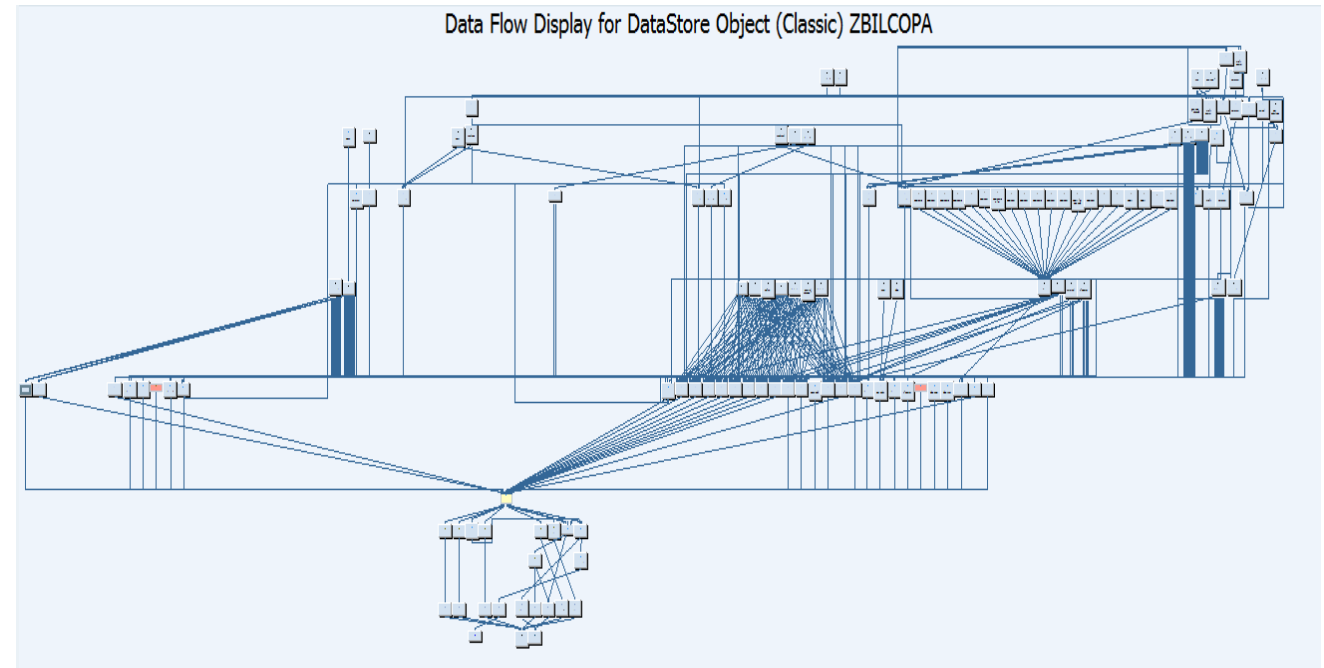
10 different data sources going into the data foundation



34 persistence of the same data in different flavors in higher level data consumption



33 reporting structures on top of these



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BWonHANA

Complex flows with complex logic

2000+ lines of ABAP logic developed over 15 years. Logic was found that nobody could explain

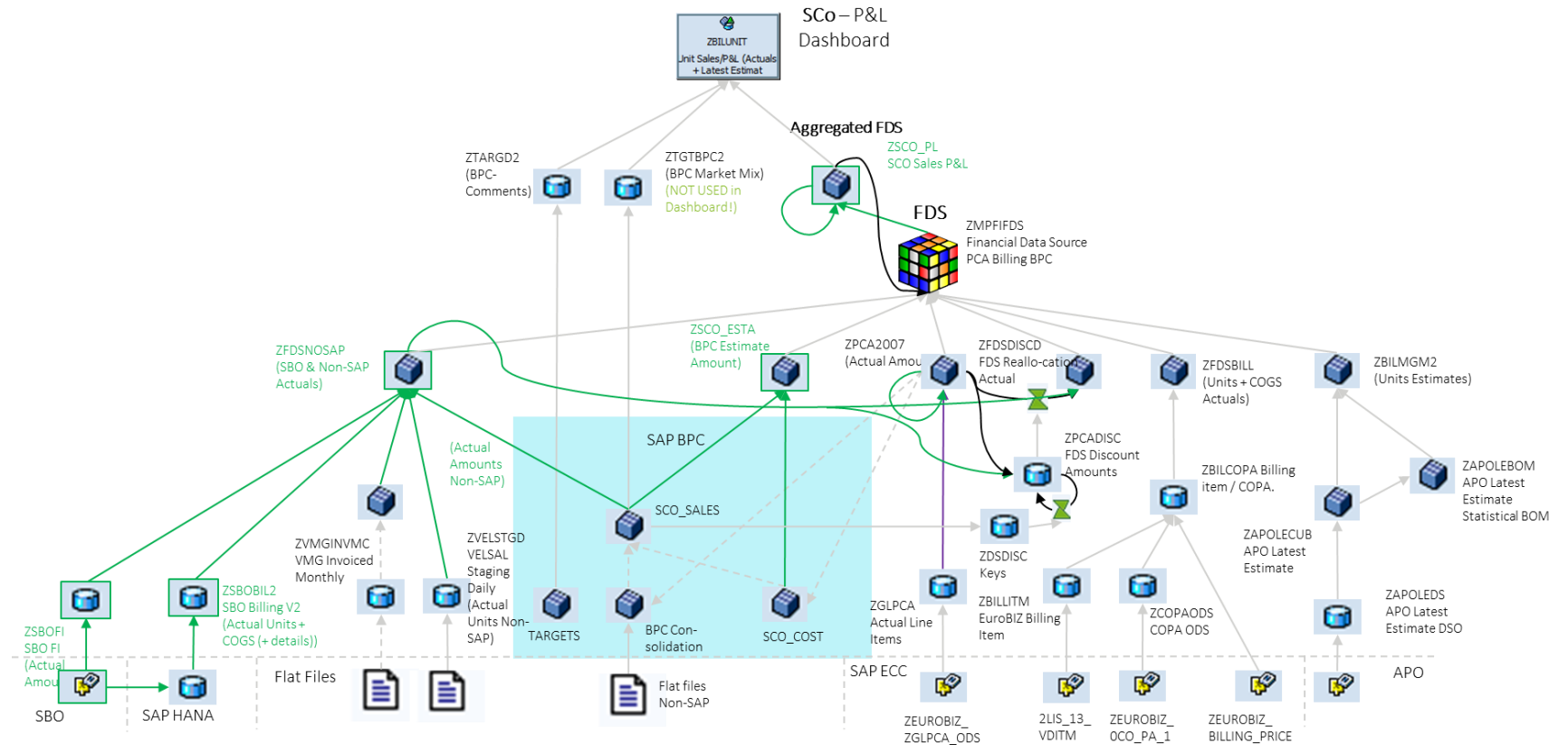
Build needed to take other older reporting scenarios into considerations

Model did not support divisional split that was introduced in the business

Billing and CO-PA data foundation was extremely complex

High data volumes mad changes difficult

High time to market for changes



Financial Data Source version 3.0 – Backend solution

BW4HANA

Isolated data flows with limited dependencies to other data flows

Reloads can be done flow by flow

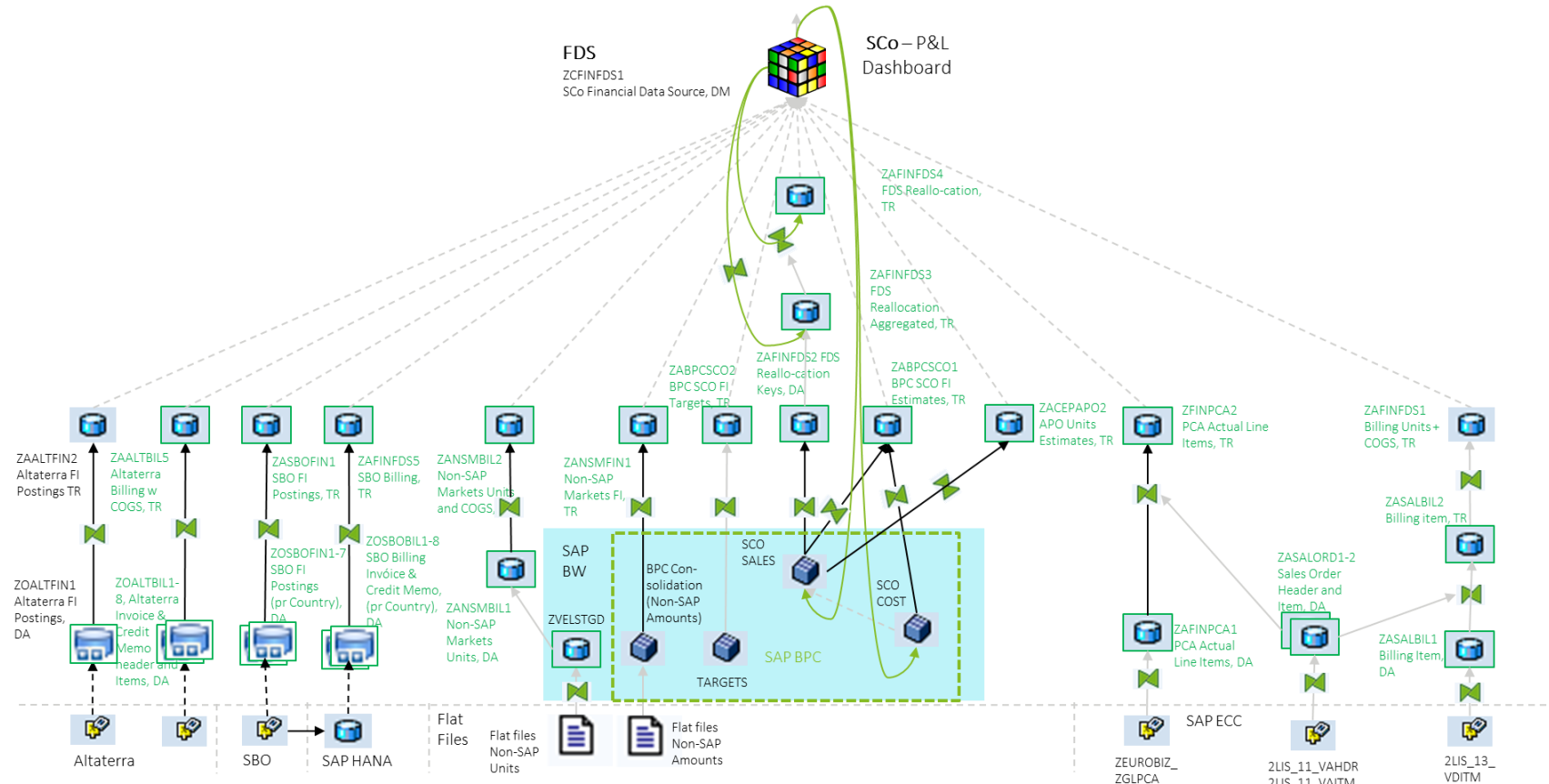
Divisional split build into all flows based on profit center hierarchies

Smart Data Access is used to connect to SAP Business One systems

One common model for finance reporting in VELUX sales companies

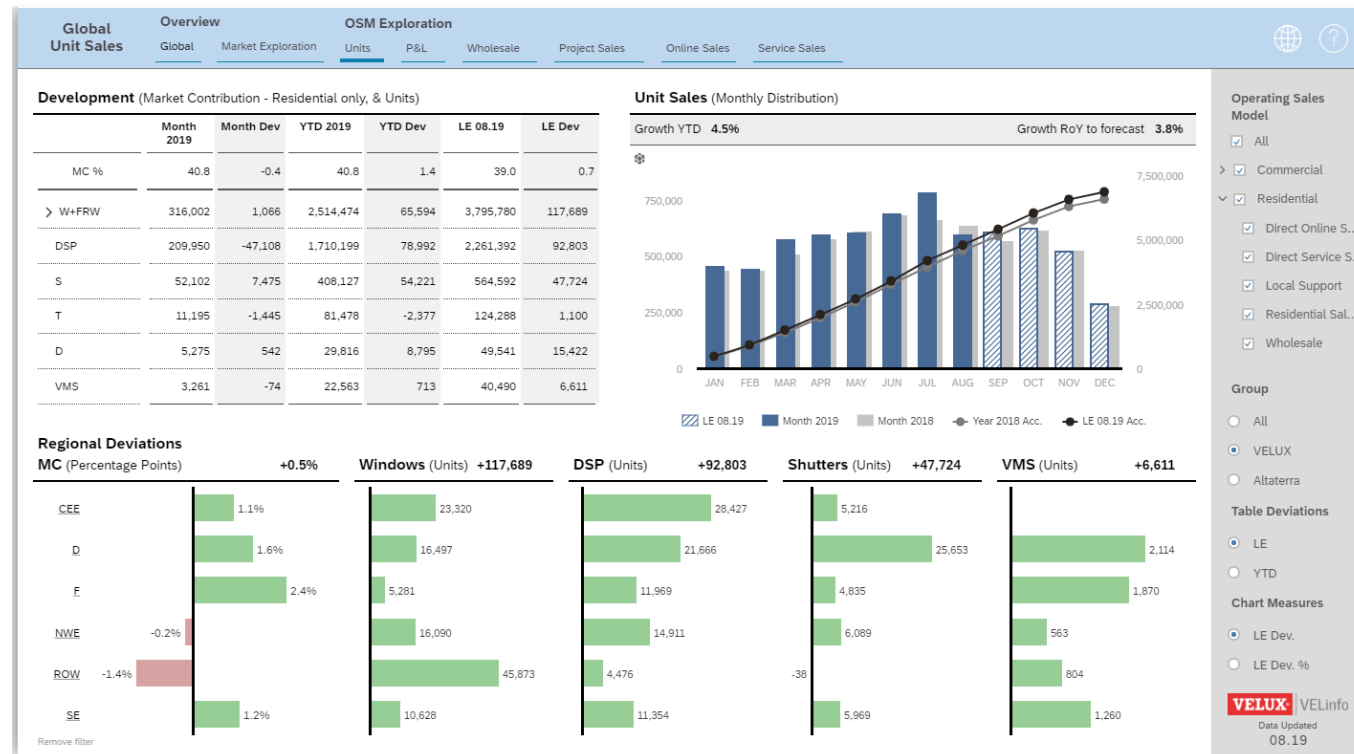
Complexity: BPC is for now still residing on the “old” BWonHANA system. Data is loaded between the systems

Everything build on new object types with HANA optimized logic



Standard reporting template for Finance reporting

SAP Analytics Cloud



Standard layout and color scheme defined based on VELUX visual identity

Filtering pane in the right side influence all graph elements

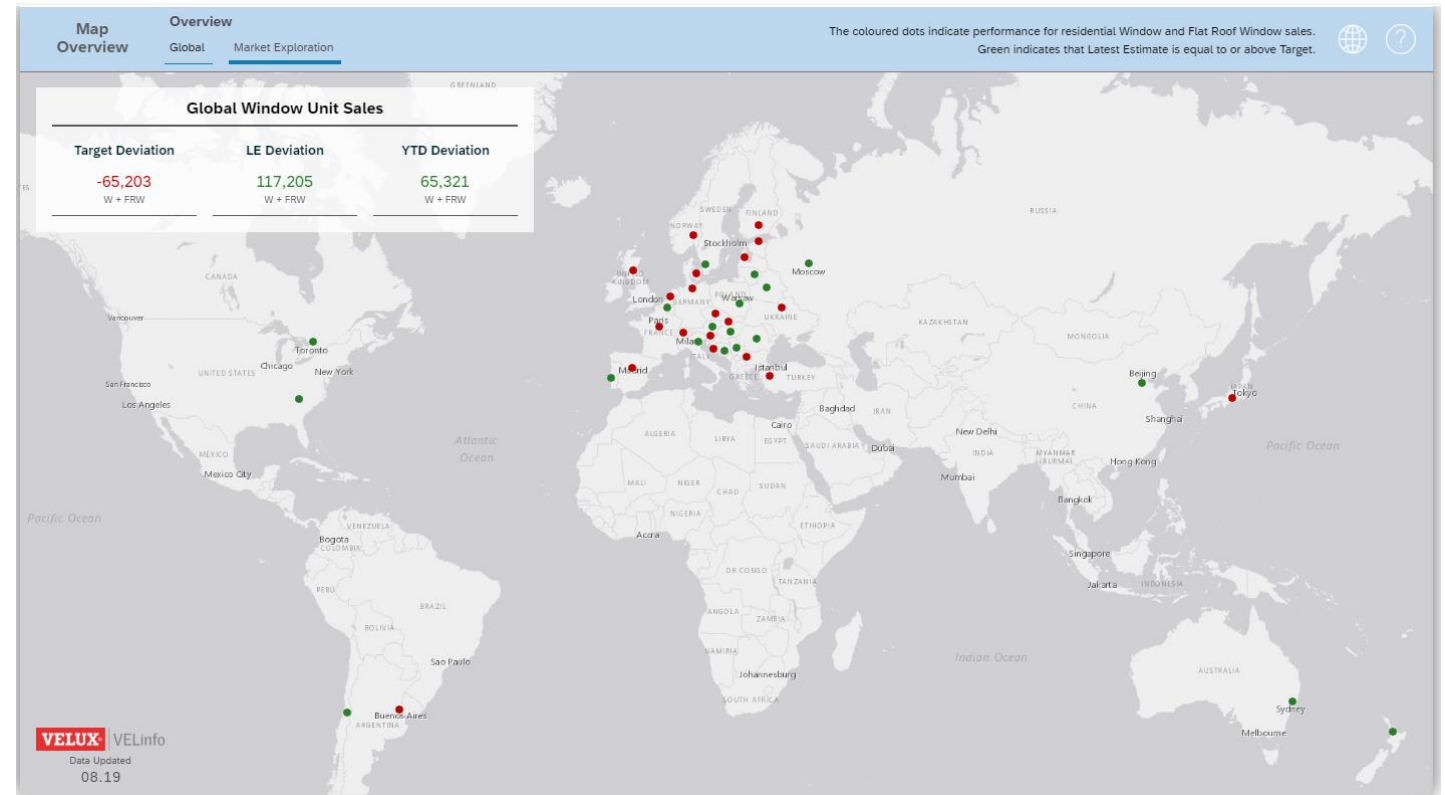
Top menu to shift between story pages

Visualization options that fits most needs

Build using "standard" SAC and not application designer

Merged dimensions ensure navigation is influencing all objects

SAP Analytics Cloud



Market insights

SAP Analytics Cloud

Filtering enables drill down to market and product group level

Story pages are built as both “fixed” structures and for a more explorative approach

Many visualizations with different sources can be a performance issue. The choice is between many small queries or few big queries. Connection settings related to parallel processing is very important

Key Figure documentation is built into the solution to make user adoption better.



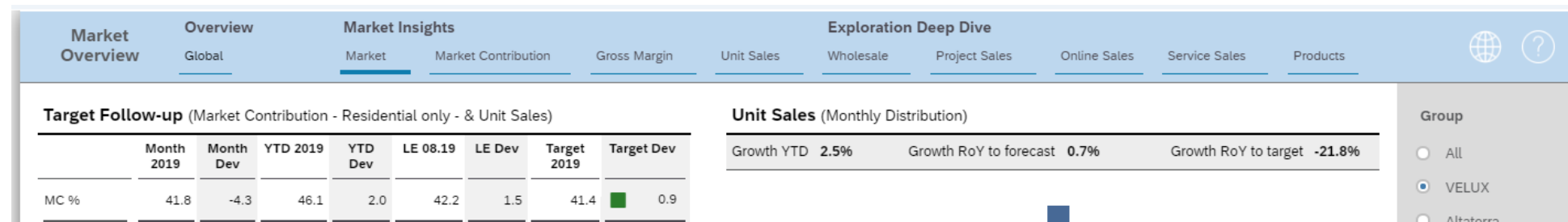
Navigation

SAP Analytics Cloud

Custom navigation menu to enable smooth navigation

Menu items link to another internal story page or to an external story (dashboard)

Custom menus make navigation more intuitive for less frequent users



Project Key Takeaways

Lessons Learned

BW4HANA

- Early versions of BW4HANA contained a lot of errors in basic functionalities
- A lot of support messages with SAP
- A lot of notes was implemented
- Support Pack implementation during project implementation phase has needed



- With current versions the same issues are not seen anymore
- Recent HANA 2.0 upgrade only introduced minor issues that could be fixed

Running 2 systems

- The green field approach has the disadvantage that the BWonHANA system will run in parallel for some time which is not always easy.
- Difficult to match data between systems when logic is implemented in a new modern technology stack
- However it has shown that most data issues was related to the BWonHANA systems.

SAC

- Performance of underlying BW4HANA data models are important as well as settings for parallel execution on the connection
- Few issues with functionalities but try and keep it simple and transparent
- Continuous development of the SAC functionalities makes new options available at a rapid pace.
- Live connections to BW4HANA is important to leverage authorizations from BW4HANA in order to prevent double maintenance

Project examples since this first project

BW4HANA

C4C reporting

Waste Reporting

Production Area
Performance

Billing migration

Purchase migration

Purchase price
development

Material planning logistics

NPR purchasing

QM migration

Group forecasting

IBP integration

Stock value at standard
cost



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Any unanswered questions?

Visit our virtual booth and the join live meeting!



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