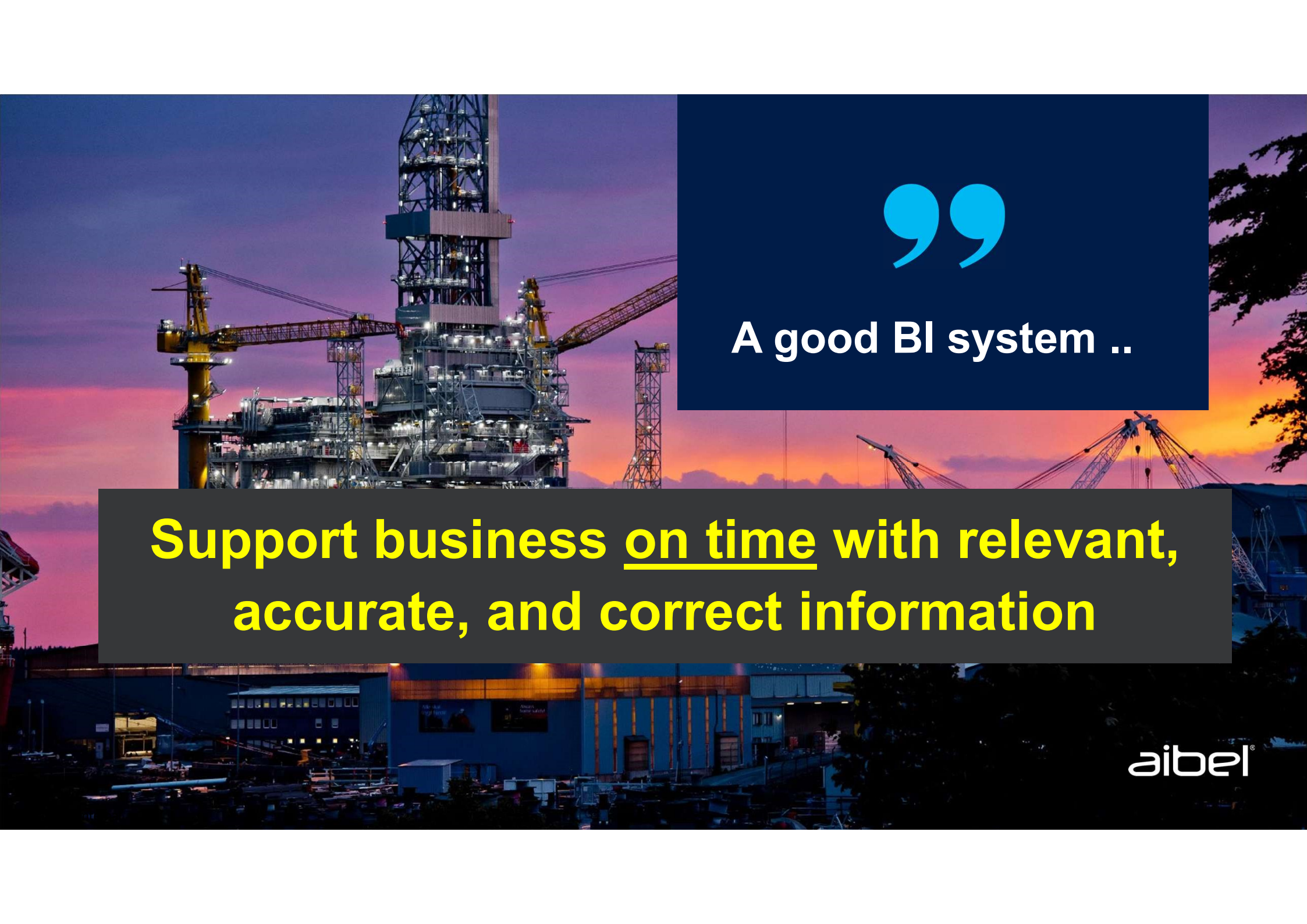


Aibel Business Intelligence – Enable New Reporting Possibilities

SAP BI and PowerBI

March 2020

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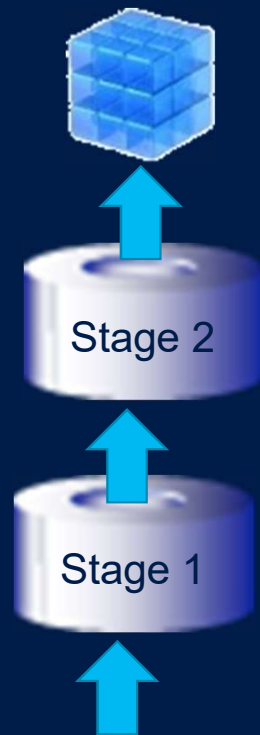
”

A good BI system ..

**Support business on time with relevant,
accurate, and correct information**

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Current Situation



PR	Architected Data Marts								
TM		NGL CO RRB	CAT S	PO MM	HR	SEM	MUR	Tie	MEIS
AD	Data Warehouse Stage 2 – Cube Content								
EMD		NGL CO RRB	CAT S	PO MM	HR	SEM	MUR	Tie	MEIS
MUR	Data Warehouse Stage 1 - Raw data								
TIE		NGL CO RRB	CAT S	PO MM	HR	SEM	MUR	Tie	MEIS
MEIS									
Multi Providers									
Data Sources (PSA)	SAP ERP	SAP BW							
	NGL/ CO	CATS	PO/ MM	HR	BW SEM	BW BI Stat	WAQS	Statoil	

Source Systems

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The Maturity of BI reporting



Business Intelligence starts with ..

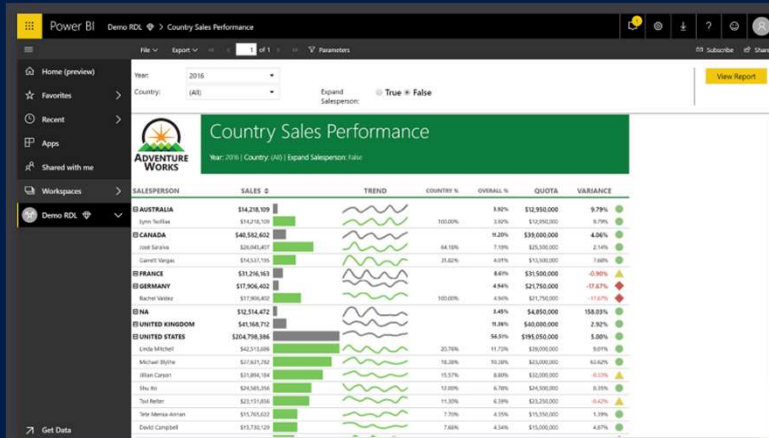
- Understanding your business and your data
- Leverage your software and services into actionable intelligence
- Secure intuitive and aligned data models
- Enable connectivity across IT environments
- Empower your business users



<https://www.cio.com/article/2439504/business-intelligence-definition-and-solutions.html>

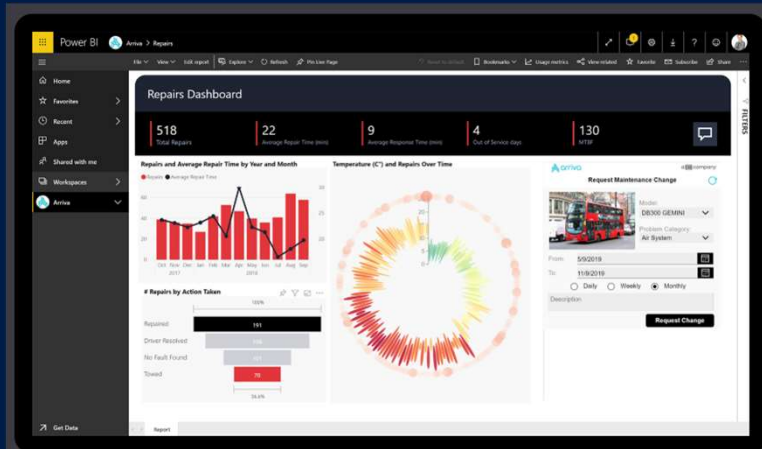
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Front-end tools – PowerBI / SAP



Unify self-service and enterprise analytics

Meet both your self-service and enterprise data analytics needs on a single platform. Access powerful semantic models, an application lifecycle management (ALM) toolkit, an open connectivity framework, and fixed-layout, pixel-perfect paginated reports.



Turn insights into action

Go from data to insights and insights to action with the Microsoft Power Platform—combining Power BI with PowerApps and Microsoft Flow to easily build business applications and automate workflows.

[Learn more >](#)

Figure 1. Magic Quadrant for Analytics and Business Intelligence Platforms



Source: Gartner (February 2019)

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One | Simple | Cloud

Business Intelligence



Data Preparation
Storytelling

Planning



Sharing
Simulation

Predictive



Forecasting
Automated Insights

Application Design



Custom Apps
SDK Extensions

Digital Boardroom

Mobile

SAP Analytics Hub

SAP Analytics Cloud



On Premise



Hybrid



Cloud

Unified experience for Planning, BI and Predictive all in one service
Live data **connectivity** enables SaaS for everyone
End-to-end analytics for the **Intelligent Enterprise**



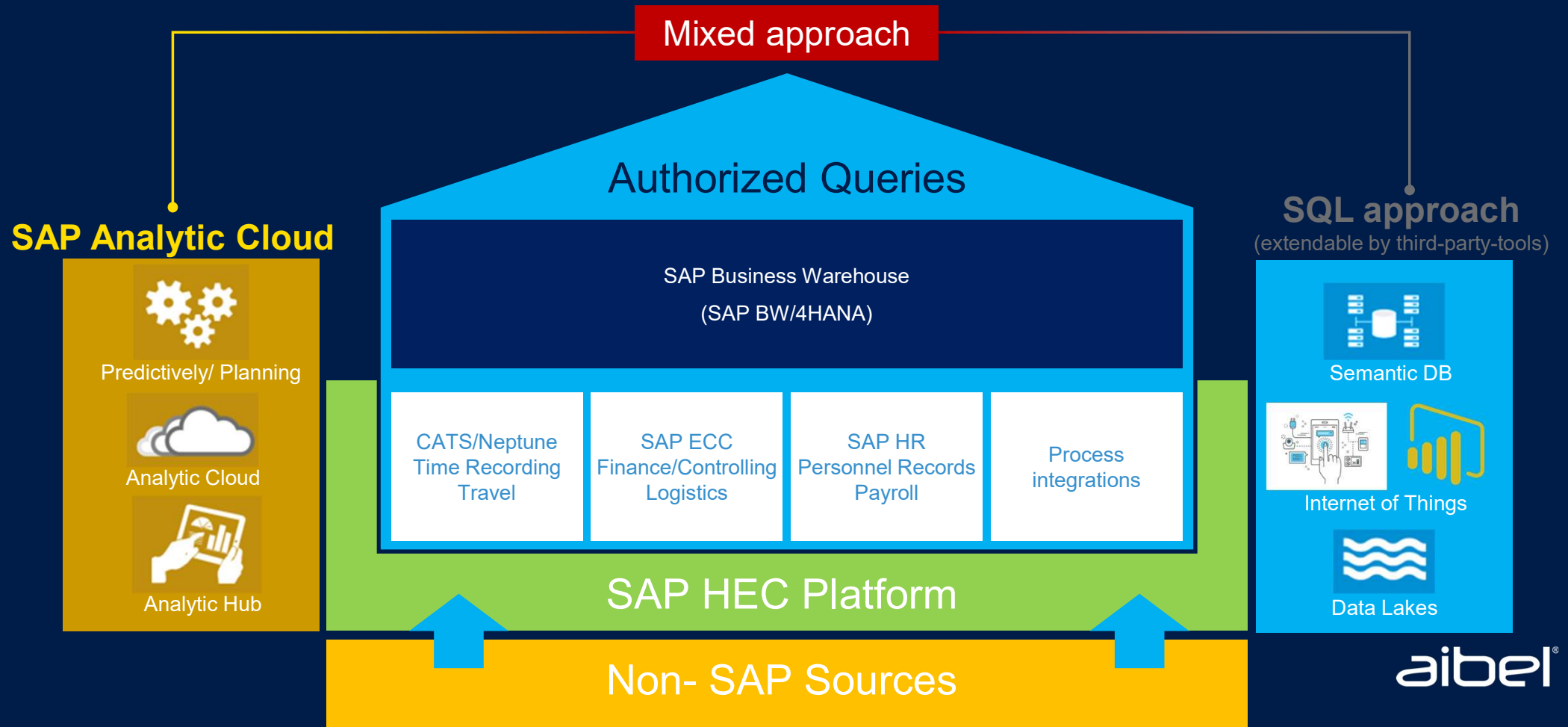


The Rise of Self-Service BI

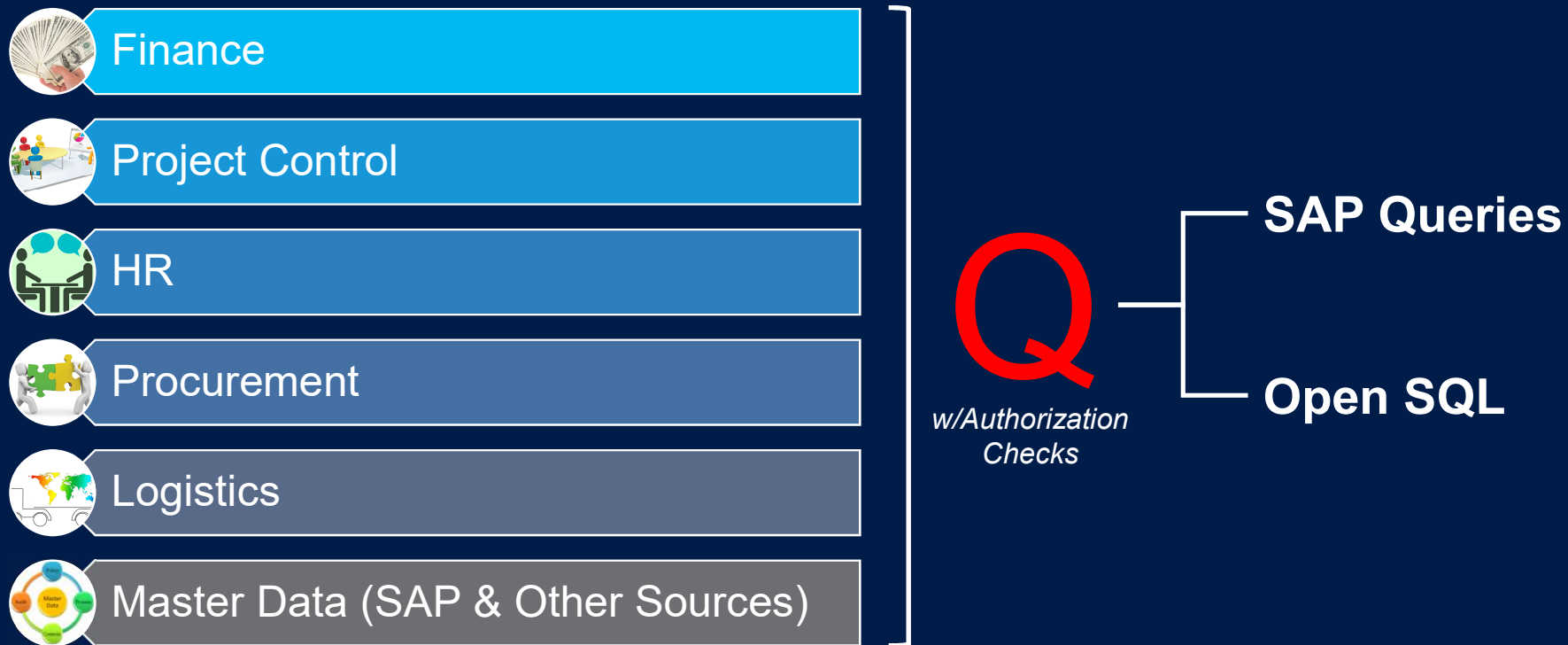
“All vendors are retooling to meet self-service BI use cases ..”

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The Aibel BI Landscape



Current BI content (Info Areas)



Data Source Virtual Access
(Composite Provider / Operational Data Store View)
or
BW Persistence Layer
(ETL processing)

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SAC Access



Aibel AD User

SSO

SAP Services	
Items	
SAP (1) HR - HR module for professional users	▶ preview
SAP (2) ESS - HR, Time, Travel registration (Self Service Portal)	▶ preview
SAP (3) CO - Finance Controlling	▶ preview
SAP (4) FI - Accounting	▶ preview
SAP (5) FICO - Finance/Project Reports (SAP + BI)	▶ preview
SAP (6) PS - Project Control	▶ preview
SAP (7) MM - Supply Chain Management	▶ preview
SAP (8) PM - Plant Maintenance	▶ preview
SAP (10) Display/Report from all SAP modules except HR	▶ preview
SAP (11) AMS - Technical Access	▶ preview
SAP (12) - User Account Termination	▶ preview

SAH Viewer
SAC Default Role



SAH User:

- Central Content Management
- All user assigned to a default SAC role
- View all template reports

SAC Teams



Line Manager (HR):

- Assigned users in HR
- Structural authorizations
- Restricted SAC Stories



SAC Roles



Planner:

- Assigned users in SAC
- Utilize SAC Role Requests?

Predictive Named User:

- Top 100 most freq.users
- Periodical Assignments
- No content, only access!



BW4 Roles w/Analysis Authorizations

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Key WAD features

aibel AD102 Worked Hours - Profit Center View 1

Posting Period/Year from-to 001.2017 - 010.2018 4

Selection var: 7 Filters 3 Navis Settings 8 Export to: Soft Excel 6 Book Info AD102-00 Default

Profit Center: P9020219 ERP Project: PrCtr Hier. Phase: Show All Values Discipline: Show All Values Indirect/Direct: Show All Val... Posting Year: Show ... Posting Period: Show ...

To adjust filter area, drag characteristics from navigation area into filter area

Account Number: Working Hours Billing Category: Show All Values Customer Invoice Code: Show All Values Direct/Indirect time: Show All Values Discipline: Show All Values

Employee: 5 Show All Values Employee Group: Show All Values Employee Subgroup: Show All Values Field 1: Show All Values Field 2: Show All Values

Field 3: Show All Values Field 4: Show All Values Field 5: Show All Values Field 6: Show All Values Field 7: Show All Values

Field 8: Show All Values Frame Agreement: Show All Values Key Figures: Show All Values Location Code: Show All Values Personnel Subarea: Show All Values

Phase: Show All Values Posting Period: Show All Values Posting Period/Year: Show All Values Posting Year: Show All Values Profit Center: Show All Values

Project: Show All Values Sender Profit Center: Show All Values System Status: Show All Values Time Types: Show All Values Vendor: Show All Values

Vendor Invoice Code: Show All Values WBS Element: Show All Values Working Period/Year: Show All Values Working Week/Year: Show All Values Working Year: Show All Values

Close

▼ Columns

- Key Figures
- Working Year
- Working Period/Year
- Working Week/Year
- Posting Period/Year

▼ Rows

- Account Number

▼ Free characteristics

- Billing Category
- Customer Invoice Code

Key Figures	Rec Worked Hrs	2018	10.2018	09.2018	08.2018	07.2018	06.2018	05.2018	04.2018	03.2018	02.2018	01.2018	2017
Account Number	H	H	H	H	H	H	H	H	H	H	H	H	H
Working Hours		27.335	11.737	1.240	1.421	1.084	942					1.342	15.599
Employees		26.351	11.499	1.154	1.394	1.070	932					1.317	14.852
Hired-Ins - External		984	238	86	27	14	10					25	747

Back

Filter

Change Drilldown

Distribute and Export

Properties

Sort Working Period/Year

Keep Filter Value

Keep Filter Value on Axis

Filter and Drill Down by

Select Filter Value

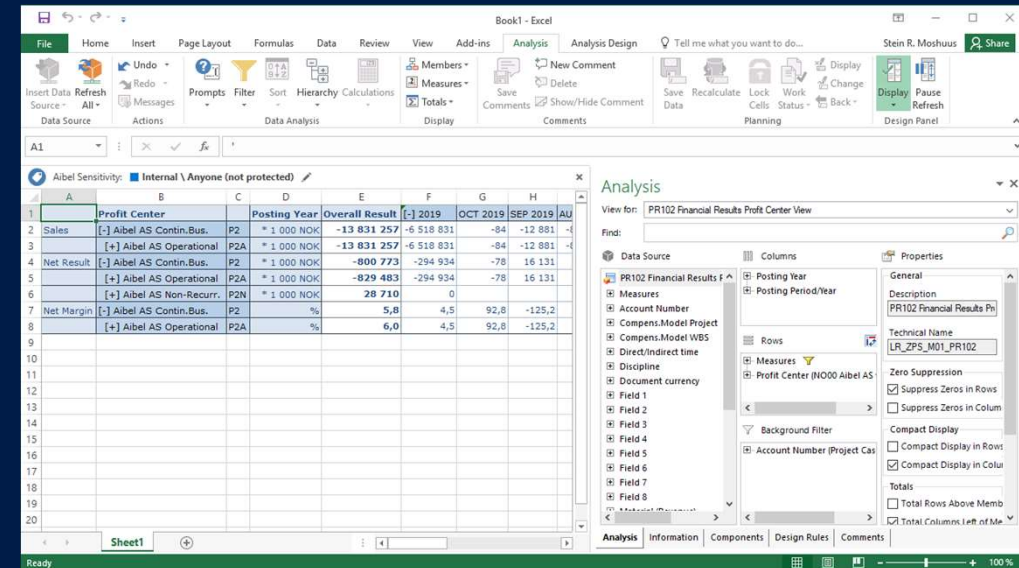
Remove Filter Value

Variable Screen

- 1) CSS design – Compact with good readability (Default SAP template – 0ANALYSIS_PATTERN))
- 2) Crosstab with context menu – Key for detailed navigation.
- 3) Navigation – Drag&Drop of Characteristics (with pause function! Only in DS)
- 4) Filter line – Improved in DS and useful.
- 5) Bookmark – Key function
- 6) Filter area – Useful overview with Drag&Drop functionality on for Aibel! This is our personalized reports.
- 7) Selection Variable – Useful to change the selection
- 8) Excel – Move to BOA would be useful but dead dump to excel spreadsheet is okay.

Excel Interface

- Content control?
- Excel Support Questions?
- Stability?
- Authorization Display Challenges
- Useful in many areas! (But not in all ...)



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Sub-reports

Filters

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Sample: HR Overview

Selected period: 2014, 2015, 2016, 2017, 2018

Period/Year

Last Data Update CET: Nov 21, 2018 09:33

Last Data Update

Input controls

Time

All

(all)

2011

2012

2013

2014

2015

2016

2017

2018

Department

All

GLOBAL

Office of CEO

Finance

Manufacturing

Sales

Marketing

Engineering

Working days per week

(all)

2014

2015

2016

2017

2018

Q1 (2018)

Jan (2018)

Feb (2018)

Mar (2018)

> Office of CEO	15.0	5.0	—	5.0	5.0	—	—	—	—	—	—
> Finance	85.0	15.0	10.0	10.0	15.0	35.0	5.0	—	—	5.0	—
> Manufacturing	1,305.0	280.0	330.0	135.0	340.0	220.0	70.0	15.0	25.0	30.0	—
> Sales	1,625.0	275.0	275.0	235.0	670.0	170.0	50.0	25.0	10.0	15.0	20.0
> Marketing	130.0	5.0	40.0	15.0	50.0	20.0	—	—	—	—	15.0
> Innovation	55.0	15.0	5.0	—	15.0	20.0	15.0	—	5.0	10.0	—
> Optimization	90.0	—	20.0	25.0	40.0	5.0	—	—	—	—	—
^ Engineering	145.0	15.0	25.0	25.0	55.0	25.0	15.0	—	5.0	10.0	—
> Corp Dev	50.0	5.0	25.0	5.0	10.0	5.0	—	—	—	—	5.0
> Legal	15.0	—	5.0	5.0	5.0	—	—	—	—	—	—
> HR	15.0	—	—	5.0	5.0	5.0	—	—	—	—	—
> Supply Chain	355.0	70.0	65.0	70.0	95.0	55.0	5.0	—	—	5.0	30.0
^ GLOBAL	3,740.0	670.0	775.0	510.0	1,250.0	535.0	145.0	40.0	40.0	65.0	165.0

Hierarchy

Search

< 1/2 >

☒ All

☒ Junior Accountant

☒ Senior Accountant

☒ Auditor

☒ Financial Analyst

☒ Controller

☒ Acquisition manager

View Controls...

SAC status in Aibel

- Awaits SAC functionalities
- Strategy alignment SAC versus PowerBI
 - When to use what?
- SAH versus NWBC
 - SAH improvements?
 - Skip and only use NWBC?
- User assignment API in progress
- BW4Hana optimizations = BI simplifications?
- WAD termination by 2022



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BI Total Cost of Ownership (ToC)

- Number of Domain
 - SAC, SAH, Enterprise Portal, Fiori, Teams ...
- Number of Queries
 - Queries & Query Views
 - SAC models vs Query?
- Smart design templates
- SAC Story development = WAD Bookmarks?



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”

Connecting Data and Removing Silos ...



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