



New Product Costing – **SAP Product Lifecycle Costing goes Cloud!**

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CUSTOMER

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About the Speakers

Ulf Petzel

- High Tech Industry Solution Manager, SAP SE
- 21 years with SAP,
Mechanical Engineer
- First time I got an alternate speaker slot!

Key Outcomes/Objectives

1. Get an overview about SAP Product Lifecycle Costing
2. Learn about the availability in the Cloud
3. See the latest innovations live

Agenda

1. Challenges in Early Product Costing

2. Customer Case Studies

3. SAP Product Lifecycle Costing

4. Summary and Roadmap





01

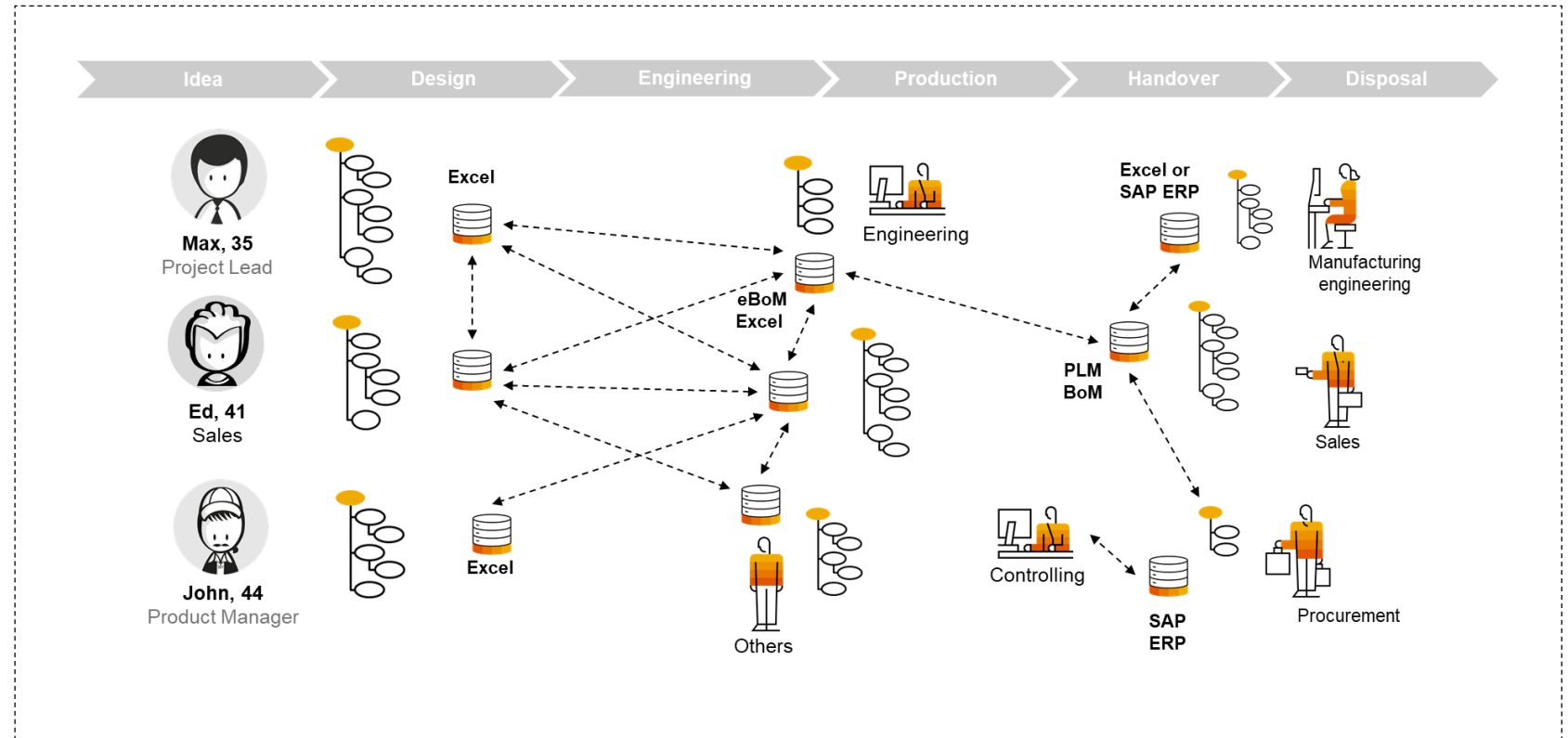
Challenges in Early Product Costing

The Challenge Today

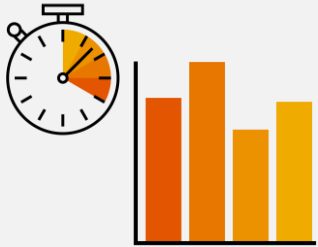
In today's fast-evolving market, companies are facing increasing pressure to provide innovative, customer-driven products and quotations at competitive prices. Lack of visibility into early product cost hurts profitability downstream. **TODAY** customers are using **Excel** spreadsheets to calculate future product costs.



Microsoft Excel and legacy tools used for early cost estimates and planning but SAP ERP for actual cost calculation



Typical Customer Pain Points



How can I identify cost drivers, optimize the cost structure and improve time to market?



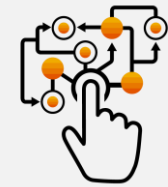
How do I get accurate cost estimates when structures and values are only partially available?



How can I minimize the risk of hidden cost and profit loss?



How can I collaboratively work on cost estimates across boundaries throughout the organization?



How can I keep control of cost estimates for complex products?

Early Product Costing Challenges at AGCO

10 different cost rollup solutions

7 different ERP systems globally

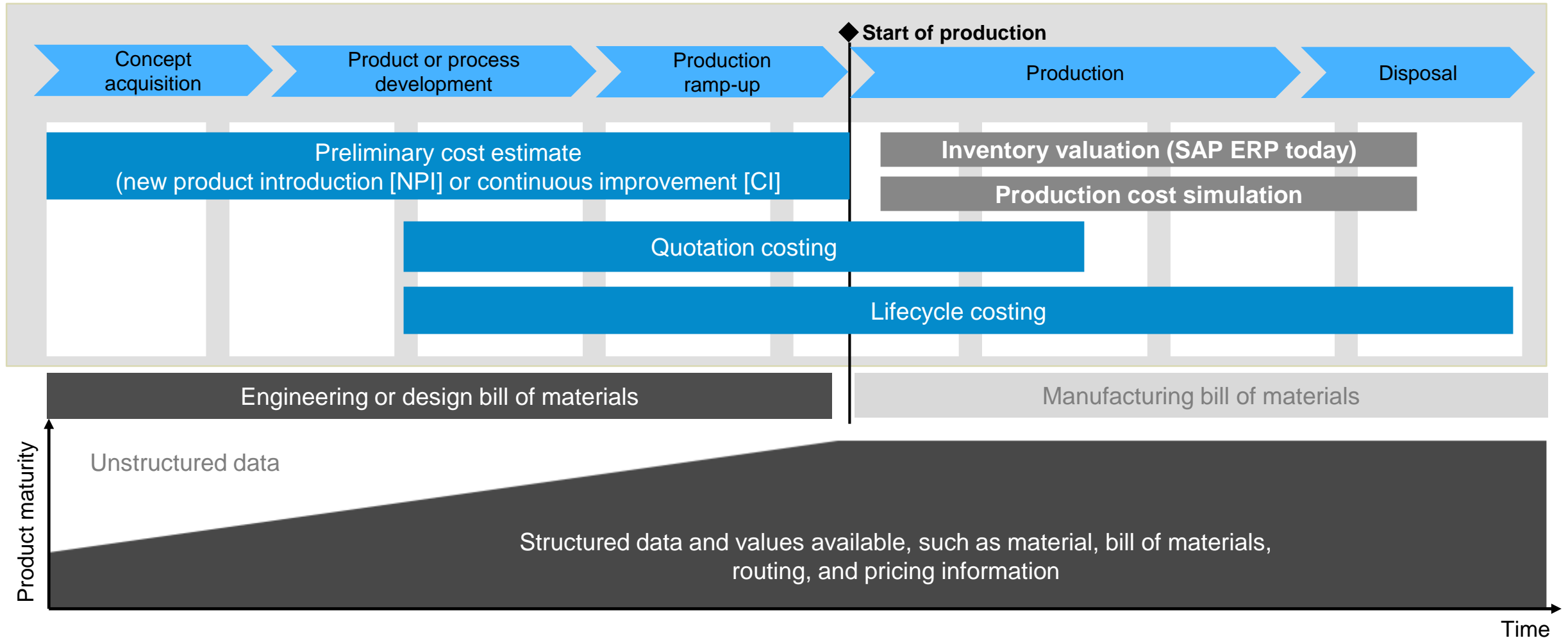
10 different costing sheets

Zero transparency on global level

Manual interfaces to ERP systems

Different processes & reporting standards across sites

Focus use cases for early product costing





02

Customer Case Studies



Typical Customer Implementations – Global Product Costing at....



- Automotive global player, OEM, use case calculation of new products
- **Initial situation:** 11 different plants with their own calculation schemas in MS Excel and disjoint calculation processes
- **TODAY:** A standardized process, a database, efficiency gain 3%.



- High Tech Company, Use Case calculation of new products
- **Initial situation:** Replacement of several software tools with a single solution.
- **Today:** Standardization of calculations for the entire group of companies
Comparability and traceability through one database, identical cost structures and uniform process



- SME automotive supplier, use case offer calculation for new products
- **Initial situation:** 4 plants with their own Excel calculation, different calculation schema, no ERP integration
- **Today:** One calculation process, one instance, ERP integration



- Global IM&C Company - Food processing machinery manufacturer
- **Initial situation:** Costing was carried out with several customer-specific systems across several plants
- **Today:** ONE process, ONE tool, ONE database, ERP integration



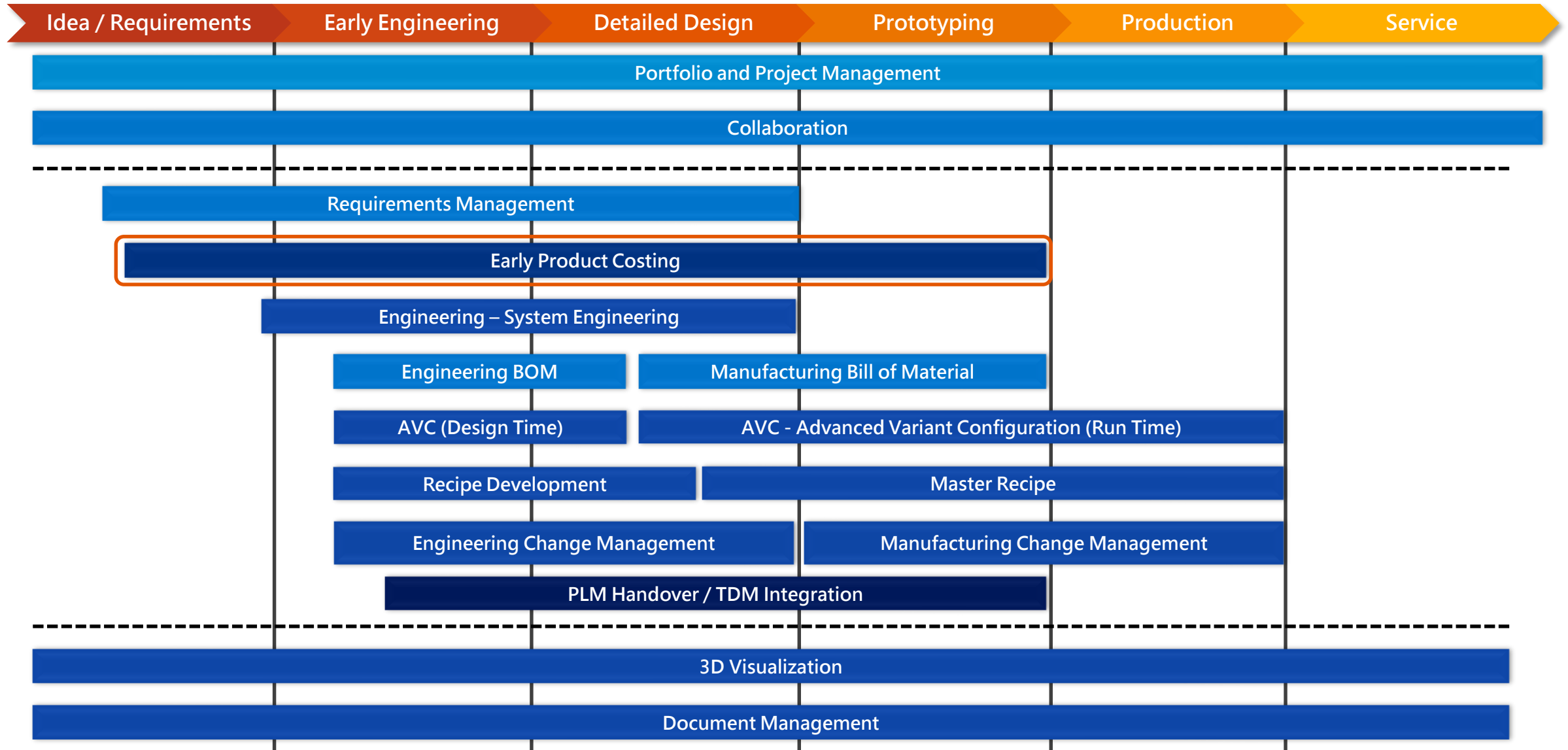


03



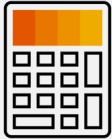
SAP Product Lifecycle Costing

Early Product Costing within the Product Development Process




Lifecycle Costing – Product Cost Control

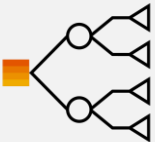





Manage costs for new product innovations & customer-specific engineered products



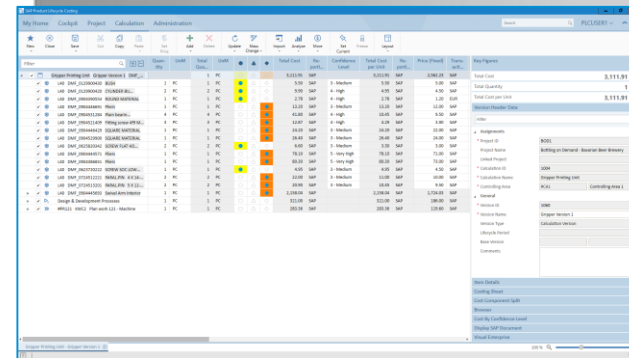
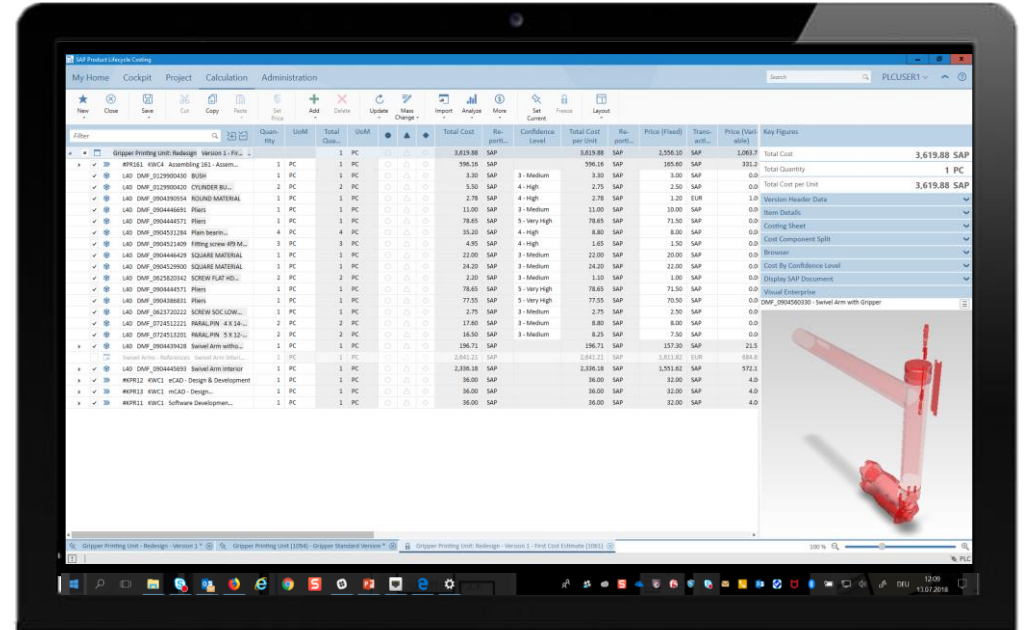
Minimize costs by **securing future product margins early**, when the design is evolving & master data is incomplete



Simulate the impact of cost reduction measures by identifying cost drivers in later stages of the product lifecycle



Gain visibility on cost structures across diverse teams



Solution definition

SAP Product Lifecycle Costing is a solution to calculate costs and other dimensions for new products or quotations in an early stage of the product lifecycle, to quickly identify cost drivers along the lifecycle, and to easily simulate and compare alternatives.

Real time
SAP HANA

User centric
Microsoft Excel-like UI

Open
SAP ERP or S/4HANA,
Microsoft Excel, non SAP

Flexible
Cost structure



First-class **user experience**

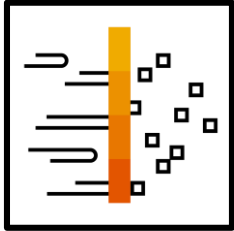


High **performance**



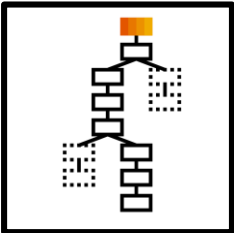
Integration with SAP ERP or
SAP S/4HANA

Key Features



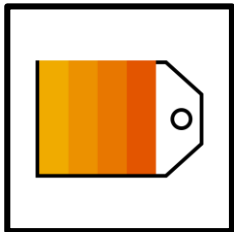
Calculation Structures

Calculations, Versions
Variant Matrix
Reference Calculations
ERP/Excel Import



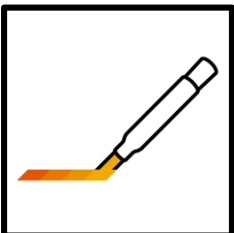
Calculation Master Data

Material
Cost Center, Work Center, Process
SAP ERP & S/4HANA Integration



Valuation Data

Prices, Rates
Costing Sheets
Multi Currencies, Exchange Rate Types
Units of Measure



User Support

Mass Change
Highlighting
Layout
Search



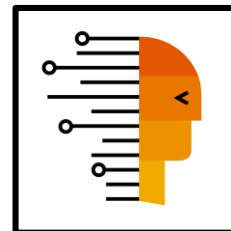
Projects

Project Master Data
Lifetimes
Surcharges



Analytics

Self Service Analytics
Managed Analytics
Management Reporting
KPI Analysis



Extensibility

Custom Fields / Formulas
Integration to other Applications
Templates
API / Add In Framework



Further Information

Cloud enablement
User Management / Authorization
Security Engineering / Locking
Single Sign On / Data Security

Recent Innovations – Share link to calculation version

Easier **collaboration** between different parties working on a calculation

The screenshot shows the SAP Product Lifecycle Costing Cockpit interface. The main table displays calculation data for various components. A button labeled 'Copy Link to this Calculation Version' is visible in the table's header area.

Quantity	UoM	Total Quantity	UoM	Total Cost	Report...	Total Cost per Unit	Copy Link to this Calculation Version
1	PC	1,000	PC	2,904.54 EUR		2.90 EUR	1.
10	min	1,000	min	660.00 EUR		0.66 EUR	0.4
10	min	10,000	min	84.00 EUR		0.08 EUR	36.4
10	min	10,000	min	1,080.00 EUR		0.11 EUR	18.4
10	min	10,000	min	1,080.00 EUR		0.11 EUR	36.4
5	min	5	min	0.54 EUR		0.11 EUR	18.4

Motivation

- To enable easier collaboration, users need the functionality to create and share hyperlinks pointing to an existing calculation version

Highlights

- New option to automatically generate hyperlinks to calculation versions, available in the calculation view & cockpit view
- The link is copied automatically to the system clipboard and users can share the link
- Clicking on the link will start the SAP PLC application automatically (if closed) and the corresponding calculation version gets opened

Recent Innovations – Variant Matrix

Create product variants in one go – calculate and simulate product variants

Variant Name	Variant 1	Variant 2	Variant 3
Total Quantity	10 PC	20 PC	
Total Cost	26,965.84 EUR	15,380.76 EUR	
Sales Price	10,000.00 EUR	10,000.00 EUR	
Reporting Currency	EUR	Euro	Euro
Exchange Rate Type	STANDA...	Standard Rate	STANDA...
Last Generated Version	1001	Not Generated	Not Generated
Last Modified	11.06.2018 23:52:27 by D043604	11.06.2018 23:52:27 by D043604	11.06.2018 23:52:28 by D043604

Quantity	Total Quantity	Unit of Measure	Total Cost in EUR
10	10	PC	26,965.84
10	100	min	396.00
1	1	PC	0.00
5	50	PC	24,894.32
1	1	PC	0.00
1	10	PC	1,675.52
1	1	PC	242.00
0.1	1	PC	0.00
20	0	min	0.00
3	0	min	0.00
10	100	min	396.00
10	100	min	396.00
3	3	min	7.92
3	3	min	118.80
3	3	min	118.80
10	100	min	396.00

Motivation

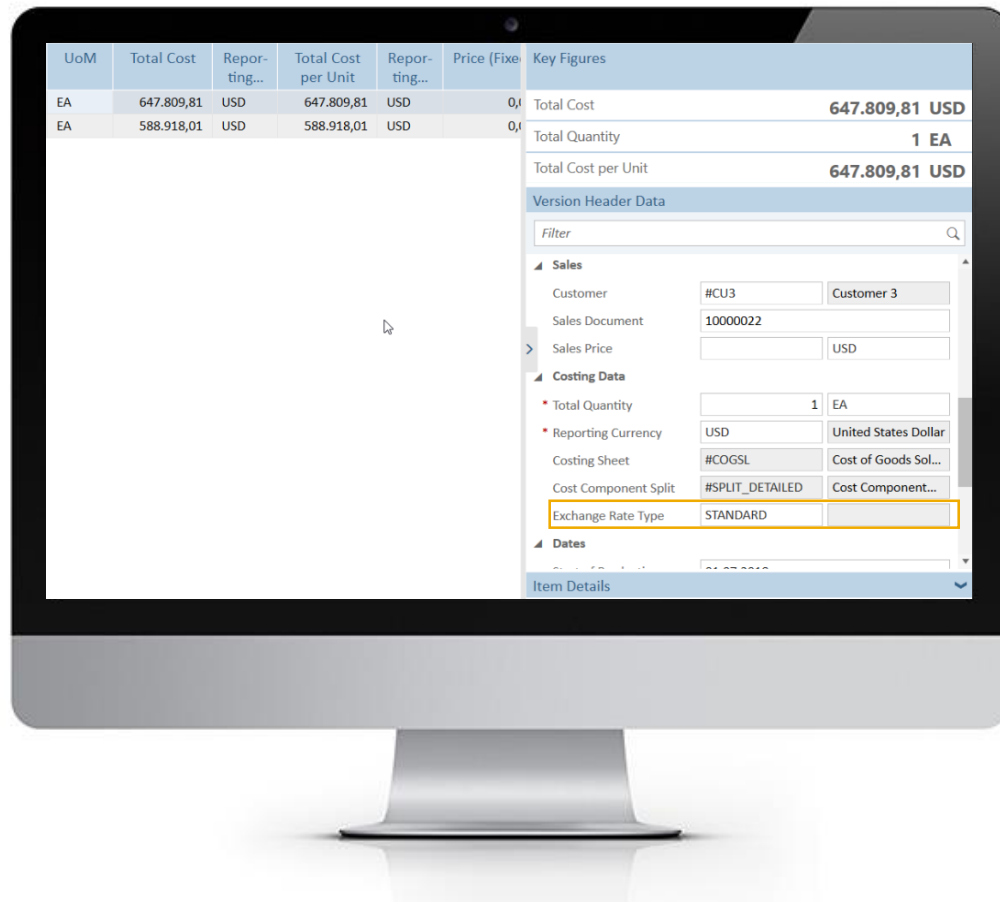
- Calculate, simulate and compare product variants in one go.
- Based on a maximal structure quickly outline variants.

Highlights

- Define variant matrix based on a base version that represents the maximal costing structure
- Simulate and calculate different variant mix by editing quantities and the occurrence of the items in the costing structure
- Compare all variants in one view, the “Variants” view
- Create new variants based on existing variants in the same variant matrix
- (Mass-) Generate new calculation versions based on variants
- Visualize and accept changes in the variant matrix after changes to the variant base version

Recent Innovations – Different exchange rate scenarios

Simulate with different exchange rates – use the exchange rate type



Motivation

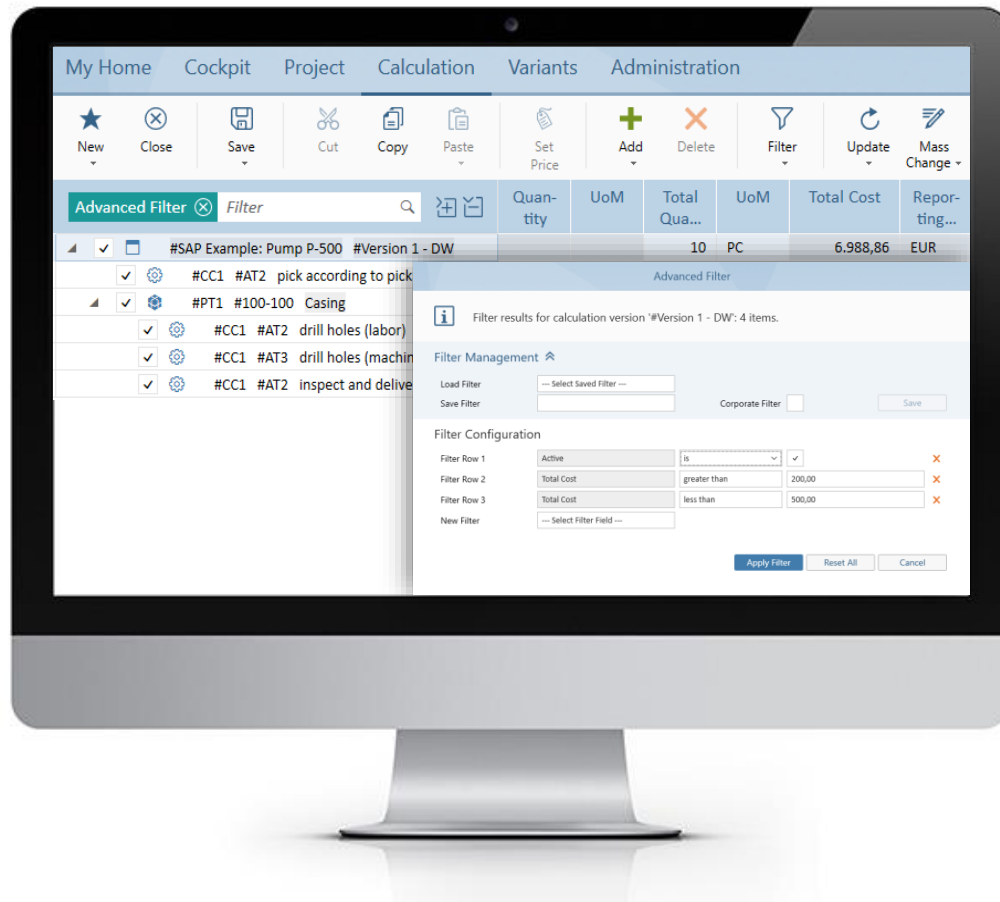
- Customers want to simulate exchange rate scenarios. To mitigate exchange risks and play with alternatives.

Highlights

- transaction currency per item that is converted to the reporting currency used for the calculation
- Exchange rate type** to simulate different exchange rate scenarios

Recent Innovations – Advanced Filter and Mass Change Scenarios

Create and reuse simulation scenarios – Easy to simulate and change complex changes



Motivation / Context

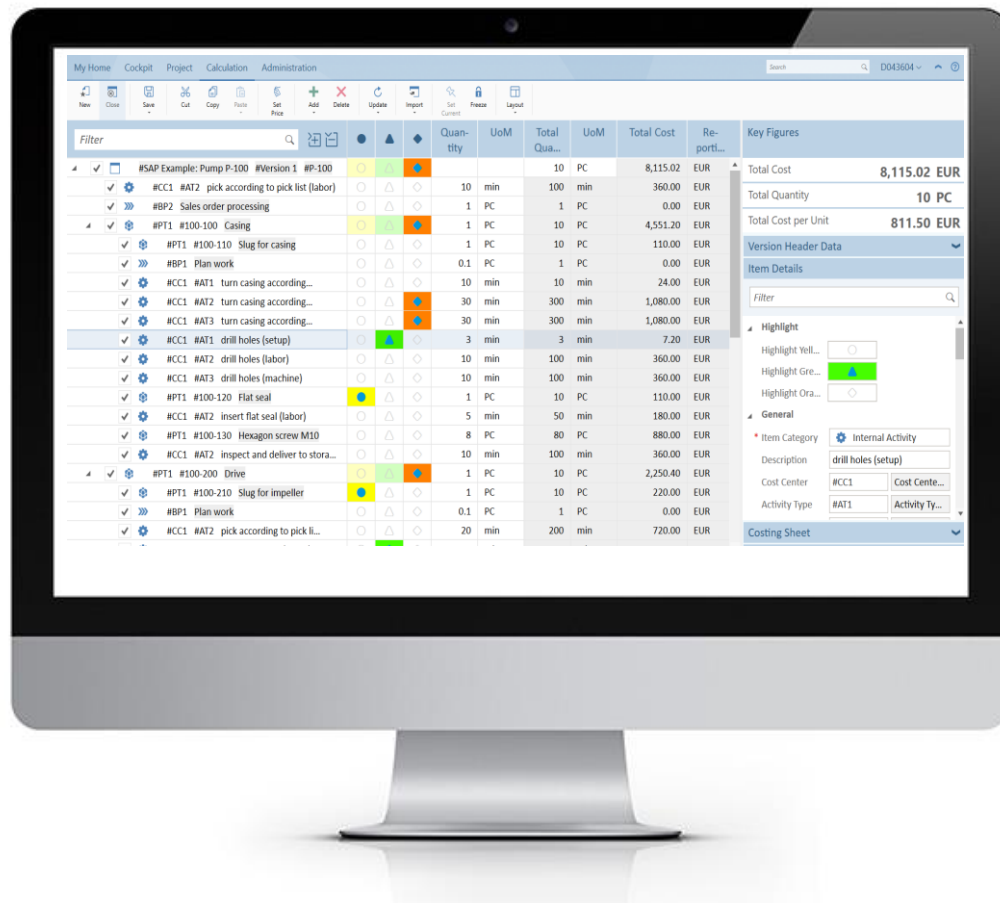
- Customer want to quickly simulate changes or want to filter and change based on their settings. The mass change and filter functionality offers a rich set of select, filter and change criteria and can even be used with the simple filtering. Complex scenarios for operators and functions covered.

Highlights

- Filter and change settings can now be saved as one configuration
- Filter items based on complex filter criteria, e.g. with any operators or upper and lower limits
- Combine filter criteria for different fields or the same field
- Load / Save / Rename / Delete filters
- You can clear the value from a field. This is only possible for non-mandatory fields
- Multiply existing values by a factor, e.g. to subtract the cost of an assembly
- Replace part of string by another part of the string

Recent Innovations – Highlighting

Highlighting – Use highlighting define current status of items



Motivation / Context

- Customer want to highlight and filter items based on defined settings to later take action on it.

Highlights

- Highlight status of items
- Filter items with the simple filter by just typing e.g. "Yellow"
- Mass change highlighted items
- Filter and highlight items

Recent Innovations – Visualize master data overrides on item level

Visualization – Use visualization techniques for deviations

The screenshot displays the SAP Product Lifecycle Costing interface. The main table lists various cost components for a pump assembly. A tooltip is shown over a row, indicating that the data differs from the master data. The tooltip text is as follows:

Tooltip:
 This data differs from your master data. The values for these fields in master data are:
 Design Office: #L1
 Material Group: #MECH
 Material Type: #RAW
 Phantom Material: False

Item	Quantity	UoM	Total Cost	Reporting	Overheads (AG 130)	Reporting
#SAP Example: Pump P-100 #Version 1 #P-100	10	PC	12,120.07	EUR	2,676.39	EUR
HCC1 #A72 pick according to pick list (labor)	100	min	480.00	EUR	80.00	EUR
HPT1 #100-110 Slug for casing	1	PC	834.30	EUR	75.85	EUR
HPT1 #100-110 Slug for casing	1	PC	834.30	EUR	75.85	EUR
HPT1 #100-100 Casing	1	PC	5,887.57	EUR	846.69	EUR
HPT1 Material Description	1	PC	0.00	EUR	0.00	EUR
HPT1 #100-110 Slug for casing	1	PC	834.30	EUR	75.85	EUR
HBP1 Work Center Plan work	0,1	PC	0,00	EUR	0,00	EUR
HCC1 #A71 turn casing according...	10	min	24,00	EUR	4,00	EUR
HCC1 #A72 turn casing according...	30	min	1,440,00	EUR	240,00	EUR
HCC1 #A73 turn casing according...	30	min	1,080,00	EUR	180,00	EUR
HCC1 #A71 drill holes (slag)	3	min	7,20	EUR	1,20	EUR
HCC1 #A72 drill holes (labor)	10	min	480,00	EUR	80,00	EUR
HCC1 #A73 drill holes (machine)	10	min	360,00	EUR	60,00	EUR
HPT1 #100-120 Flat seal	1	PC	55,00	EUR	5,00	EUR
HCC1 #A72 Insert flat seal (labor)	5	min	240,00	EUR	40,00	EUR
HPT1 #100-130 Hexagon screw M10	8	PC	887,08	EUR	80,64	EUR
HCC1 #A72 Inspect and deliver to stora...	10	min	480,00	EUR	80,00	EUR
HPT1 #100-200 Drive	1	PC	1,766,40	EUR	444,40	EUR
HPT1 #100-210 Slug for impeller	1	PC	220,00	EUR	20,00	EUR
HBP1 Work Center Plan work	0,1	PC	0,00	EUR	0,00	EUR

Motivation / Context

- Customers want to see whether a material item or activity item has different field values then in the master data set

Highlights

- Quickly identify items, such as materials, activities and other master data related items which have been changed and differ from the recent master data
- Use the tooltip to show the different field values

Recent Innovations – Lifetime Surcharges

Plan future material prices with surcharges

Plan lifetime material surcharges for materials to forecast material costs for all production years without planning the material prices for each period.

Dependencies		Lifecycle Surcharges in %					
Plant	Plant Description	2017	2018	2019	2020	2021	2022
#PT1	Plant 1	0,00	10,00	10,00	10,00	10,00	0,00
#PT2	Plant 2	6,00	5,00	5,00	3,00	6,00	7,00
#PT3	Plant 3	2,00	3,00	3,00	3,00	3,00	5,00
1000	Plant 1000	0,00	0,00	0,00	0,00	0,00	0,00
1012	Plant 1012	0,00	0,00	0,00	0,00	0,00	0,00

Plan future process costs with surcharges

Plan lifetime surcharges on rates to plan internal processes in production along future production years.

Without planning all the rates for future years.

Dependencies				Lifecycle Surcharges in %	
Cost Center	Cost Center Description	Activity Type	Activity Type Description	2018	2019
#CC1	Cost Center 1	#AT1	Activity Type 1 (setup)	-2,00	-5,00
#CC2	Cost Center 2	#AT2	Activity Type 2 (labor)	2,00	0,00
#CC1	Cost Center 1	#AT2	Activity Type 2 (labor)	-2,00	0,00
#CC1	Cost Center 1	#AT3	Activity Type 3 (machine)	1,00	0,00
#CC2	Cost Center 2	#AT1	Activity Type 1 (setup)	1,00	0,00

Recent Innovations – Machine Learning with SAP PLC

Machine Learning – Use Machine Learning to improve your calculations

Costing Structure	Quantity	Unit of Measure	Total Quantity	Price	Cost per Total Qty	Key Figures
67 C 205.304.1 C 220 D	1	PC	1	24,903.96 EUR	24,903.96	Total Cost: 24,903.96 EUR
67 A 504.700.00.01 DUMMY-SNR F- NACOS	0.001	PC	0.001	0.01 EUR	0.01	Total Quantity: 1 PC
67 A 000.983.09.00 PRODUKTSCHUTZ AU	1	PC	1	0.83 EUR	0.83	Version Master Data
67 A 205.983.03.00 PRODUKTSCHUTZ F-SITZ	2	PC	2	1.26 EUR	0.63	Version Details
67 A 000.899.26.61 FOLIEHEFTEL	1	PC	1	0.19 EUR	0.19	Costing Sheet
67 A 504.700.00.01 DUMMY-SNR F- NACOS	0.001	PC	0.001	0.01 EUR	0.01	Cost Component Split
67 A 005.986.09.10 FUELLER	2.77	kg	2.77	6.90 EUR	19.11	Similar Path Search
67 A 004.986.81.37 WASSERBASISLACK	2.13	kg	2.13	10.03 EUR	21.37	Search Criteria
67 A 004.986.34.37 KLARLACK / F-GLOSS	1.4	kg	1.4	10.68 EUR	14.95	Material Number
67 A 004.986.35.37 HARTEP / F-GLOSS	0.49	kg	0.49	15.64 EUR	7.66	Reference Type
67 A 004.989.94.20 NAHTABDICHTUNG / D...	7.61	kg	7.61	1.86 EUR	14.18	Material
67 A 001.986.12.70 KONSERVIERUNGSMAT...	1.12	kg	1.12	5.04 EUR	5.64	Function Group
67 A 005.989.02.20 SCHALLDAEMMMASS...	2.37	kg	2.37	3.30 EUR	7.82	Price: 6.90 EUR 1 KG 0.45
67 A 013.989.17.05 KLEBERBAND	2.34	m	2.34	1.16 EUR	2.49	Material Number
67 A 504.700.00.01 DUMMY-SNR F- NACOS	0.001	PC	0.001	0.01 EUR	0.01	Reference Type
67 A 504.700.00.01 DUMMY-SNR F- NACOS	0.001	PC	0.001	0.01 EUR	0.01	Material
67 A 504.700.00.01 DUMMY-SNR F- NACOS	0.001	PC	0.001	0.01 EUR	0.01	Function Group
67 A 504.700.00.01 DUMMY-SNR F- NACOS	0.001	PC	0.001	0.01 EUR	0.01	Price: 6.90 EUR 1 KG 0.45
67 A 011.989.50.71 EIN-KOMPONENTE...	0.016	kg	0.016	13.80 EUR	0.23	Material Number
67 A 010.989.20.71 KLEBSTOFF / EFBOND...	0.002	kg	0.002	4.90 EUR	0.01	Reference Type
67 A 203.637.09.98 ABDICHTUNG	6	PC	6	17.40 EUR	100	Material
67 A 001.989.12.36 DRAHTELEKTRODE	0.015	m	0.015	16.13 EUR	0.24	Function Group
67 A 504.700.00.01 DUMMY-SNR F- NACOS	0.001	PC	0.001	0.01 EUR	0.01	Price: 6.90 EUR 1 KG 0.45
67 A 001.989.12.36 DRAHTELEKTRODE	0.072	m	0.072	16.13 EUR	1.16	Material Number
67 A 000.991.80.41 STANZNET	2	PC	2	0.01 EUR	0.06	Reference Type
67 A 013.989.50.71 EIN-KOMPONENTE...	0.193	kg	0.193	13.80 EUR	2.64	Material
67 A 008.989.39.71 ERWICKENPONENTE...	0.188	kg	0.188	5.66 EUR	1.03	Function Group
67 A 504.700.00.01 DUMMY-SNR F- NACOS	0.001	PC	0.001	0.01 EUR	0.01	Price: 6.90 EUR 1 KG 0.45
67 A 000.990.29.13 SCHWEISSSCHRAUBE	199	PC	199	0.73 EUR	145	Material Number
67 A 000.991.46.03 SCHWEISSBOLZEN	34	PC	34	0.04 EUR	1.41	Reference Type
67 A 000.991.66.03 SCHWEISSBOLZEN M...	29	PC	29	0.06 EUR	1.29	Material
67 A 000.991.47.03 SCHWEISSBOLZEN	23	PC	23	0.03 EUR	0.63	Function Group
67 A 000.991.30.03 SCHWEISSBOLZEN	59	PC	59	0.04 EUR	2.44	Price: 6.90 EUR 1 KG 0.45
67 A 000.991.32.03 SCHWEISSBOLZEN	33	PC	33	0.07 EUR	2.28	Material Number
67 A 000.991.01.03 SCHWEISSBOLZEN	6	PC	6	0.05 EUR	0.38	Reference Type
67 A 000.991.52.03 SCHWEISSBOLZEN M...	5	PC	5	0.28 EUR	1.38	Material

Motivation / Context

- Customers want to use machine learning capabilities to improve calculation accuracy and avoid inconsistent pricing in different calculation versions.

Highlights

- Find Materials, Components, Products or internal production processes which have been used in other calculations
- Get information on usage, plants, up to date price information
- Decide which item to be used in the recent calculation
- Leveraging SAP Machine Learning technologies

[YouTube Video](#)

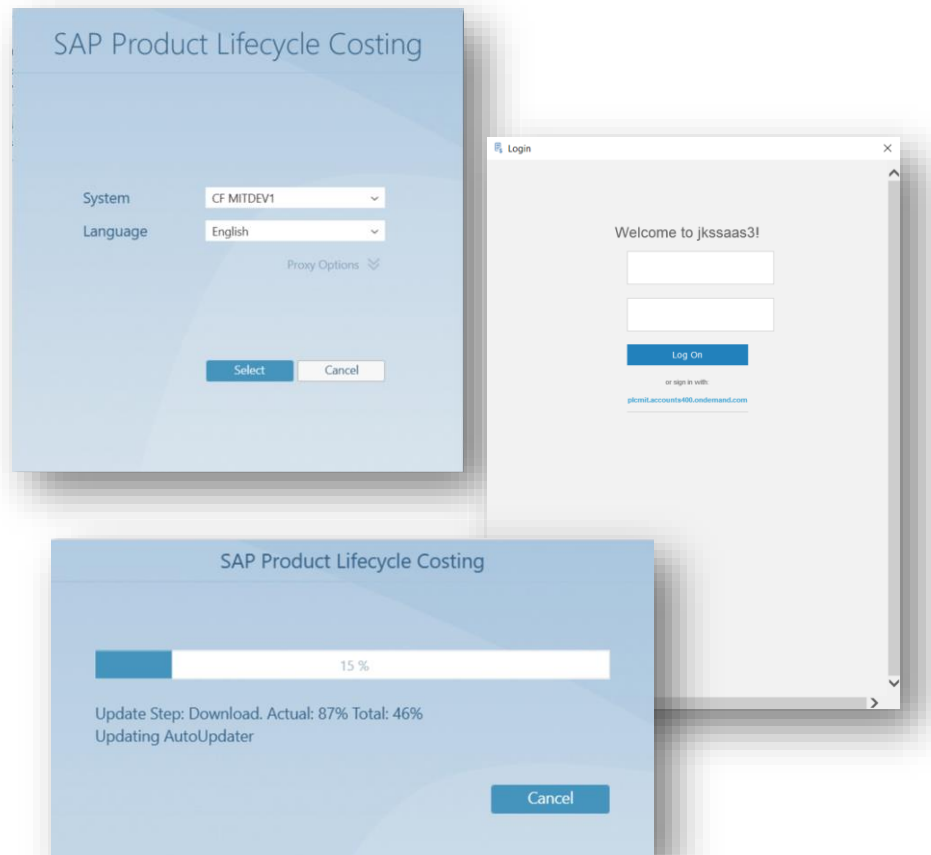
Recent Innovations – SAP Analytics Cloud for Management Reporting



- SAP Cloud Analytics is used to run analytics on PLC live data connection
- SAP Cloud Analytics is used for management reporting AND for detailed analysis
- It can be combined with other data sources and also LOB data based on the data views created
- Data sets can be customized and adjusted due to customer needs.

Recent Innovations – Auto-Updating Business Client

Automated frontend installation and upgrade process for better user experience



Motivation / Context

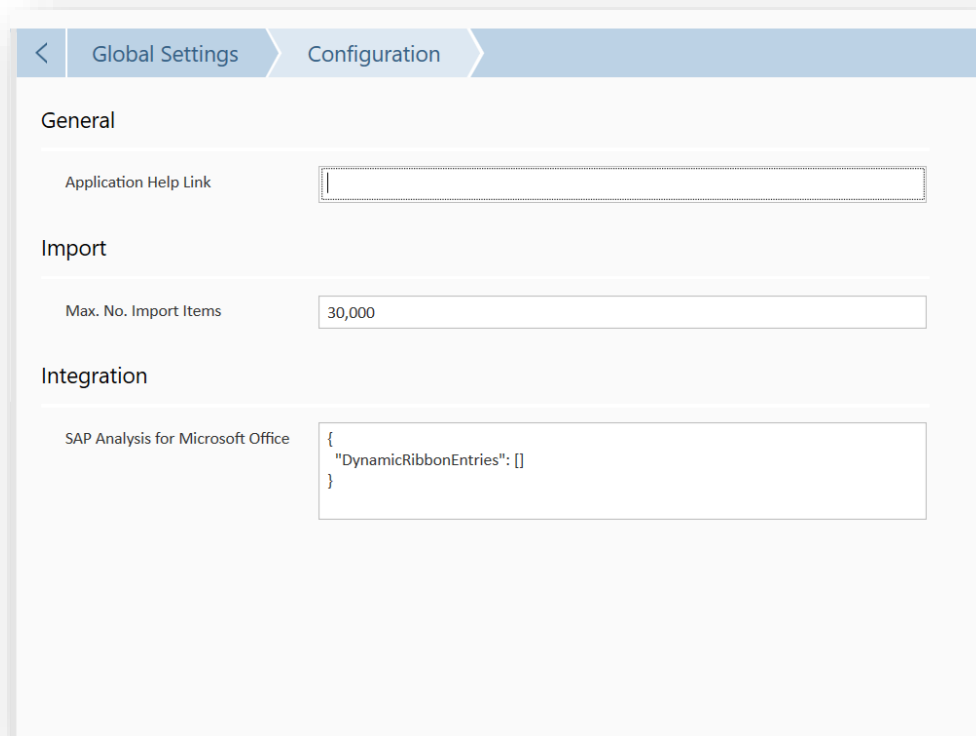
- The Cloud edition requires a fully automated frontend installation and upgrade process

Highlights

- Frontend auto-updates when new features/bug fixed become available
- The frontend installation is executed fully automated by using a newly introduced SAP PLC Installer
- SAP PLC frontend application can be started multiple times on one machine to connect to different SAP PLC systems

Recent Innovations – Maintain application settings in the Admin View

New entry in the Admin View to maintain application settings



The screenshot displays the SAP Admin View Configuration page. The breadcrumb navigation shows 'Global Settings' and 'Configuration'. The page is divided into three sections: General, Import, and Integration. The 'General' section contains an 'Application Help Link' field. The 'Import' section contains a 'Max. No. Import Items' field with the value '30,000'. The 'Integration' section contains a 'SAP Analysis for Microsoft Office' field with a JSON configuration:

```
{  "DynamicRibbonEntries": []}
```

Motivation / Context

- Easier maintenance of application settings

Highlights

- New configuration option in Administration View allows users to:
 - set a target link to the application's help functionality
 - change the default value for maximum number of imported items
 - maintain customer specific integration settings as for example SAP Business Objects Analysis for MS Office

Recent Innovations – Personal Data Handling

Deletion of Personal Data enabled

Customer

Customer

Items (3)

Table Name	Column Name	Number of Rows
t_calculation_version	CUSTOMER_ID	3
t_project	CUSTOMER_ID	1
t_customer	CUSTOMER_ID	1

User

Vendor

Project

Motivation / Context

- Enable companies to fulfill the legal DPP requirements defined by the European Union.

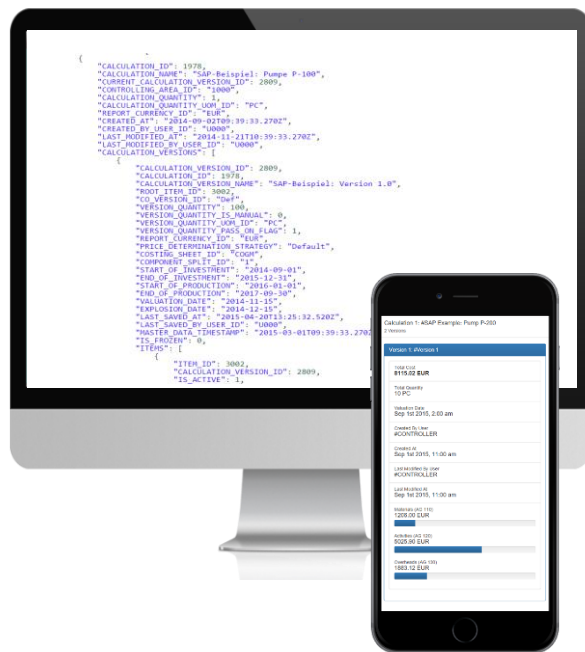
Highlights

- New User Interface to search for, download, and delete personal data used in SAP Product Lifecycle Costing
- In SAP PLC, personal data applies to user, customer, and vendor data

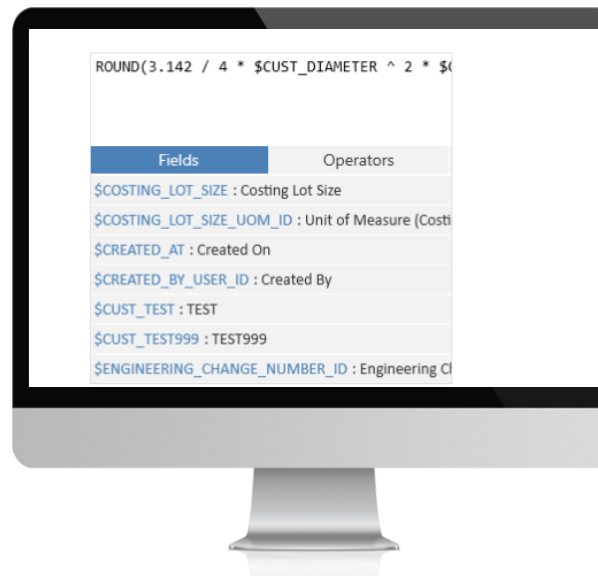
Extensibility options – Cloud Edition

SAP Product Lifecycle Costing is open for extensions by customers and partners to address custom use cases and enable integration with third-party systems while helping to ensure data integrity and security.

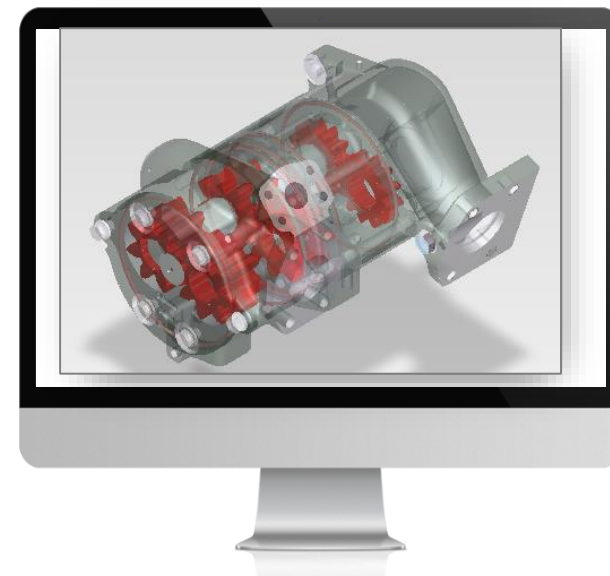
There are three technical options to extend SAP PLC cloud edition and integrate with external applications. Each option has different capabilities and enables different use cases.



Public back-end API

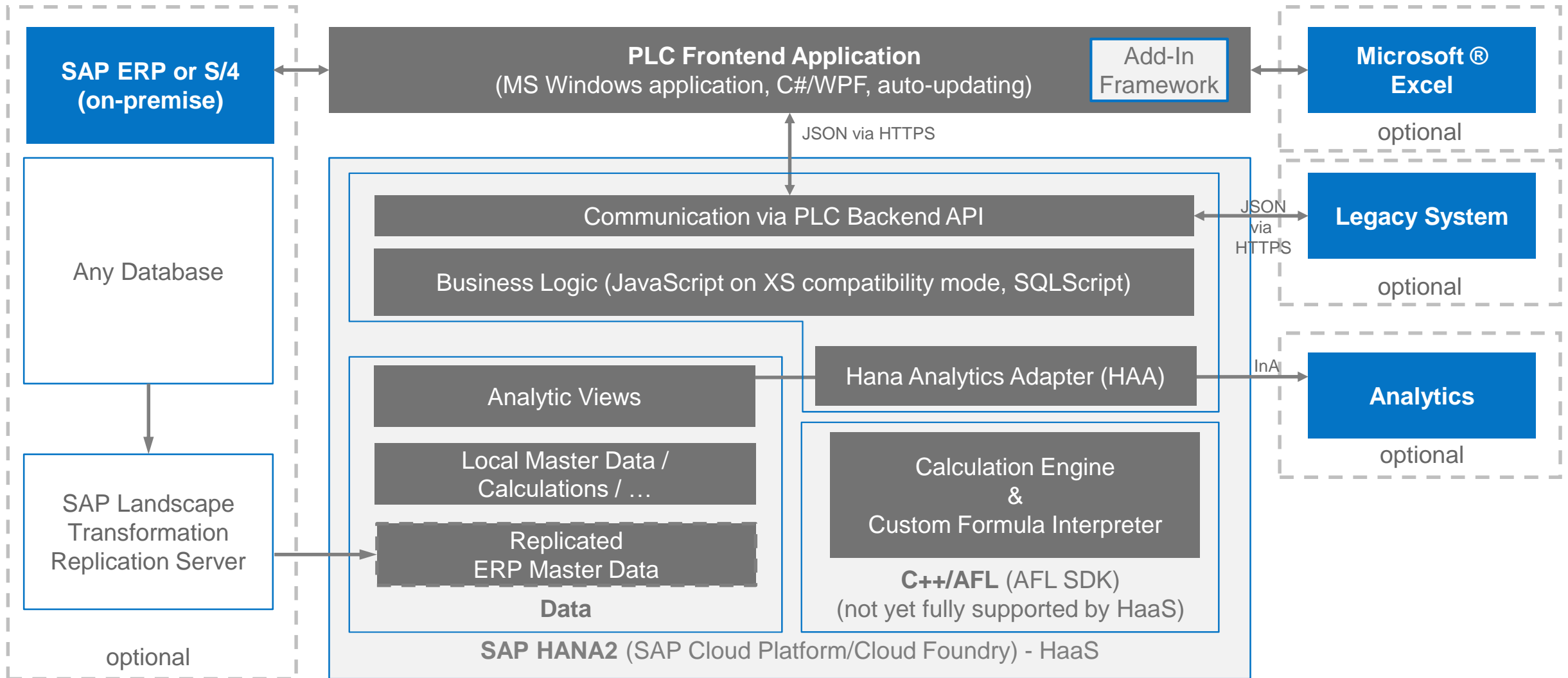


Custom fields and formulas



Front-end add-in framework

High-Level Architecture – Cloud Edition



On-Premise & Cloud, 2 Alternative Usage Options

Two **alternative deployment options** for SAP Product Lifecycle Costing

Criteria	On-Premise Release 4.0	Cloud Release 1903
Features	<ul style="list-style-type: none"> Version 4.0 	<ul style="list-style-type: none"> Same features as in Version 4.0
Cost	<ul style="list-style-type: none"> Pay associated hardware, energy and IT costs Hosted on customer's own servers Priced under a license fee 	<ul style="list-style-type: none"> Predictable costs over time No additional hardware investment Hosted on SAP's servers Priced under monthly or annual subscription
Security	<ul style="list-style-type: none"> Data security is handled by the customer 	<ul style="list-style-type: none"> Data security is handled by SAP; strict security standards
Implementation	<ul style="list-style-type: none"> The customer has control over the implementation process Implementation process can take longer 	<ul style="list-style-type: none"> Implementation process takes less time
Upgrade	<ul style="list-style-type: none"> The customer has complete control; it decides when to do an upgrade Upgrade process takes longer 	<ul style="list-style-type: none"> Continuous updates triggered by SAP

04

Live Demo



SAP Product Lifecycle Costing

My Home Cockpit Project Calculation Administration

New Close Save Cut Copy Paste Set Price Add Delete Update Import Freeze

Costing Structure	Quantity	UoM	Total Quantity	UoM	Total Cost	Re- portin...	Price (Fixed)	Price (Variable)	Price	Key Figures
#SAP Example: Pump P-100 #Version 1 #P-100	10	PC	10	PC	8,115.02	EUR	272.61	465.12	737.7	Total Cost 8,115.02 EUR
#CC1 #AT2 pick according to pick list (labor)	100	min	100	min	360.00	EUR	60.00	120.00	180.0	Total Quantity 10 PC
#BP2 Sales order processing	1	PC	1	PC	0.00	EUR	0.00	0.00	0.0	Version Header Data
#PT1 #100-100 Casing	1	PC	10	PC	4,551.20	EUR	165.12	290.00	455.1	Item Details
#PT1 #100-110 Slug for casing	1	PC	10	PC	110.00	EUR	0.00	10.00	10.0	Costing Sheet
#BP1 Plan work	0.1	PC	1	PC	0.00	EUR	0.00	0.00	0.0	Cost Component Split
#CC1 #AT1 turn casing according...	10	min	10	min	24.00	EUR	120.00	0.00	120.0	Image
#CC1 #AT2 turn casing according...	30	min	300	min	1,080.00	EUR	60.00	120.00	180.0	#P-100 - Drive
#CC1 #AT3 turn casing according...	30	min	300	min	1,080.00	EUR	120.00	60.00	180.0	
#CC1 #AT1 drill holes (setup)	3	min	3	min	7.20	EUR	120.00	0.00	120.0	
#CC1 #AT2 drill holes (labor)	10	min	100	min	360.00	EUR	60.00	120.00	180.0	
#CC1 #AT3 drill holes (machine)	10	min	100	min	360.00	EUR	120.00	60.00	180.0	
#PT1 #100-120 Flat seal	1	PC	10	PC	110.00	EUR	0.00	10.00	10.0	
#CC1 #AT2 insert flat seal (labor)	5	min	50	min	180.00	EUR	60.00	120.00	180.0	
#PT1 #100-130 Hexagon screw M10	8	PC	80	PC	880.00	EUR	0.00	10.00	10.0	
#CC1 #AT2 inspect and deliver to stora...	10	min	100	min	360.00	EUR	60.00	120.00	180.0	
#PT1 #100-200 Drive	1	PC	10	PC	2,250.40	EUR	84.24	140.80	225.0	
#PT1 #100-210 Slug for impeller	1	PC	10	PC	220.00	EUR	0.00	20.00	20.0	
#BP1 Plan work	0.1	PC	1	PC	0.00	EUR	0.00	0.00	0.0	
#CC1 #AT2 pick according to pick li...	20	min	200	min	720.00	EUR	60.00	120.00	180.0	
#CC1 #AT1 clamp impeller (setup)	3	min	3	min	7.20	EUR	120.00	0.00	120.0	
#CC1 #AT2 turn impeller according...	10	min	100	min	360.00	EUR	60.00	120.00	180.0	
#CC1 #AT3 turn impeller according...	10	min	100	min	360.00	EUR	120.00	60.00	180.0	
#CC1 #AT1 balance impeller (setup)	3	min	3	min	7.20	EUR	120.00	0.00	120.0	
#CC1 #AT2 balance impeller (labor)	3	min	30	min	108.00	EUR	60.00	120.00	180.0	
#CC1 #AT3 balance impeller (machine)	3	min	30	min	108.00	EUR	120.00	60.00	180.0	
#CC1 #AT2 inspect and deliver to stora...	10	min	100	min	360.00	EUR	60.00	120.00	180.0	
#PT2 #100-300 Shaft	1	PC	10	PC	215.69	EUR	10.22	9.38	19.6	
#PT2 #100-310 Slug for impeller	1	PC	10	PC	6.60	EUR	0.00	6.00	6.0	
#BP1 Plan work	0.1	PC	1	PC	0.00	EUR	0.00	0.00	0.0	
#CC3 #AT1 cut slug for shaft (setup)	10	min	10	min	0.84	EUR	36.00	6.00	42.0	
#CC3 #AT2 cut slug for shaft (labor)	10	min	100	min	10.80	EUR	18.00	36.00	54.0	

Analytics 100%

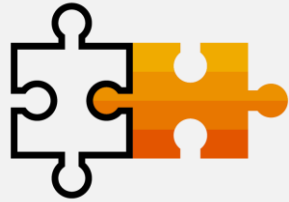


05



Summary and Roadmap

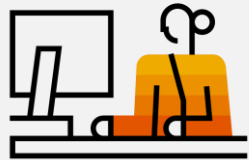
SAP Product Lifecycle Costing offers



Straightforward **integration** with SAP and third-party applications



High **performance**



Extensibility that is made for customers and is easy to apply



First-class **user experience**



openSAP Course – Freedom to Calculate with SAP Product Lifecycle Costing

The screenshot shows the openSAP course interface. At the top, there's a navigation bar with 'openSAP' logo, 'Channels', 'Courses' (selected), 'Podcasts', and 'News'. A user profile 'Hello ik' is visible in the top right. Below the navigation, the course title 'Freedom to Calculate with SAP Product Lifecycle Costing' is displayed, followed by the names of the course authors: Petra Koepfer-Behncke, Daniel Oberle, Katarzyna Maciak, Ulf Petzel, Felix Reichle, Sebastian Schenk, Marion Heidenreich, and Bastian Grossmann. A 'Course Administration' dropdown menu is present. A yellow badge indicates it's a 'Self-paced course'. A secondary navigation bar includes 'Learnings', 'Discussions', 'Progress', 'Collab Space', 'Course Details' (selected), and 'Announcements'. The main content area features a video player with a thumbnail of a woman in a red jacket and a yellow graphic that says 'Enjoy! Good luck! Freedom to calculate with SAP Product Lifecycle Costing See you soon!'. To the right of the video are social sharing buttons for Facebook, Twitter, LinkedIn, and Email. Below these is a description: 'Join this free online course to learn the essentials of SAP Product Lifecycle Costing including use cases, all capabilities, brand new features, business processes, and best practices on implementation. SAP Product Lifecycle Costing allows you to simulate your future product costs at an early stage, enabling you to optimize your mid-term financial planning and supply chain.' Further down, course details are listed: 'Self-paced', 'Language: English', and 'Subtitles (machine-translated): German, French, Spanish'. At the bottom of the course details, there are buttons for 'Enter course', 'Un-enroll', and 'Reactivate for Record of Achievement'.

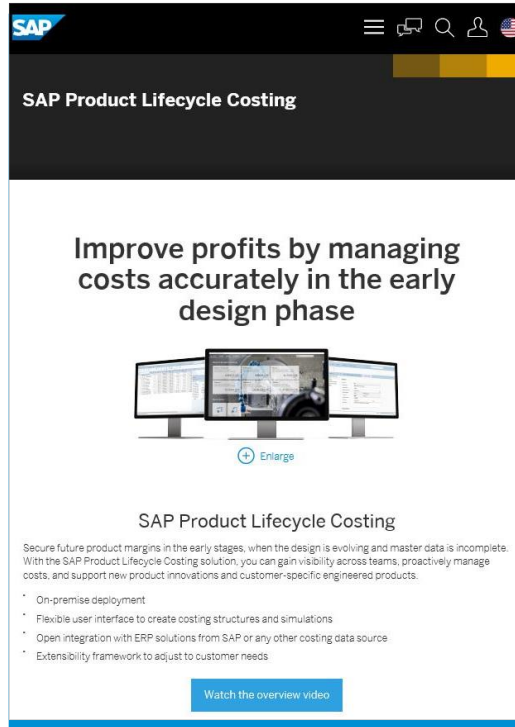
This course was held from Sep 04, 2018 through Oct 10, 2018.

6460 learners enrolled.

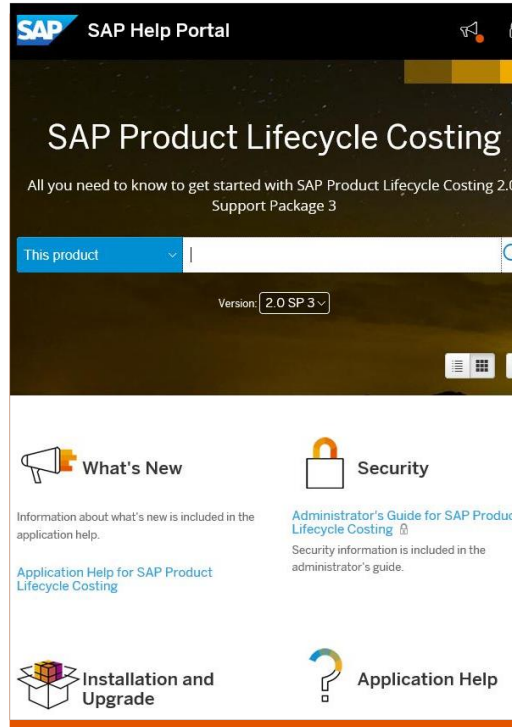


Here the direct [link](#) to the training.

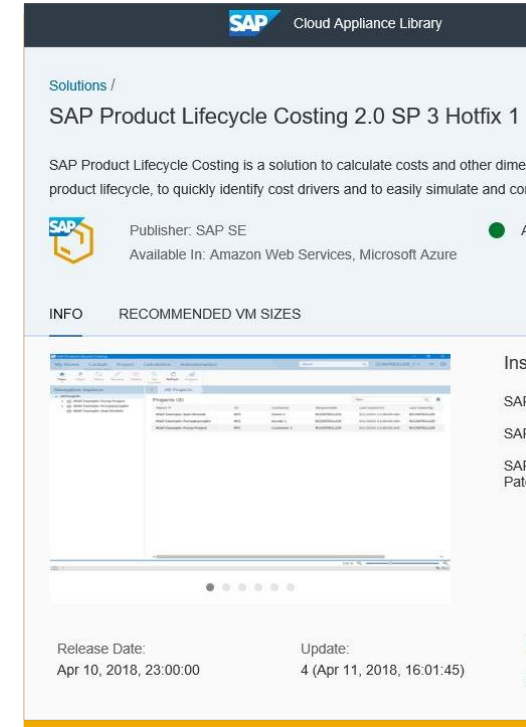
Further Information



[SAP Web Site](#)

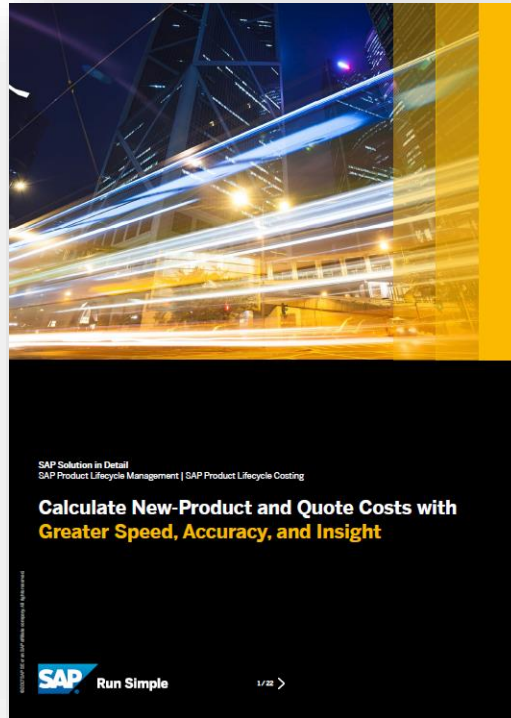


[SAP Help Portal](#)

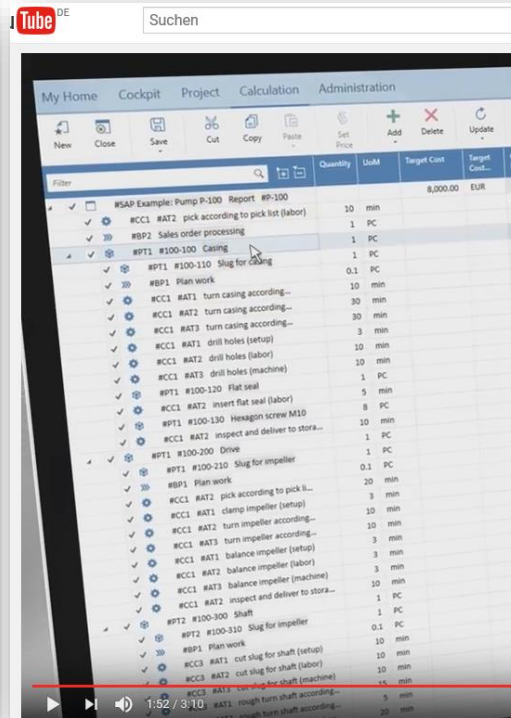


[SAP Cloud Appliance Library](#)

Key Assets



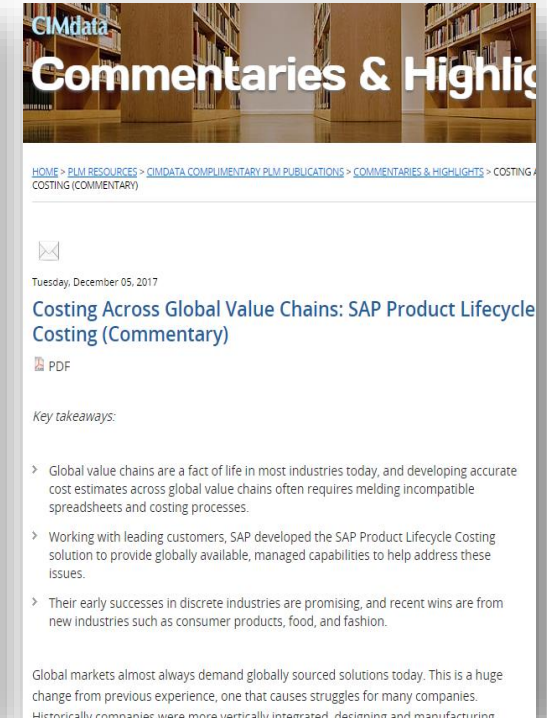
[Solution in Detail Brochure](#)



- [Overview Video](#)
- [Machine Learning Video](#)



[Compendium Flipbook](#)



[CIMdata Commentary](#)

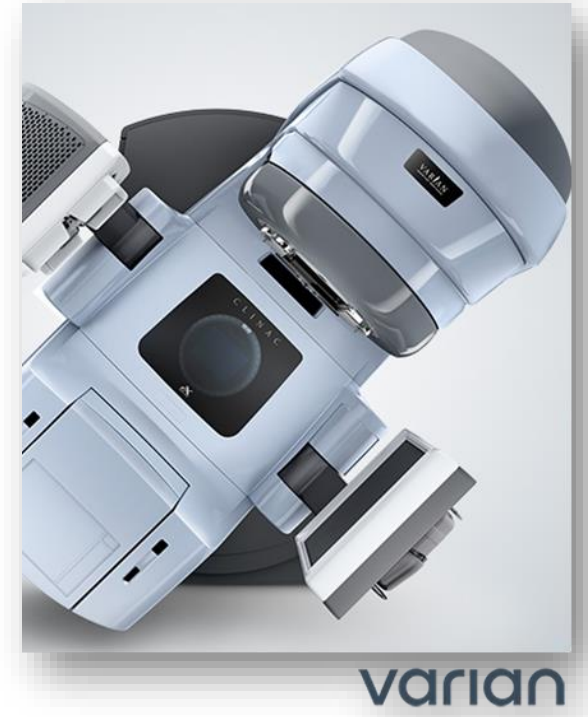
Customer References



[Bühler Group](#)



[AGCO](#)



[Varian Medical Systems](#)

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Presentation Materials

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