



SAP Analytics Cloud

[Session A1]

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Zürich, 10. September 2019



Einführung SAP Analytics Cloud



Was ist SAC?

SAP Analytics Cloud is a single cloud solution for Business Intelligence and organizational planning, enhanced with the power of predictive analytics and machine learning technology.

Was kann SAC?

SAP Analytics Cloud brings together data access, wrangling, discovery, visualization, analysis, prediction, forecasting, planning & what-if, all augmented by AI and Machine Learning.

Feature-Übersicht

- › Webbasiert – Fiori Style – HTML5
- › Optimierte für Google Chrome Desktop (Limitierte Funktionalität in IE11, Edge, Firefox und mobile Browser)
- › Release Zyklus bis Ende 2018 alle 14 Tage, jetzt Quartalsweise (ausser Fasttrack/Preview)
- › Mobile: SAC-App auf iOS
- › Modellierung – Visualisierung – Administration – Kollaboration – alles in einem Tool
- › Office-Integration: Analysis for Office
- › Blogs, Guided Playlists, Videos, Webinars, Release Notes – alles öffentlich zugänglich
- › Improvement Requests

Datenquellen

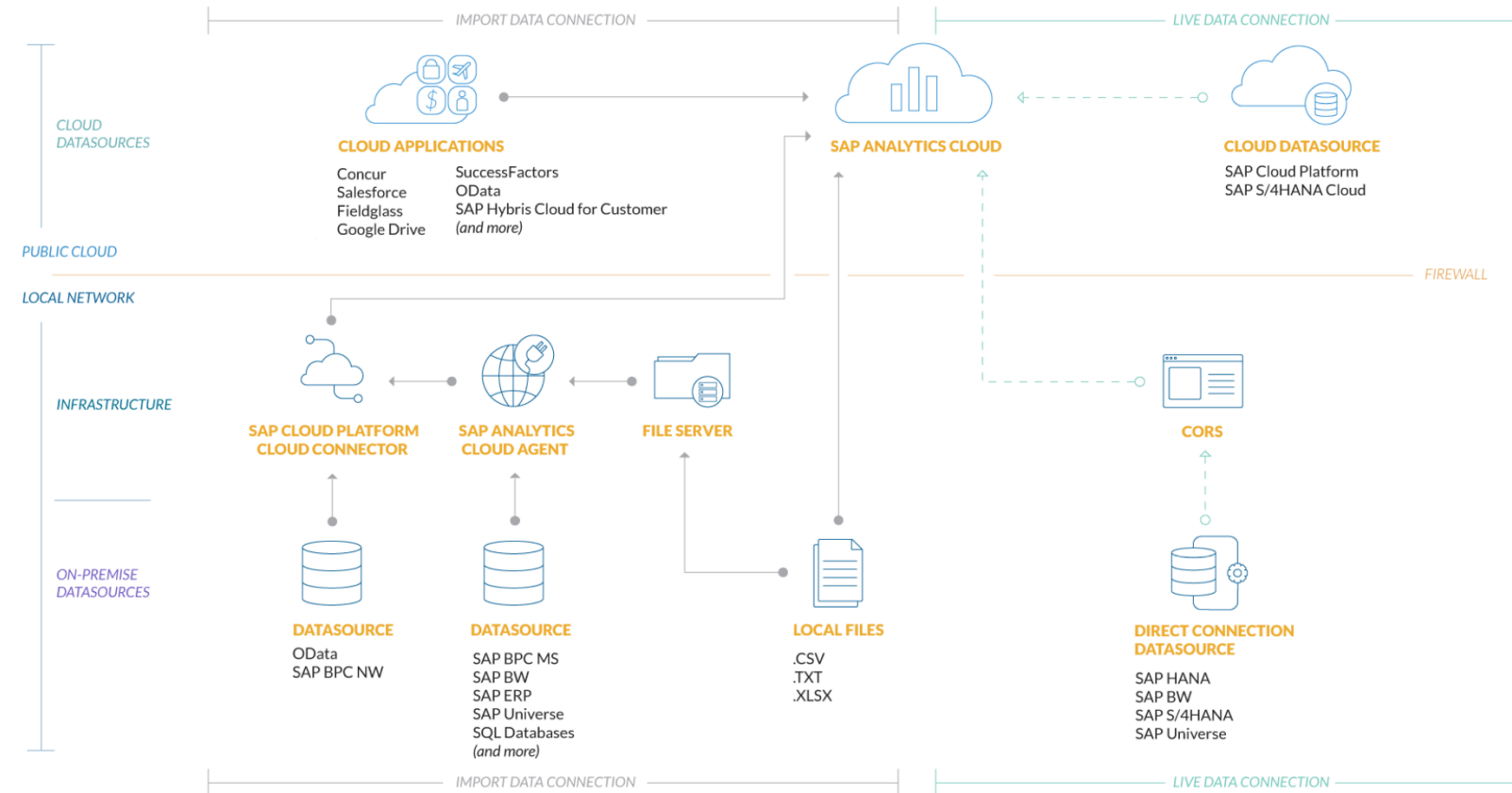


Connections

- Import Data Connection
 - Für Cloud- und OnPremise-Daten
 - Datenreplikation in SAC
 - Neue Datenmodelle mit SAC erstellen
 - Zeitgesteuerter Datenimport

- Live Data Connection
 - Für Cloud- und OnPremis-Daten
 - Keine Datenreplikation in SAC
 - Verwendung der bestehenden Datenmodelle / Query-Editor
 - Real-Time Refresh der Daten in Stories

SAP Analytics Cloud Data Connections Environment



Modellierung



Modellierung in der Cloud

- 2 Modelltypen:

- Analytisches Modell → Standard für BI
- Planungsmodell → Für Planungsprozesse / Forecasting / Budgetierung

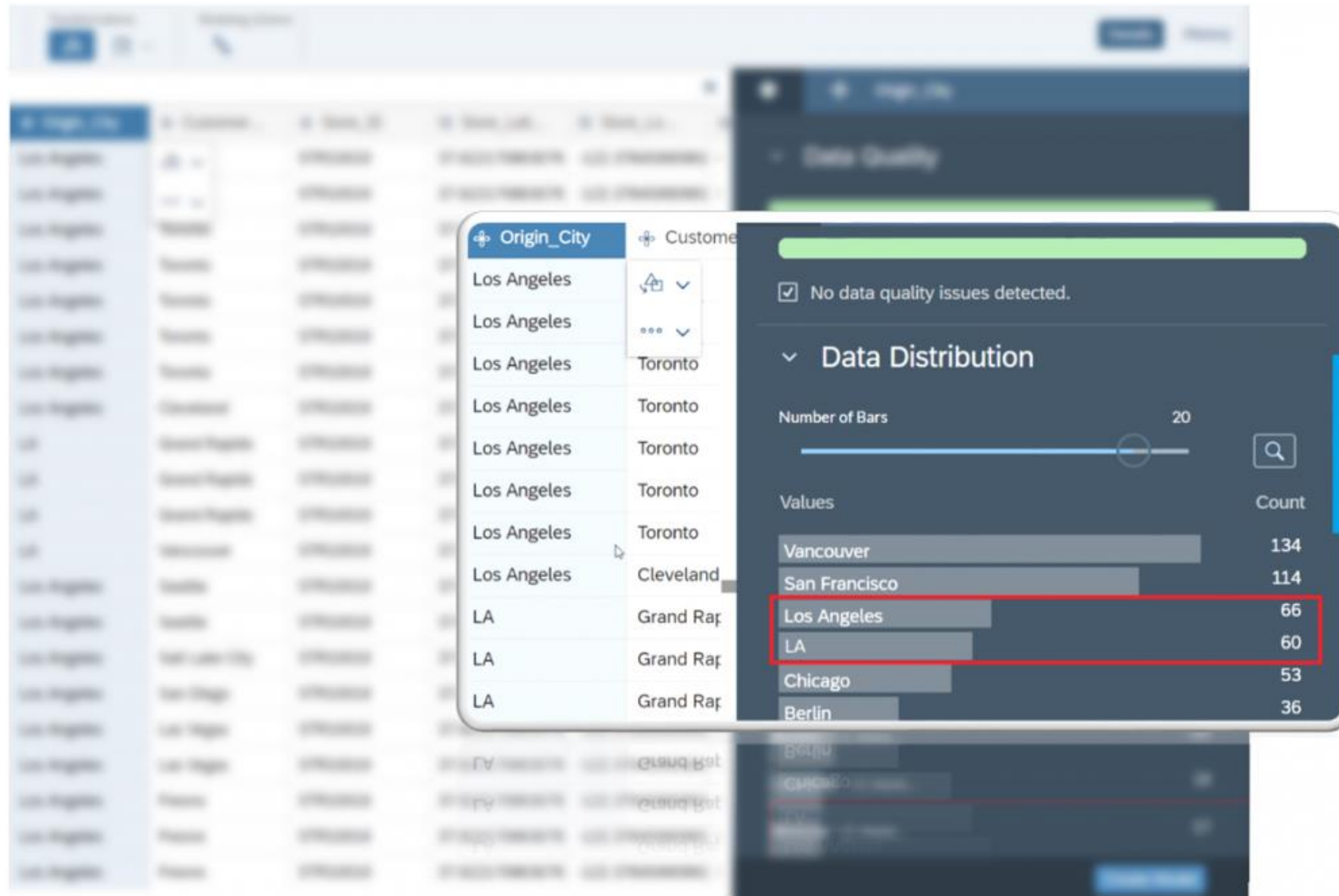
- Datenquellen

- Ohne → Blank model
- Datasource → Live Data Connection / Import Data Connection (SAP ERP / Universe / SQL DB)
- File-Import → XLS(X), CSV
- App → Odata, Google Drive, Salesforce

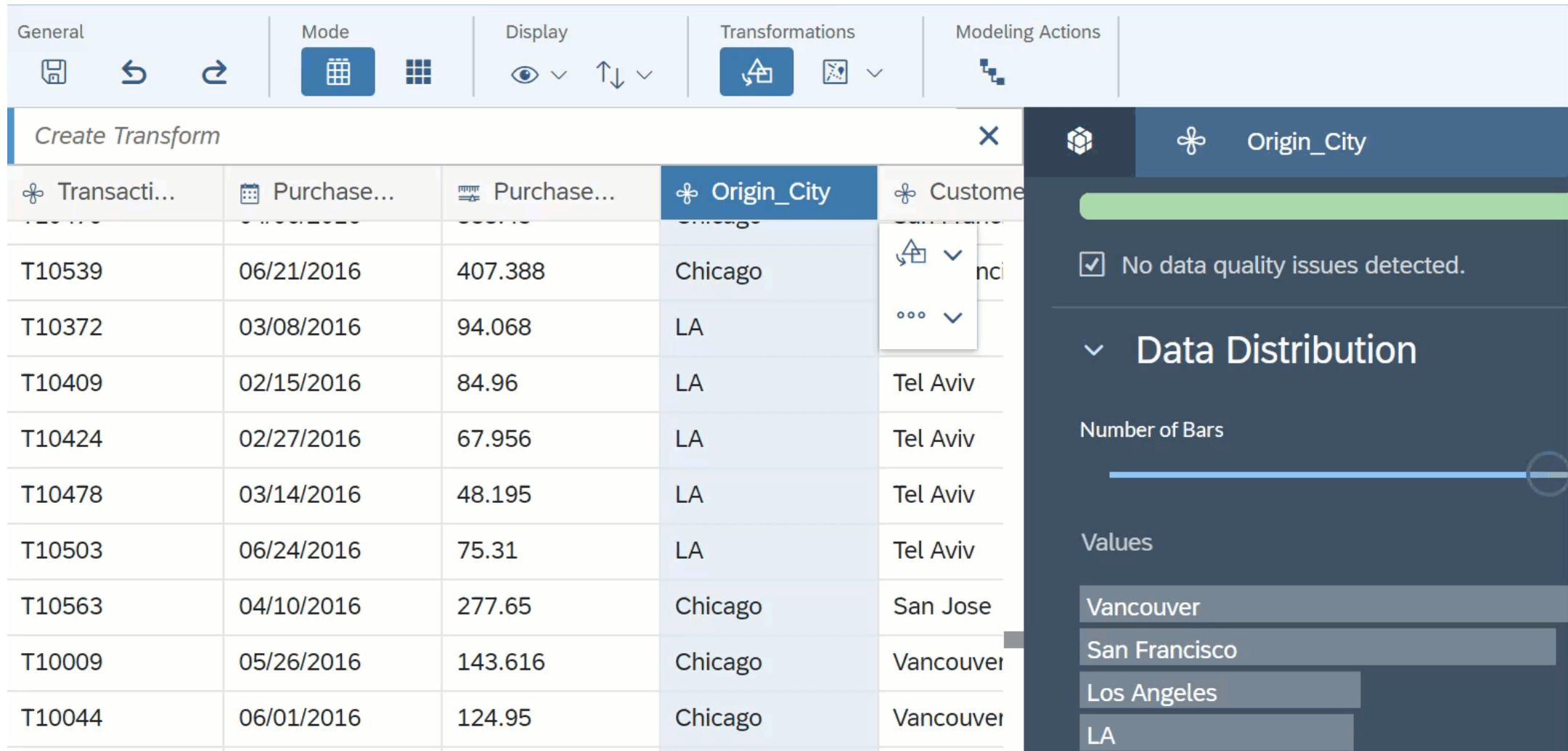
Data Wrangling / Data Integration / Data Preparation

- Nur für Import-Daten-Modelle
- Vorstufe zum Modell
- Einsicht in ein erstes Data-Sample
- Data Quality-Issues werden aufgezeigt
- Spalten-Typ Änderung möglich (Measure, Dimension, Time, Account, Organisation, Version, Location)
- Hinzufügen von Attributen (aus anderen Spalten) möglich
- Smart-Transformation-Features:
 - Konkatenieren
 - Split
 - Konvertierung (uppercase / lowercase)
 - Ersetzen
 - Ändern
- Log-File über alle gemachten Änderungen – jede Änderung kann rückgängig gemacht werden



















Data Wrangling - Dateninformationen



Data Wrangling - Suchen / Ersetzen / Konkatenieren



Data Wrangling - Spalten aufteilen

General		Mode	Display	Transformations	Modeling
  		 	   	  	
Create Transform 					
	Date	State	Product C...	Sales Ma...	Qu
996	05/24/2016	Portland, Oregon	Alcohol	James Frank	250
994	02/21/2015	   	Juices	Gabriel Walton	2200
988	01/28/2016	Portland, Oregon	Carbonated Drinks	Ed Young	450
987	04/11/2016	Portland, Oregon	Juices	Lois Wood	3700
985	05/20/2016	Portland, Oregon	Alcohol	James Frank	250
981	01/16/2016	Portland, Oregon	Juices	Nancy Miller	50
972	11/03/2015	Portland, Oregon	Juices	David Carl	100
971	10/24/2015	Portland, Oregon	Juices	Janet Bury	250

Modellierung

› Dimensionen

- › Hierarchien
- › Neue Dimensionen
- › Attribute ergänzen
- › Daten per Copy-Paste aus Excel ergänzen

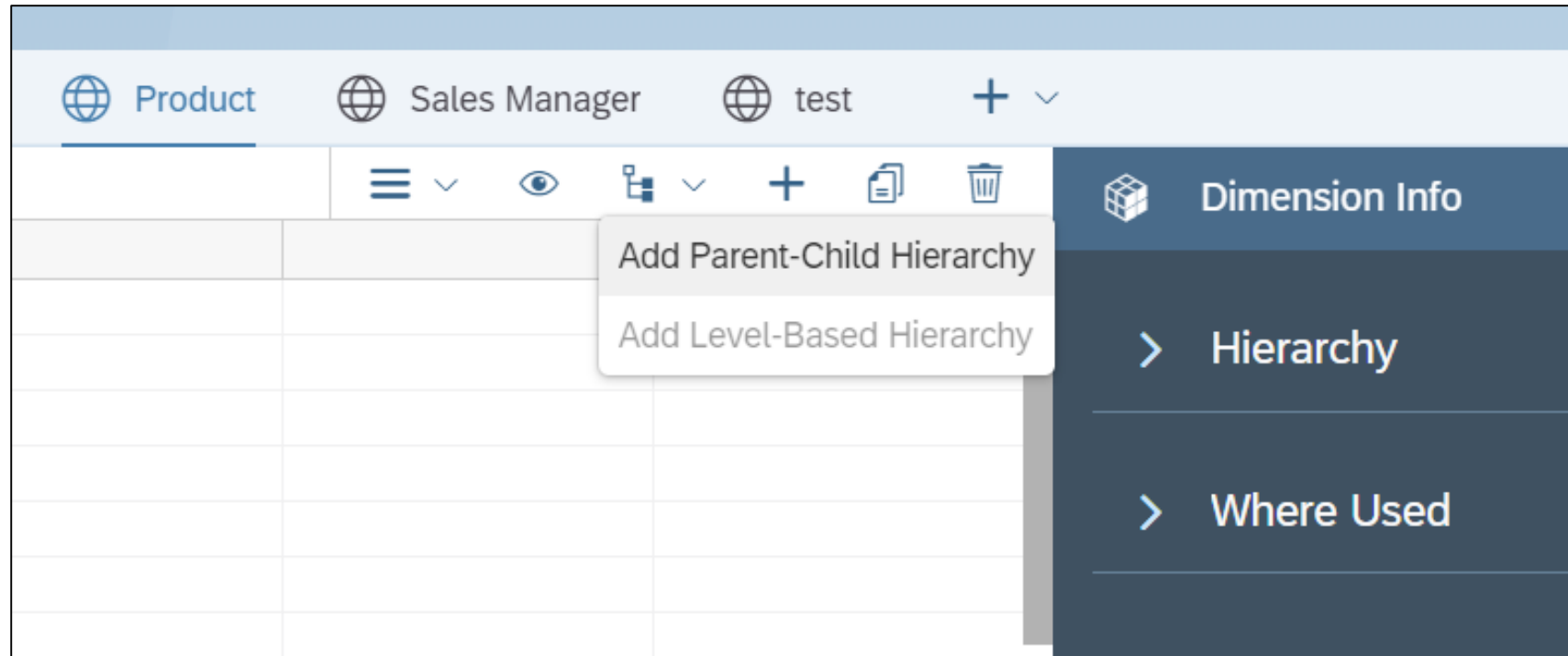
› Measures

- › Aggregationslevel ändern
- › Einheiten und Währungen definieren
- › Calculated Measures mittels Formel-Editor hinzufügen

Modellierung - Einheiten und Währungen

Datasources							Time	Account	Store ID	Location	Product	S
Currency							Search ...					
	ID	Description	Account Type	Hierarchy	Units & Currencies		Aggregation T...					
1	Discount_d03e2f76a856...	Discount			Currency							
2	Gross_Margin_d03e2f76...	Gross Margin			Currency							
3	Original_Sales_Price_d0...	Original Sales Price			Currency							
4	Price_fixed_d03e2f76a8...	Price (fixed)			Currency							
5	Quantity_sold_d03e2f76...	Quantity sold			Currency							
6	Revenue	Revenue			Currency							
7												
8					%							
9					Currency							
10												

Hierarchien



Formeln

The screenshot displays a software interface with a top navigation bar containing tabs: Datasources, Time, Category, Account, State, Product Category Desc..., and Sales Ma. Below the navigation bar is a search bar with the text "Please enter your formula here. Press CTRL + Space to show a list". A list of formulas is shown on the left, with "CAGR" selected at row 1. The right pane provides details for the CAGR function, including its description, syntax, example, remarks, and the mathematical formula.

CAGR
Business

Calculates the **Compound Annual Growth Rate** of an account for a given period.

Syntax

CAGR (Account , Start Year , End Year)

Example

CAGR ([NetRevenue] , "2014" , "2016")

Returns the **Compound Annual Growth Rate** of the account **NetRevenue** over the two-year period spanning the **end of 2014** to the **end of 2016**.

Remarks

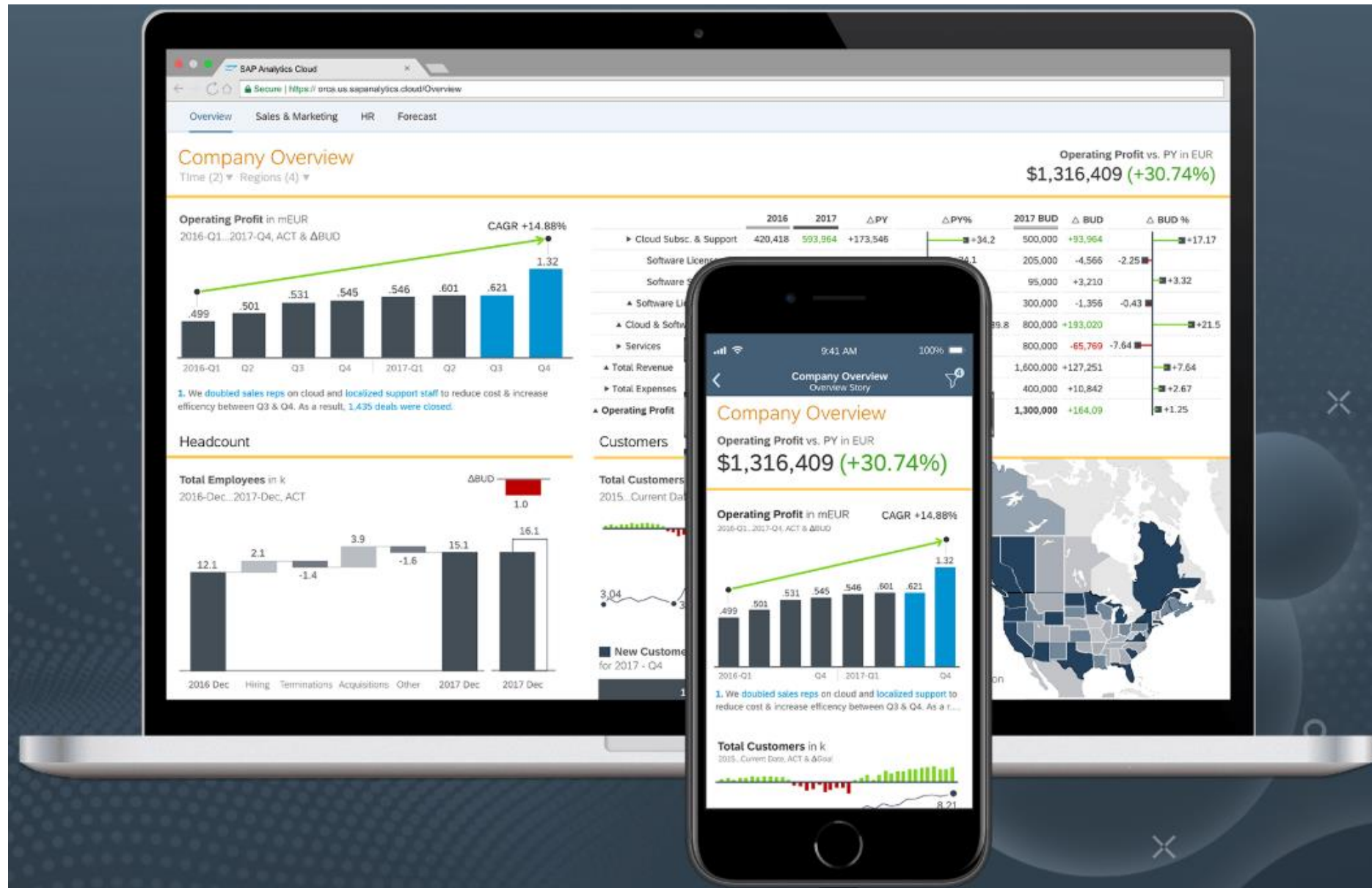
The parameter **Start Year** must be smaller than or equal to the **End Year**.

Function

$$\text{CAGR} = \left(\frac{\text{Ending Value}}{\text{Beginning Value}} \right)^{\left(\frac{1}{\text{Number of years}} \right)} - 1$$

Visualisierung





Templates

Choose how you'd like to start your story.

Custom Templates



JF Technologies 2.0 Ewan Temp...



TechED 2017

SAP Analytics Templates



Boardroom



Presentation - Responsive



Report



Dashboard



Report (A4)



Present



Access & Explore Data

Bring in data from CSV, Excel, and other datasources to explore and create visualizations.



Add a Canvas Page

Create pixel perfect reports or presentations.



Add a Responsive Page

Create flexible dashboards that can be presented on any device or screen size.



Add a Grid Page

A traditional spreadsheet page giving you the full look of your data.

Data exploration

Your system has been updated. [See what's new.](#)

Stories > New Document(1)*

021

Designer

Data View

File Data View

Best_Run_Sales

+ New Smart Discovery

Measures	Date	Location	Product	Sales Manager	Store ID
Quantity sold	► (all)	► California	► Alcoholic Drinks	David Carl	ST1
Gross Margin		► Nevada	► Carbonated Drinks	Ed Young	ST10
Discount		► Oregon	► Fruit Juice	Gabriel Walton	ST100
Original Sales Price			► Other Drinks	Gary Dumin	ST101
Price (Euro)					ST102

22 Numeric Point (Auto Suggested)

Title

Subtitle

More measures required to build a Numeric Point chart

Grid-Page

Files / MyFirstStory*

Story Data

File

Insert

Data

Display

More

Overview Page 1

T	A	B	C	D	E	F	G	H	I	J
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										

Canvas

The screenshot displays the SAP Analytics Cloud Canvas interface. At the top, a navigation bar shows a menu icon, a user profile, and the text 'Files / MyFirstStory*'. Below this is a toolbar with tabs for 'Story' and 'Data', and various icons for file operations, insertion, data manipulation, formatting, and display. The main workspace is divided into two panels. The left panel contains a text block explaining the Canvas and an 'Add data' button. The right panel, titled 'Add an object to the canvas.', lists six object types: Chart, Table, Shape, Geo Map, Image, and Text, each with a corresponding icon in a circular button.

Files / MyFirstStory*

Story Data

File

Insert

Data

Format

Display

More

Overview Page 1 Page 2

The Canvas is a flexible space that allows data exploration and presentation.

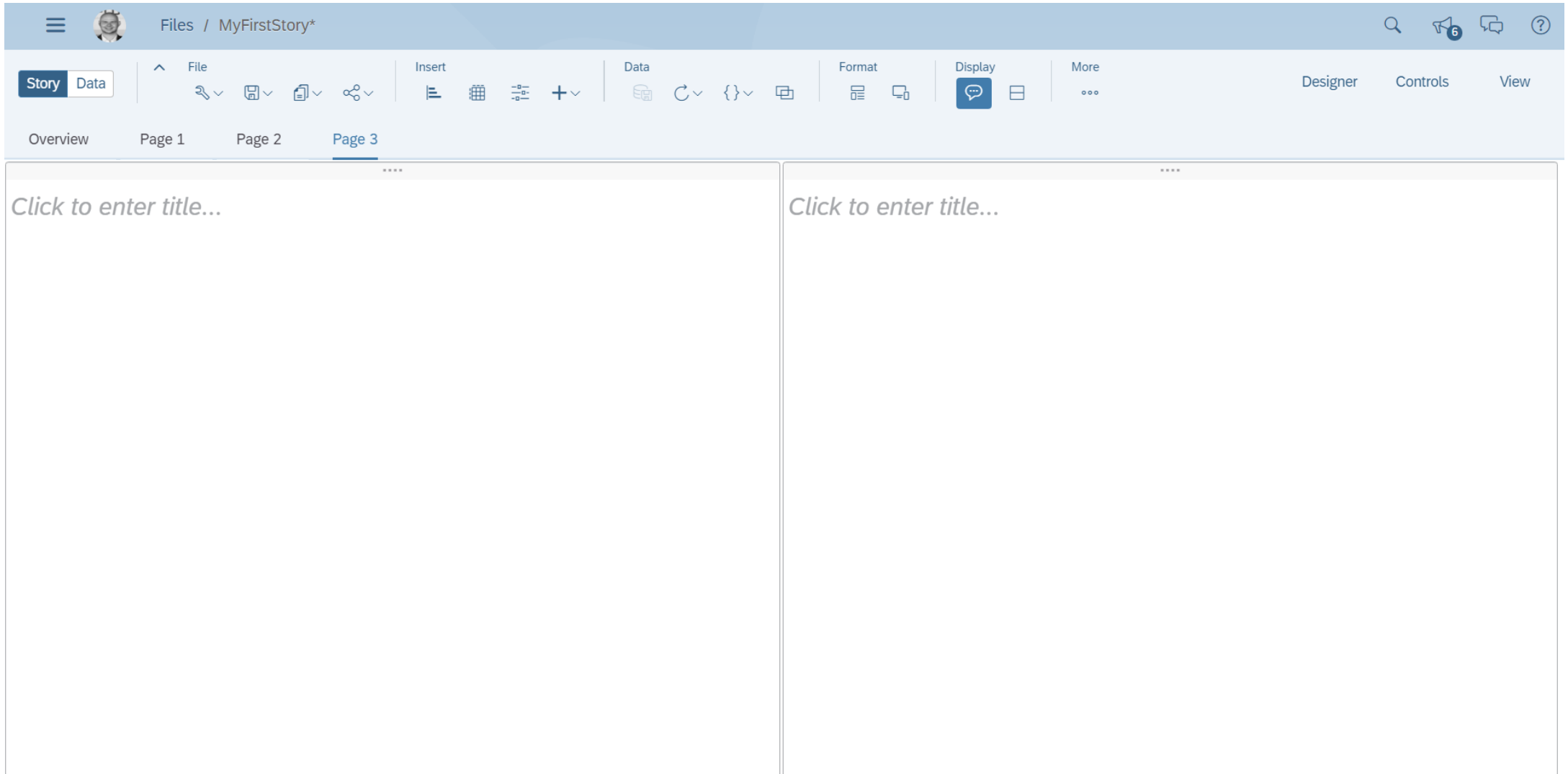
One way to begin is by adding data. You can also add pictures, text, and tables.

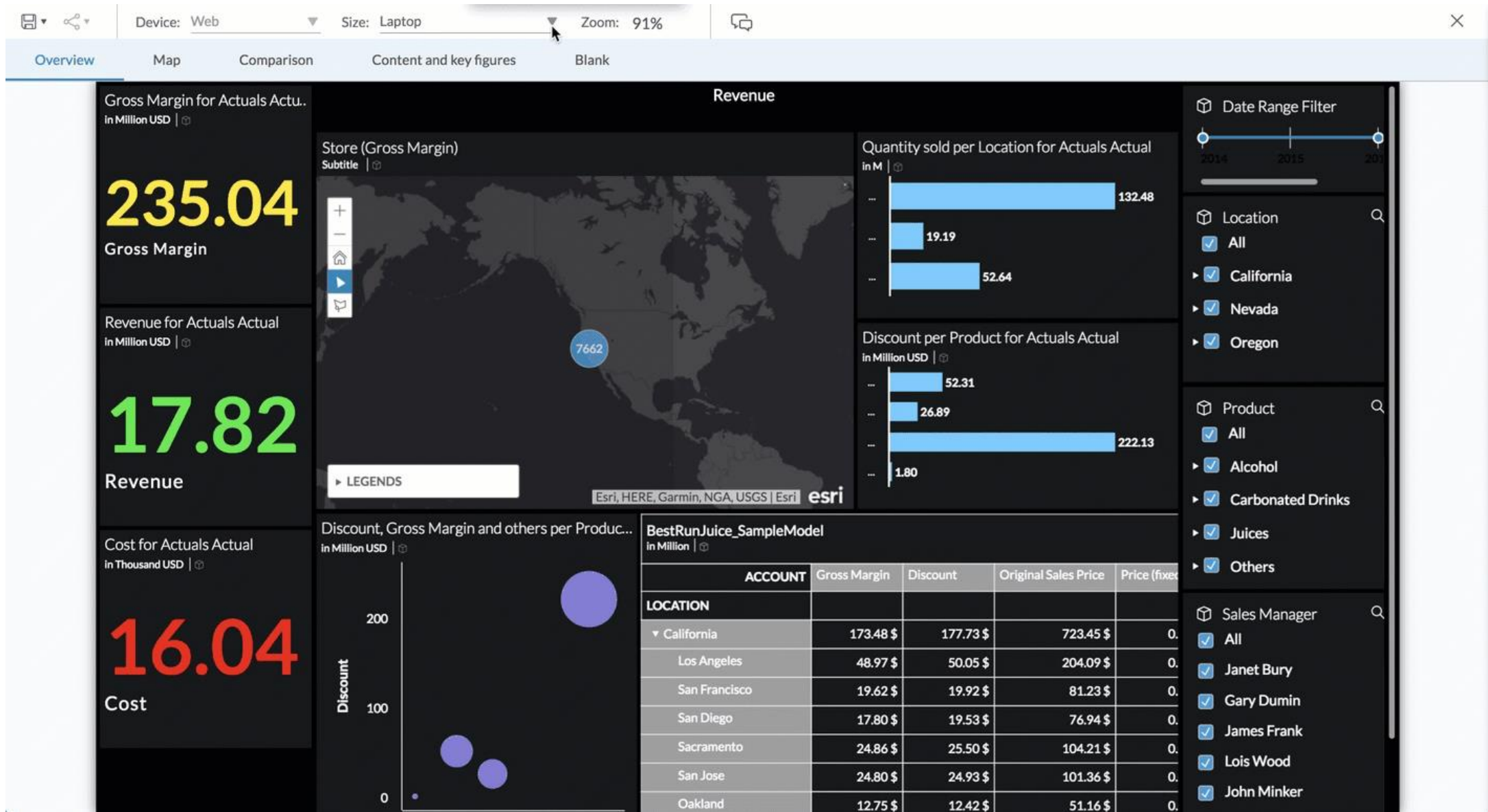
→] Add data

Add an object to the canvas.

- Chart
- Table
- Shape
- Geo Map
- Image
- Text

Responsive





Visualisierungsmöglichkeiten

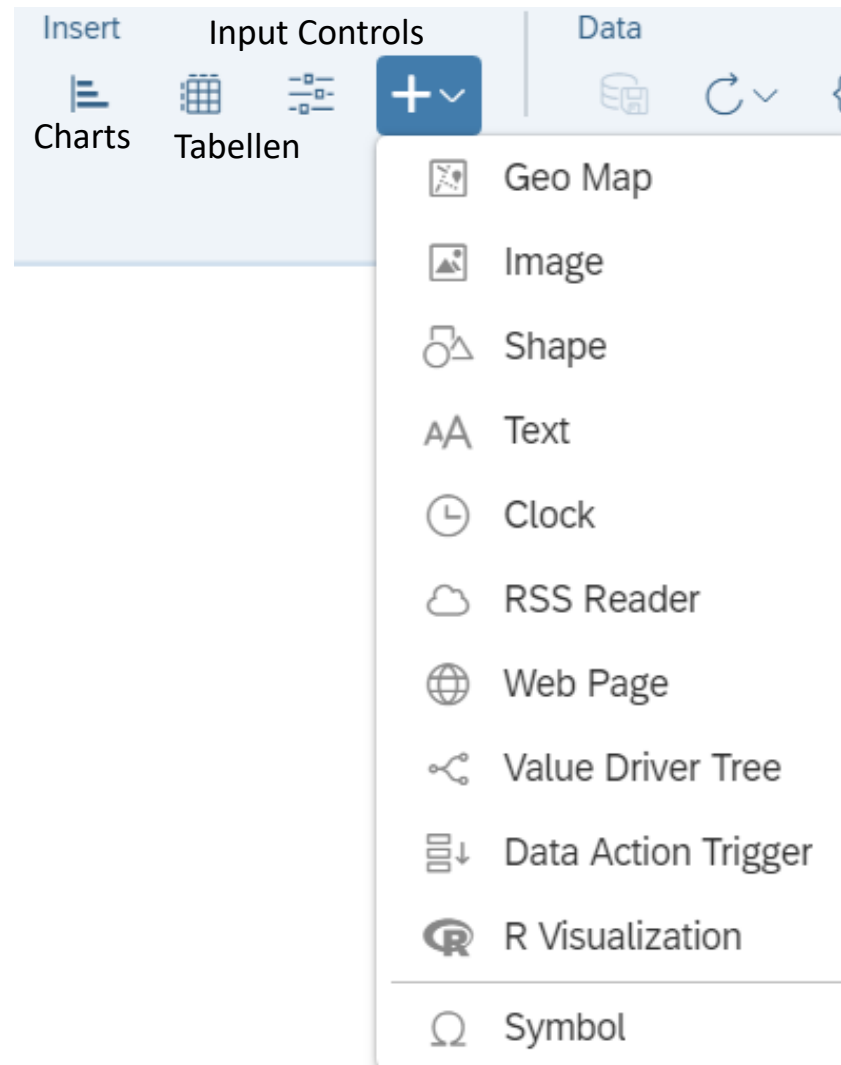


Diagramme - Typen

- › Säulen / Balkendiagramm
- › Stapelsäulen- / -balkendiagramm
- › Kombiniertes Säulen- und Liniendiagramm
- › Kombiniertes Stapelsäulen- und Liniendiagramm
- › Wasserfalldiagramm
- › Flächendiagramm
- › Liniendiagramm
- › Trend-Analyse-Diagramm
- › Kuchendiagramm
- › Donut Diagramm
- › Bullet Diagramm
- › Heat Map
- › Histogramm
- › Radar-Diagramm
- › Tree Map
- › Schlagwortwolke
- › Boxplot-Diagramm
- › Blasendiagramm
- › Geclustertes Blasendiagramm
- › Streudiagramm
- › Marimekko-Diagramm

Tabellen - Features

- › Out-of-the-box IBCS style
- › In-Cell-Charts (Standard oder IBCS-Style)
- › Berechnete Spalten
- › Individuelle bedingte Formatierung
- › Hierarchien erweitern und reduzieren

IBCS

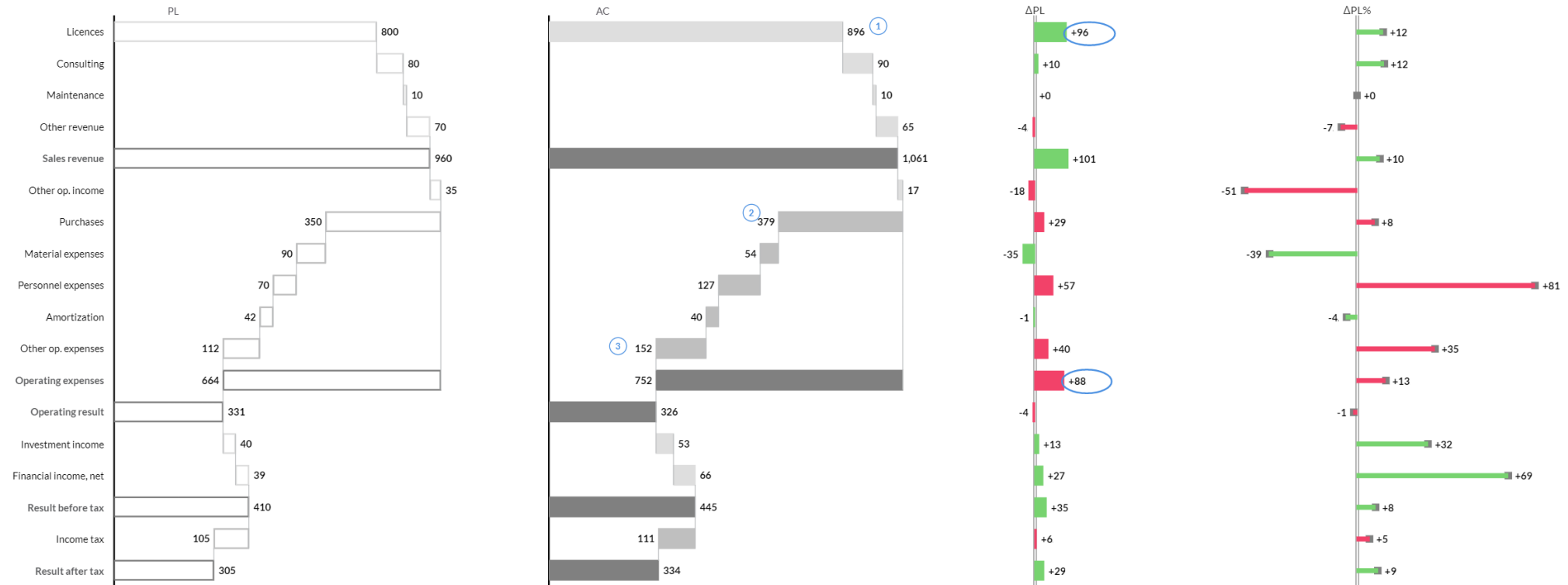


SAP® Analytics Cloud



by **BARC**

SAP
SAP Analytics Cloud
2017 | 12



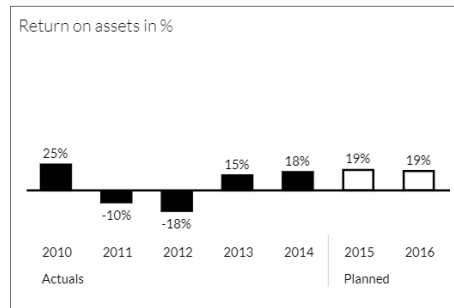
① Licences 2015: mEUR 896 Lorem ipsum dolor sit amet, consetetur et ea rebum. Quia numeri sunt tantum unum component recte diiudicat.

② Purchases 2015: mEUR 379 clita kasd gubergren, no sea takimata. Nisi quod existimo etiam mutant ensem.

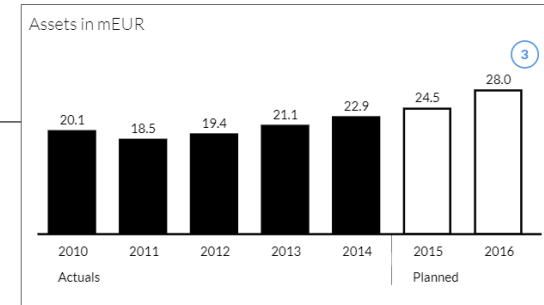
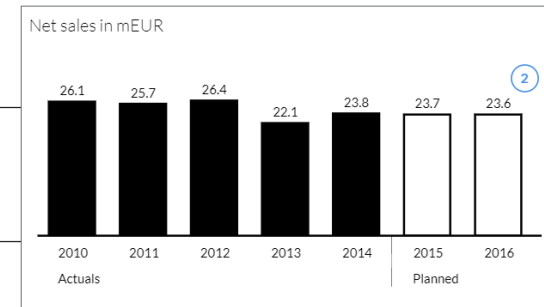
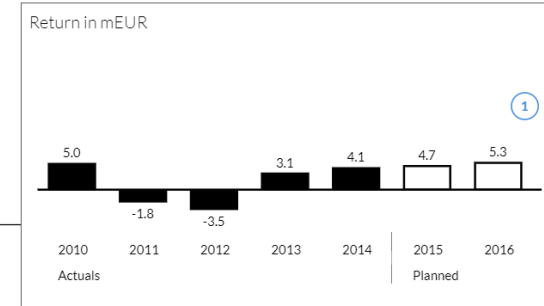
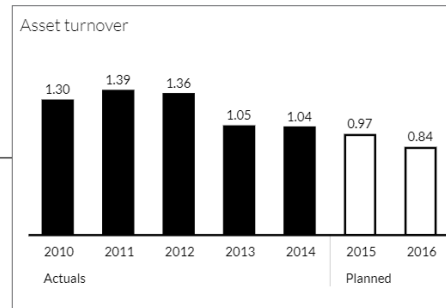
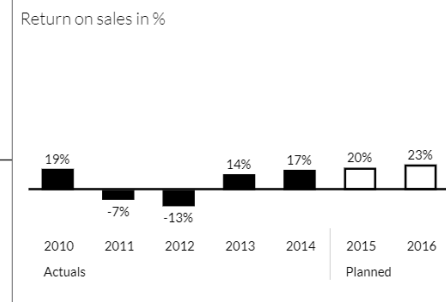
③ Other op. expenses 2015: mEUR 152 ay eirmod tempor invidunt ut uo dolores. Quantumcumque appenditis studio incassum videas.

① **Return plan:** mEUR 5.3 in 2016 elitr,
sed diam nonumy eirmod tempor
invidunt ut labore et dolore magna
aliquyam erat, sed diam vol-

② **Net sales plan:** mEUR 23.6 in 2016
Lorem e duo dolores et ea rebum. Stet
clita kasd gubergren, no sea takimata
sanctus est Lorem ipsum dolor sit amet.
Lorem ipsum dolor sit amet, consetetur
sadiptscing



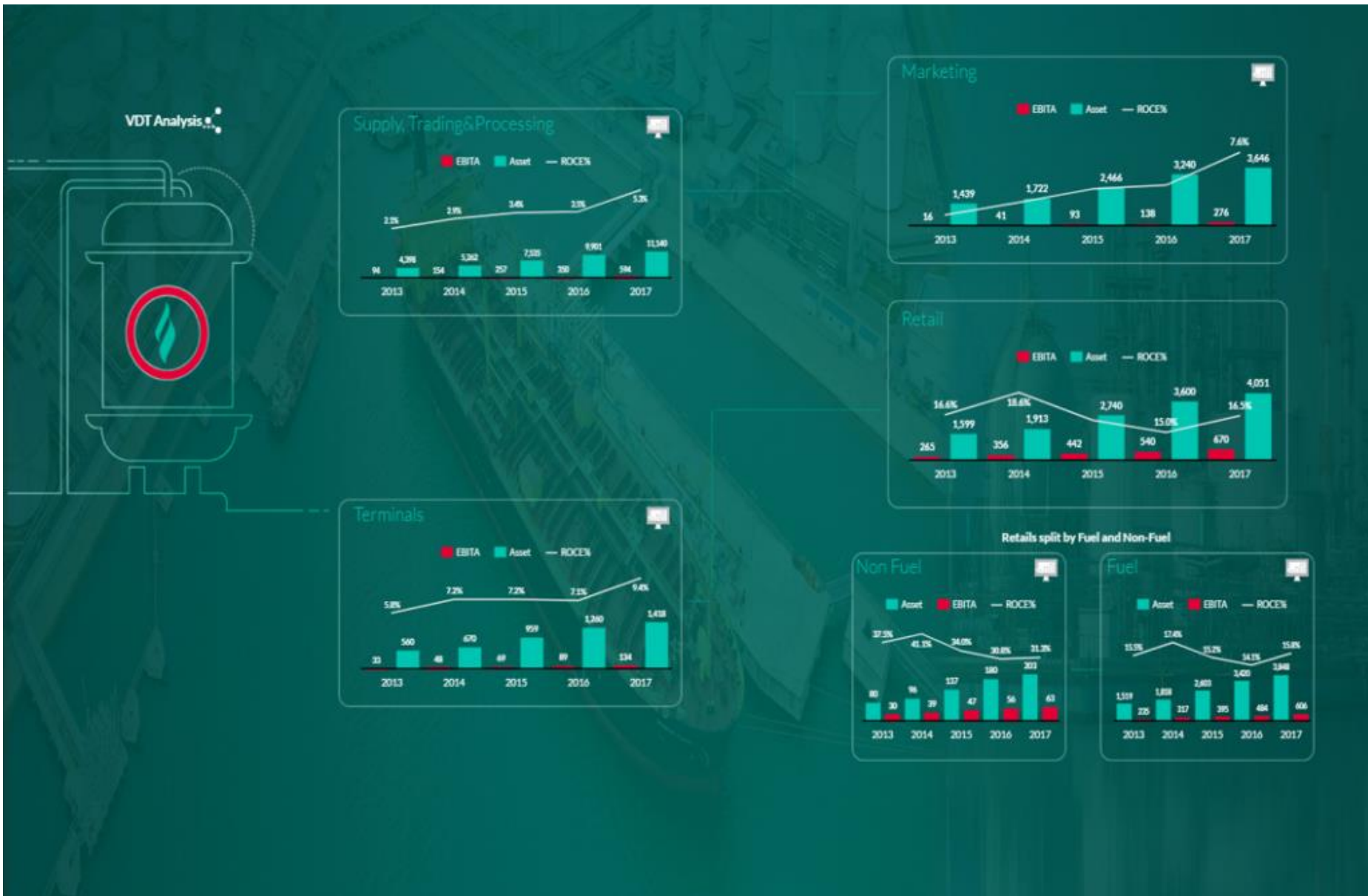
③ **Assets plan:** mEUR 28.0 in 2016 Lorem
ipsum dolor sit amet, consetetur et ea
rebum. Stet clita kasd gubergren, no sea
takimata asdfa sd asdf fa sfsdfa sdsadf

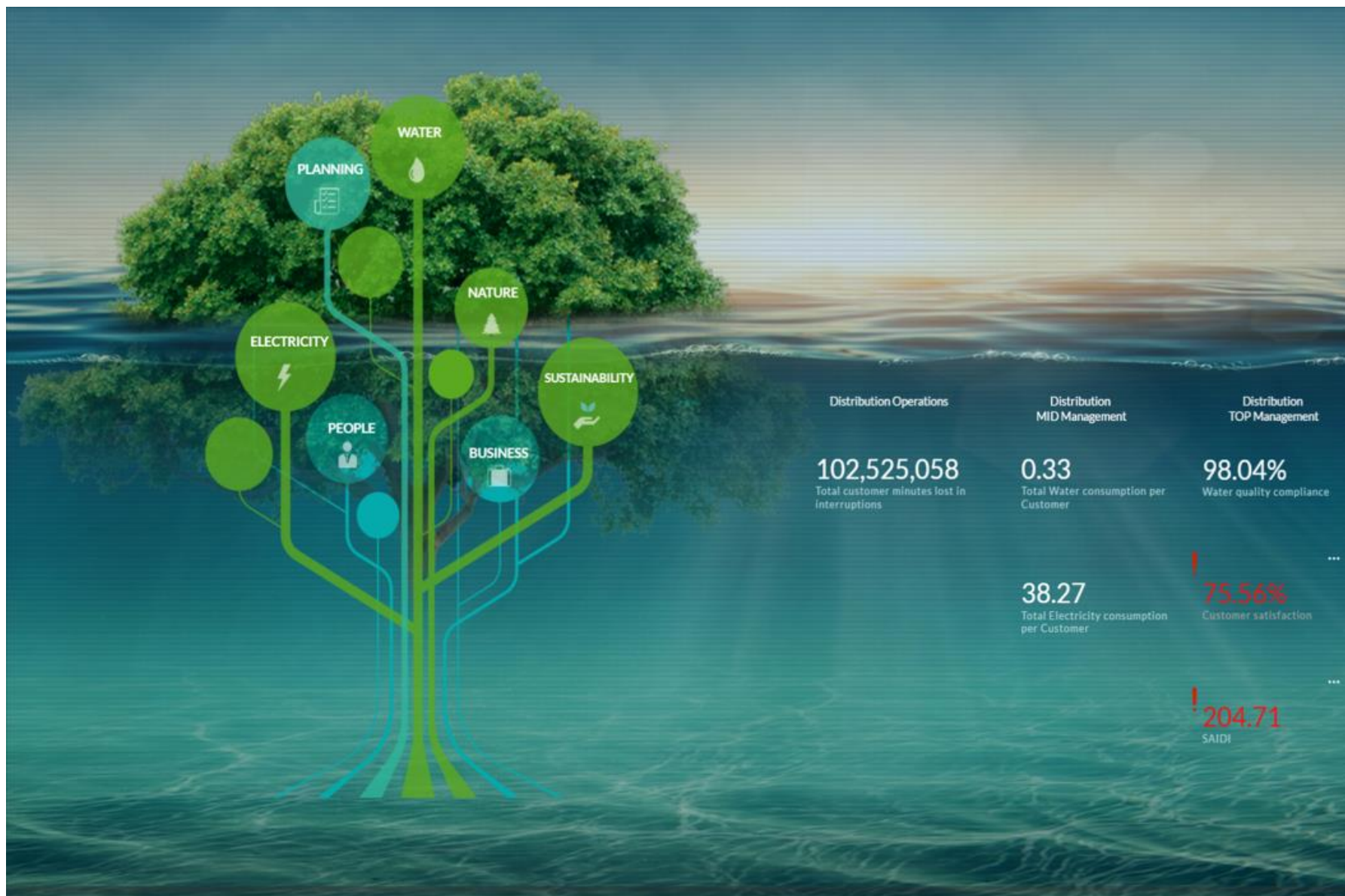


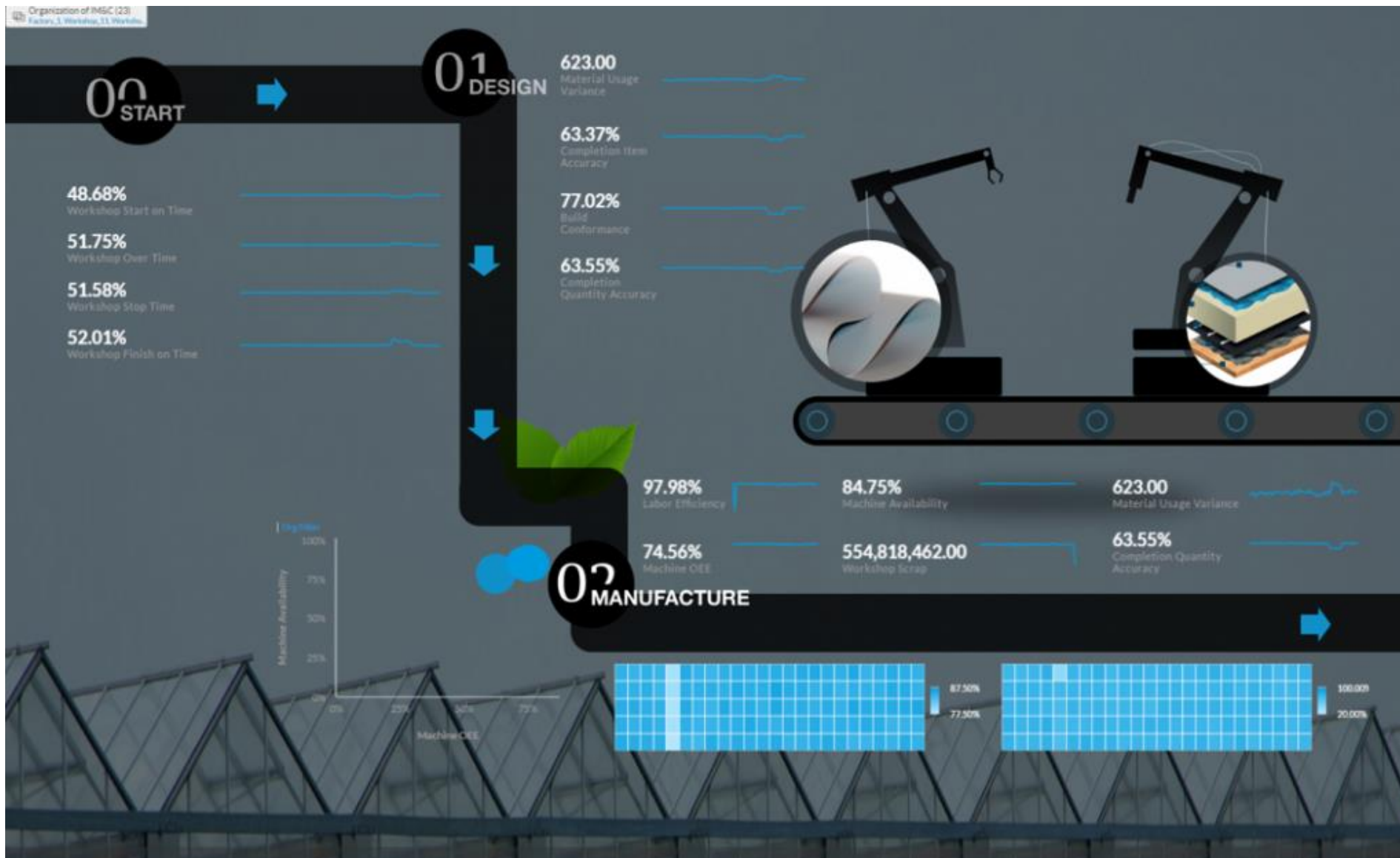
	Nov				Jan to Nov			
	PY	AC	ΔPY	ΔPY%	PY	AC	ΔPY	ΔPY%
Austria	560	559	-1	-0	5,078	5,509	+431	+8
Belgium	56	58	+2	+3	531	484	-47	-10
France	140	134	-6	-4	1,290	1,354	+64	+5
Germany	345	260	-85	-33	3,124	2,850	-274	-10
Poland	78	86	+8	+9	816	854	+38	+4
Sweden	77	86	+9	+10	809	764	-45	-6
Switzerland	61	66	+5	+8	604	678	+74	+11
Other	502	545	+43	+8	5,602	5,441	-161	-3
▲ Europe	1,819	1,794	-25	-1	17,854	17,934	+80	+0
Brazil	119	121	+2	+2	1,205	1,314	+109	+8
Canada	65	59	-6	-10	629	718	+89	+12
USA	346	311	-35	-11	3,406	3,239	-167	-5
Other	438	399	-39	-10	4,166	4,008	-158	-4
▲ Americas	968	890	-78	-9	9,406	9,279	-127	-1
Australia	54	62	+8	+13	517	588	+71	+12
China	266	231	-35	-15	2,107	2,399	+292	+12
Japan	9	11	+2	+18	67	144	+77	+53
Other	234	255	+21	+8	2,351	2,145	-206	-10
▲ Rest of World	563	559	-4	-1	5,042	5,276	+234	+4
▲ World	3,350	3,243	-107	-3	32,302	32,489	+187	+1

Weitere Visualisierungen









Analytics Designer



Application Design | Stories & Applications

Stories



- They are guided
- They provide semi-casual users with the tools to easily tell stories about their data
- They can easily get to the place to enjoy the view
- They are guided along the way

Applications



- The user is able to define where they want to go and how to get there
- They provide professional users with the tools to provide custom interactivity for their data
- There are no theoretical limits

Application Design Fundamentals

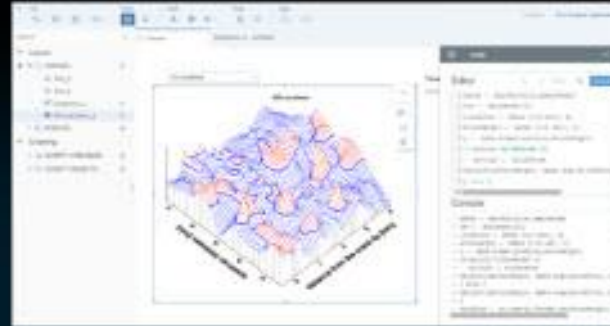
- **Simple widgets:** images, buttons, dropdown menus, check box group, radio button group, shape, text, web page, RSS reader, clock
- **Data-driven widgets:** tables, charts, filter lines, R widget
- **Container Widgets:** pop-up/dialog and other container widgets
- **Dynamic Layouts:** Dynamic adjustment of screen real-estate without re-arranging all elements
- **Interactions** (e.g. filter, cascading behavior) between different widgets via scripting
- **Dynamic switch between widgets** (e.g. chart and table) at application run time
- Dynamic and flexible **selections on Crosstab and Charts**
- Powerful **scripting capabilities**
- Script Objects for **modularizing and reusing code** for enterprise applications



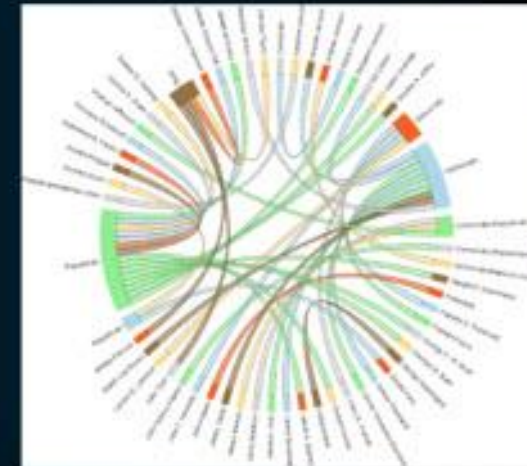
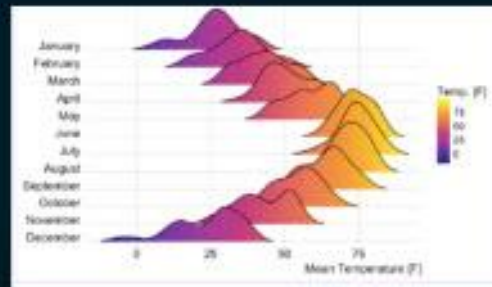
Extensions

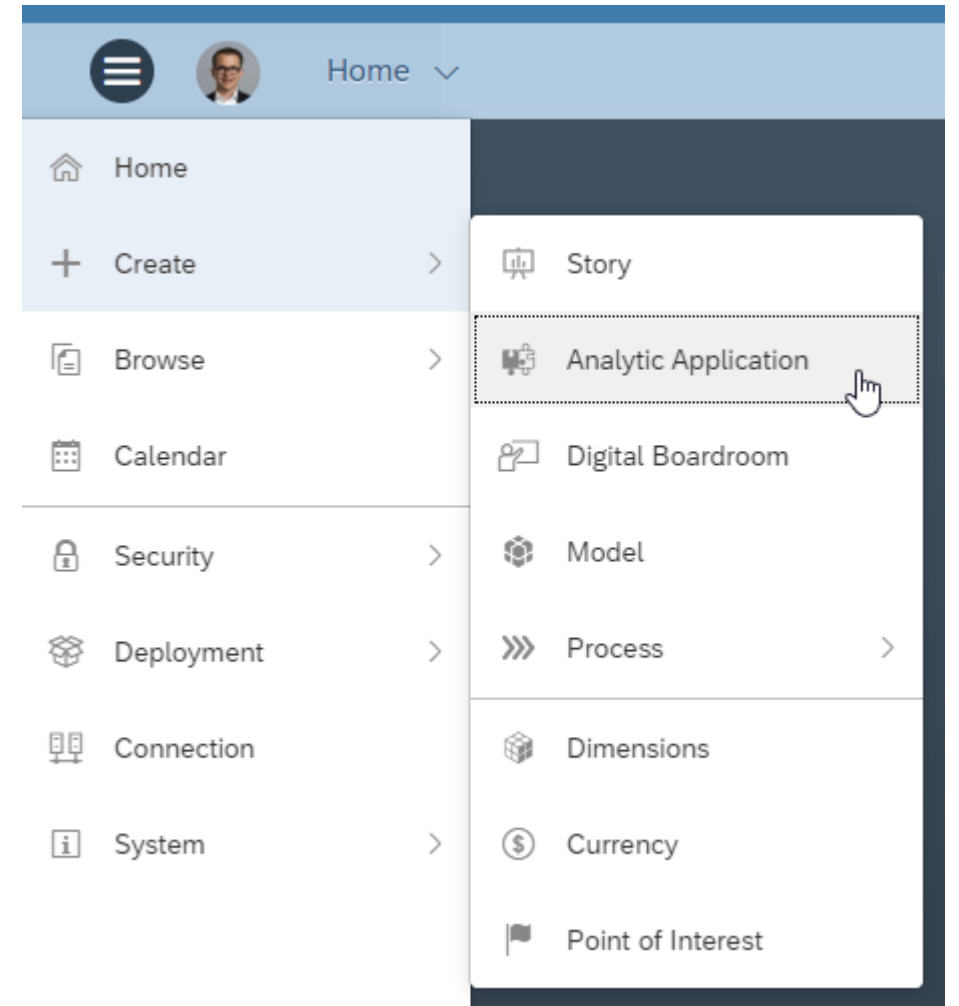
Extension capabilities to enable customers or partners to extend the tool

- **R Widgets** with scripting access
- **Composites**
 - Designers can create a collection of widgets to make a composite
 - Format by drag and drop of standard widgets, logic definition by data binding and scripting
 - Re-usable across applications
 - Decompose complex applications into smaller, manageable parts
- **Custom Widgets**
 - Developers can create sophisticated custom widgets
 - Custom functionality



graphomate .ll





Smart Features



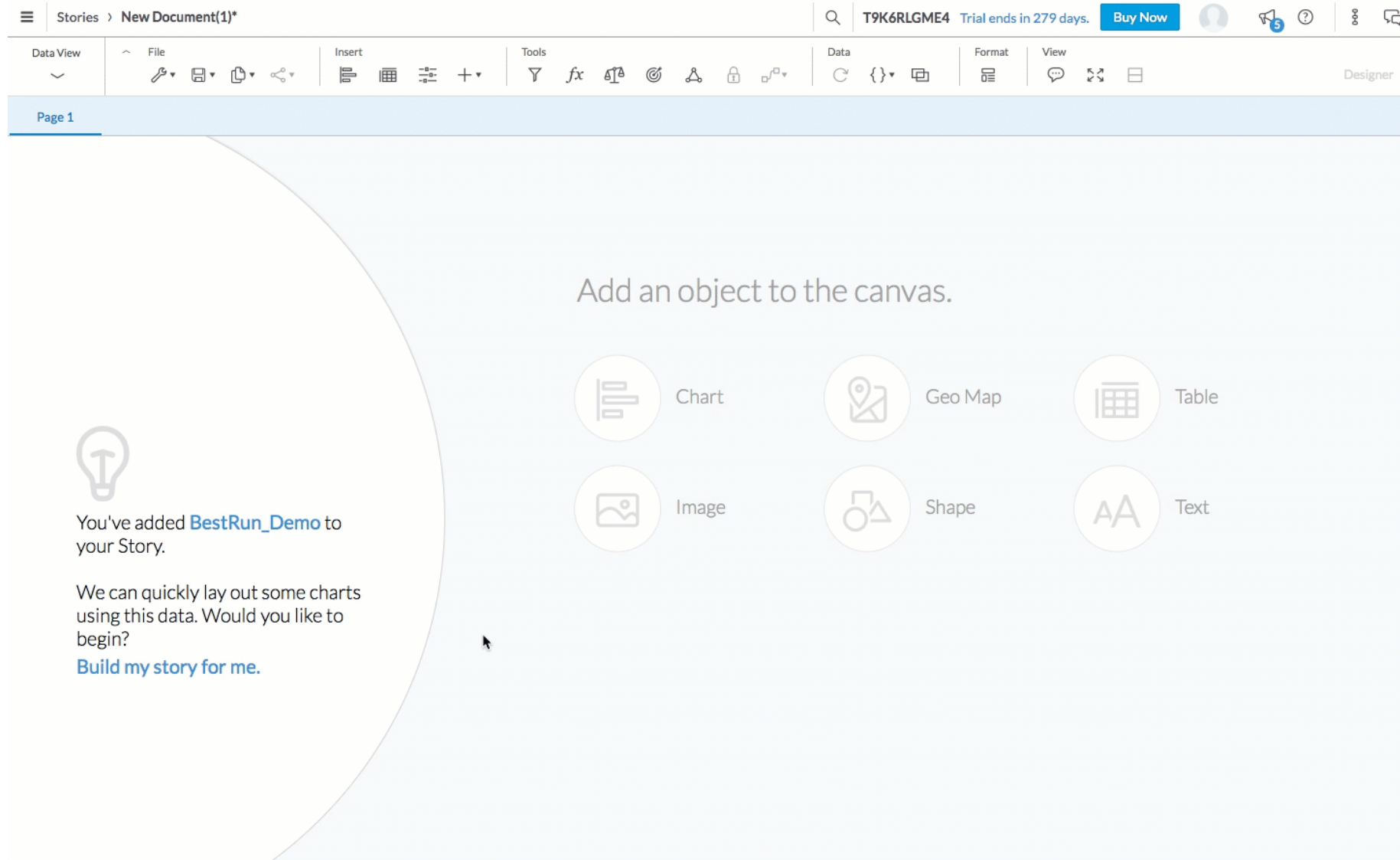
Easy as Excel

Online_Salescsv

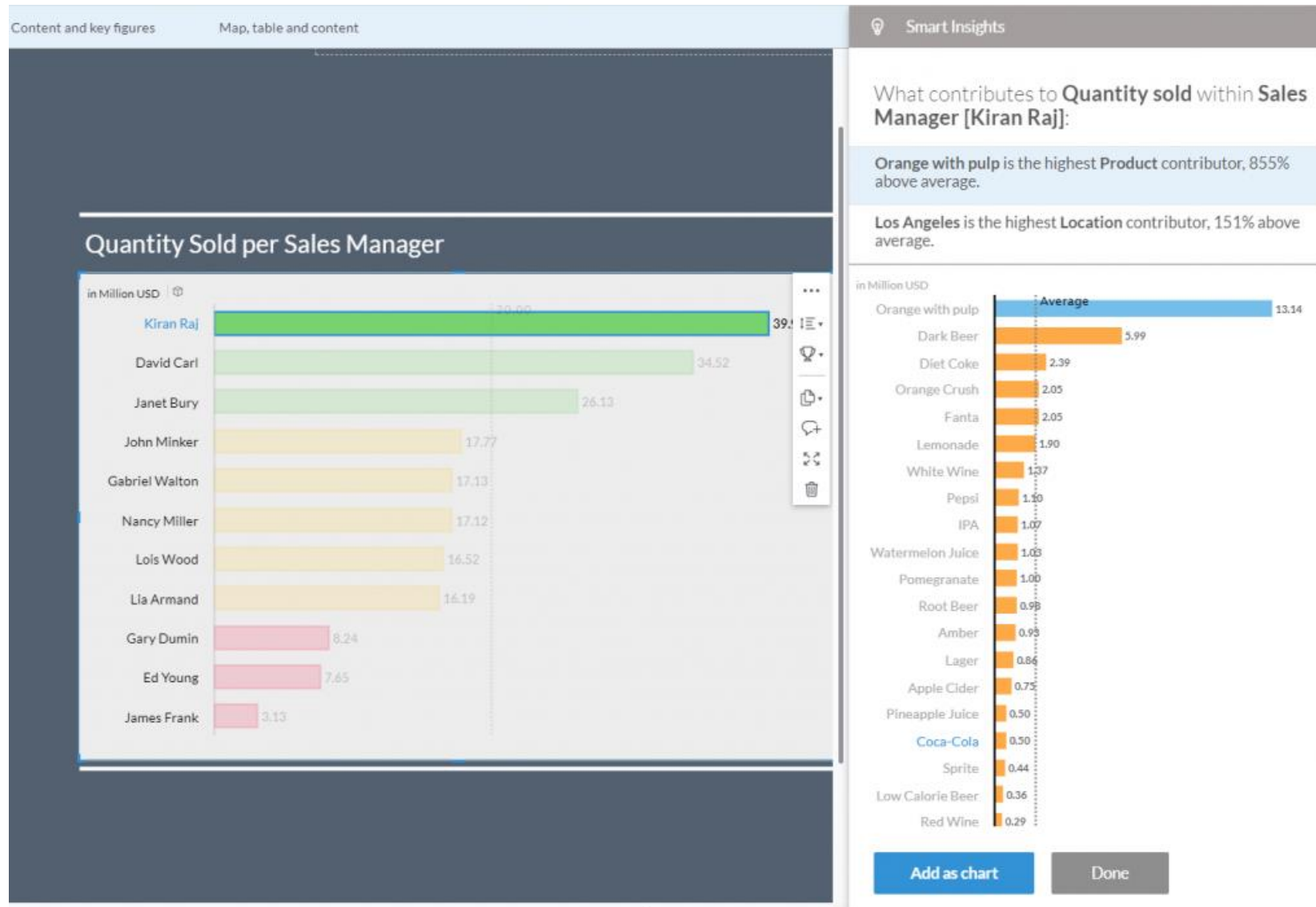
in USD |  | [customer_name Filter](#)

	sales					
	Abby Inold	Abbye Peschet	Abel Culmer	Abey Izkoveski	Abigale Palatino	
Florida	—	—	—	3.996	—	= E3 - F3
Georgia	—	—	2.371	—	—	
Kansas	—	—	—	—	3.500	
Texas	—	509	—	—	—	
West Virginia	1.039	—	—	—	—	

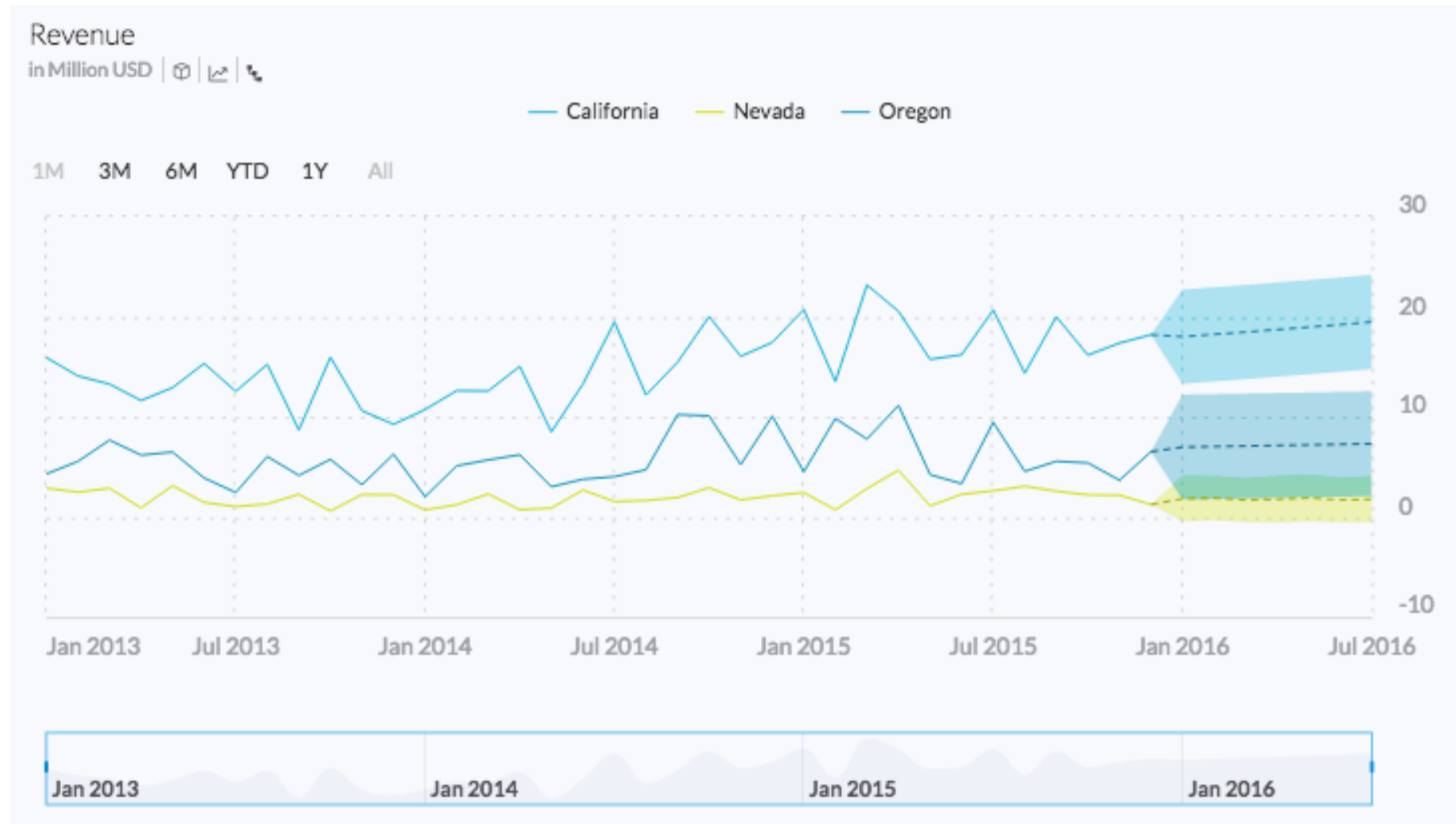
Automatische Story



Smart Insight



Automatischer Forecast



Smart Discovery

The screenshot shows the SAP Analytics Cloud Smart Discovery interface. At the top, there is a header bar with a menu icon, a user profile icon, and the text "Files / New Document(4)*". To the right of the header are icons for search, share, chat, and help. Below the header is a toolbar with tabs for "Story" and "Data", and a "Designer" button. The toolbar also includes icons for file operations (upload, download), data operations (filter, sort), and mode selection (table, chart, map). Below the toolbar, there is a section for "SalesDemoData" with a dropdown arrow and a "+ New Smart Discovery" button. The main area is divided into two sections. On the left, there is a "Measures" panel with a list of measures: "No Customer Meetings", "No Licenses", "No Contact", and "Deal_Value". On the right, there is a large area with a blue circle containing a white plus sign and the text "Show Dimensions" and "Bring in more dimensions from your dataset to start exploring with". Below this, there is a section for "Title" and "Subtitle" with a gear icon. At the bottom, there is a section for "22 Numeric Point (Auto Suggested)" with a refresh icon, a circular arrow icon, and a dropdown arrow. The text "More measures required to build a Numeric Point chart" is displayed at the bottom of the main area.

Kollaboration



Diskussion

DesignerControlsView

lation<>

	2016	2017	2018	2019
Operating Expenses	1,297.06	1,366.68	1,479.41	1,595.36
Travel	1,296.16	1,365.76	1,478.48	1,594.41
Headcount Costs (Research and Development)	1,296.16	1,365.76	1,478.48	1,594.41

Profit (Plan_v2)

in Million USD

ProfitOperating

	2016	2017	2018
Profit	4,354.02	4,412.42	4,441.97
Operating	1,297.06	1,366.68	1,479.41

Discussions

Anthony

To: Anthony

Ewan Maalerud has invited Anthony Lam.

A new task double check numbers has been created by EWAN.

Added by Ewan Maalerud

Hi Anthony, I just want to ensure our figures are accurate and up to date. Would you mind double checking them please?

+Type your message...

017

07 2017

Add Attachment

Link Story

New Task

New Process

+Type a message...

9:41 AM100%

Discussions (8)Jane

3:27 PM

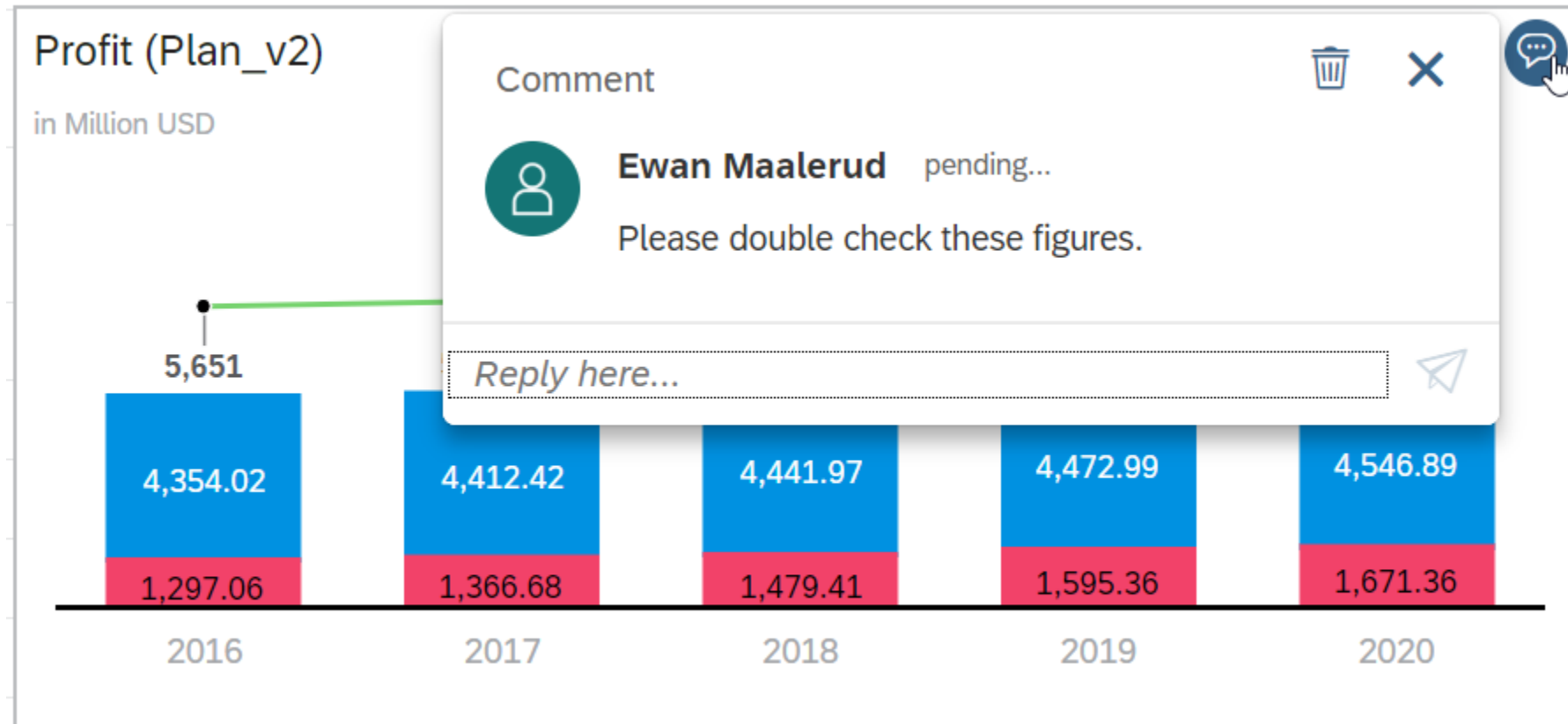
Josie has invited Jane.

Josie hi!

+Type your message here...

1234567890- / : ; () \$ & @ " # += . , ? ! ' < > ABC emoji microphone space Send

Kommentierung



Tasks

New Task

Creating Task-Task

Title*
Sales Revenue

Description
Double check the numbers

Starts On
Apr 6, 2017

Due on
Apr 6, 2017

People

Assignee

Reviewer
No reviewer is selected.

Final Reviewer
No final reviewer is assigned to the event.

Create Cancel

Events

021

Get View

April 2017 Today Week Month Year

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
18	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10 double check no.	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

DETAILS PROCESS

START DATE 4/6/2017
END DATE 4/16/2017

double check numbers

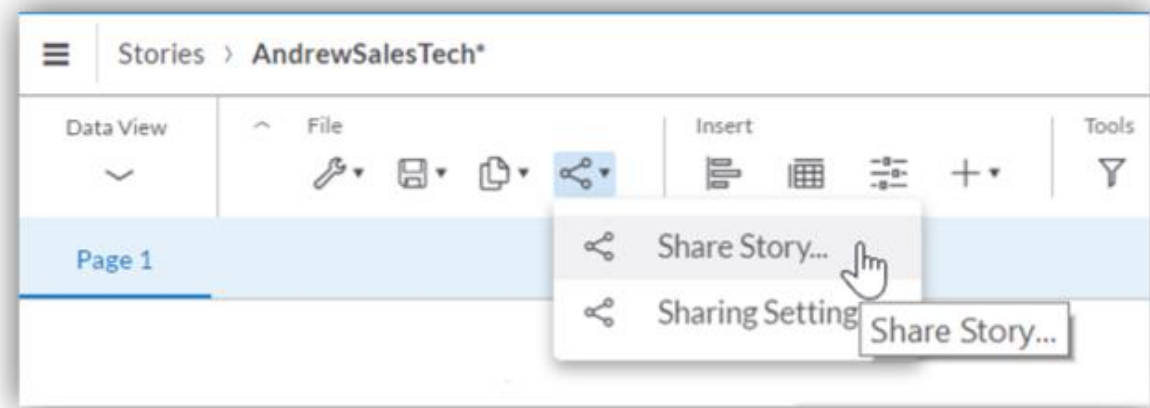
Creator You

Related Content

Assignees & Status

Anthony Pending

Sharing is caring

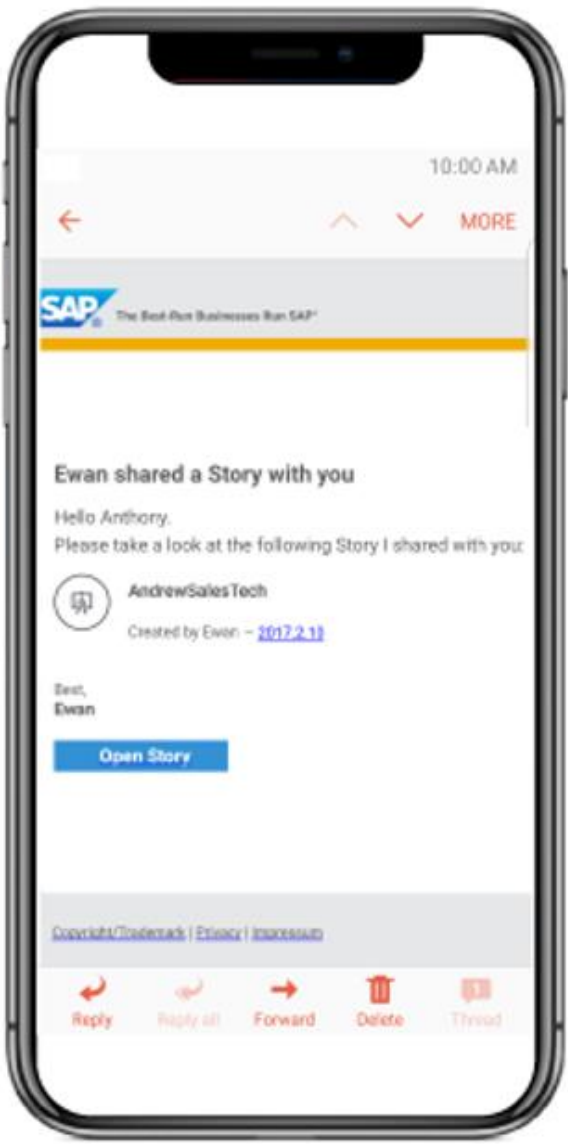


Edit Sharing Settings

User/Team	<input checked="" type="checkbox"/> Full Access	<input type="checkbox"/> Read Access	<input type="checkbox"/> Update Access	<input type="checkbox"/> Delete Access	
All Users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TEAM: ITX	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	×
Guest 01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	×
Guest 03	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	×

[Add Users and Teams](#)

[Save](#) [Cancel](#)



Wir freuen uns auf angeregte Gespräche mit Ihnen ...

- › Kristof Gramm, Senior Business Intelligence Consultant
kgramm@it-logix.ch



Twitter



LinkedIn



Xing



YouTube



Blog

