# Data Revolution with Data Warehouse Cloud & SAP BI

22 Aprile 2021









# Agenda

1	Benvenuto ed Introduzione Lorena Zivelonghi, Marketing Lead, Tech Consulting, PwC	5 Min	
2	SAP Data Warehouse – The DW of the future  Mohamed Abdel Hadi, VP DW Product Management, SAP  Hagen Jander, Senior Director, Product Strategy, DW, SAP	20 Min	
3	DW Cloud: approccio e case study per risultati scalabili Marco Sartor, Partner, Finance Transformation, PwC Italia Nicola Zandonà, Manager, Finance Transformation, PwC Italia	15 Min	
4	DW Cloud e SAC Reporting & Planning: casi pratici e PwC "APPs" per reporting e planning Nicola Zandonà, Manager, Finance Transformation, PwC Italia Luca Tumelero, Manager, Finance Transformation, PwC Italia	20 Min	
5	Q&As e Prossimi appuntamenti		



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#### **Today's situation**

Despite substantial investments in data management and data warehousing, several challenges remain largely unresolved to date

- Growing IT Complexity and Data Silos

  Ever-growing data management portfolio with disparate systems that are increasingly difficult to integrate, maintain and govern for quality
- 2 Evolving Business Requirements
  Increasing need of agile and self-service data access for decision-making and processes
- Data programs requiring significant time and upfront investment and oftentimes new solutions putting past investments' and data programs' value at risk

# The Challenge: Data and Analytics



# SAP Data Warehousing: Future Direction Along Three Main Pillars

#### **DATA ACCESS ACROSS SILOS**

Harmonize and facilitate access to governed data across systems rather than integrating







Virtual access

#### **BUSINESS EMPOWERMENT & GOVERNANCE**

Enable business users for large-scale agility and flexibility in self-service use of information



Self-service access



Modern governance



Openness

#### SHORT-TERM VALUE

Gradually transform the data architecture to the target state – focusing on short-term value



Integration of existing assets



Pre-built content



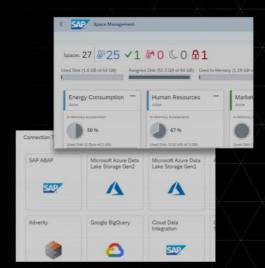
External data integration

# SAP Data Warehouse Cloud Unleash the data-driven business

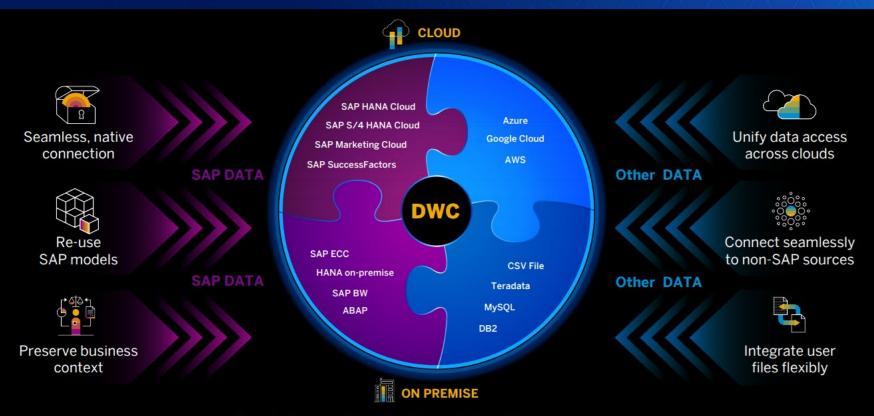
The unified data and analytics service providing a complete end-to-end solution with one semantic view designed for business and IT







# SAP Data Warehouse Cloud Unify data silos to understand your business

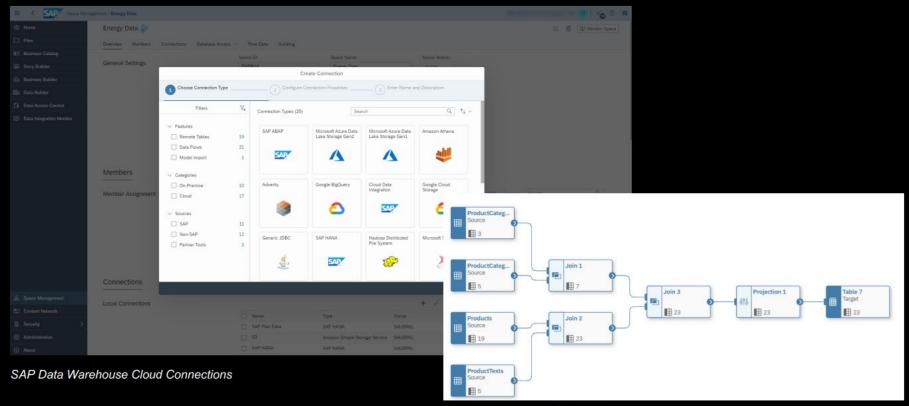


A central access layer to all your information across sources

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#### **SAP Data Warehouse Cloud**

### Connect and collect data flexibly – catering to all styles of data integration

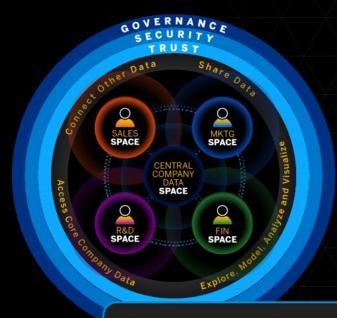


# SAP Data Warehouse Cloud Unlock data insights with integrity

### Typical Environment



#### **SAP Data Warehouse Cloud**



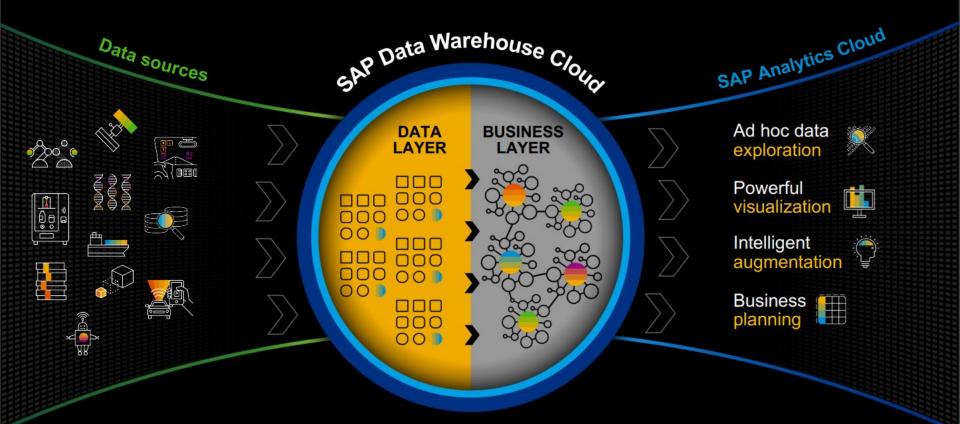
- Self-service data modeling for all users
- Semantic business layer
- Data sharing and collaboration
- IT governance of resources and security

# SAP DATA Warehouse Cloud Collaborate in business terms



- Business entities and relationships with business language
- Model standardization and reuse for efficiency
- Independence for business users from IT

# SAP DATA Warehouse Cloud Integrate from data to insight with SAP Analytics Cloud



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# SAP Data Warehouse Cloud Boost time-to-value with business accelerators





#### **Deploy pre-defined content**

Leverage pre-built content packages with data models, transformations, calculations and analyses for a variety of industry- and LoB-specific use cases



#### Re-use existing data models

Re-use SAP BW/4HANA queries in SAP Data Warehouse Cloud with hybrid model transfer and build on pre-defined views (CDS views)



#### **Boost external data integration**

Integrate with external data providers and third-party data sources with out-of-the-box connectors

Time-to-value Cost Investment efficiency protection

# **SAP Business Warehouse Customer Journey**

Preference-Based Decision Use-Case-Based Decision **Use Case** Solution SAP Data Warehouse Cloud is the SAP Data Warehouse strategic public cloud product offered **Business** Cloud as a software service managed by SAP. Other SAP Data Warehouse Enterprise data SAP Data Warehouse Cloud is a new Cloud warehouse with a highly offering for data warehousing in the public integrated and cloud - it can be a stand-alone solution or **SAP Business** customized SAP BW SAP BW/4HANA complement the data warehouse portfolio Warehouse (BW) of SAP by extending current use cases. on any database

I-PREMISE

Fully integrated data warehouse solution

Agile, flexible, and database-driven data warehouse approach

SAP BW/4HANA

and/or

SAP HANA for SQL data warehousing



SAP BW/4HANA and SAP HANA for SQL data warehousing are the strategic solutions for on-premises and private cloud data warehousing.

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### Priorities 2021

Focusing on Enterprise Readiness for Ingestion (Connectivity, Data Integration, Caching) & Operation (Elasticity & Scalability, Spaces & Dev/Test/Prod Landscapes) & Modeling

Continue to lay the foundation for successful Content building and delivery

Ensuring Consumption & Openness by focusing on a seamless SAC integration and enhanced consumption possibilities via ODBC/ 3rd party connectors & Data Access APIs

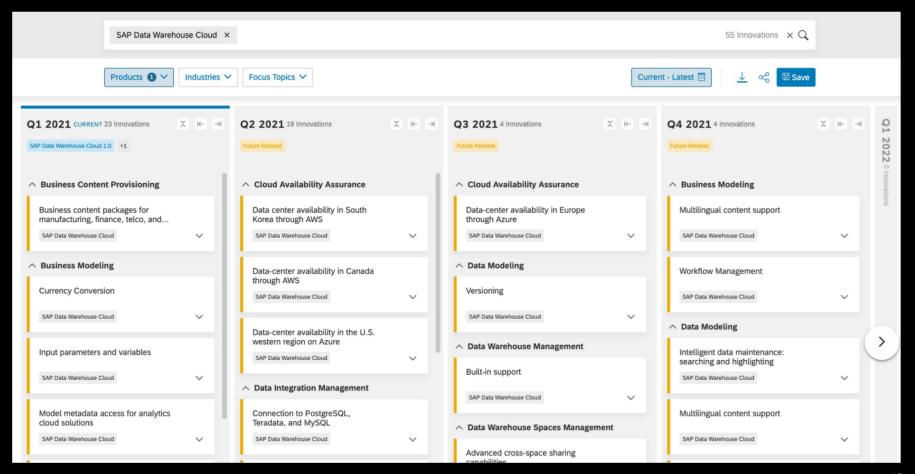
One LoB & Business User experience through a truly business focused environment driven by a Business Catalog, the Data Marketplace & the Business Layer

Make SAP Data Warehouse Cloud the foundation for SAP's planning solutions

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## RoadMap Explorer:

### experience



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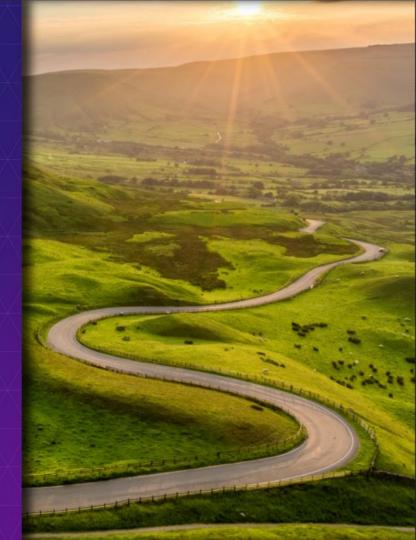
# Start your data and analytics journey with SAP Data Warehouse Cloud

**Try now for free** 

Request a demo

**Learn more** 

Join the conversation





# Cosa si aspettano i CFO italiani?

L'80% dei CFO vedono la trasformazione dell'area Finance una priorità, dove la **tecnologia** riveste il ruolo fondamentale di **abilitatore** a supporto del cambiamento...

...In particolare i CFO hanno maturato che nei processi Finance tradizionali e nella gestione del rischio finanziario è possibile ottenere ulteriori benefici grazie alle evoluzioni oggi possibili sui sistemi ERP, EPM e Big Data/BI...

...La funzione Finance del Futuro assume un ruolo sempre più strategico dedicando maggior spazio alla generazione di Business Insight.

Ciò è fondamentale per la **gestione dei rischi** e l'anticipazione delle problematiche del business

#### I principali benefici che i CFO si attendo dall'evoluzione delle tecnologie



Standardizzazione ed efficientamento dei processi back office



Automazione processi reporting e compliance



Miglioramento efficienza ed efficacia processi previsionali



# Real-time Reporting – Data Warehouse Cloud Cooperation SAP & PwC

#### We enable agile execution

PwC as a strong Partner



Long term partnership to SAP with strong experience in D&A. We have tested the DW Cloud Beta version in 2019



DWC headliner program partner as the only consulting company worldwide



Profound experience in the use of DWC through the analysis of pains and gains



Strong collaboration with SAP developers and team

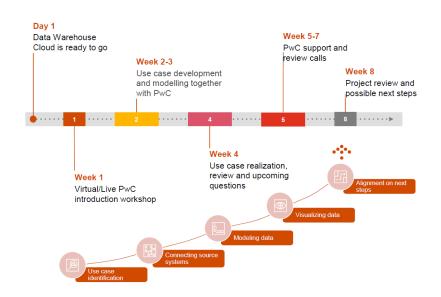


# **SAP® Recognized Expertise**

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**Enterprise Planning and Analysis** 

#### **Project Planning**



# Real-time Reporting – Data Warehouse Cloud Project Purpose





Reporting Sales, Supply Chain and Maintenance module is divided into 4 main streams:

- Transport & Logistic Costs
- Global Inventory
- Purchasing
- Sales & Distribution



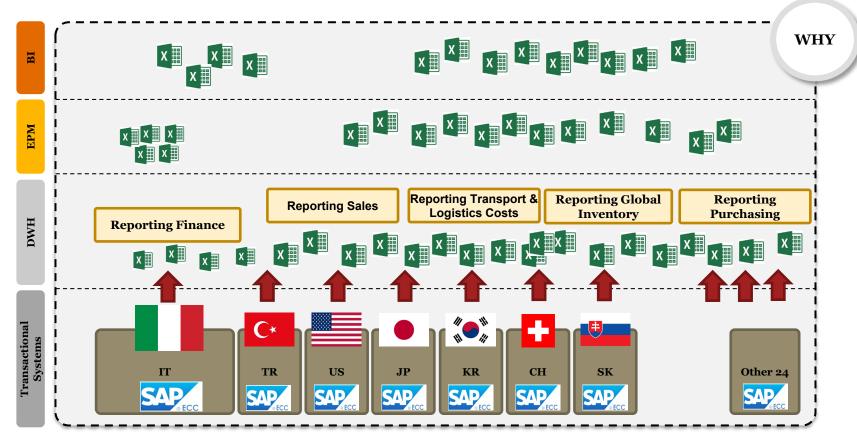
Reporting Sales, Supply Chain and Maintenance needs to aggregate the data from each country / subsidiary, and navigate on the prevailing analysis dimensions useful in the Company context



Reporting and Dashboarding needs to allow data discovery and data visualization and allow Business to analyze the information in a "smart way" (es. Top/bottom 10 customer, monthly comparisons KPIs, etc...)

### SAP Data Warehouse Cloud + SAP Analytics Cloud

Real-time Reporting - Architecture before the project



# Real-time Reporting – Data Warehouse Cloud Road Map to Delivery



Journey to the New reporting architecture with «Smart Agile» Methodology

#### Pre-Activities

Group team runs preparatory tasks before the subsidiaries are allowed to perform their tasks in the system



#### **Design Meetings**

In a first cycle of meetings, developers and business users meet to analyze the existing context and define the final goal of the project

#### Release a stand-alone version of the deliverable

The prototype is released to the customer, for a first test phase of the product on systems, which can be used immediately from the very first time



#### Initial Prototype

The development team builds a first prototype, starting from standard solutions where possible, able to provide main functionalities connected with the final purpose

#### Client Feedback

The release of the deliverables allows direct control by the customer of the correct functionality of the deliverable, and the ability to directly suggest improvements to be made for the next version



Once the final result is achieved, the final release has reduced lapses of test, consolidated features and users already have experience of the tool

#### Solution improvement

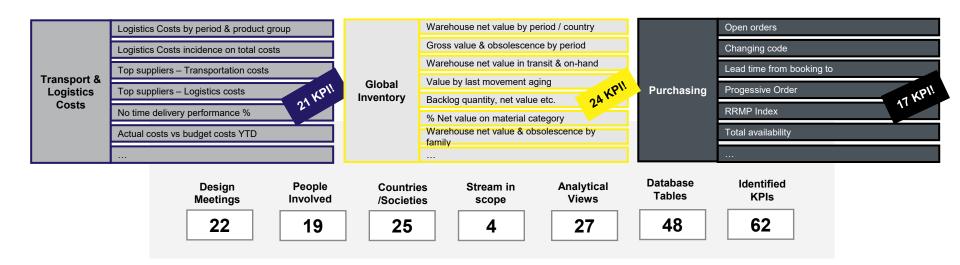
The evolution takes place through rapid and continuous improvements, constantly following the feedback left by the customer, and each updated version improves the product but does not prevent its continuity in use

8 weeks of working

# Real-time Reporting – Data Warehouse Cloud Road Map to Delivery



#### **Examples of KPI by stream project**



8 weeks of working

# Real-time Reporting – Data Warehouse Cloud High Level Architecture - Step 1



"Smart Agile" methodology allows to minimize the risks and timings related to implementation, thanks to the adaptation of the standard solution to the client's needs and subsequent iterations/integrations of the data model and data flows

#### Technology on this Project:





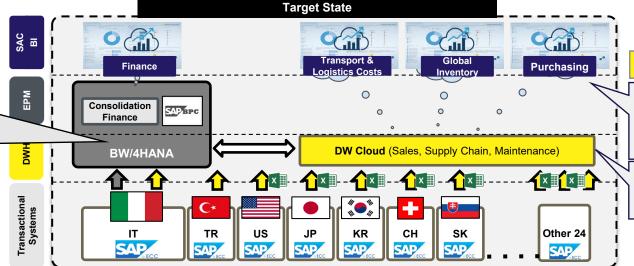




SAP ECC - ERP

### Integration Finance and SCM Stream

The SCM Reporting process is integrated into a broader reporting system that also includes the Finance module, which is why an additional common data collection layer (BW/4 HANA) was deemed necessary to allow communication between the two modules, even if the main data flow from ECC still remain separated between BW/4HANA and DWC.



#### Benefits

**WHAT** 

An intuitive, navigable and natively available reporting on mobile within the SAP Analytics Cloud platform. Business users thus become effective users of the data with significant savings in working hours for business users, relieved of the burden of building the reporting of interest

Data availability is very fast and in total security through the use of Cloud technology and a structured and optimized data flow, which brings also extreme flexibility and guarantees data access from every device

# Real-time Reporting – Data Warehouse Cloud High Level Architecture - Step 2



"Smart Agile" methodology allows to minimize the risks and timings related to implementation, thanks to the adaptation of the standard solution to the client's needs and subsequent iterations/integrations of the data model and data flows

#### Technology on this Project:





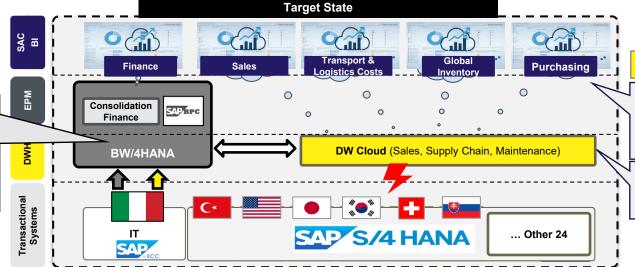




SAP ECC - ERP

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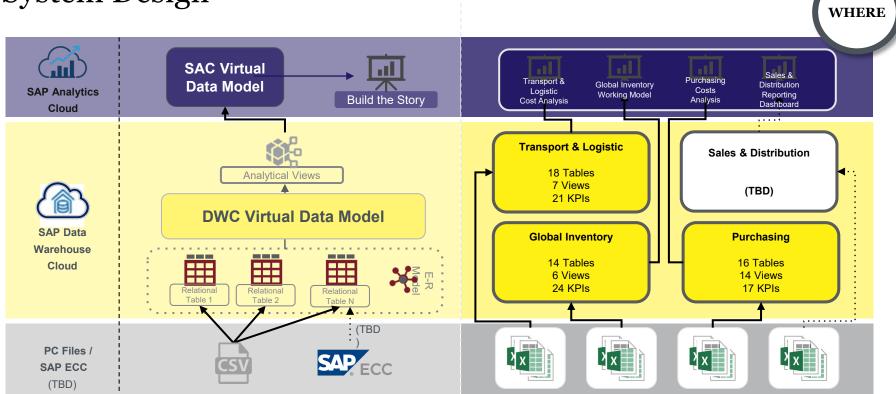
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**WHAT** 

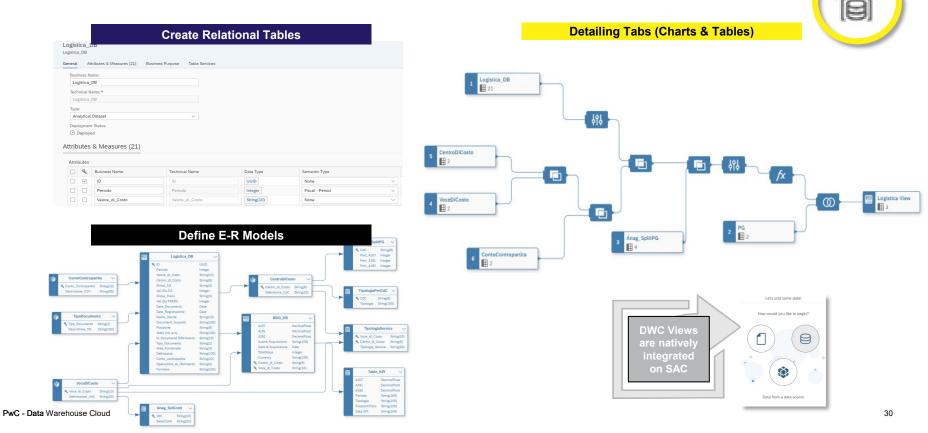
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Real-time Reporting – Data Warehouse Cloud System Design



# Real-time Reporting – Data Warehouse Cloud DWC Data Modeling Examples



# Real-time Reporting – Data Warehouse Cloud User Experience

#### **Strengths of the Product**

- The platform is simple to use and intuitive even for non-technical users
- DWC Native connectivity with Analytics cloud define a perfect analytics stack
- Quick to setup and develop, easy to update or roll-back
- Ability to organize data by Space, effectively managing safety thanks to the possibility of diversifying roles per user



#### Possible Enhancement

- Not easy to manage the updating of tables: imports needs to be optimized with a delta loading option and the possibility to schedule updates
- Some SAP Analytics Cloud feature are still not supported for DWC virtual Models

(es. YTD Aggregation)

 Integration with EPM product could lead to a complete DWH product in cloud: Q3 2021 release will give a go step ahead





### **Next Appointments**

SAC
Planning dal Topdown, Scenario
Planning al Workflow bottom-up

Maggio 2021



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Maggio - Giugno 2021

#### **SAVE THE DATE!**

# Thank you



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