15. Structured FINANCE

27.-28. NOVEMBER 2019, ICS INTERNATIONALES CONGRESSCENTER STUTTGART



Digitalisierung eines Finanzbereichs im Großkonzern

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Referent



Gastgeber





Structured Finance

Digitalisierung eines Finanzbereichs im Großkonzern

Steffen Diel, SAP SE Senior Vice President, Head of Global Treasury 28. November 2019

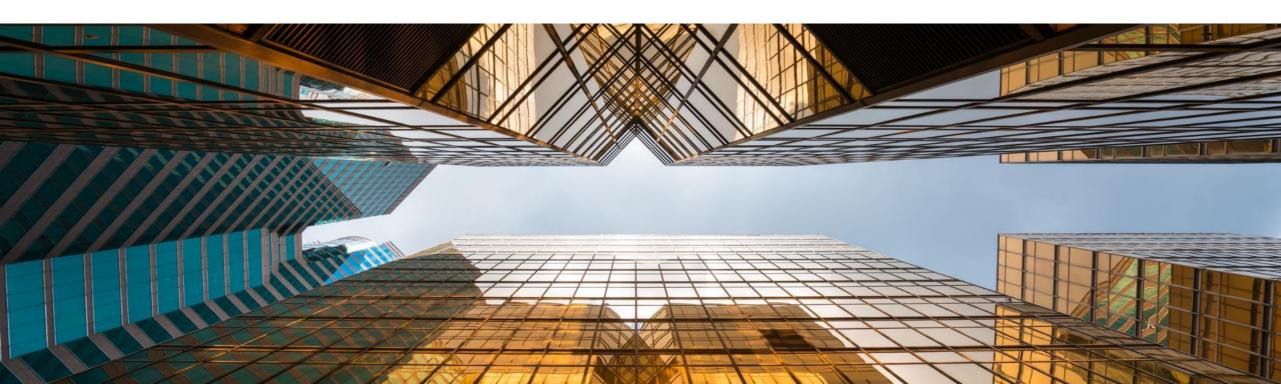
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Introduction to SAP



SAP Key Figures























































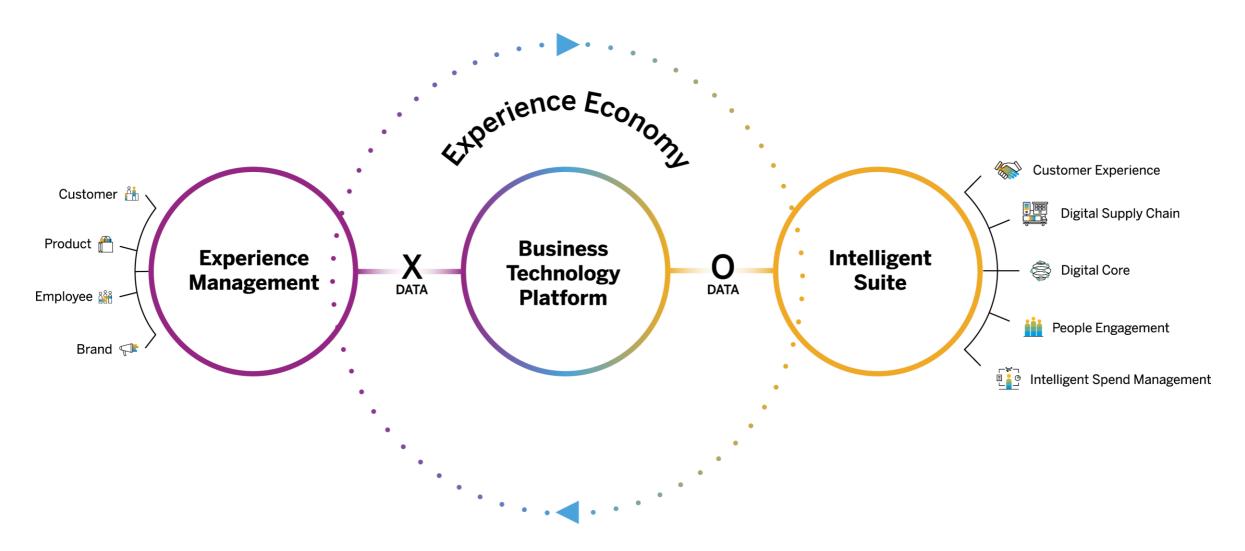


SAP overview

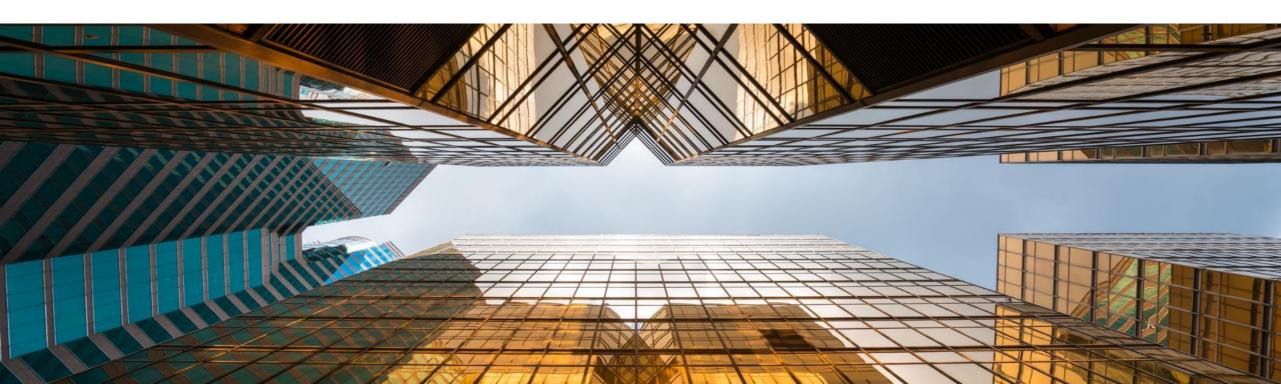
- Market leader in enterprise application software
- Leading analytics and business intelligence company
- 200 million cloud users
- Dow Jones Sustainability Index: Software sector lead for the 12th consecutive year in 2018
- > 437,000 customers in > 180 countries
- > **99,700** employees
- Total Revenue 2018: EUR 24.7bn
- Operating Cash Flow 2018: EUR 4.3bn
- Group Liquidity by Sept. 30, 2019: EUR 5.6bn
- Group Financial Debt by Sept. 30, 2019: EUR 13.9bn
- Globally, 77% of all transaction revenue touches an SAP system

SAP is evolving its strategy to be

"The Experience Company powered by the Intelligent Enterprise"



Overview Global Treasury & Finance Transformation at SAP



Global Treasury – Areas of responsibility



Global Cash Management

- Bank account opening and closing, automated bank account statements
- Daily cash disposition, short-term liquidity planning, cash centralization
- Worldwide bank connectivity, bank account administration, cash centralization



Dealing & Asset Management

- Dealing (FX, Money Market, Securities, Equity Derivatives)
- Investment strategy with current focus to avoid substantial negative yield



Subsidiary Support

- Liquidity & Working Capital Management
- Bank account and payment services
- Local financial business support (e.g. bank guarantees)
- I/Co financing (foundations, capital increases, loans)
- I/Co dividend payments







External Funding

- Acquisition financing & debt capital market strategy
- Credit rating
- Bank relationship management
- Debt Investor Relations (together with Investor Relations)



Financial Risk Management

- Liquidity risk management (3-Pillar Financing Strategy, long-term liquidity planning)
- FX risk management
- Interest rate risk management
- Counterparty risk management

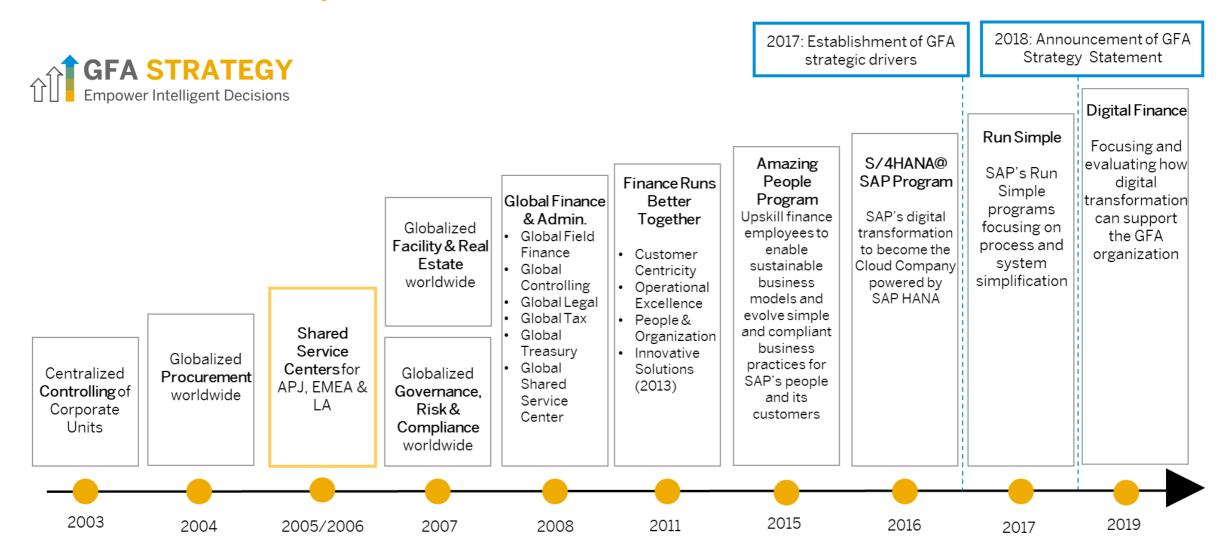


Other value-enhancing tasks

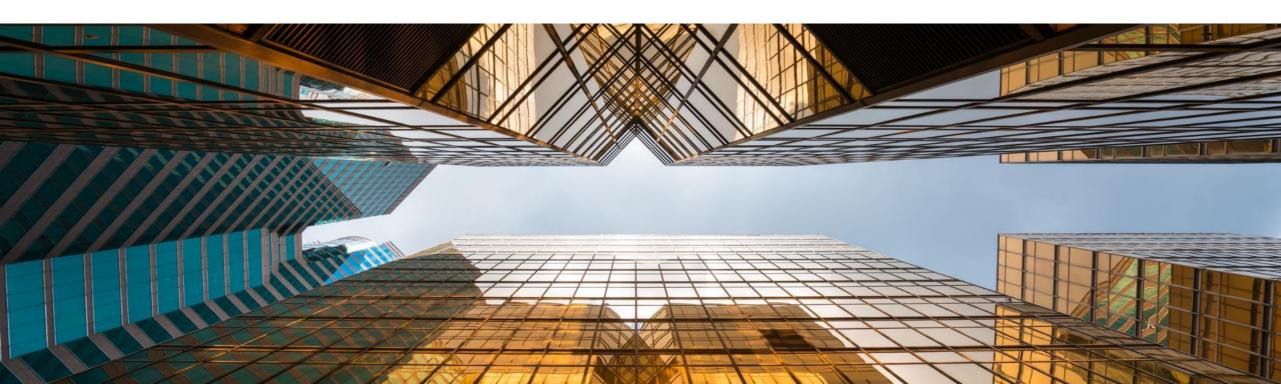
- Long-term liquidity planning
- Design of share-based compensation programs
- Co-Innovation with Treasury Development, Analytics & IT
- Sales support: "SAP Treasury runs SAP" showcases
- Deal-related support on FX structuring, guarantees, deal financing
- Thought Leadership (e.g. participation in working groups)
- Cross-departmental projects, e.g. with Global Tax
- Development of Finance Talents / Future of Work / Digital Finance

Global Finance & Administration (GFA)

Transformation Journey



Steering the Intelligent Enterprise



The digital transformation is forcing SAP to adapt internal processes & systems

Digital trends driving the transformation of SAP's business model

















oud Big Data & outing Analytics

Internet of Things

Machine Learning

hine Augmente ning Reality

Augmented Blockchain

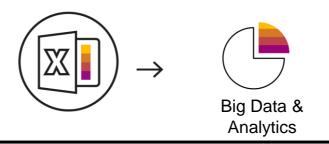
Social

Mobile

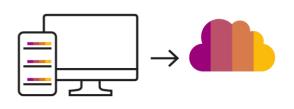
SAP needs to change business processes and adapt enterprise architecture



Growing number of different business models: on-premise, cloud, business network and new customer services



From manual reporting to processing big data real-time and turn insight into action



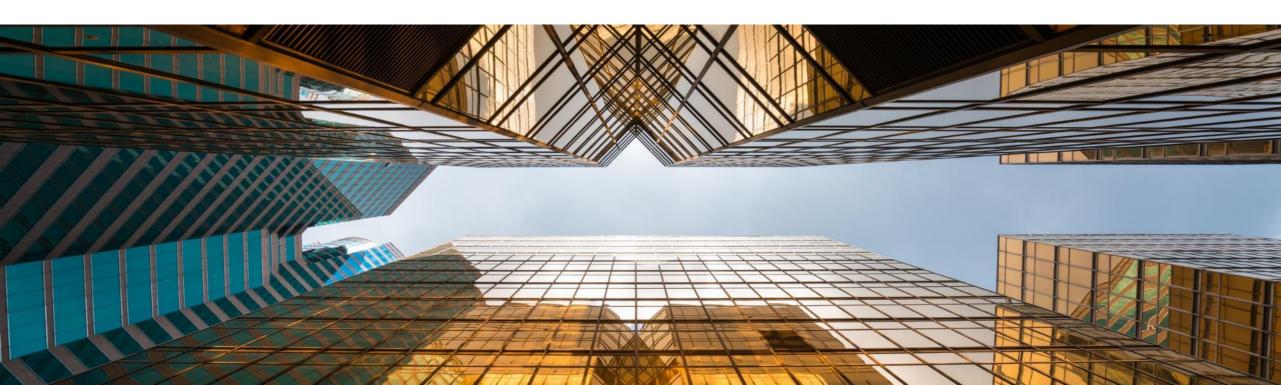
From human high-touch to automated, integrated & intelligent system landscape with a modern user interface

The SAP Digital Boardroom



- Real-time insight into operating development of the company based on extremely fast data access via inmemory database and S/4HANA technology
- Visualization of internal and external content in SAP Analytics Cloud
- Embedded value driver tree provides scenario analyses and simulation "on the fly"
- The Digital Boardroom collects and analyzes data from different internal and external sources (HR, Finance, Sales, Financial Market Data, Financial News)
- In-built predictive analytics capabilities

The digitalization journey of SAP Treasury



Digital Transformation at SAP Treasury

Increasing complexity and limited resources require new technologies

Past Manual and repetitive tasks Low degree of automation Custom coded solutions Inflexible processes

Present

- Simplified processes
- Standardized S4HANA Core
- From batch to real-time processing
- From physical systems to virtual platforms

Future

- Perform sophisticated analytics
- Strategic decision-making
- Significant change of job profile: from task-driven to intelligence-guided activities
- Deliver the Intelligent Enterprise

The digital mindset – understanding the potential value of new technologies (rather than technical details)

Requirements



Working in AGILE mode & Swarms

Use of cloud platforms

Robotics & process automation

Visualization, reporting & analytics

New organizational set-up





Advanced Analytics



Artificial Intelligence / Machine Learning



Distributed ledger technology

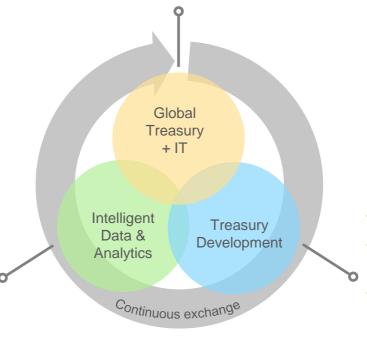
Interactive SAP Treasury Dashboard

Project set-up

Starting position:

- Treasury system available in most relevant countries
- 97% of bank statement posted automatically on a daily basis
- Intraday statements for most relevant cash management banks
- Centralized bank account management
 - Development of dashboard architecture
 - Front-end design in SAP Analytics Cloud
 - Integration of content into the Digital Boardroom
 - Technical maintenance

- Definition of goals and project scope
- Content development and user stories
- Driving backend integration and standardization
- Internal/ external exchange



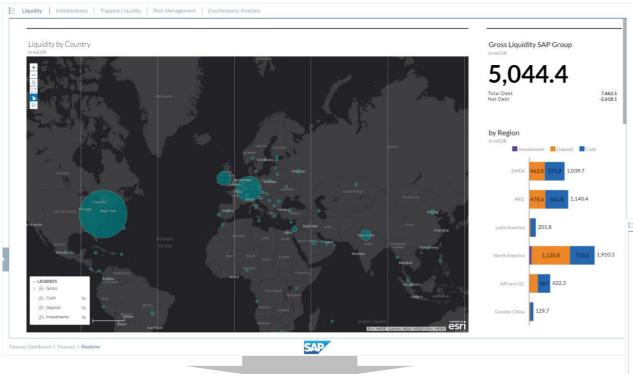
- Delivery of broad data cube
- Collection and translation of customer needs
- Cooperation and co-innovation with Global Treasury



Business Insight – Treasury Dashboard: Liquidity & Investment

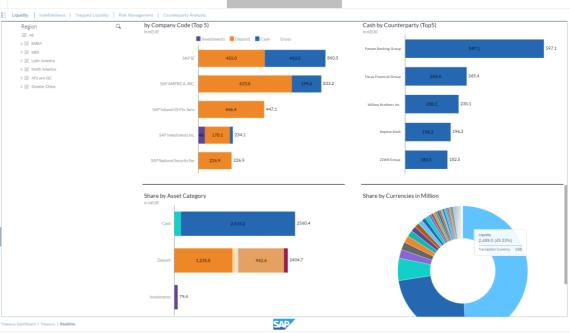
Overview





- The liquidity can be distinguished by different criteria like e.g. by asset type (deposits, money market funds, etc.), currency or by counterparty
- Furthermore, the user will get information on average yields and durations on investments
- Another important information to CFOs is the share of liquidity which can be centralized and is available as well as which part is trapped

- The liquidity map shows how SAP's funds are distributed across the globe on a real-time basis
- The bubbles on the map give CFOs, risk committees or treasury employees a simple, transparent and comprehensive view on the geographical distribution of SAP's group liquidity
- The user is able to choose a certain region or entity level in which he has specific interest and receives deeper information on the type of liquidity



Interactive SAP Treasury Dashboard

Content

Liquidity and Investment Overview

- Overview Group Liquidity: Breakdown by
 - Geographical Distribution/ Entity
 - Liquidity & Investment Type
 - Counterparty
 - Currency
- Liquidity Flows over time
- Trapped Cash
- Investments: Yields and Durations

Financial Risk

- Counterparty Credit Risk and LimitUtilizations
- Foreign Exchange Management Summary

Indebtedness

- Maturity Profile incl. Cost of Debt
- Fixed / Variable Interest Rate Ratio
- Bilateral Credit Facilities
- Bank Guarantees
- Intercompany Loan Agreements

SAP Treasury Dashboard

Powered by SAP S/4 HANA

Bank Relationship 360°

- Bank Profiles
- Treasury business with banks
- Banks as SAP's customer

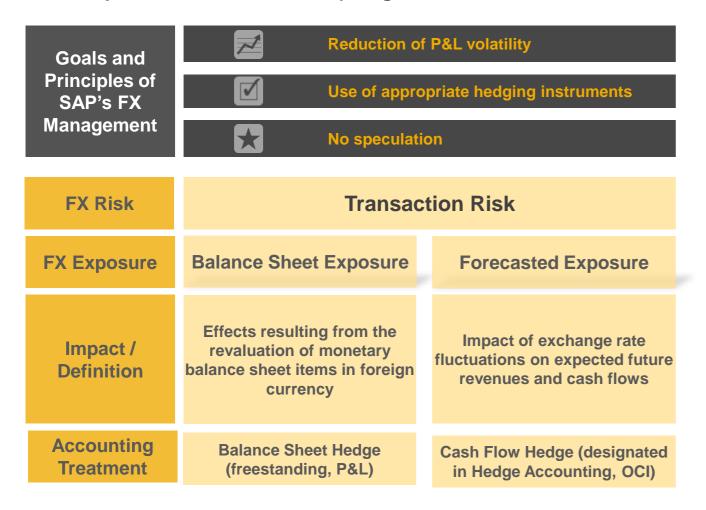
Market Overview

- Major Foreign Exchange Rates
- Share Prices
- News Room
- Interest Rates
- Peer Comparison

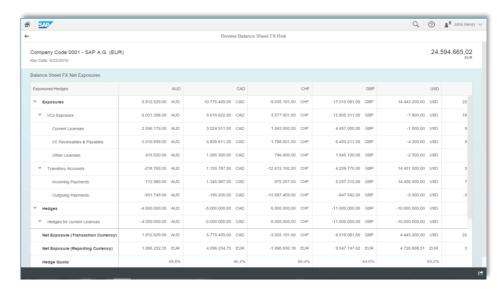
FX risk management



FX Management at SAP Group is the management of transaction risk, as it can negatively impact SAP's profits and cash flows (hedges based on balance sheet and forecasted exposure)



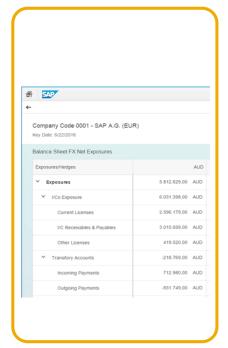
Balance Sheet Exposure: Detailed reporting of balance sheet positions in foreign currency for all SAP Group companies



FX risk management – End-to-End process

Quantify Balance Sheet Exposure

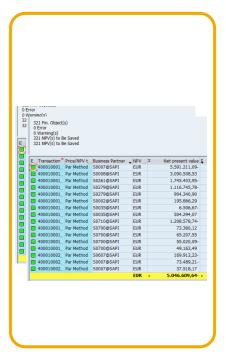
- Execute
 Hedges
 Interface to 360T
- Deal checking and settlement
 - EMIR
 Reporting
 via Virtusa Polaris
- Deal valuation and posting











Innovation needs more than one step

Requirements and milestones for a successful digital transformation:

- Business process re-design: Simplification and standardization of finance processes as the basis for core modernization / data source cleansing
- Digital mindset: On-boarding (buy-in) of employees and learning initiatives to tackle new challenges and drive digital change based on agile working modes
- This fundament enables the further automation of end-to-end processes (first phase) and the integration of new smart technologies, real-time reporting / steering to enhance intelligent decisions



Appendix



Interactive Treasury Dashboard

Counterparty Credit Risk



SAP

- Counterparty credit risk plays a central role in risk reporting and has gained significant importance since the global financial crisis and the default of Lehman Brothers
- This is why SAP Global Treasury defined limits for its core and non-core banks based on rating categories. The utilization of these limits is reflected per bank group on a compliance map which gives the user an intuitive view on limit exceedances and whether there is need for action

SAP Treeury Dashboard Pentrel to ECPT.441804

If a bank shows a limit exceedance, the user is able to get more detailed information on the source of the exceedance, the exposure development over time and other bank specific KPIs.

Depending on the source of the exceedance, a treasurer can immediately initiate countermeasures in order to reduce the exposure



Thank you.

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