### Heraeus



Use of SAP Commodity Management for the precious metal trading activities of the Heraeus Group

Christian Veith – SAP Mining and Metals Forum – Darmstadt – October 2014



## Agenda

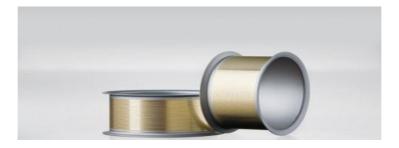
- 1. Overview Heraeus Group
- 2. Overview Heraeus Precious Metal Trading
- 3. Precious Metal Trading As Is SAP Environment
- 4. Precious Metal Trading To Be SAP Environment
- 5. Summary New SAP system TRD companies
- 6. Current project status Roll-Out new SAP for TRD companies



## Overview Heraeus Group

- A globally active precious metals and technology Group
- Family-owned for over 160 years
- Active in global markets characterized by a clear differentiation lasting growth and attractive returns
- Over 12,500 employees in more than 110 companies\*
- 2013 product revenue: €3,6 billion
- 2013 precious metals trading revenue: €13,5 billion







<sup>\*</sup> as of: December 31, 2013



## Overview Heraeus Group

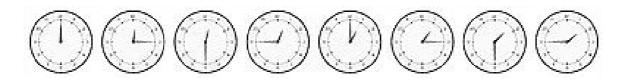
- Heraeus's business groups
  - Precious Metals
  - Materials and Technologies
  - Sensors
  - Biomaterials and Medical Products
  - Quartz Glass
  - Specialty Light Sources







## Overview Heraeus Precious Metal Trading



SHANGHAI | HONG KONG | HANAU | NEW YORK

GLOBAL TEAM LOCAL EXPERTISE AROUND THE GLOBE AROUND THE CLOCK

CLOSE TO THE MARKET CONNECTED TO THE CUSTOMER

ALL SEVEN PRECIOUS METALS

GOLD | SILVER | PLATINUM | PALLADIUM | RHODIUM | RUTHENIUM | IRIDIUM

## Overview Heraeus Precious Metal Trading

**VALUE CHAIN** 

#### **INFRASTRUCTURE**

**QUALITY** 

**LEADERSHIP** 

#### **LOOP SERVICES**

#### **ALL-ROUND SOLUTION**

Integral collaboration with Heraeus Recycling and Heraeus Product Businesses

=> Enhanced convenience and efficiency for clients

#### **DIVERSE CUSTOMERS**

Extensive customer base of leading companies across industries and regions

=> Exceptional flexibility and client understanding

#### **RELIABLE PARTNERSHIPS**

Relationships with mining companies, industrial users, traders, financial institutions and investors => Great insight into all aspects of the value chain

"ONE-STOP-SHOP"

#### **ALL LOCATIONS PROVIDE**

- Trading & Hedging Services
- **❖** Back-Office Operations
- Worldwide Logistics & Deliveries
- Transfers via Weight Accounts
- Financing
- Market Analysis & Research

#### **BENEFITS**

- Fast operational workflows
- Leveraged knowledge from immediate interaction along the operational process

#### SUSTAINABLE SOURCING

#### **INTERNALLY**

Metals from extensive refining activities of the Heraeus Group

#### **EXTERNALLY**

Metals from primary producers providing stability of supply in times of volatility & uncertainty

#### **SUPPLY CHAIN POLICY**

Stringent adherence to our Supply Chain Policy ensures sourcing from legitimate and ethical sources

#### **ONE STEP AHEAD**

#### READY FOR THE FUTURE

At the forefront of market watch and analysis to anticipate market events and reactions

#### SUPPORTING DECISION-MAKERS

Internal and external know-how sharing to provide direction and support in decision making

#### **MEMBERSHIPS**

- ❖ LBMA & LPPM
- ❖ IPMI & IPA
- Silver Users Association
- German Precious Metals Association

=> We actively participate in trade organizations and are a recognized leader in the market

GOLD | SILVER | PLATINUM | PALLADIUM | RHODIUM | RUTHENIUM | IRIDIUM

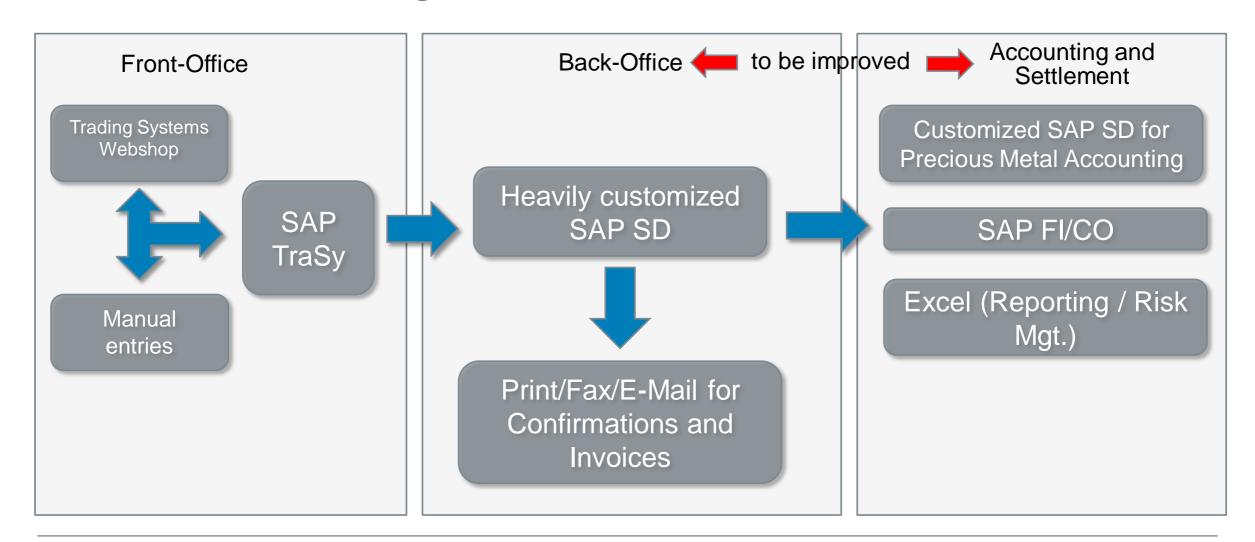


## Heraeus SAP History

- Heraeus became SAP customer in 1981
- Heraeus Precious Metal Trading implemented highly modified version of SAP SD and custom developed trading system (TraSy) and precious metal accounting system to support precious metal trading processes.
- In 2012 Heraeus started project Magellan to globally harmonize all processes in one single SAP system.
  - Decision to use SAP Commodity Risk Management and SAP TRM for trading
  - Heraeus production groups use SAP Commodity Procurement and Sales including the Commodity Pricing Engine (CPE) for commodity pricing.
  - Integration between CPE and Exposure Management is used to extract commodity price exposures and then transfer and manage them within the Heraeus Precious Metal Trading group.

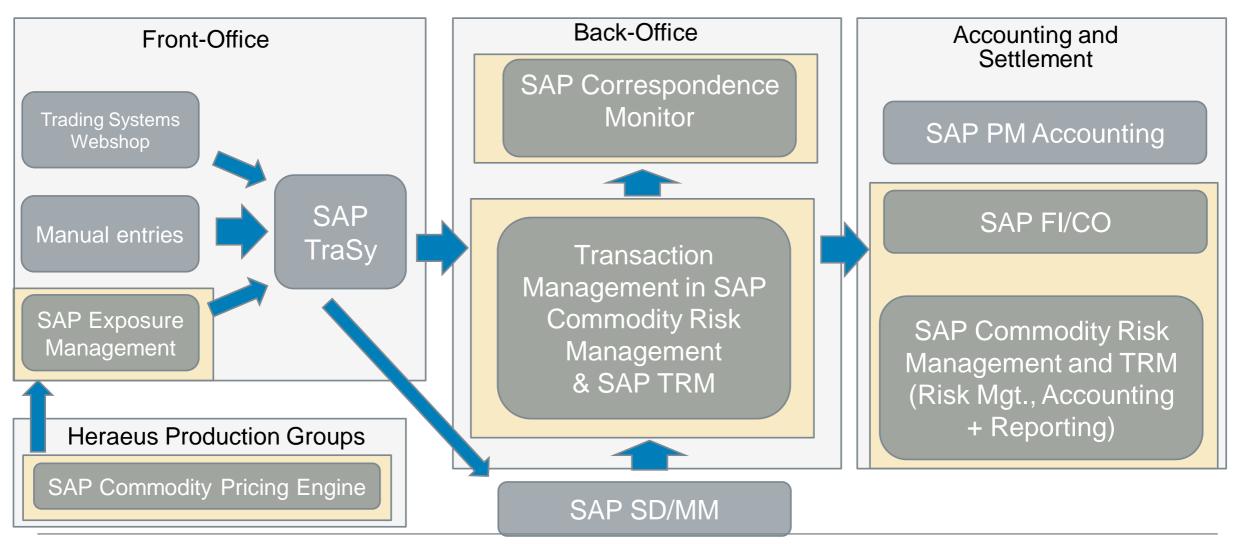


## Precious Metal Trading As Is - SAP Environment





# Precious Metal Trading To Be – SAP Environment



SAP Mining and Metals Forum - Darmstadt - October 2014



## Precious Metal Trading To Be – SAP Environment

- Use of SAP Standard wherever possible
- Main areas of enhancements within SAP Standard (Part I):
  - Front End System:
    - Interface with Heraeus-own-developed SAP Front-End/User Interface for Trading (TrasY)
  - Transaction Processing:
  - Product type / Transaction type to separate the various kind of transactions
    - Interface SAP TRM with SAP SD/MM for physical handling of precious metals
  - Enriched tab strips in SAP Commodity Risk Management to handle precious metal specific data
    - Link between SAP Commodity Risk Management and Heraeus developed Precious Metal Accounting system



## Precious Metal Trading To Be – SAP Environment

- Main areas of enhancements within SAP Standard (Part II):
  - SAP Correspondence Monitor
  - Development of Swift MT 600 format in the SAP Correspondence Monitor
  - Controlling/Accounting/Reporting
    - Sales/Cost of Sales Recognition Process for PM transactions
  - Precious Metal Risk reporting to cover specific Heraeus requirements



## Heraeus Precious Metal Trading Product Type set up in SAP 1



### Source

TraSy Front End Producttypes: PM Deals, **FX Deals** (59 Product Types)

Treasury Inhouse Bank Product Types: **FX Deals** Money Market Deals

Transaction Types Precious Metal Trading PM Deals Physical

PM Deals **Pool Account** 

PM Deals Cash Settled

PM Transfers

PM Loans

PM Options

Generic PM Flow

Generic FX Flow

FX Deals

**FX Options** 

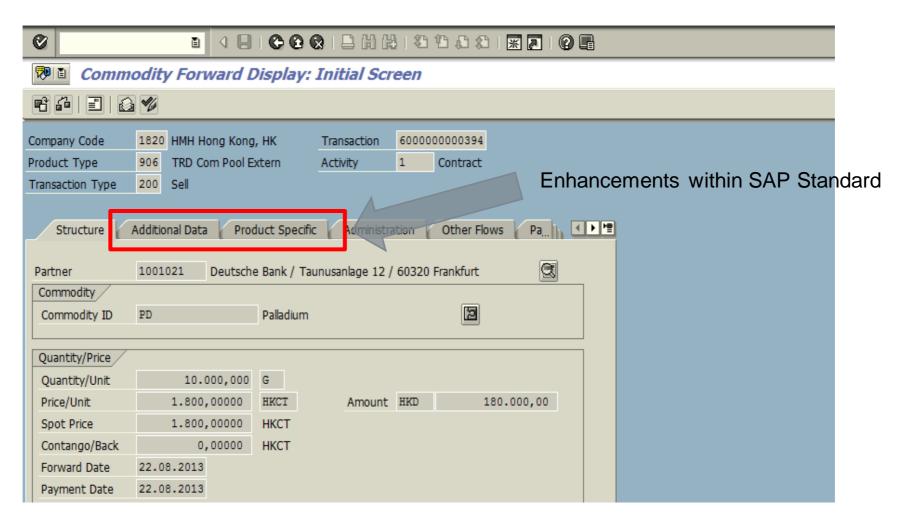
Internal/External Partners Correspondence Consolidation Netting Authorizations

> Different Accounting Requirements **IFRS** Local Netting

Different steps for processing within the SAP Modules SD, MM, FICO, TRM

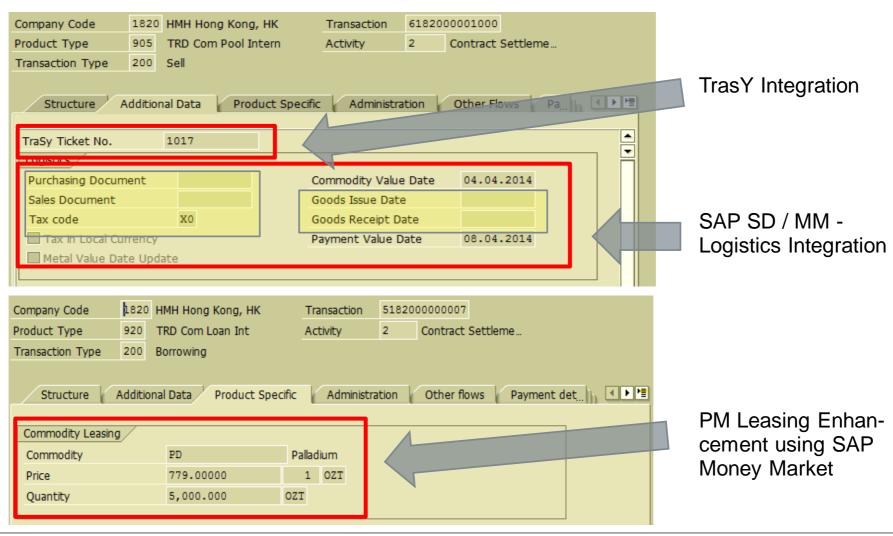


# Enriched tab strips to handle precious metal specific data 2



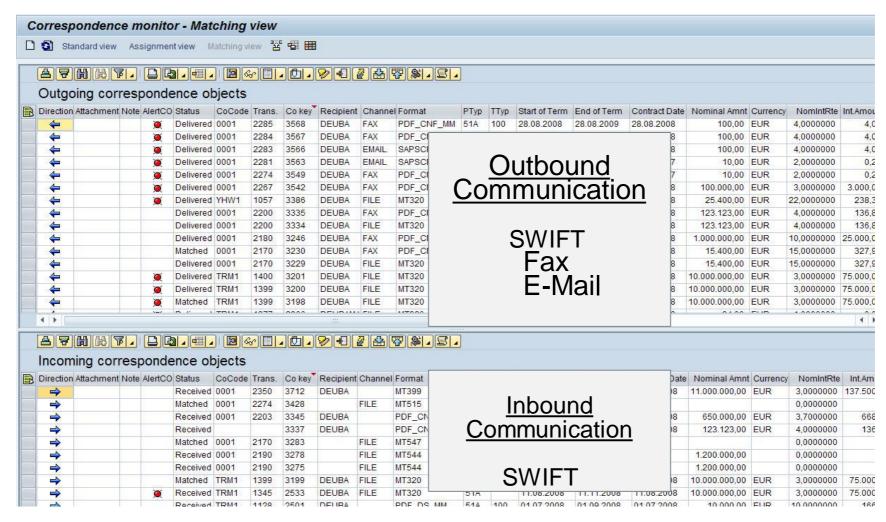


# Enriched tab strips to handle precious metal specific data 2



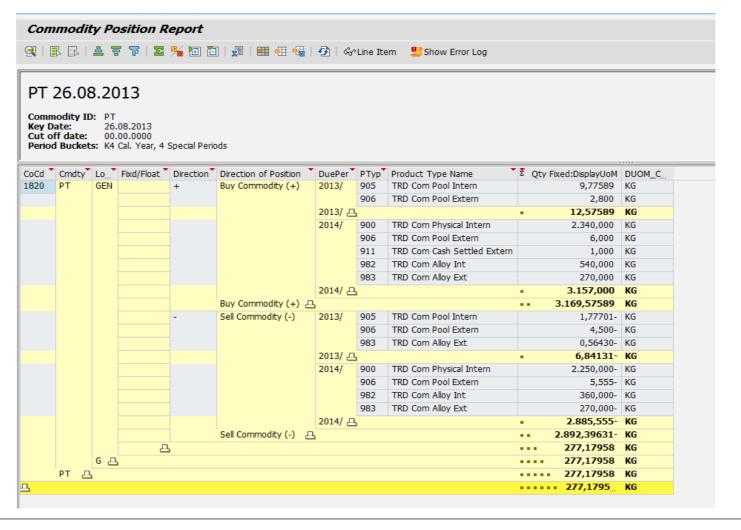


# SAP Correspondence Monitor 3





# Riskreporting: Precious Metal Position Report 4





## Summary – New SAP system for precious metal trading companies

### Major achievements to be realized with the new SAP environment:

- Management of global exposure within Exposure Management
- More automation in the area of communication (Integration of Swift MT 600, SAP Correspondence Monitor)
- Replace (heavily customized) SAP SD solution with SAP Commodity Risk Management and SAP TRM Standard + Enhancements
- Eliminate weaknesses in the area of accounting, controlling and risk management
- Increase transparency by implementing SAP Standard



## Summary – New SAP system for precious metal trading companies

- Use SAP Standard processes for trading operations (For example: Create, Settlement, Post) wherever possible
- More flexibility in the future for upcoming changes in accounting
- Ability to participate with further SAP standard developments based on SAP Commodity Risk Management and SAP TRM (eg. EMIR)
- Close collaboration with SAP Group (SAP Consulting, SAP Custom Development and Solutions Team) to develop and implement the new SAP solution for Precious Metal trading activities.



## Current project status – Roll-Out new SAP for Heraeus companies

Go Live new SAP system trading company Hong Kong: 30 March 2014



Go Live new SAP system Heraeus production company Singapore: July 2014



- Go-Live scheduled for Trading company in Shanghai: 01 Nov 2014
- Trading companies in New York and Hanau scheduled to Go Live until 30 June 2015

### Heraeus

