

# CEPSA Digital Transformation Strategy and HANA Top Priorities in Oil&Gas and Chemicals

Miguel Canteli. February 2016.



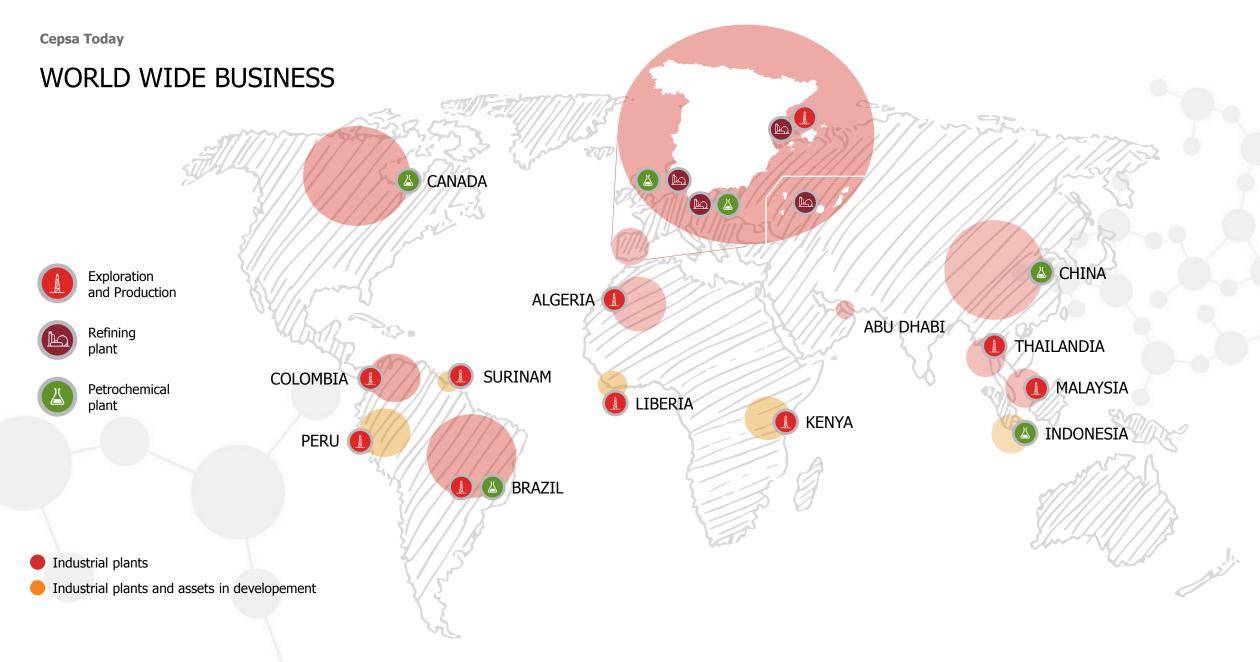


## **CEPSA Today. Business Priorities**

Digital Strategy

Migration to HANA in Memory (CEPSA/SAP Project)



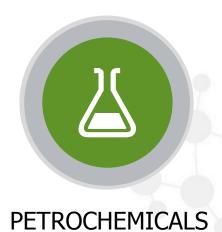


#### **OUR ACTIVITIES**





**REFINING** 







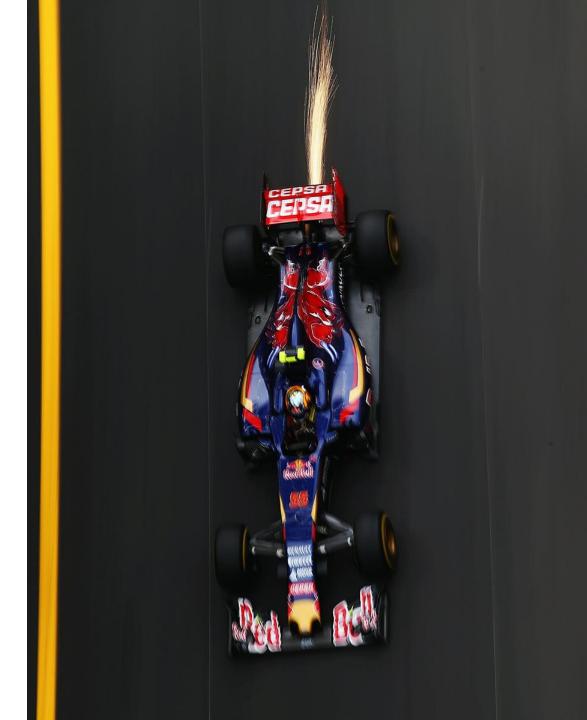




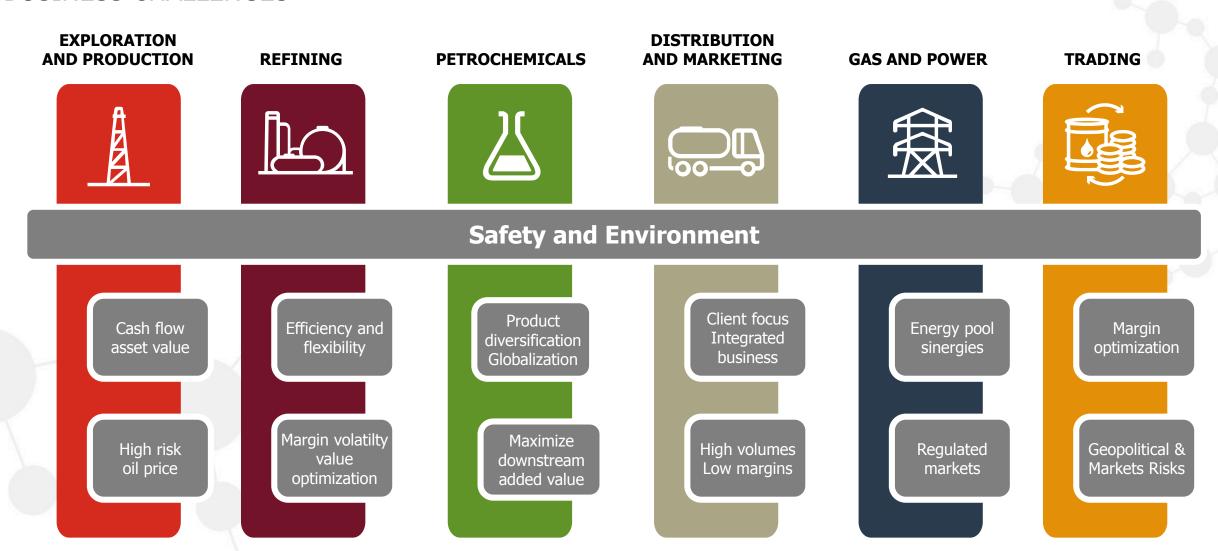
**DISTRIBUTION** AND MARKETING

#### LEADERS IN...

- We are world leaders in producing raw materials for biodegradable detergents (LAB) and account for 15% of the world's capacity
- With the production of the Shanghai plant, Cepsa will become the world's second largest producer of phenol/acetone.
- We are also leaders in the Spanish aviation fuel market.
- We have developed processes, in the area known as EOR/IOR, which allow us to recover on average an extra 20% of crude oil from fields.



#### **BUSINESS CHALLENGES**



#### **BUSINESS PRIORITIES**





Cepsa Today. Business Priorities

## **Digital Strategy**

Migration to HANA in Memory (CEPSA/SAP Project)



#### IT STRATEGIC OBJECTIVES



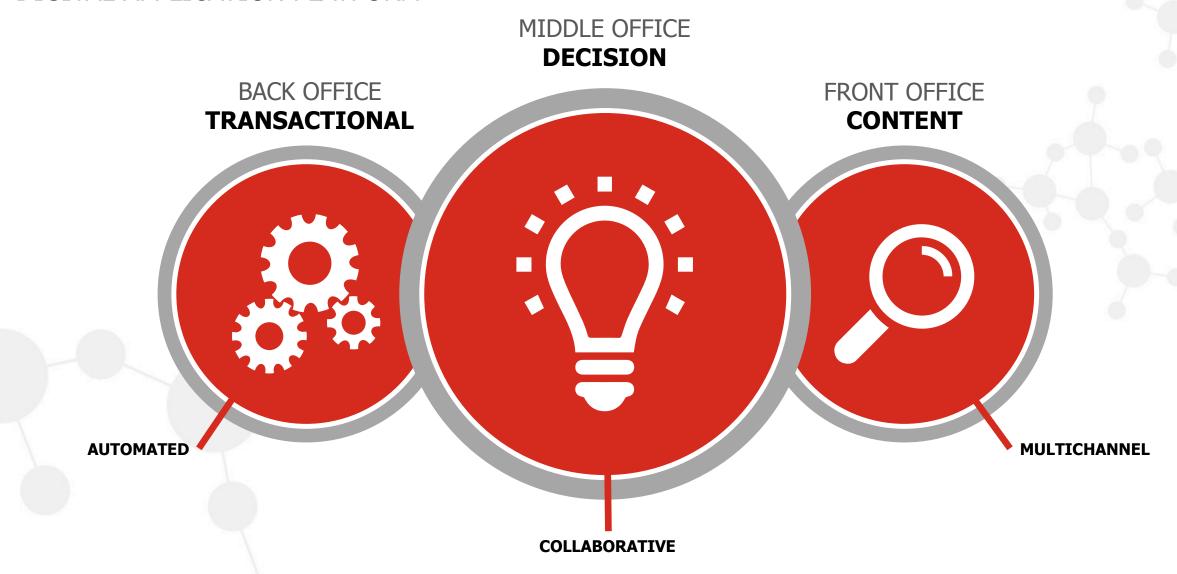
#### DIGITAL ARCHITECTURE

#### E&P SUPPLY MANUFACTURING LOGISTICS **RETAIL** MARKETING FINANCE SHARED SERVICES Technology common technologies across the value chain Horizontal Software Layer Integration Portals / User access Collaboration / Virtual Teams Content and Knowledge Management Business Intelligence and Data Management **Application and Process** Integration IT COMPONENT CATALOG **ERP-HANA** Reuse Component Repository Web Services Development **BUSINESS PROCESS** Data Base Access **CATALOG OS and Security**

Business processes

Gartner & MIT Report: "Cepsa. Raising the performance of the IT organization and increasing reuse levels"

#### DIGITAL APPLICATION PLATFORM



### DIGITAL INTEGRATION PLATFORM

MIDDLE OFFICE **DECISION** 

BACK OFFICE FRONT OFFICE

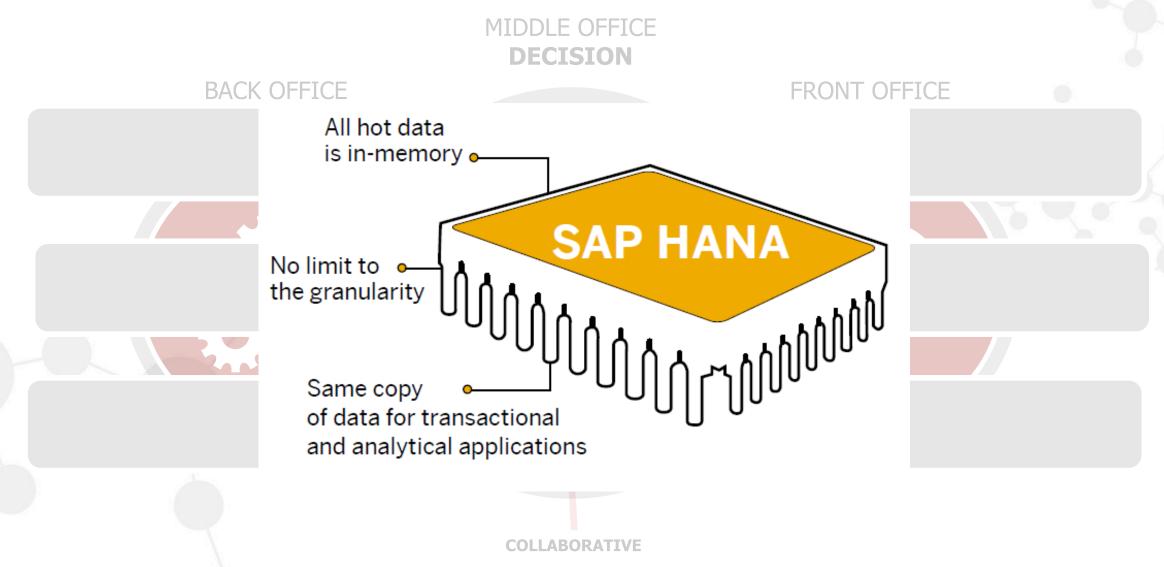
## **REALTIME AND MULTICHANNEL**

### **NEW WAYS OF WORKING AND SOCIAL**

## **PREDICTIVE ANALYSIS**

COLLABORATIVE

#### DIGITAL INTEGRATION PLATFORM





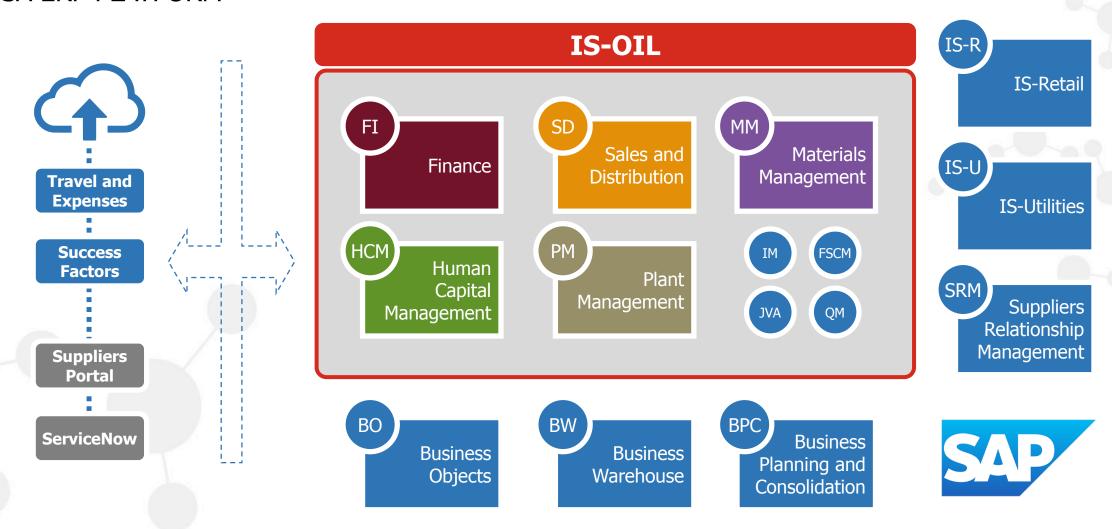
Cepsa Today. Business Priorities

IT Strategy

Migration to HANA in Memory (CEPSA/SAP Project)

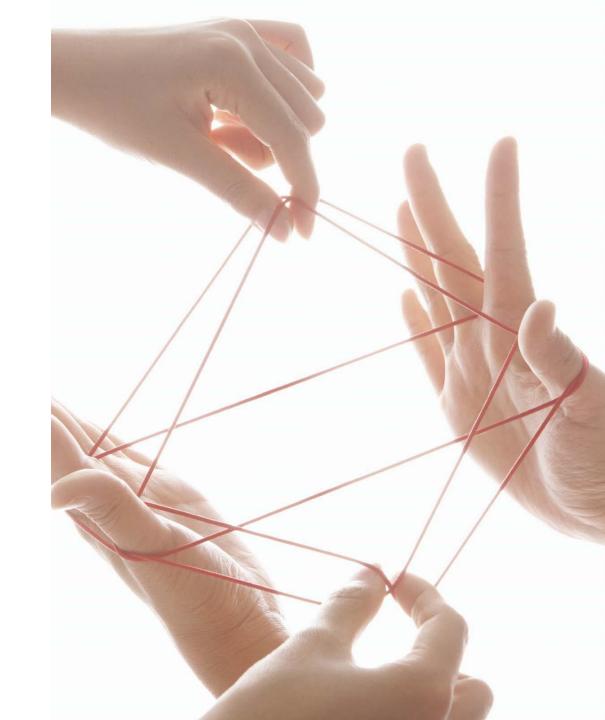


#### CEPSA ERP PLATFORM

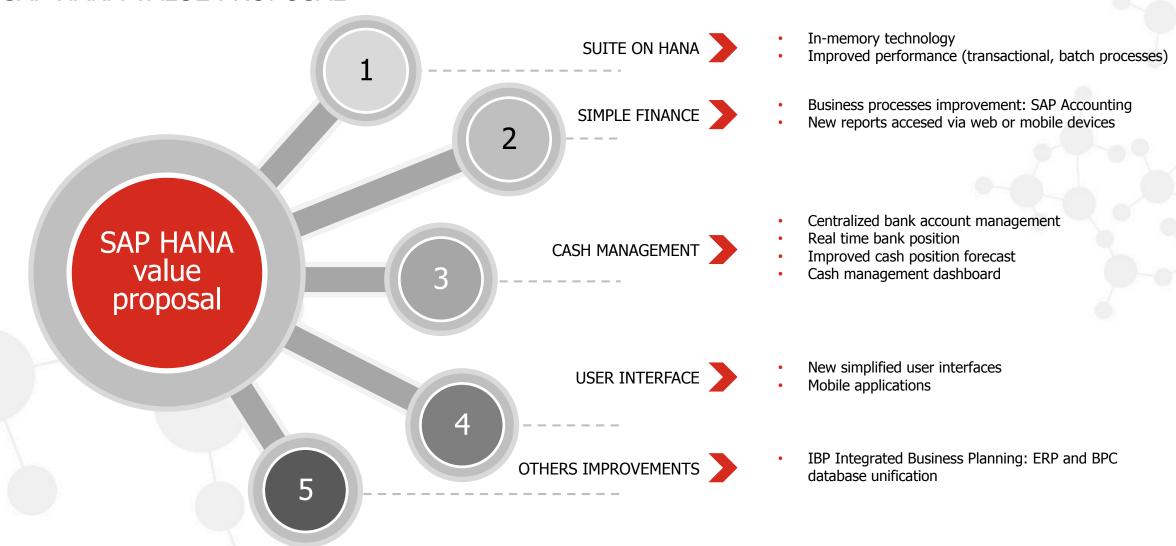


#### CEPSA HANA MIGRATION PROJECT

- One single SAP integrated instance for all business areas (IS-Oil), with more than 2.800 users
- Large database size and complexity, high level of customization
- Business continuity to be improved
- Cepsa Board fully committed
- HUAWEI selected as infrastructure partner
- PANAYA code cleaning and testing tools
- Migration from ECC 6.0 EHP4 to ECC 6.0 EHP7 on HANA
- Project scheduled from May 18<sup>th</sup> to November 8<sup>th</sup>



#### SAP HANA VALUE PROPOSAL



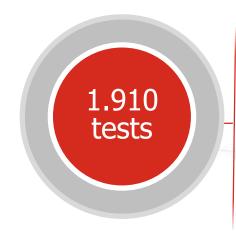
#### PROJECT KEY VALUES



Reports
Roles
Transactions
Interfaces
Jobs
Queries
User exits



Software changes made to ensure successful migration



Functional tests to ensure proper functioning of SAP applications on HANA



75% database reduction from 7,9 a 2,1 terabytes

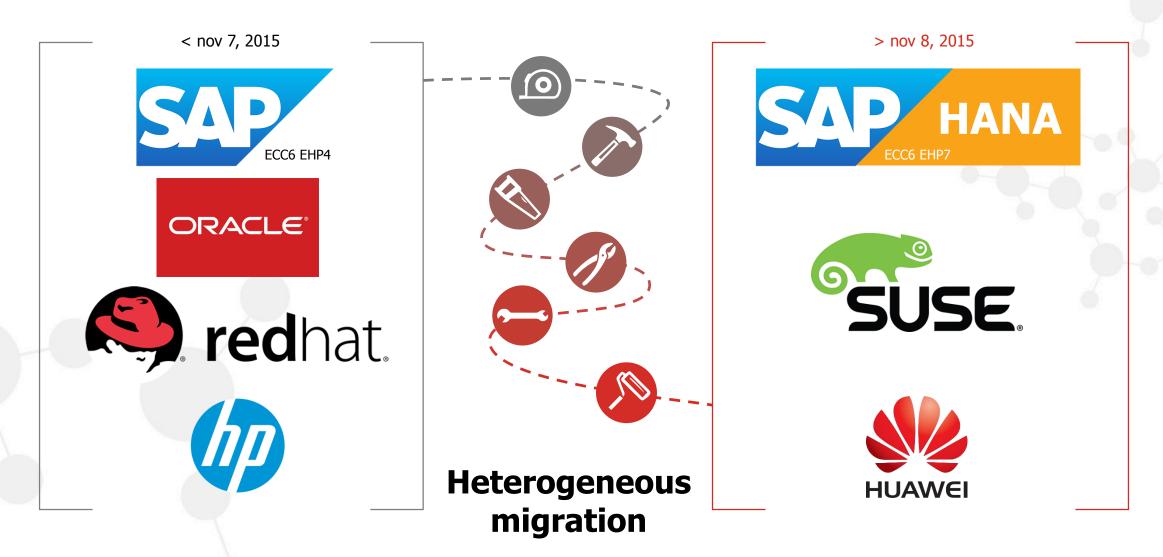


Over 110
technical
resources
involved in
migration process

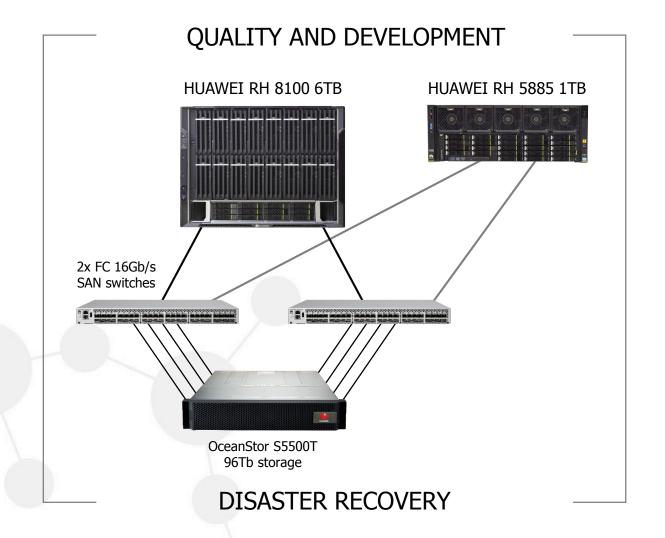


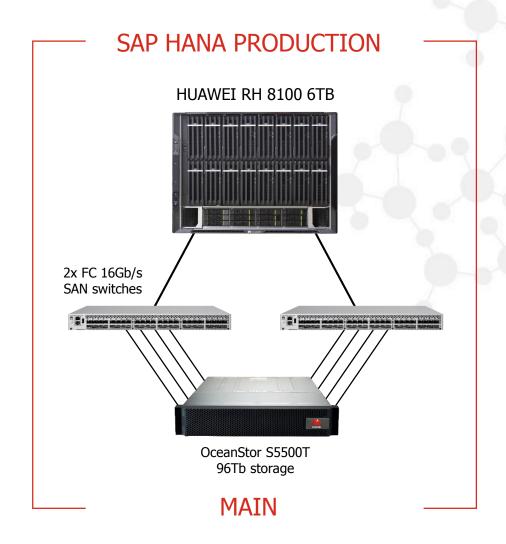
More tan 20.000 working hours

#### ARCHITECTURE

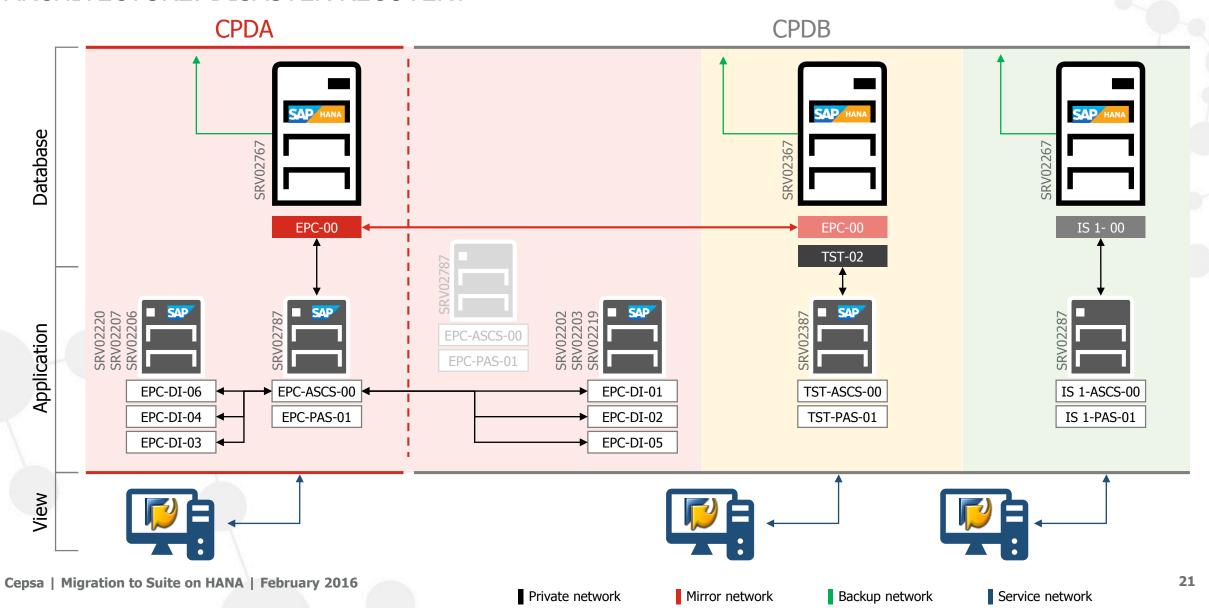


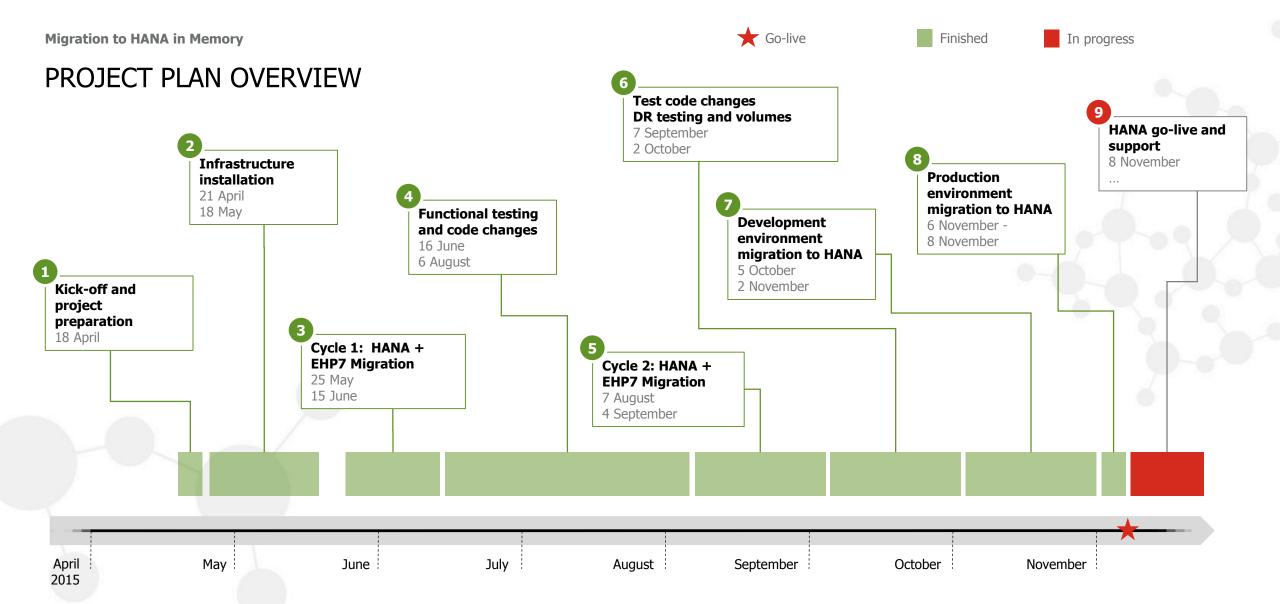
#### ARCHITECTURE





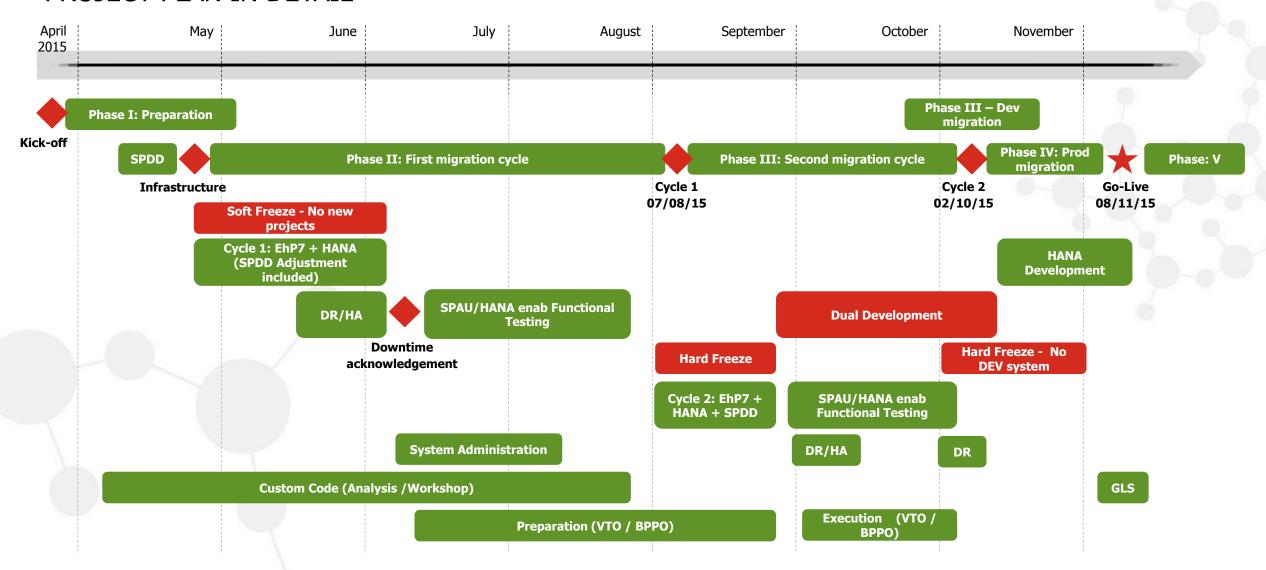
#### ARCHITECTURE: DISASTER RECOVERY





Project executed **according to the plan initially established** with no significant deviations

#### PROJECT PLAN IN DETAIL



#### RISK MANAGEMENT AND CONTINGENCY PLAN

#### **Main risks in production migration**



#### **Downtime too high**

Potential high downtime that may not fit with the go-live weekend



- Performed several technical migrations in order to optimize the process
- Archiving information in order to reduce downtime



#### **Remote connection**

Remote connection availability of outsourcing services to HANA environment (virtualized via Citrix)



 An alternative channel was provided for remote connection in case of main channel failure



#### **Integrated cutover plan**

Lack of coordination of activities among the different teams involved in migration



- A single migration plan shared by all the teams was prepared
- Consolidation of this cutover plan before migration

#### Main contingency plan



The **current SAP** production environment **could be activated again** if for some reason would **not have been possible** to complete **the migration** within established plan (go / no go decision on Sunday November 9 at 15:00)

#### **NEXT STEPS**



## Migration to Suite on HANA

- SAP BPC for Planning and Consolidation
- SAP Business Warehouse (BW)
- SAP IS-Utilities
- SAP IS-Retail
- Simple Finance and Cash Management proof of concept



# THANK YOU

