Real-Time Enterprise Management with SAP Business Suite on the SAP HANA® Platform

Jürgen Butsmann, Solution Owner, Member of Global Business Development Suite on SAP HANA, SAP
October 9th , 2014

Public

Agenda

Big Data / Internet of Things

Suite on HANA

Analytics

- SAP Business Warehouse (BW)
- SAP HANA Live
- SAP Smart Business

Integration SAP HANA Live and SAP BW

Agenda

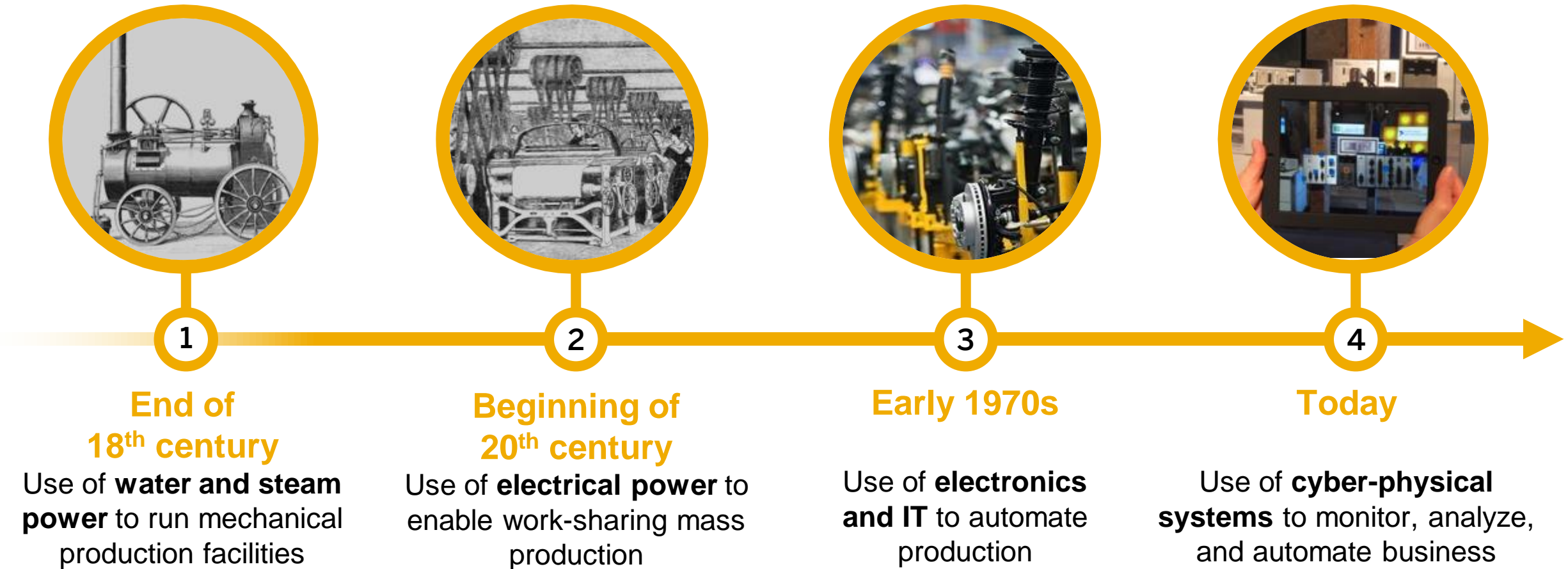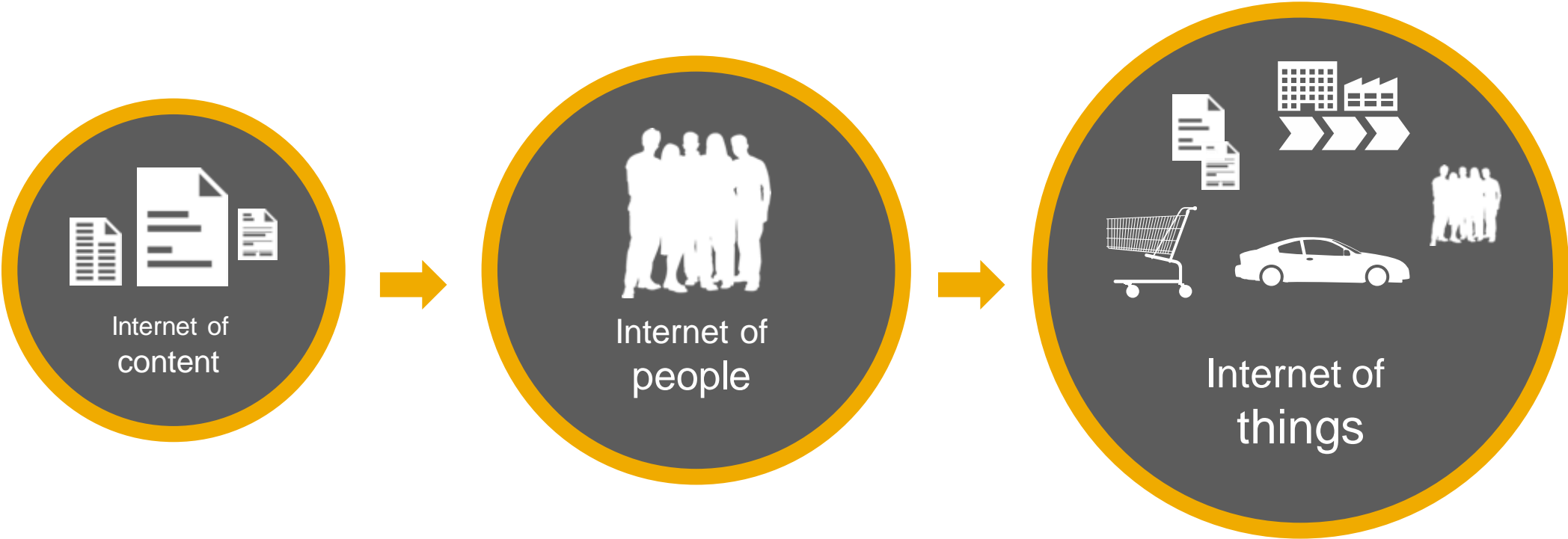**Big Data / Internet of Things**

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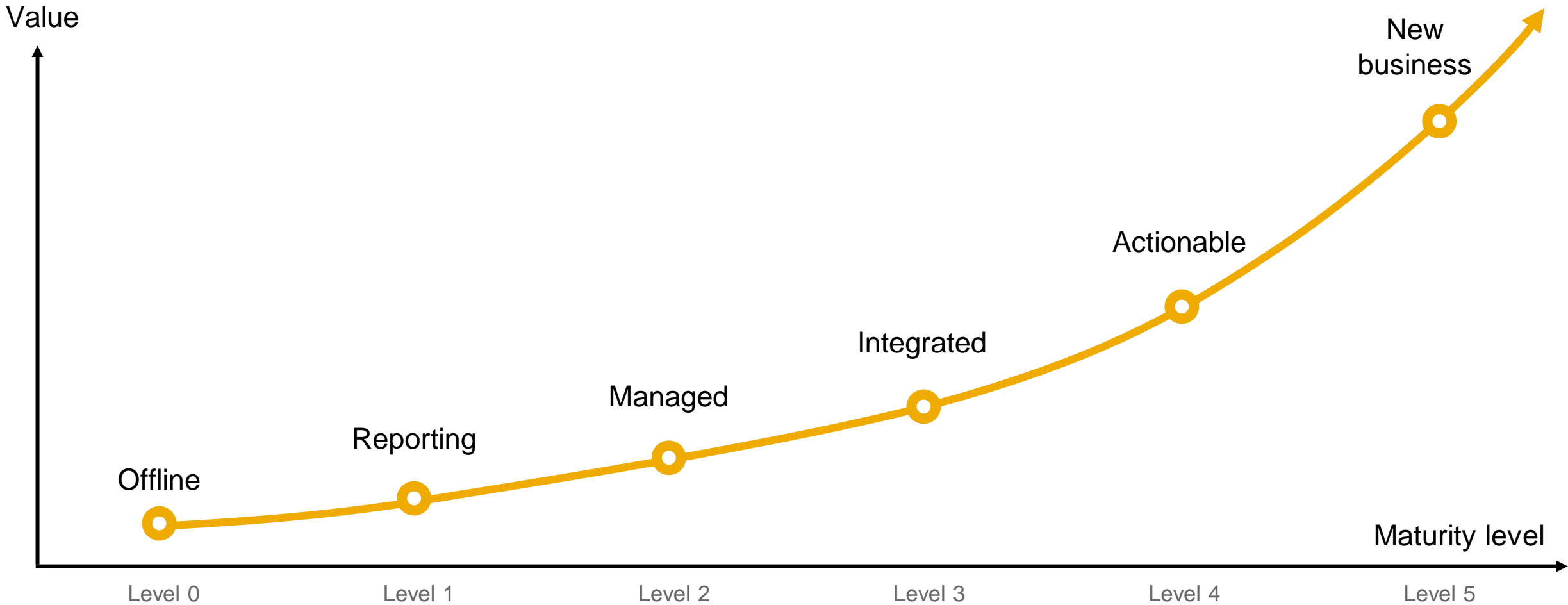
Getting to the 4th Industrial Revolution

1

End of 18th century

Use of **water and steam power** to run mechanical production facilities

2

Beginning of 20th century

Use of **electrical power** to enable work-sharing mass production

3

Early 1970s

Use of **electronics and IT** to automate production

4

Today

Use of **cyber-physical systems** to monitor, analyze, and automate business

Connecting information, people, and things

Internet of content

Internet of people

Internet of things

Understanding how the Internet of Things will transform business

Value

New business

Actionable

Integrated

Managed

Reporting

Offline

Maturity level

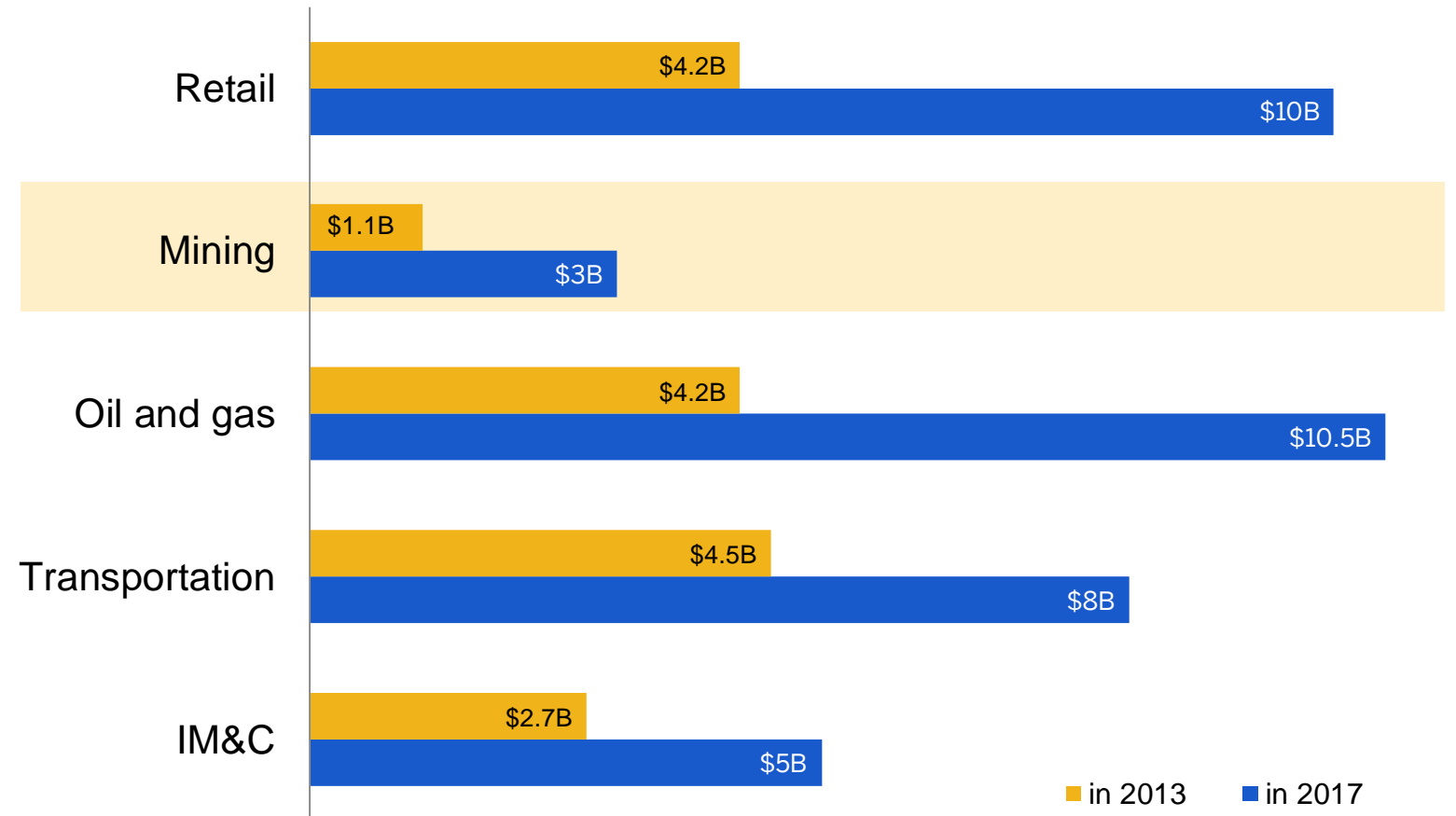Level 0 · Level 1 · Level 2 · Level 3 · Level 4 · Level 5

Capturing your share of the value at stake
Industries are investing now!

$14.4T

in value at stake – the combination of increased revenues and lower costs that is created or will migrate among companies and industries from 2013 to 2022.

Retail
- $4.2B (in 2013)
- $10B (in 2017)

Mining
- $1.1B (in 2013)
- $3B (in 2017)

Oil and gas
- $4.2B (in 2013)
- $10.5B (in 2017)

Transportation
- $4.5B (in 2013)
- $8B (in 2017)

IM&C
- $2.7B (in 2013)
- $5B (in 2017)

■ in 2013   ■ in 2017

Source: Cisco

Monitoring, analyzing, and automating business – and life

Responsive supply chains

Remote service management

Smart home

Smart cities

Connected asset management

Connected logistics

Connected car

Connected healthcare

Connected retail

Smart buildings

Smart family

Smart policing

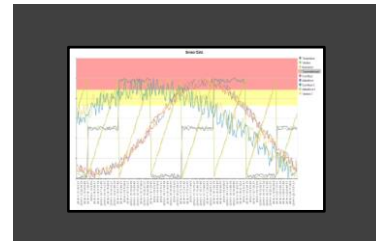# Remote Maintenance and Service

Increase effectiveness
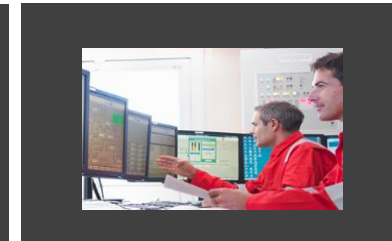
Effectiveness is the capability of producing a desired result

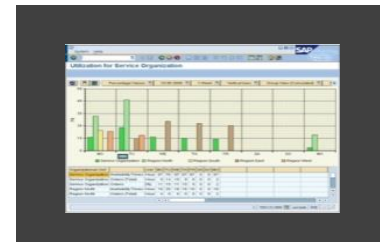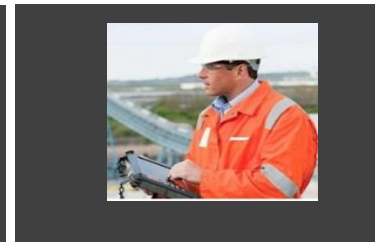| IT / OT Connectivity | Condition Monitoring Remote Service | Fault Pattern Recognition | Machine Health Prediction |

Increase efficiency

Time, effort or cost is well used for the intended task or purpose

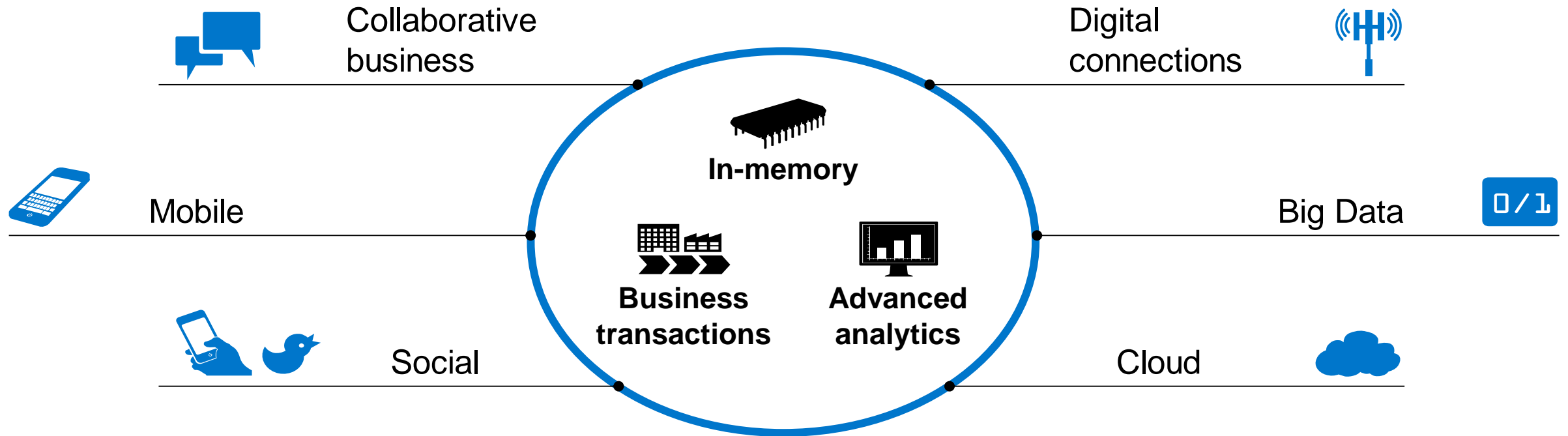| Create Maintenance or Service Order | Schedule Order | Execute Order on mobile device | Visual Support |

SAP Business Suite powered by SAP HANA
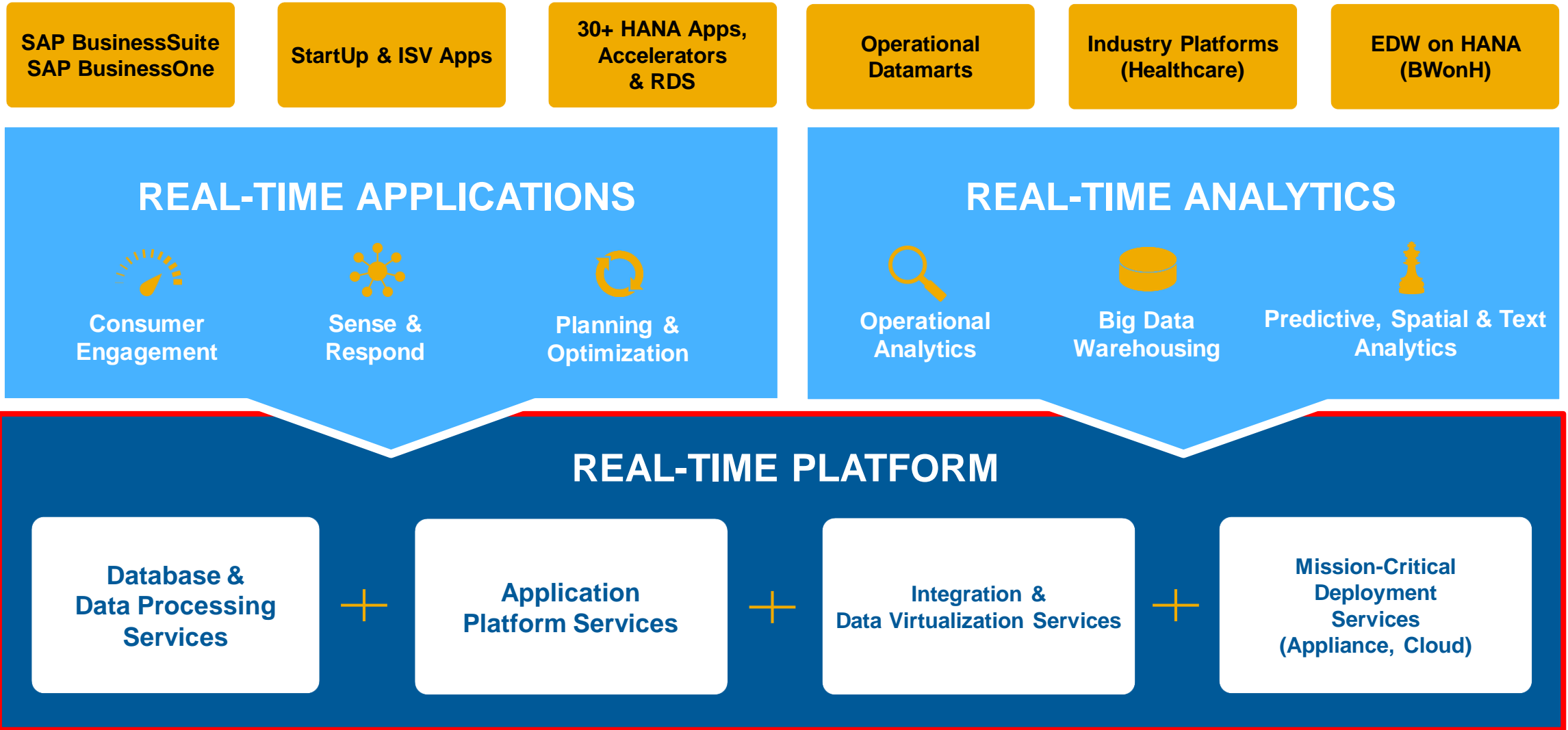The next-generation business platform

Real-time business

Collaborative business

Digital connections

Mobile

In-memory

Big Data

Business transactions

Advanced analytics

Social

Cloud

One platform bringing it all together

SAP HANA Platform
A platform for Big Data

| SAP BusinessSuite SAP BusinessOne | StartUp & ISV Apps | 30+ HANA Apps, Accelerators & RDS | Operational Datamarts | Industry Platforms (Healthcare) | EDW on HANA (BWonH) |

REAL-TIME APPLICATIONS

Consumer Engagement

Sense & Respond

Planning & Optimization

REAL-TIME ANALYTICS

Operational Analytics

Big Data Warehousing

Predictive, Spatial & Text Analytics

REAL-TIME PLATFORM

Database & Data Processing Services

\+

Application Platform Services

\+

Integration & Data Virtualization Services

\+

Mission-Critical Deployment Services (Appliance, Cloud)

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A platform for many use cases

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Accelerated roadmap for SAP HANA
From database to platform

Real-time analysis
and reporting

OLAP & OLTP
together

New cloud
deployment
option

New
user experience

SAP HANA

Agile Datamarts

SAP HANA Apps
& Accelerators

SAP NetWeaver
Business
Warehouse powered by
SAP HANA

SAP Business Suite
powered by SAP
HANA

SAP HANA Enterprise
Cloud

SAP Fiori

SAP Smart
Business
Cockpits

+ HANA Apps

2011   April 2012   January 2013   May 2013   October 2013

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The value of real-time business – SAP Suite on HANA
Higher business value, lower IT cost, more engaged people

Innovation Foundation

New applications

New business processes

New business models

Simpler IT with Choice
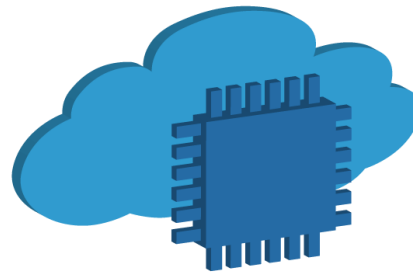
OLTP and OLAP together

Hybrid deployment model

Integration

Personalized User Experience

New UX tailored by role

Instant insight to action

All devices

SAP Business Suite on HANA – Customers

in 37 countries

>50% through Partners
86 active Partners

itelligence   Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING

Deloitte.   UNIORG

...

>1300
Customers
161 live

in all 26 Industries

in Small, Medium &
Large Companies

33%   60%   7%

<100 users   100 - 10,000 users   > 10,000 users

...

23 in HANA Enterprise Cloud (HEC)

Simple Finance Add-On
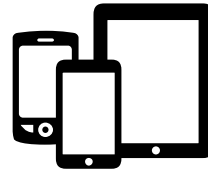
SAP Accounting
powered by SAP HANA

Alternative in-memory
functionality for ERP customers

SAP Cash Management
powered by SAP HANA

New product for
Group Cash Management

Integrated
Business Planning

New capabilities and enhanced
integration for ERP and BPC.

Business Suite on HANA

SAP HANA Platform

Unified Financial and Management Accounting

ERP Financials any classic DB

Stability → ← Flexibility

Real World Process e.g. Invoice

- FI Document
- CO Document
- Totals & Indices Financial Accounting
- Pre-Defined Aggregates
- Totals & Indices Management Account.

Processing

Analytics

− Data Redundancy
− Reconciliation Effort
− Minor Flexibility

SAP Accounting powered by HANA

Stability → ← Flexibility

Real World Process e.g. Invoice

- FI Document
- CO Document
- Totals for Financial Accounting
- HANA views on the fly
- Totals for Management Accounting

Processing

Analytics

+ Higher Throughput
+ Reduced Reconciliation
+ Higher Flexibility
+ Reduced Data Volume
+ High Performance

SAP Simple Finance in HEC vs. Simple Finance Add-On

CFO

?

Cloud

On Premise

Simple

Flexible

Comprehensive
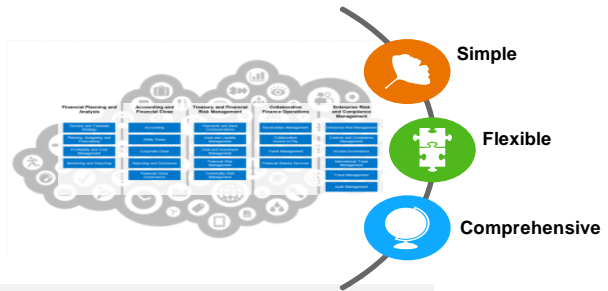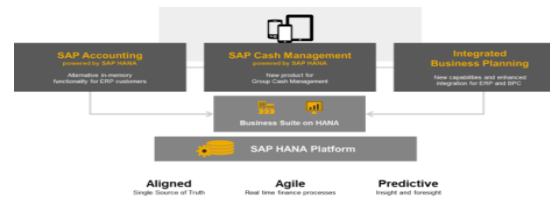
SAP Simple Finance for HANA Enterprise Cloud

- Managed service in the SAP HANA Enterprise Cloud
- Covers the Finance Value Map incl. the financials add-on
- Subscription License

Simple Finance Add-On

- Based on Suite on HANA
- Contains new HANA-based Accounting and Cash Management plus enhanced integration between ERP and BPC
- Enhances the Finance solutions
- Perpetual License

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Big Data / Internet of Things

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- **SAP HANA Live**
- **SAP Smart Business**

Integration SAP HANA Live and SAP BW

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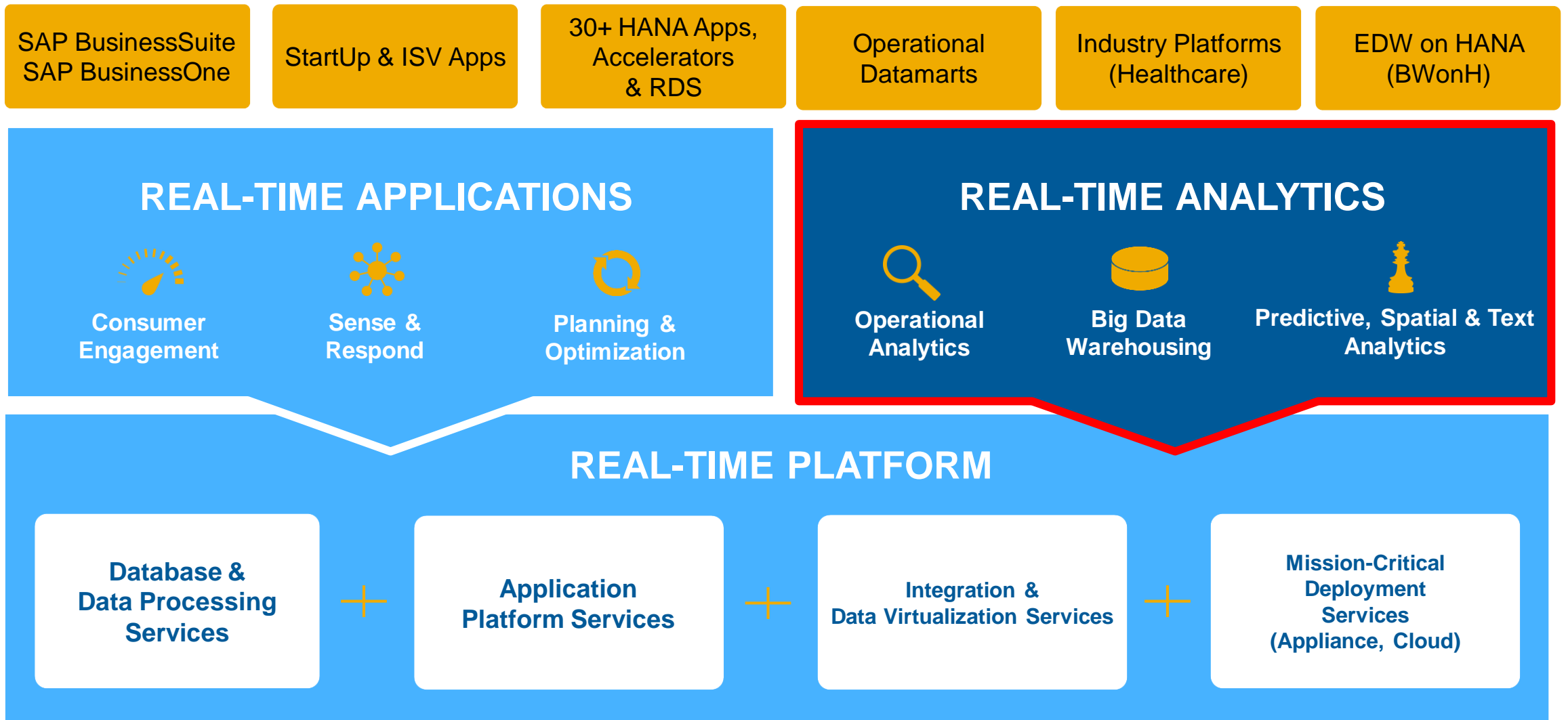
SAP is revolutionizing the Data Warehouse by simplifying the architecture while eliminating redundancy and latency

Transactions

Traditional: OLTP and OLAP Separate

ETL

24hr Old Data

ETL

Aggregate

Multiple Data Sources

ETL

Lots of separate ETL processes!

Streams

Staging DB

ETL

10:00 AM

48 Hours

10:00 AM

Transactions Streams

OLTP + OLAP in SAP HANA

Current Data

Merge

Smart Data Access

Multiple Data Sources available with **Live** Access

10:00:00 AM

Immediate

10:00:00 AM
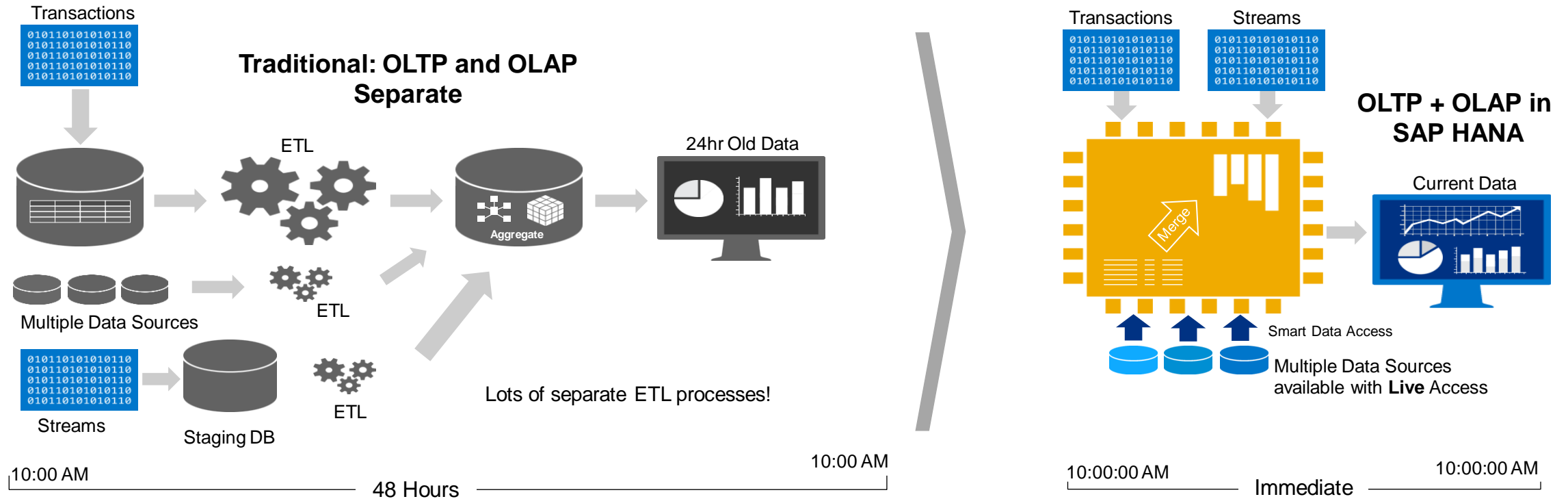
Simplified: Eliminates staging DBs or intermediate calculation, aggregates and storage

Accelerated: In memory performance for real time access and applications

Predictive: Built-in support for predictive algorithms and streams

Understanding how SAP HANA transforms your Enterprise Data Warehouse (EDW) processes

Value

Maturity level

New business

Actionable

Integrated

Managed

Reporting

Offline

Level 0   Level 1   Level 2   Level 3   Level 4   Level 5
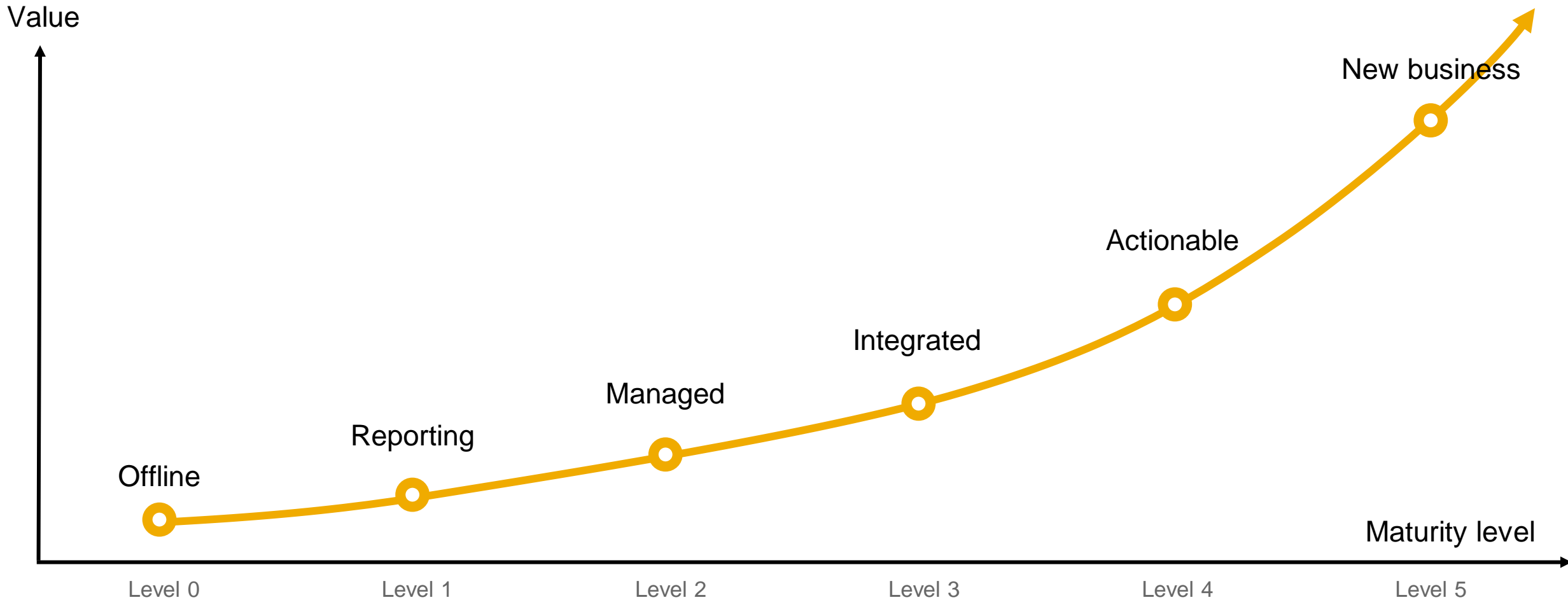
SAP HANA Live architecture
Foundation for new class of applications

SAP Business Suite Applications

Zero latency!

Operational Reporting

SAP HANA PLATFORM

Database Layer

HANA Views

Physical Tables

Atomic

instantaneous

Pre-defined
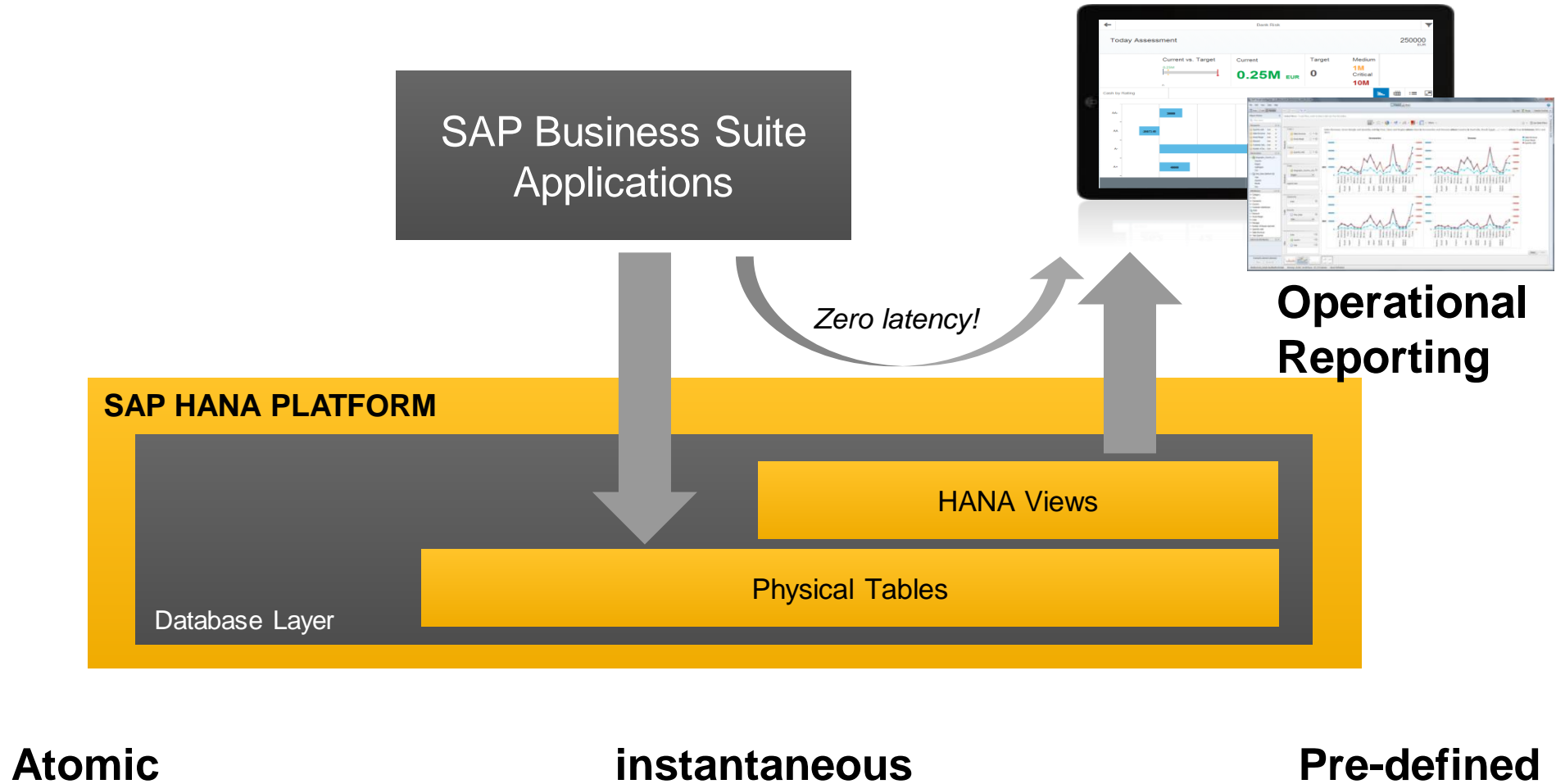
SAP HANA Live architecture
The "HANA Sidecar"

SAP Business Suite Applications*

Analytic Applications

Query Tools

Traditional RDBMS

Database Layer

Physical Tables

Real-time Replication (SLT)

SAP HANA PLATFORM

Database Layer

HANA Views

Physical Tables
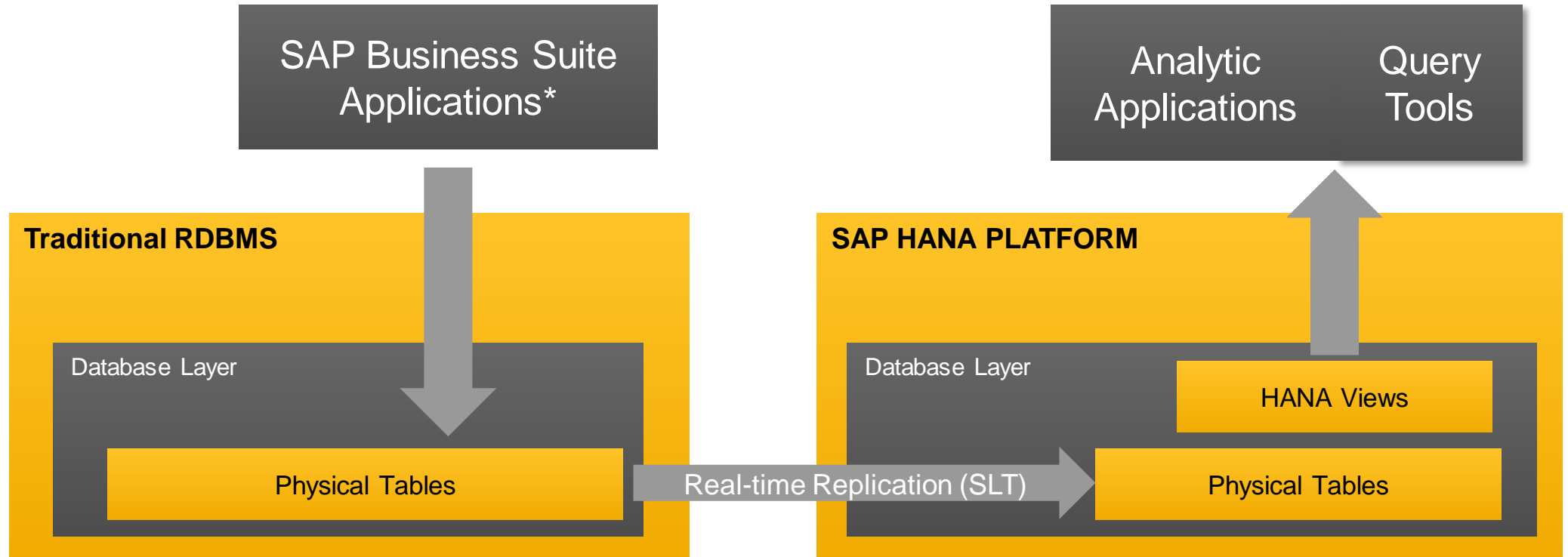
*e.g. SAP ERP supported as of SAP ERP 6.0 SPS12

Demo – SAP HANA Live

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REAL-TIME ANALYTICS

Operational Analytics

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Application Platform Services

+

Integration & Data Virtualization Services

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Mission-Critical Deployment Services (Appliance, Cloud)

New class of real-time analytical applications
HTML5-based solutions powered by SAP HANA from Insight to Action
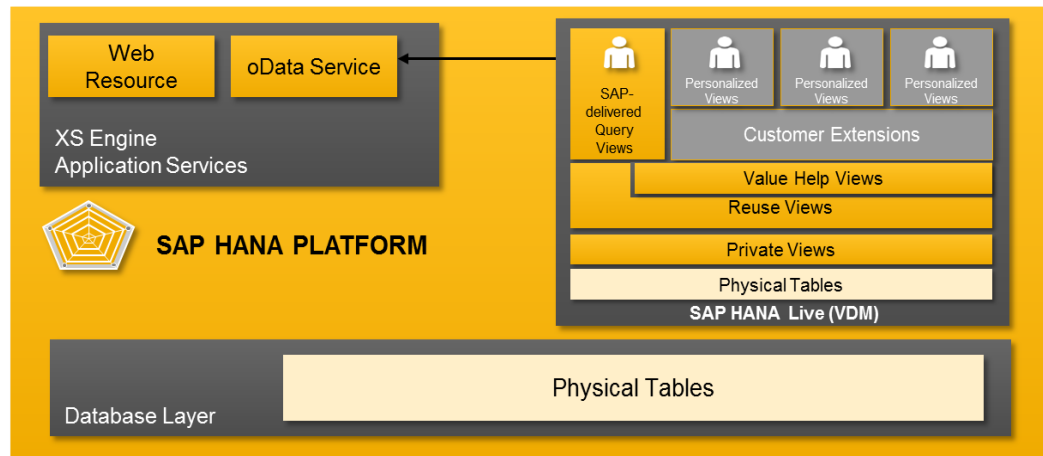
Analytical Applications

SAP Smart Business Cockpits
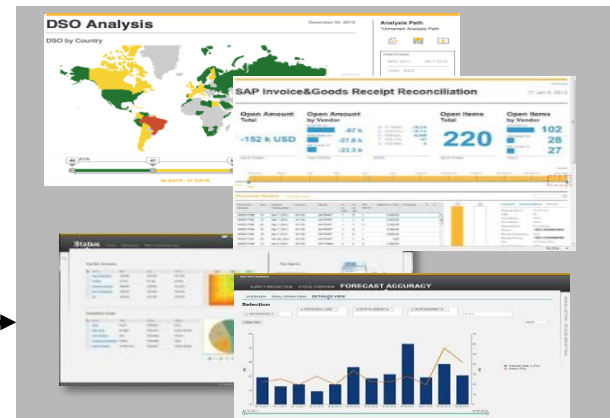
- SAP Working Capital Analytics
- SAP Invoice & Goods Receipt Reconciliation
- SAP Identity Analytics
- SAP Supply Chain Info Center
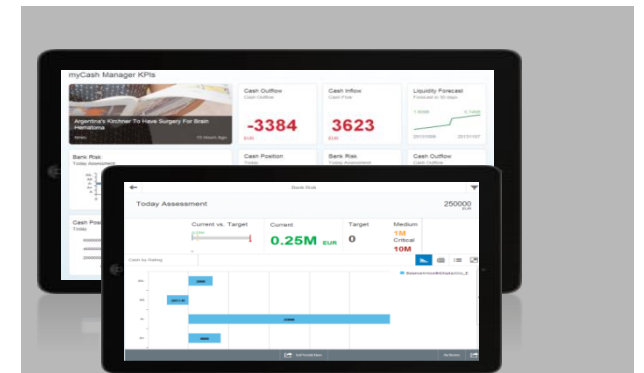
- Now combining real-time insights with analytics and transactional follow-up activities to allow better and faster decisions

- Following the SAP Fiori Design Principles

Real-time analytics

No unnecessary data movement

Simplified and unified

Introducing SAP Fiori
Keeping Simple Things Simple

SAP Fiori is the **new user experience** (UX) for SAP software. It applies **modern design principles** for a completely reimagined user experience.

SAP Fiori UX is the **new face of SAP** to business users in all lines of business **across devices and deployment options**. It provides **optimal usability** for simplified business interactions and ease of use.

SAP Smart Business cockpits available today

RESPONSIVE

My Team's Projects – Today
Project Status

Critical	4
Warning	1
Good	7
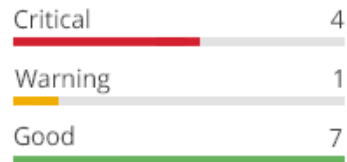
SAP Smart Business for project execution

Avg. Cycle Time Delayed Deliveries POD
by Country
1011   225

X07_CONS1
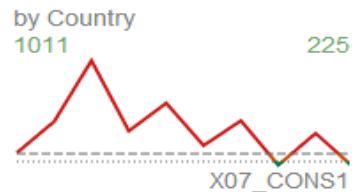
SAP Smart Business for event management

PERSONALIZED

Slow-Moving Item
Current Costs

13.93 B
EUR

SAP Smart Business for inventory management

Transportation Revenue
Year to Date

8.813 M
EUR

SAP Smart Business for transportation management

Sales Order Fulfillment Issue
Profit Hold – Max Amount

▲103.4 K
EUR

SAP Smart Business for sales order fulfillment

Financial Close Progress
Oct 2013 IDES

26
100

SAP Smart Business for financial close

SEAMLESS

Off-Contract Spend
Off Contract Spend in Equipment

36.5 %

SAP Smart Business for purchasing

Failed Access Provisioning
Failed Access Provisioning

4

SAP Smart Business for access control mgmt.

Liquidity Forecast
Forecast In 7 Days (USD)

1.542 B   938.6 M

Fri Jan 24 2...   Thu Jan 30 ...

SAP Smart Business for cash management

Top Opportunities Analysis
Top N Opportunities

497 K
USD

SAP Smart Business for sales performance mgmt.

BEAUTIFUL

My Materials with Shortages
TechEd MRP

62
Materials

SAP Smart Business for material requirements planning

...

Demo – SAP Smart Business – Project Executive
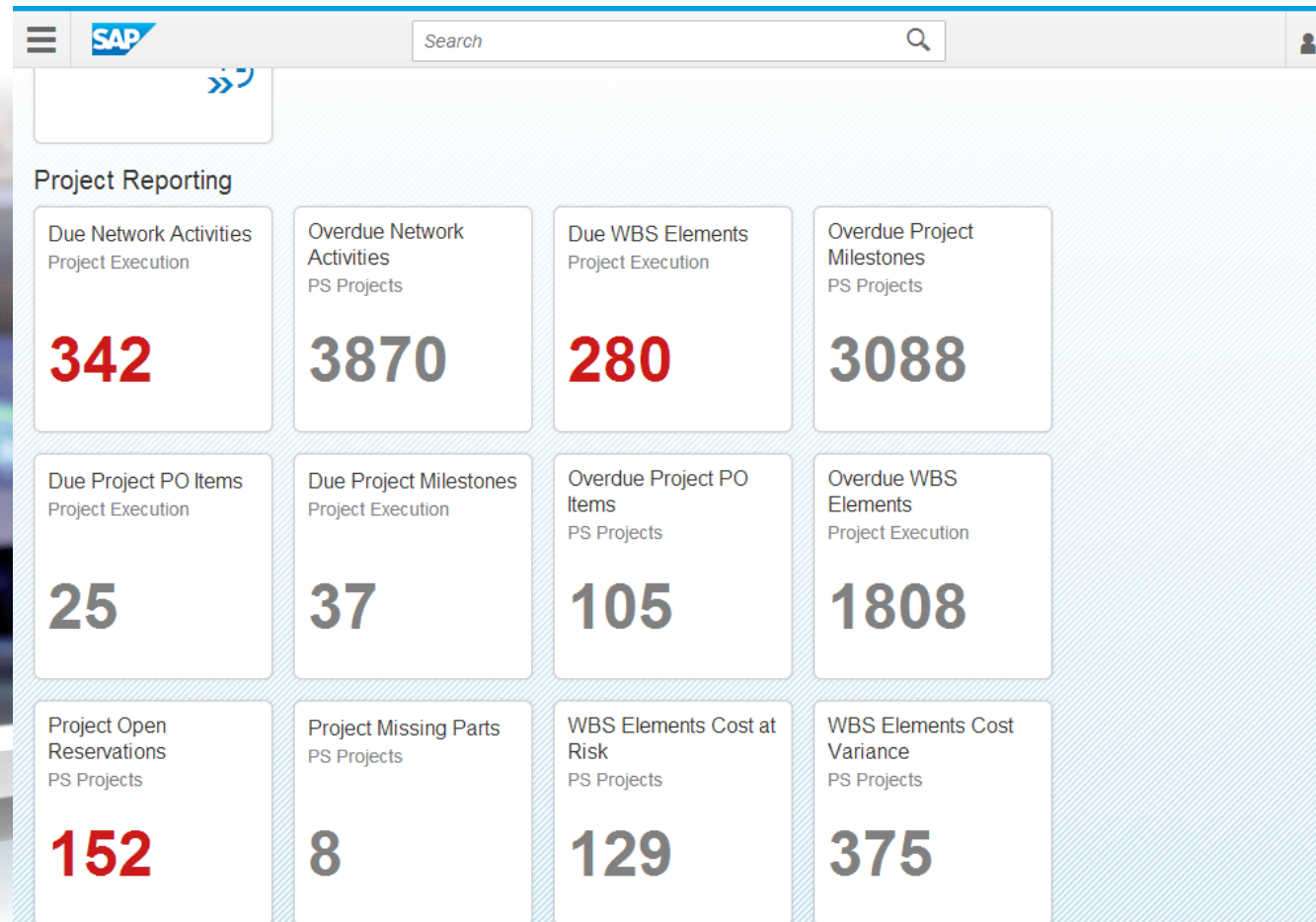
More Demos – on the Showfloor

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Key Takeaways: SAP HANA Live for SAP Business Suite and SAP
BW powered by SAP HANA…

New!
Get the positioning document
here

- …complement each other

- …can cover all analytic use cases on one data source

- …together provide a comprehensive reporting platform

- All described Integration scenarios will be further elaborated in a how-to guide (as part of the relevant blog in SDN)

Where to find more information
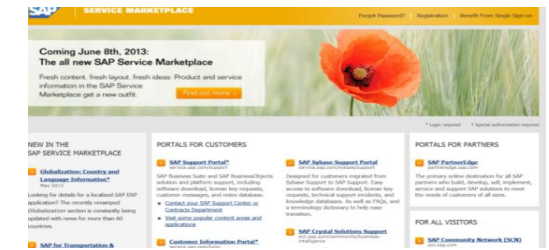
Visit us Online

- **SAP HANA community page:** www.saphana.com/suiteonhana

- **SAP HANA Live help portal:** http://help.sap.com/hba

- **SAP Smart Business Cockpits help portal:** http://help.sap.com/ssb

- **SAP HANA Live RDS:** http://service.sap.com/rds-shl

- **SAP Service MarketPlace:** http://service.sap.com/suiteonhana

- **Business Scenario Recommendation tool:** www.suiteonhana.com

- **SAP HANA Marketplace:** http://www.saphana.com/community/marketplace

- **SAP HANA Live on** www.SAP.com

  http://www.sap.com/solution/lob/finance/software/business-suite-apps-hana/operational-reporting.html

- **SAP HANA Live Video**http://www.youtube.com/watch?v=USOR0NusXOs&feature=youtu.be

- **SAP HANA Live FAQ (ext.):** http://www.saphana.com/docs/DOC-2923
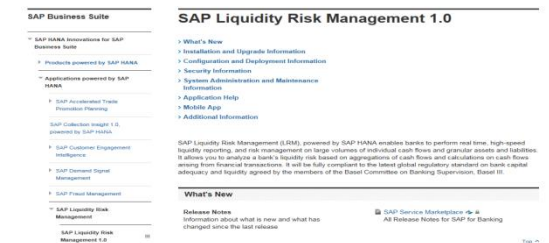
Overview Info: saphana.com

Technical Info – service.sap.com

Product Info – help.sap.com

Thank you

Contact information:

Jürgen Butsmann – juergen.butsmann@sap.com

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