

SAP S/4HANA - nová generace SAP business aplikací

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SAP a Digitalizace

„Digitální revoluce, na jejímž prahu stojíme, bude stejně hluboká jako předchozí velké civilizační revoluce“

Pavel Kysilka, ex-generální ředitel České spořitelny



Big data/Svět věcí
Technologické možnosti
Pokročilý prodej a marketing
Cloud
Podnikové sítě

SAP S/4HANA

Jak to v SAP začalo

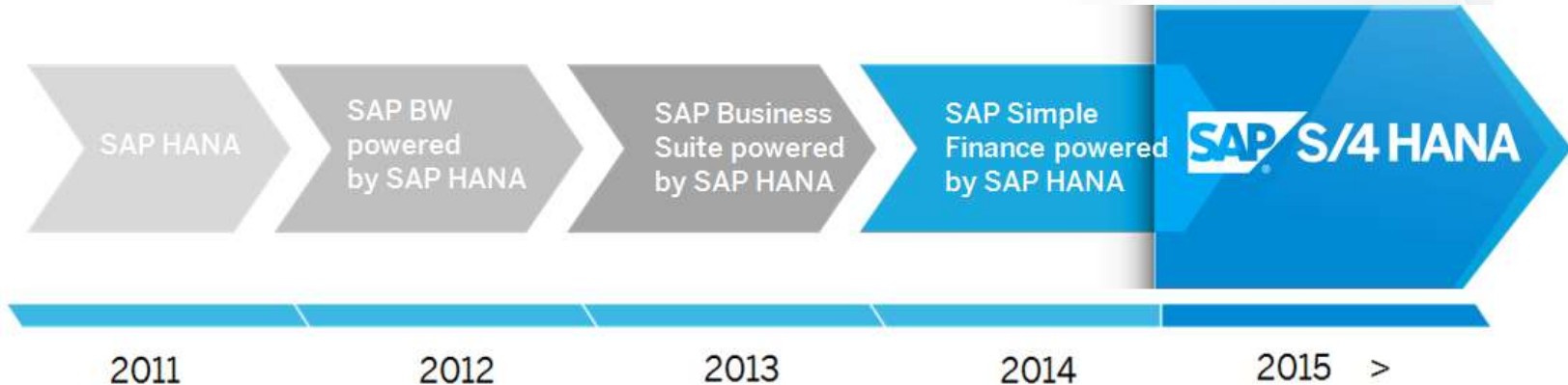
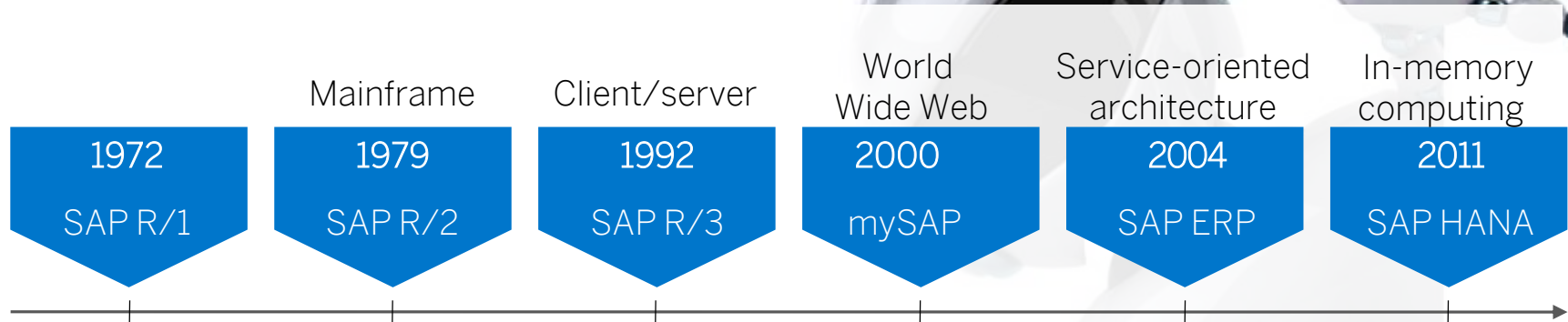
14 years after R/3, what would
an ERP system look like if we
start from scratch?

Hasso Plattner Institute,
Potsdam 2007



SAP S/4HANA

Klíčová komponenta digitálního podniku

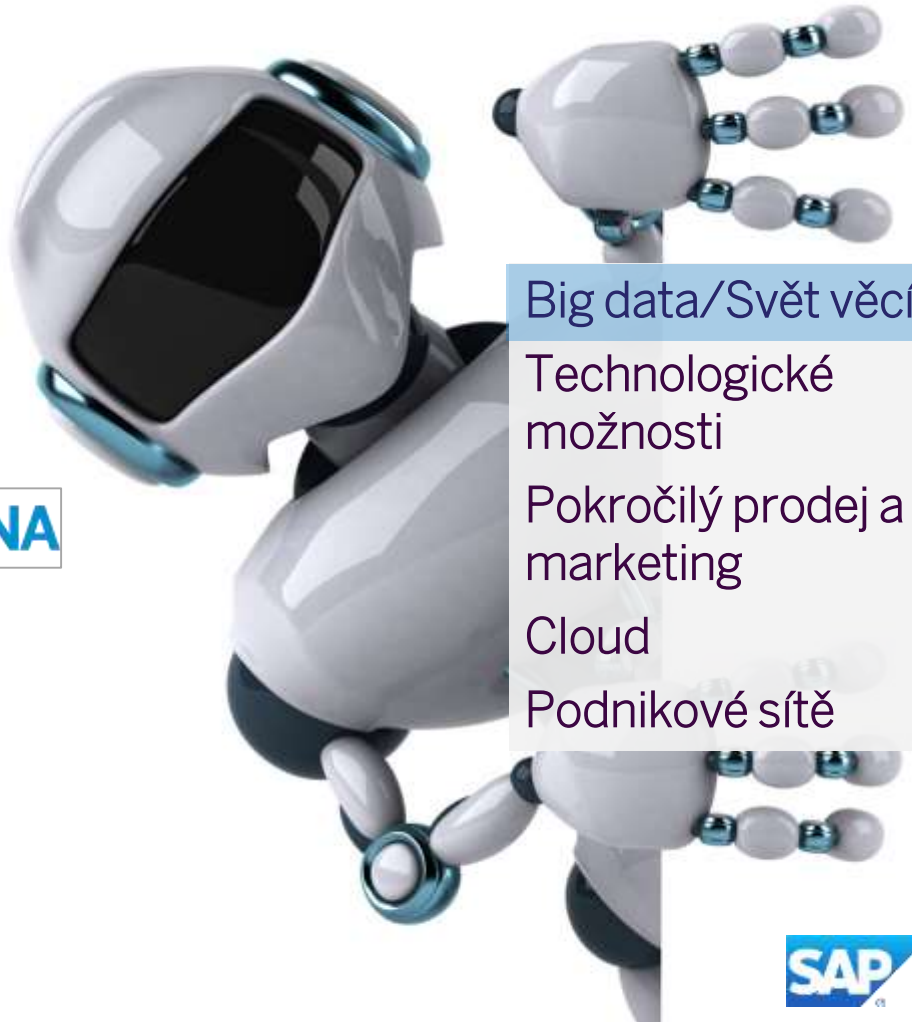


SAP S/4HANA

Integrovatelná do Internetu věcí



SAP S/4 HANA



Big data/Svět věcí

Technologické možnosti

Pokročilý prodej a marketing

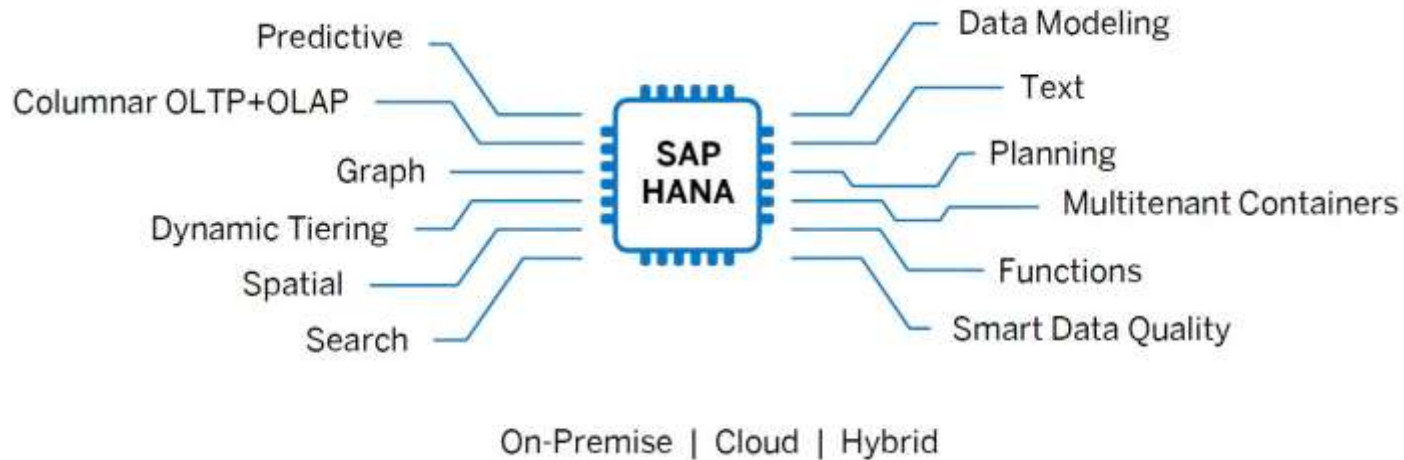
Cloud

Podnikové sítě



SAP S/4HANA

Založená na in-memory technologii



Big data/Svět věcí

Technologické možnosti

Pokročilý prodej a marketing

Cloud

Podnikové sítě



SAP S/4HANA

Digitalizace podnikání

Digitální ekonomika



Internet of Things



Big Data



Business networks



Devices



Social networks



People



SAP S/4 HANA

User empowered

Instant insight | Contextual information | Personalized experience

Process enriched

Scalability | Real time | Prediction | Simulation

Live data

Granular | Responsive | Accurate

HEC

Big data/Svět věcí
Technologické možnosti

Pokročilý prodej a marketing

Cloud

Podnikové sítě



SAP S/4HANA

Redukce complexity

SAP Simple Finance

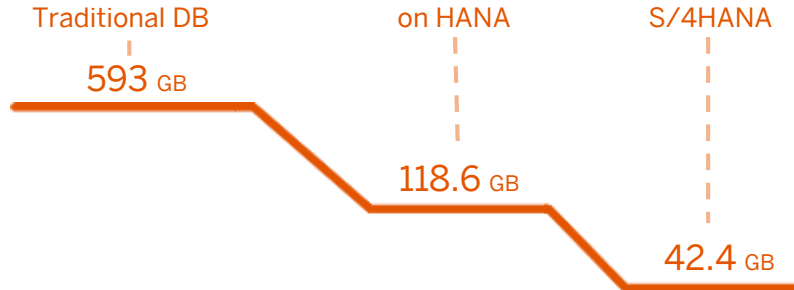
SAP Finance s agregáty a indexními tabulkami

BKPF	BSEG	BSE T	COSP	BSIS	BSIS	BSIK
LFC1	GLTO	GLTO	GLTO	COBK	COEP	

SAP Simple Logistics

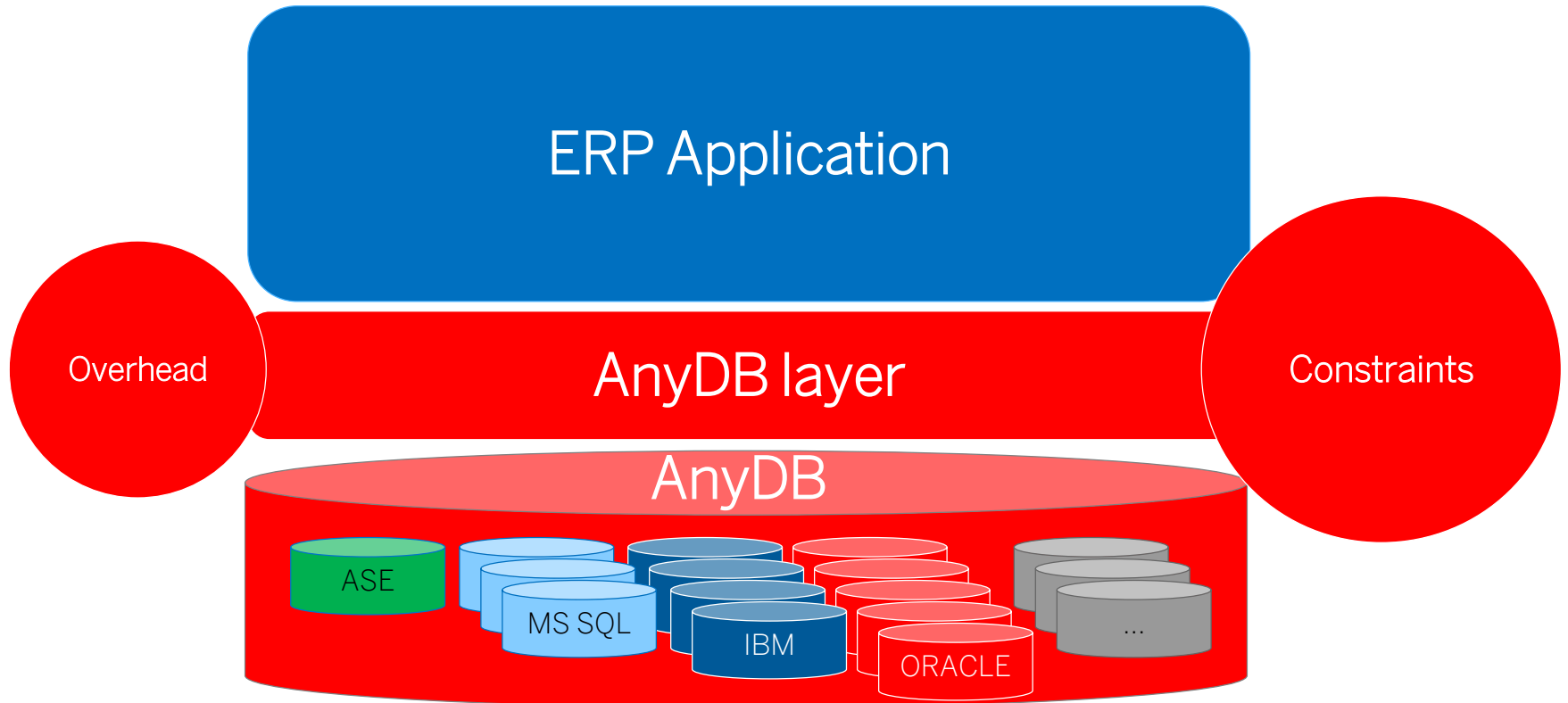
indexními tabulkami

MSEG New	Master Data	MSTB	MSKU	MSSQ	MSSA	MSKA
MKPF	MARD	MSTQ	MSPR	MSTE	MSLB	MCHB
MSTQH	MSLBH	MSTEH	MSKUH	MARCH	MSPRH	MKOLH
MSTBH	MSSQH	MSSAH	MSKAH	MCHBH	MARDH	MKOL



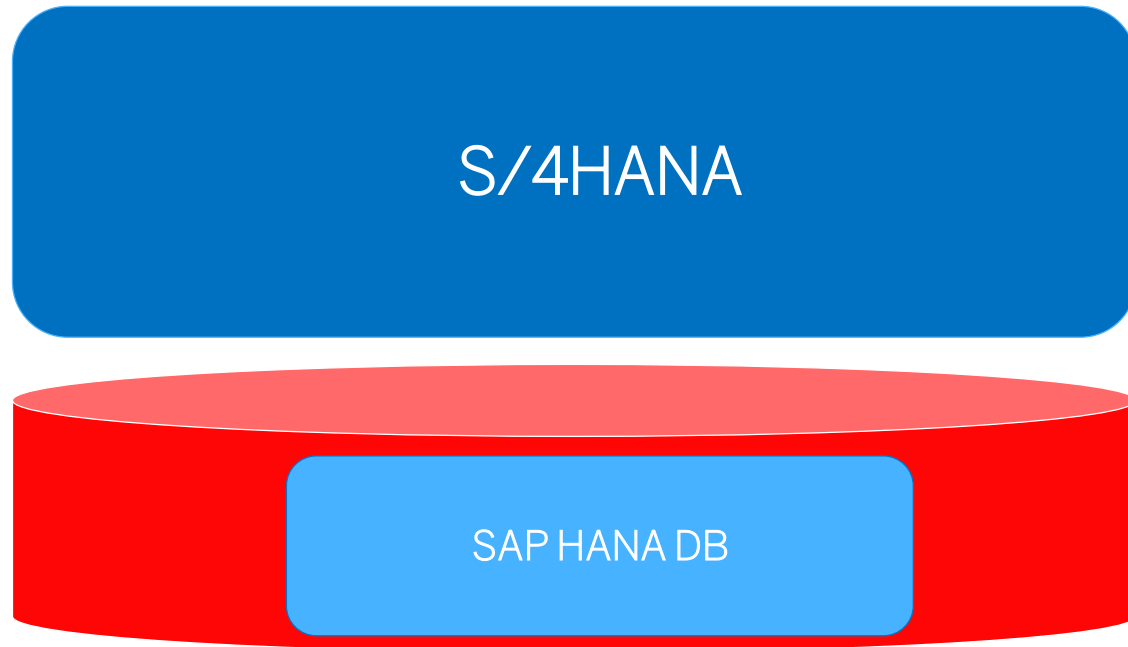
Tradiční relační databáze a ERP aplikace

Podpora mnoha technologií a verzí



Optimální design pro In-Memory databázi

Odstranění omezení tradičních DB



Tradiční databáze

Záznamy dat v řádkovém formátu

Více jak 200 polí ve standartních tabulkách



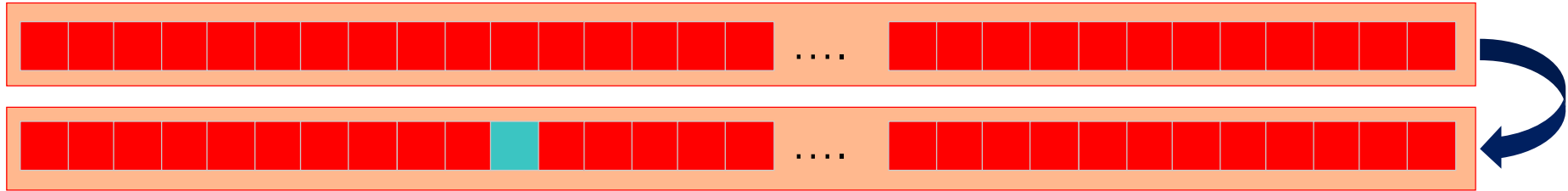
...

více jak 100 polí přibude po implementaci
Industry Solution



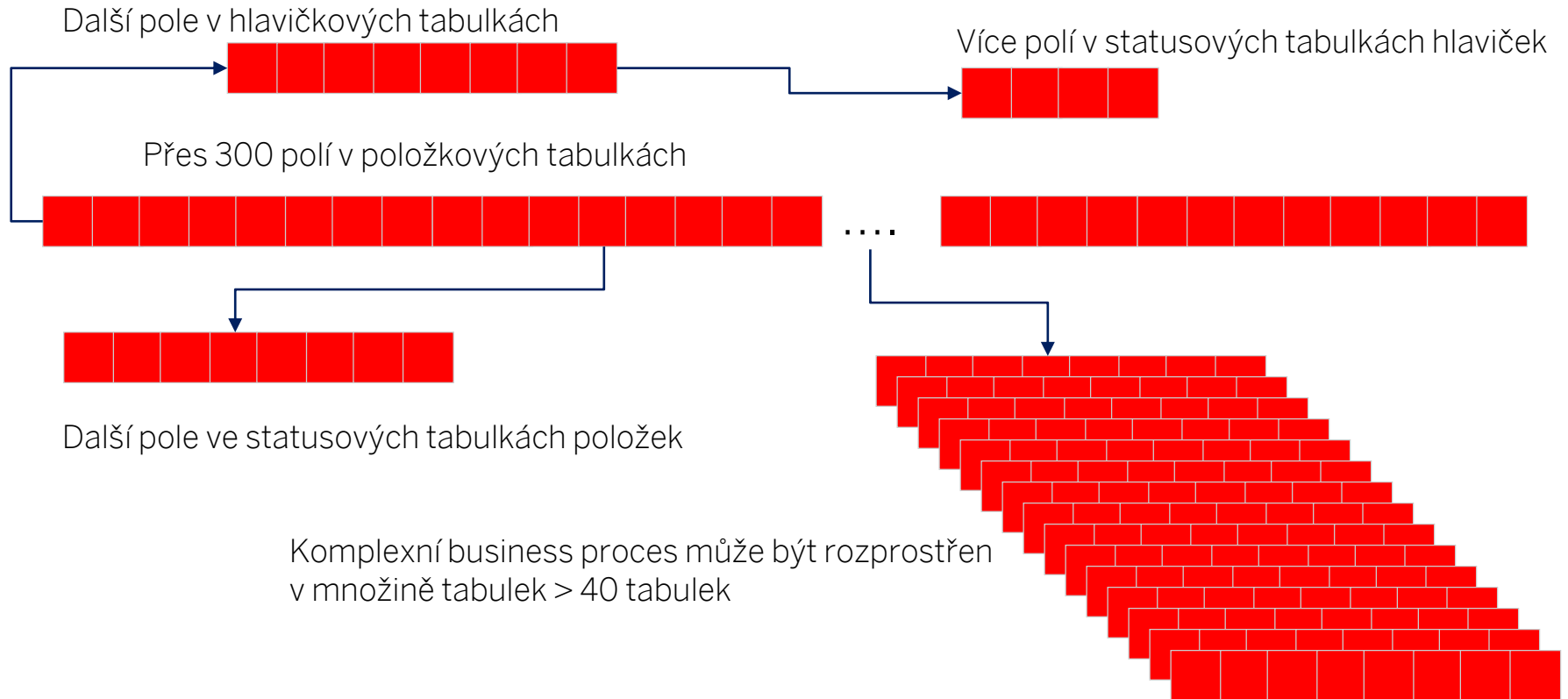
Tradiční databáze

Nahrazení kompletního záznamu pokaždé i při změně 1 hodnoty



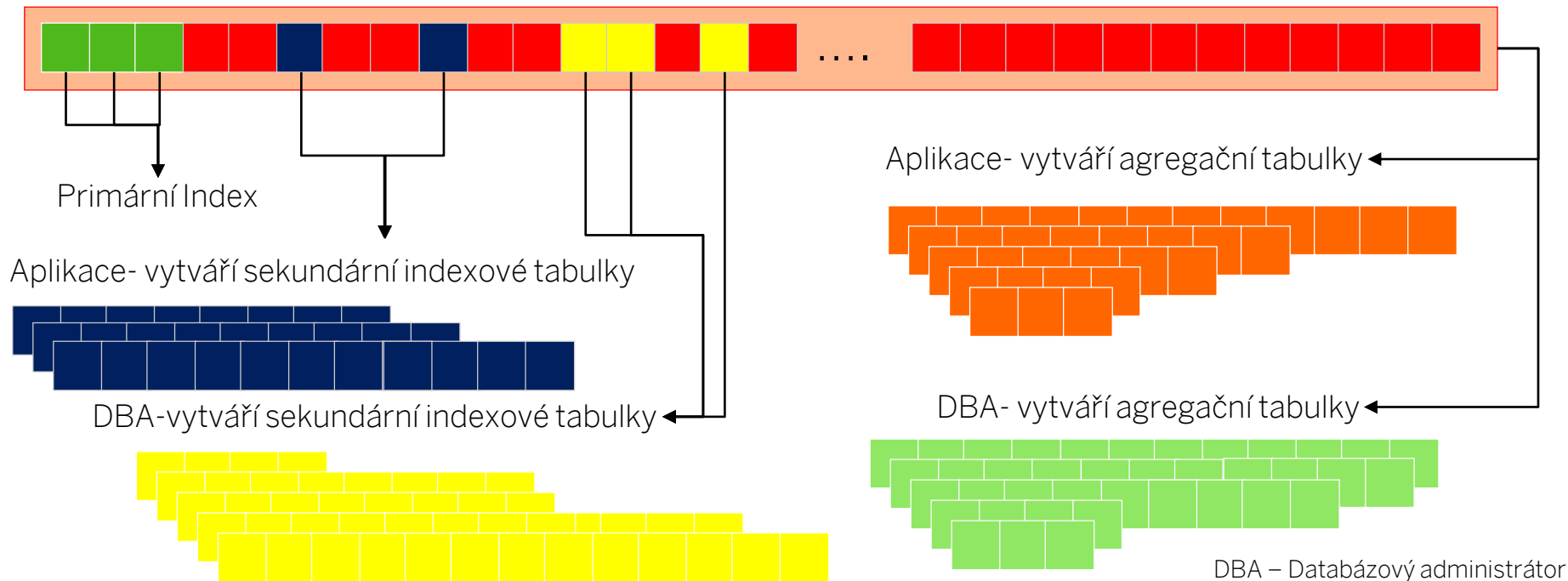
Tradiční databáze – mnoho tabulek

Data pro 1 dokument jsou distribuována napříč komplexní množinou tabulek



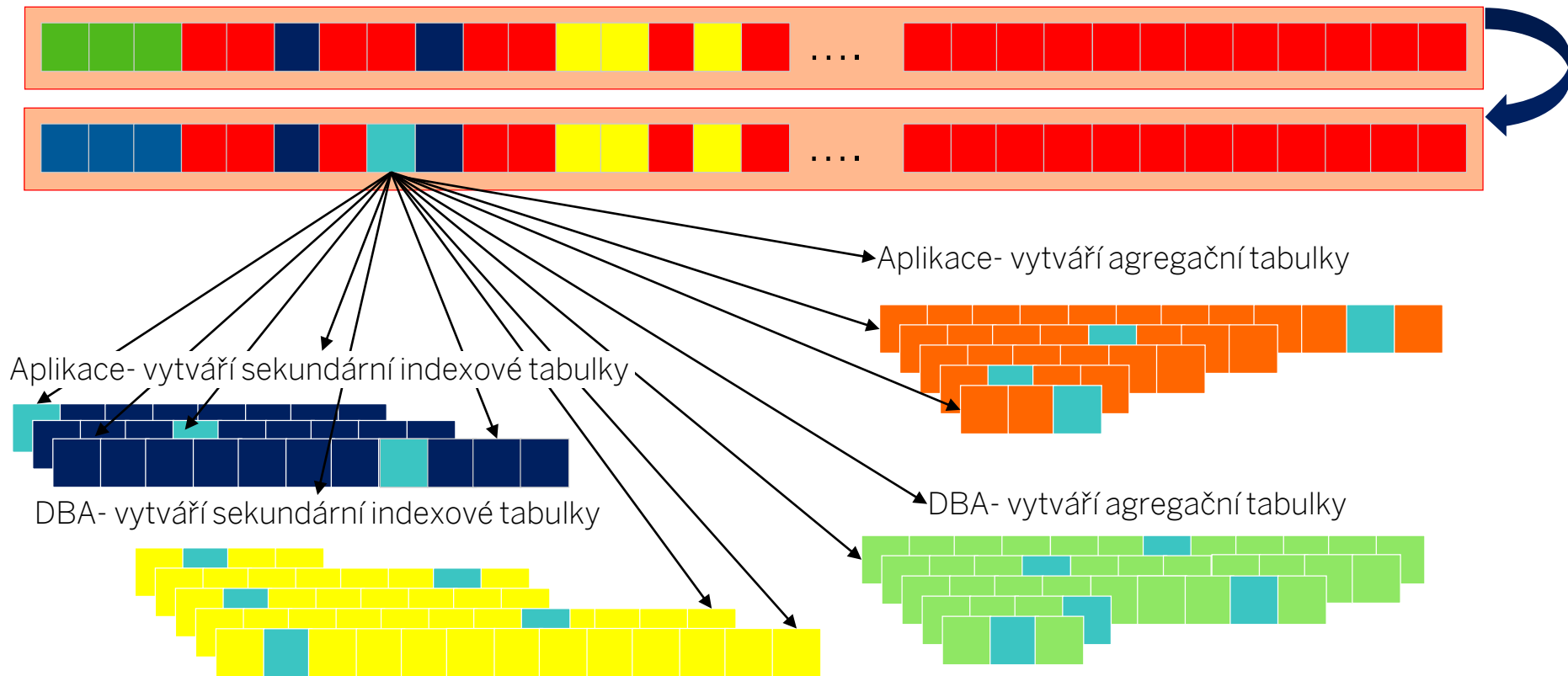
Tradiční databáze – podpůrné tabulky

Replikace dat z důvodu výkonnosti do sekundárních indexových a agregačních tabulek



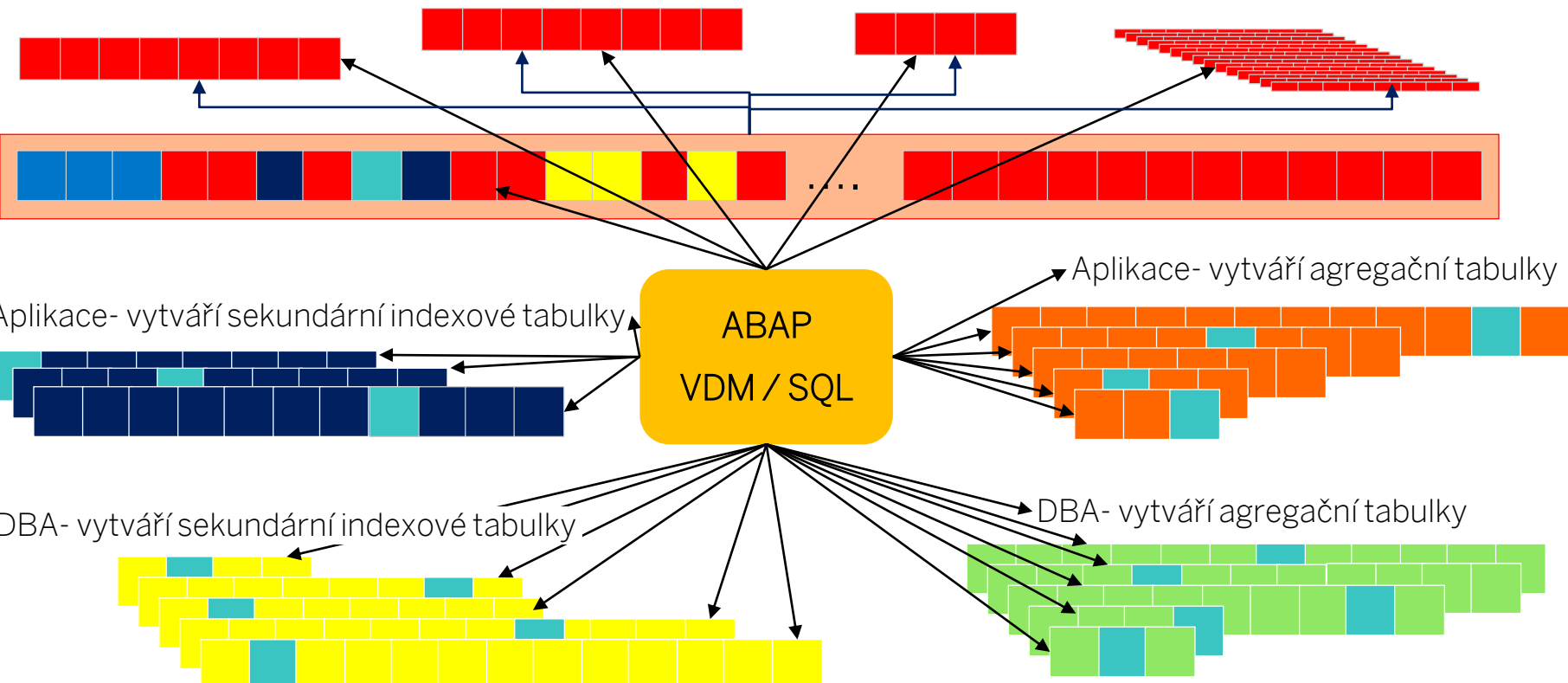
Tradiční databáze – mnoho změn

Změna v hlavní tabulce vyvolá změny v množině podpůrných tabulek

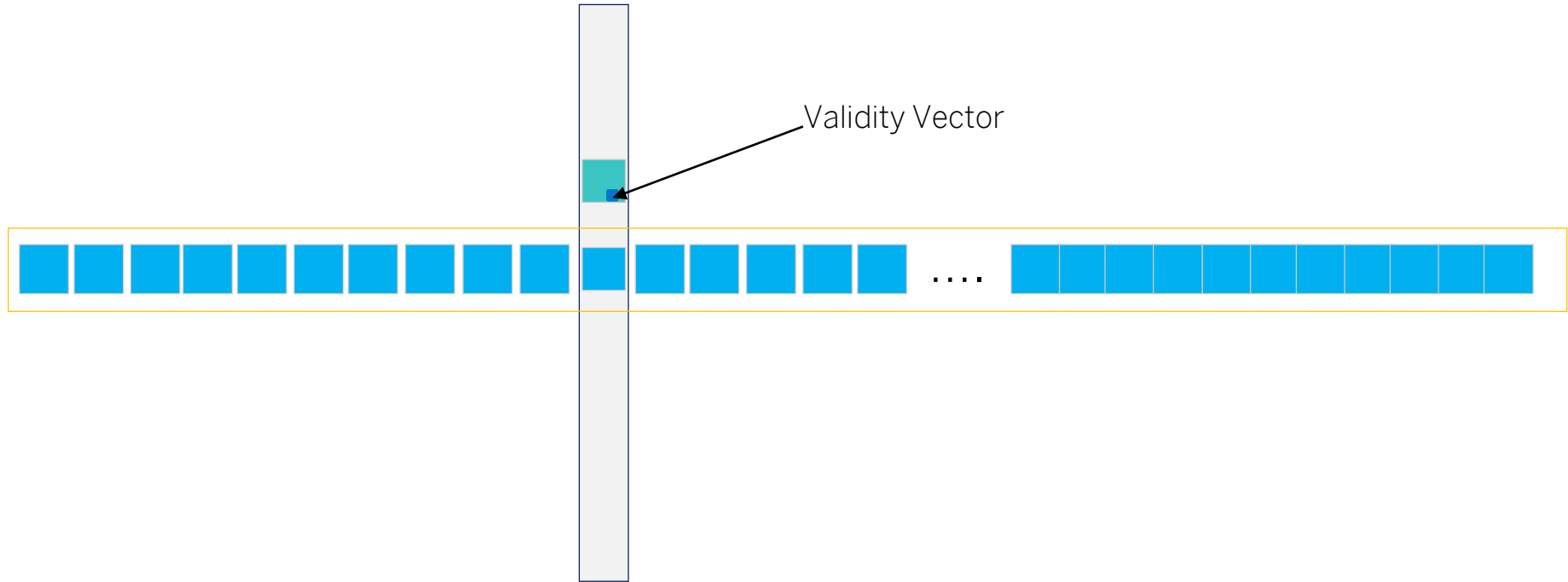


Tradiční databáze – mnoho tabulek

Komplexní množina tabulek komplikuje tvorbu BI reportů



S/4HANA – koncept vkládání do sloupcové paměti pouze v poli kde změna nastala

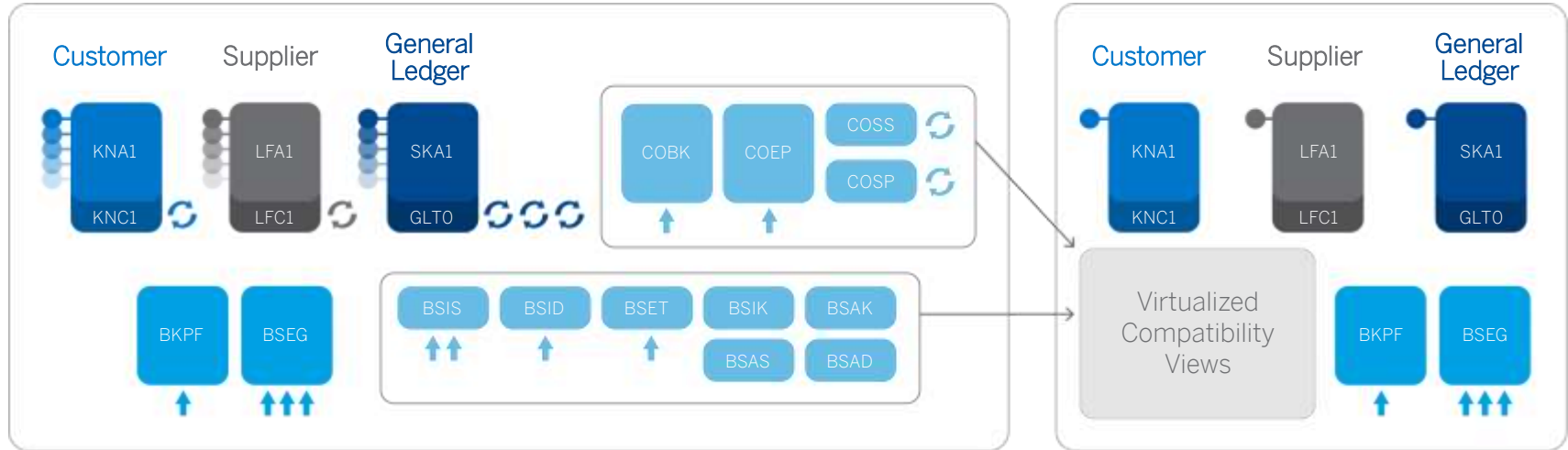


S/4HANA Příklad dramatického zjednodušení:

Finance – založení faktury

FI in SAP Business Suite on AnyDB

sFin in S/4HANA

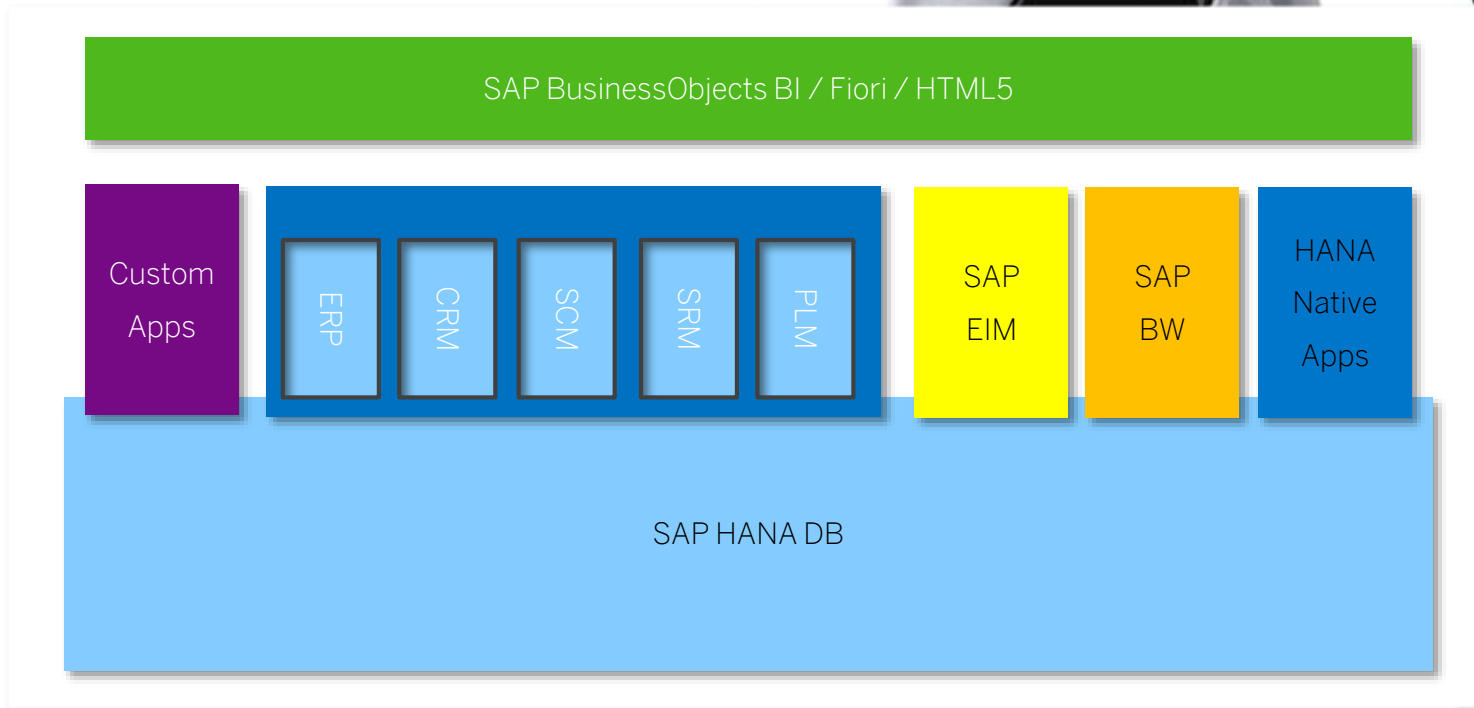


14 tables
3 primary indices
many secondary indices
5 updates
10 inserts

5 tables
3 primary indices
0 secondary indices
0 updates
4 inserts

SAP S/4HANA

Redukce complexity



SAP S/4HANA

Spojení transakčního a analytického světa

Zákaznická data
z kmenového
záznamu

The screenshot displays the SAP S/4HANA interface for a customer record. At the top, there are navigation tabs: Home, Products, Customers, Reports, and a user profile for 'Hi, Jes Smith'. Below the navigation, there are three buttons: 'Last 5 Orders', 'Top 10 Products', and 'Order Notes'. The main content area is divided into several sections:

- Customer Header:** Includes the company logo 'Drilling', account details (Acct #: 0000100020, Type: Upstream, Credit Check: ✓), sales org (1000), distribution channel (10), and division (10).
- User Details:** Shows the order date (07/08/2014) and delivery date.
- Contact:** Lists John Howie with phone (713-431-4222) and email (jhowie@B60.com).
- Addresses:** Provides 'Bill To Address' (Big Bay Drilling, 3120 Buffalo Speedway, Houston, TX 77008) and 'Ship To Address' (Big Bay Drilling, 3120 Buffalo Speedway, Houston, TX 77008).
- Additional Customer Data:** Fields for Purchase Order#, AFE #, Rig #, Field #, WBS #, and Job #.
- Order Products Table:** A table with columns: Part Name, Type, Qty, Cost, Price, Margin(%), Delivery Date, Cust.Tag, CPO Line#, Notes, and Remove. It lists items like '2.78 X 0.00# NWP J55 ERW TUBING 680 01020068', '2 X 5.03# XH 218 BLK CS CW PIPE 03020750', '5/8 X0.43# STD .055 BARE HDMCL OIL PIPE 03030088', and 'Red Microwave 09069999'.
- Summary Metrics (Right Side):** Total Margin (\$): \$750.00, Total Margin (%): 17.65%, Total Cost: \$3500.00, Total Price: \$4250.00.
- Order Summary (Bottom Right):** Total Products: 4, Total Qty: 35, Subtotal: \$4250.00, Tax (10%): \$425.00, Total: \$4675.00. Buttons for 'Submit Order' and 'Submit Quote' are visible.

Analýzy a KPI v
reálném čase a
simulace
profitability
přímo v
transakcích

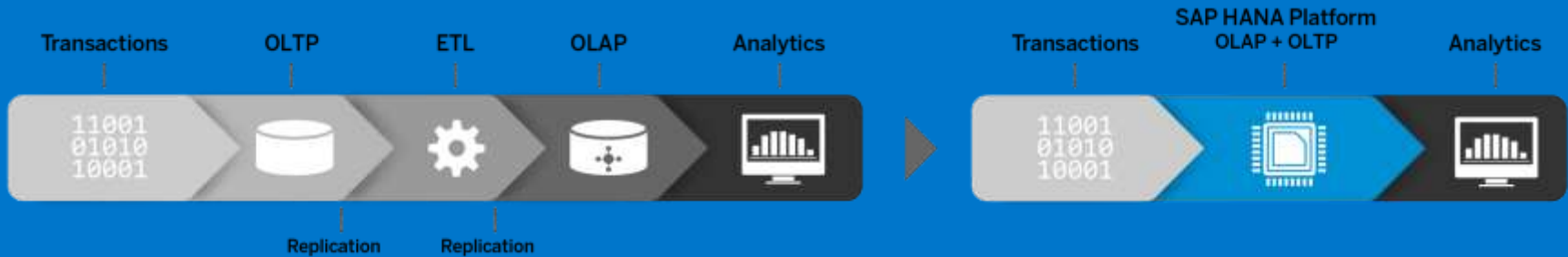
Produkty jsou
vedeny s
příslušnou marží

Simulace

Zdroj: Deloitte

SAP S/4HANA

Spojení transakčního a analytického světa



- Decisions and actions on old Data
- Multiple copies of the data
- ETL and batch processing efforts and costs

- Instant insight to action on live data
- One copy of the data
- No ETL and batch processing

A brief history of user experience by SAP

The screenshot displays the SAP Business Unit Analyst interface. At the top, there is a navigation bar with tabs for Home, Manager, Employee, and Business Unit Analyst. Below this is a 'My Cash' dashboard with several widgets:

- Bank Statement:** Import Success Rate of 43.75%.
- Cash Position Today:** 3.85 B USD.
- Cash Position Today (Detailed):** USA (3.2 B), India (219.2 M), Germany (66.46 M).
- Liquidity Structure (Past 12 Months USD):** Current Account (1.8 B), Notice Deposit (1.1 B), Other Short Term Investment (323.7 M).
- Liquidity Forecast (Forecast in 7 Days USD):** Line chart showing values from 1,502 B to 1,654 B.
- Bank Risk:** Rating A- and below, 1.05 M USD.
- Current Account Yesterday:** 2.12 B USD.
- Current Account Today:** 2.12 B USD.
- Deficit Cash Pool Today:** -600 M USD.
- Financial Cash Manager Group (SAP Jam Group):** 14 Hours Since Last Activity.

At the top left of the dashboard, there is a news widget titled 'Consumer Confidence Fell Sharply This Month; Shutdown Blamed' with a sub-heading 'Economy' and a timestamp of '17 Hours Ago'.

SAP Smart Business mySAP Reports

SAP S/4HANA

Nové uživatelské rozhraní

SAP Smart Business for Cash Management



SeaTac Voters OK \$15 Minimum Wage; Recount Requested
Your Money 1 Day Ago

Bank Statement
Import Success Rate

78.12 %

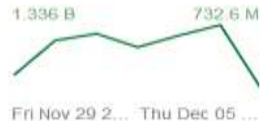
Cash Position
Today

2.2 B
USD

Cash Flow
Week-to-date (USD)

Inflow 496 M
Outflow -411.4 M

Liquidity Forecast
Forecast In 7 Days (USD)



Liquidity Structure
Past 12 Months (USD)

Current Account 1 B
Notice Deposit 554 M
Other Short Term Investment 323.7 M

Bank Risk
Rating A- and below

1.05 M
USD

Deficit Cash Pool
Today

-14 M
USD

Current Account
Today

1.02 B
USD

Financial Cash Manager Group
SAP Jam Group

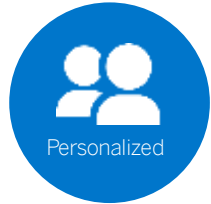
17

Hours Since Last Activity



SAP S/4HANA

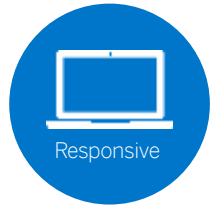
Nové uživatelské rozhraní – SAP FIORI



Personalized

Role-based

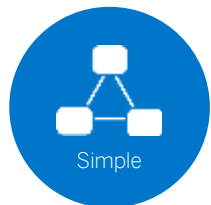
engagement across the business



Responsive

Instant access

to any business insight



Simple

Simple design

across business processes



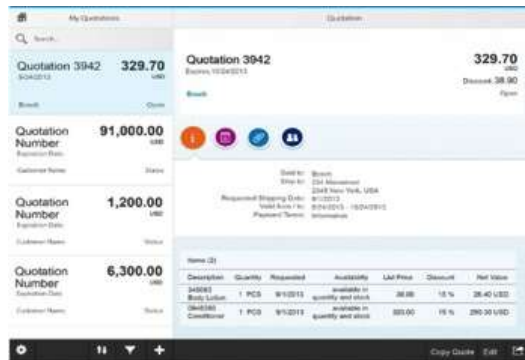
SAP S/4HANA

Nové uživatelské rozhraní – SAP Fiori

Transactional

Task-based Access

Access to tasks like change, create, or approve processes with guided navigation



Run on:



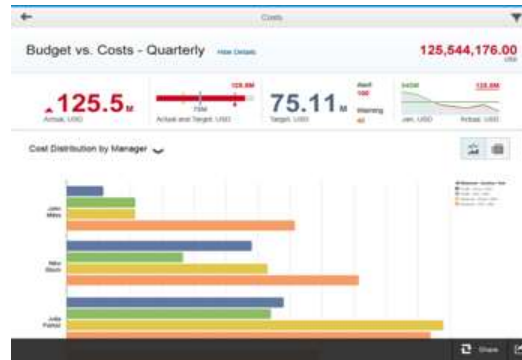
SAP HANA

- Exceptions apply for Financials and MRP
- Selected apps were downported

Analytical

Insights

Visual overview of a dedicated topic for further KPI related analyses



Run on:

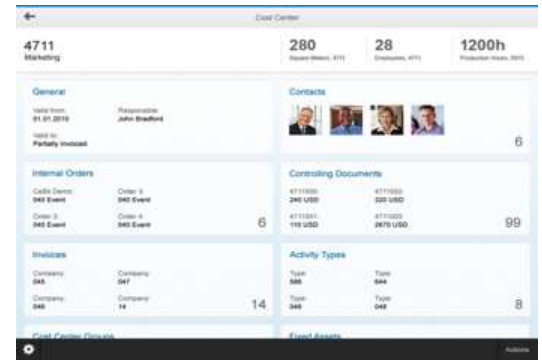
SAP HANA

For SAP Smart Business, consider «HANA side car» approach as long as you are not running Suite on HANA

Factsheet

Search and Explore

View essential information about objects and contextual navigation between related objects



Run on:

SAP HANA

SAP S/4HANA

Nové uživatelské rozhraní – SAP Fiori



Gain productivity



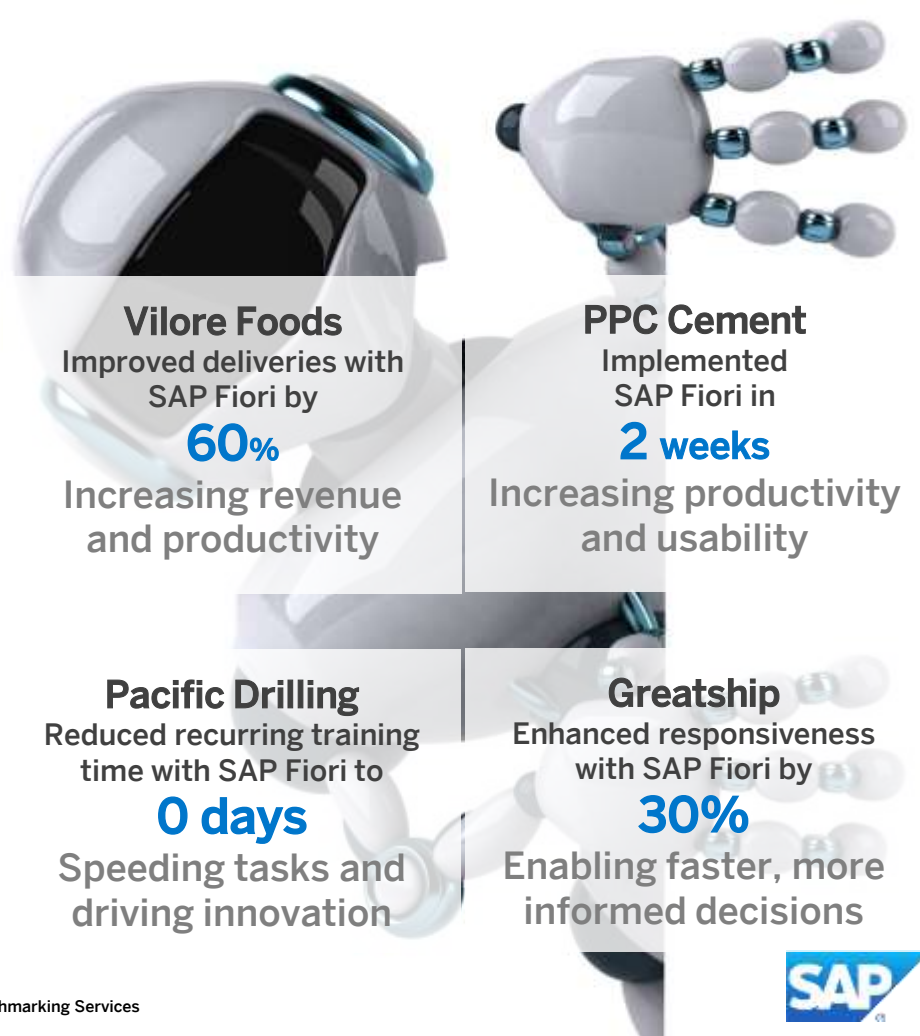
Increase user adoption



Decrease user errors



Save training costs



Vilore Foods

Improved deliveries with
SAP Fiori by

60%

Increasing revenue
and productivity

PPC Cement

Implemented
SAP Fiori in

2 weeks

Increasing productivity
and usability

Pacific Drilling

Reduced recurring training
time with SAP Fiori to

0 days

Speeding tasks and
driving innovation

Greatship

Enhanced responsiveness
with SAP Fiori by

30%

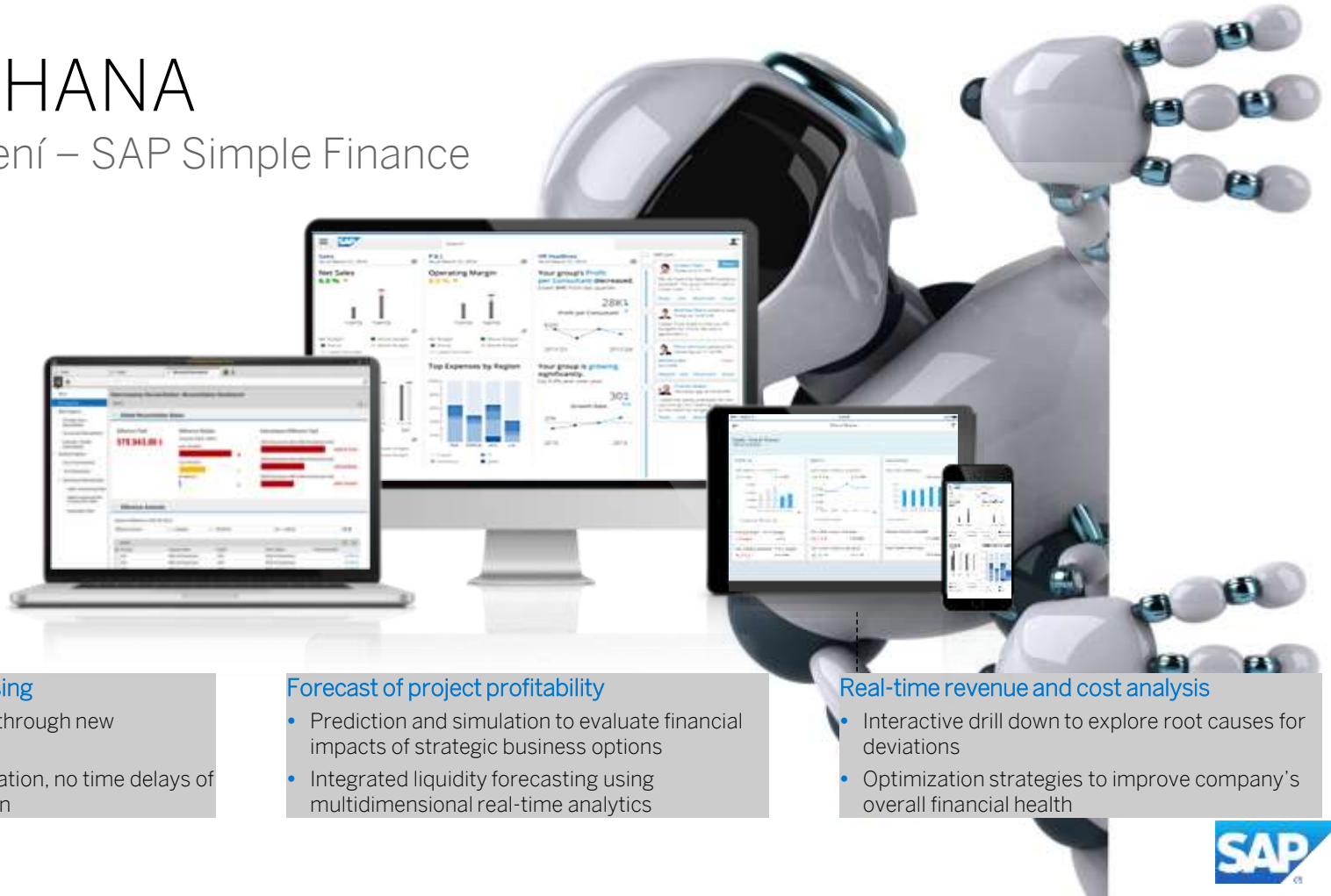
Enabling faster, more
informed decisions

Source: SAP Benchmarking Services



SAP S/4HANA

Inovativní řešení – SAP Simple Finance



Near real-time period closing

- Better process oversight through new management dashboard
- Flexible on-the-fly aggregation, no time delays of data loss due to replication

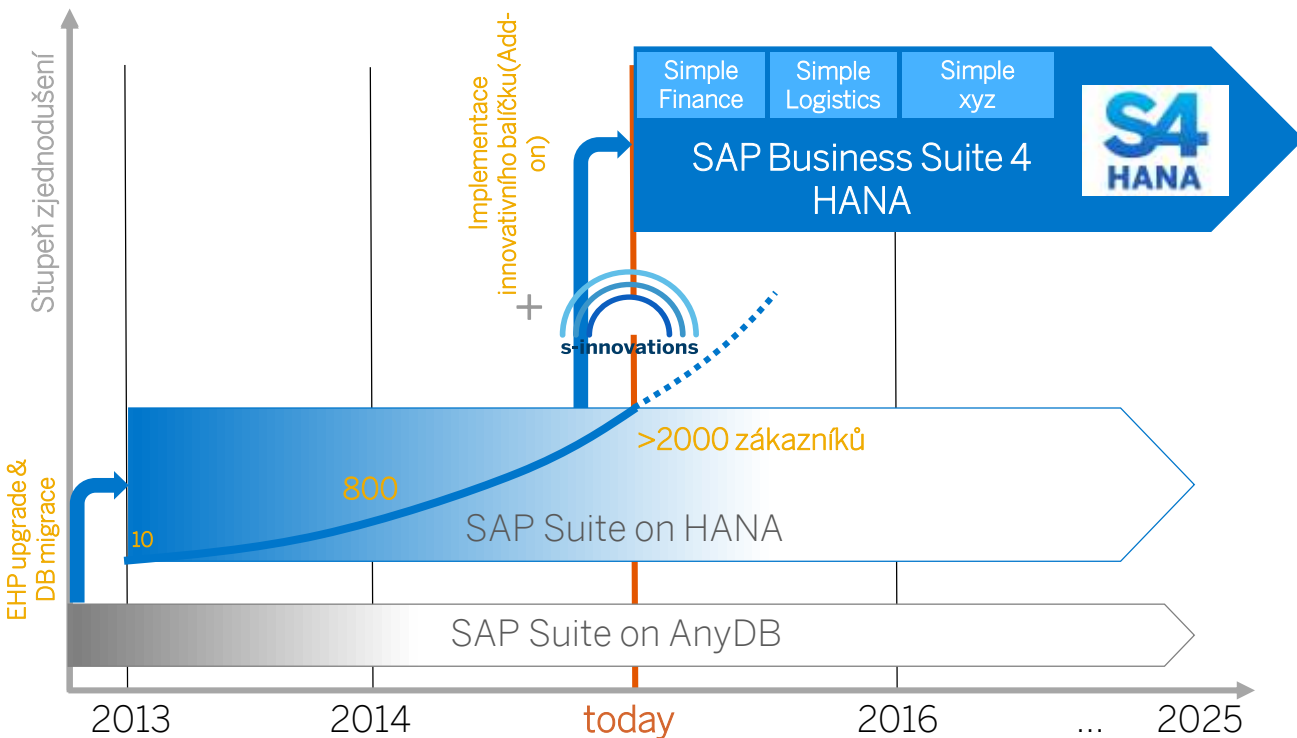
Forecast of project profitability

- Prediction and simulation to evaluate financial impacts of strategic business options
- Integrated liquidity forecasting using multidimensional real-time analytics

Real-time revenue and cost analysis

- Interactive drill down to explore root causes for deviations
- Optimization strategies to improve company's overall financial health

SAP Business Suite 4 HANA – nová generace ERP



- Nové ERP poskytující vše pro splnění cílů Dokonalého podniku.
- Pravý real-time. Integrovaný. Otevřený. Propojený. Jednoduché UX.
- Zjednodušené business procesy
- Možnost nenásilné migrace díky sémantické konzistenci
- On premise, či v cloudu

- Nejmodernější a nejvýkonnější platforma
- Už žádné dávkové zpracování
- Práce v reálném čase
- Optimalizované business procesy
- Nejrychleji rostoucí produkt v historii

- Podpora do roku 2025

SAP S/4HANA

Jednoduchá migrace bez přerušení



ONE STEP MIGRATION OPTION

1

PLAN

Scope migration effort and identify key business scenarios

Service and Support best practices

Migration scoping and value identification workshop

2

UPDATE

Update ECC 6 to Enhancement Pack 7 and Unicode data types

3

MIGRATE

Install and migrate database to SAP HANA

Rapid database migration RDS
Comprehensive migration services scoped in "t-shirt" sizes.

4

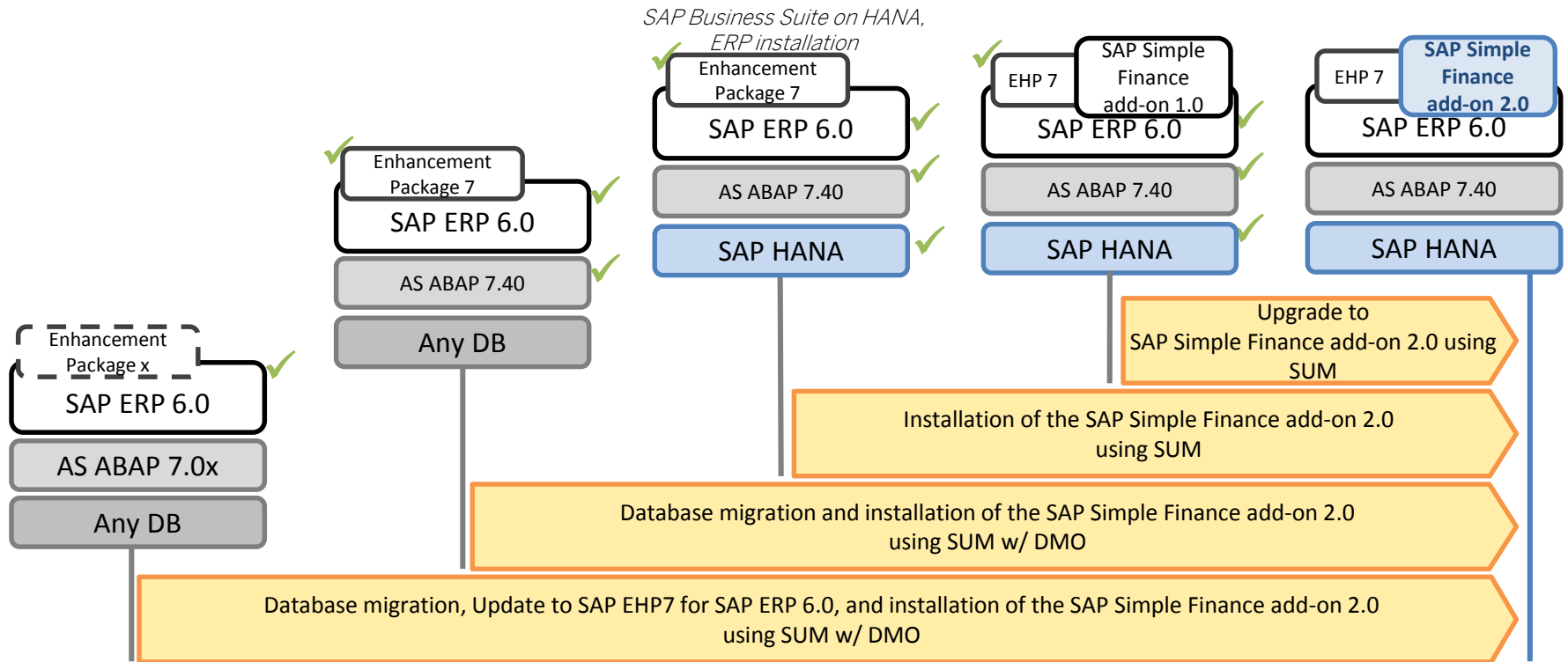
INSTALL

Install exchange innovation (new code)

Engineered services for technical deployment



Cesta k S/4 HANA v jednom kroku



DMO = Database Migration Option ► combine upgrade and database migration to HANA with SUM (check SAP Note [1813548](#))

SUM = SAP Software Update Manager (refer to the latest *Update Guide* for restrictions and detailed instructions)

SAP S/4HANA

Realizované benefity společností SAP SE

**7,1 TB to
1,8 TB**

Database footprint

86%

faster

Real-time analytics
with CO-PA

Realtime

Error detection
through Deviation
Analysis and
drilldown to lowest
level

From >2 hours to
real time

**Intercompany
reconciliation**

Lengthy iterations
eliminated

91 %

faster

Automatic
Maintenance
Revenue Accruals

29%

faster

Balance Sheet and
P&L

74 %

faster

Asset Depreciation

30%

less processing time
at quarter end close

67,000+

Users

42%

faster

Automatic Cost
Accrual Postings

71%

faster

Batch input
processing

3.000 +

Unused custom
code objects retired

~16,000

Concurrent users
during quarter close
peak

17%

faster

Software and
Maintenance Billing

5 + 1 důležitých sumárních informací

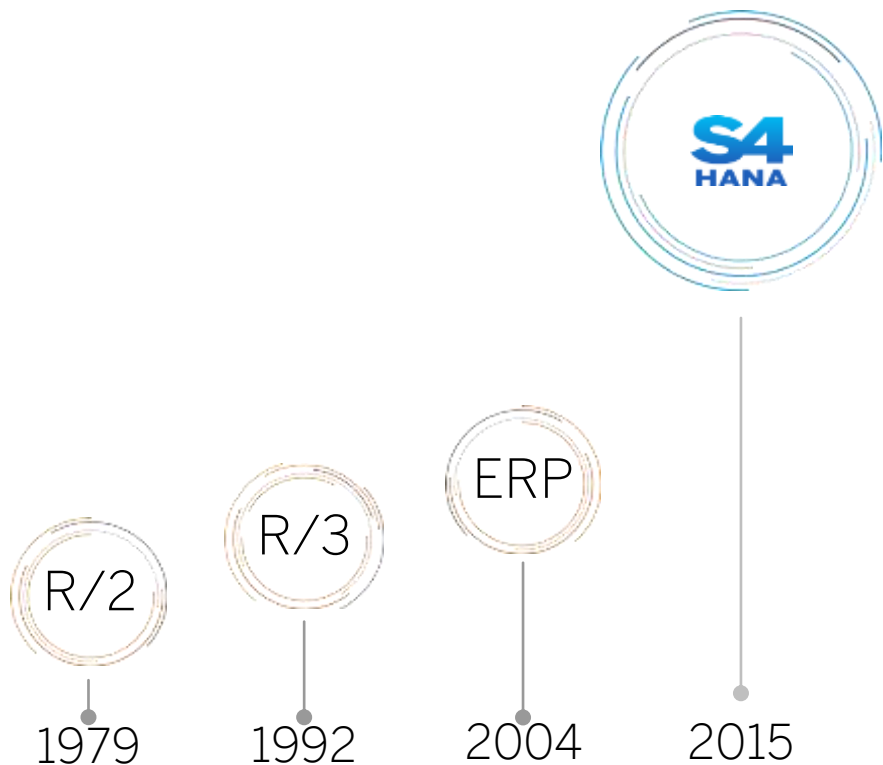


- 1 Je nový produkt a další generací business suite navrhnuté pro digitální ekonomiku
 - 2 Je navrhnutý výhradně na platformě SAP HANA pro masívní inovace a simplifikace
 - 3 Je navrhnutý so SAP FIORI UX pro libovolní roli a pro jednoduchý přístup z libovolného zařízení
 - 4 Je poskytovaný ve verzi on-premise aj cloud – pro reálnu volbu způsobu implementace
 - 5 Je jednoduše implementovatelní a je zdrojem unikátních byznys a IT hodnot pro zákazníky
-
- 6 Je dostupný zdarma jako součást promo akce platné do konce září 2015*

* pro zákazníky se zakoupenou SAP HANA runtime licenci anebo zakupujících SAP HANA runtime licenci

SAP S/4HANA

Klíčová komponenta digitálního podniku





Ďakujem!

Otázky?



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