SAP HANA als Plattform für Innovationen und Vereinfachungen
Peter Klee, SAP SE
2. September 2014
Agenda

Aspekte der Vereinfachung von IT Landschaften
Vereinfachte Einführung von Innovationen
Beweggründe für ein Re-Platforming
Weiterführende Angebote
Zusammenfassung & Diskussion
Agenda

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Zusammenfassung & Diskussion
Why Simplicity Matters

SIMPLICITY OF THE SOLUTION IS...

...the foundation for ensuring availability, stability and reliably meeting the SLAs

...the prerequisite for IT flexibility as the enabler for business agility

...the enabler for new business models and solutions

...the basis for reducing TCO

... the FOUNDATION OF THE FUTURE SUCCESS OF IT

SIMPLIFICATION OF ALL LAYERS IS THE KEY PRIORITY OF SAP!

There are projects at SAP addressing all layers

The following aspects we will discuss in our round table:

- Simplified Platform and technical architecture
- Simplified Deployment Options
- Simplified EDW and Analytics
- Simplified Application landscapes
- Simplified Implementation of innovations
Traditional implementations
- Each application runs on a separate platform (OS/DB)
- Historically grown heterogeneous landscape
  → Complex management and operation
  → Complex infrastructure layers
  → Limited scalability

SAP HANA – Integrated platform running multiple applications
- Multiple applications sharing the same runtime
- Standardized and harmonized landscape
  → No data duplication
  → Simplified and centralized management
  → Standardized infrastructure
  → Highly scalable
Simplified Deployment Options
From traditional on premise to flexible hybrid clouds

Traditional On Premise System Landscape

Flexible Hybrid Cloud Landscape

Production

(MCaaS)
SAP HANA Enterprise Cloud

Prototype

(SaaS)
SAP Cloud Solutions

Project

(PaaS)
HANA Cloud Platform

On Premise

ECC BW SCM

DB DB DB

ECC BW CRM

DB DB DB

HR SRM Non Sap

DB DB DB

On Premise

SCM ECC BW

Innovation

HANA Live

Private Cloud

SAP HANA Platform

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Simplified Real-Time Decision Support

Traditional: OLTP and OLAP Separate

- Complex architecture
- High maintenance effort, limited change flexibility
- Multiple copies of data
- Decisions are based on “yesterday’s data”

More than 24hr Old Data

Separate EPM & GRC
Consolidation system
Reporting Datamart

Multiple systems
Complex models
Traditional EDW
Multiple layers & Duplication

24 h

ERP
Other System

Complex architecture
High maintenance effort, limited change flexibility
Multiple copies of data
Decisions are based on “yesterday’s data”

ETL

ERP
Non-SAP
EPM
BW

SAP HANA Platform

Built-in EDW
HANA Live

Planning Engine
Predictive Analytics
Text, Search,…
Custom

Real-time Integrated Decision Support
Analysis of SAP and non-SAP data, no data loading any more
- real-time
- with line item granularity
- supported by simulation and prediction capabilities

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Simplified Application Landscape

Landscape Simplification

Solution Simplification

Process, Application & Data Simplification
Agenda

Aspekte der Vereinfachung von IT Landschaften

**Vereinfachte Einführung von Innovationen**

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Zusammenfassung & Diskussion
Pace Layered Application Strategy
Model defined by Gartner

New ideas — aspects of the business in which leaders are thinking of an early stage concept, and are not at the point where they can be specific regarding the details of how things should work.

Different ideas — aspects of the business in which leaders not only want to do things differently from comparable organizations, but also can specify the details of how the different approach should be taken, and can expect these details to change on a regular basis.

Common ideas — aspects of the business in which leaders are happy to follow commonly accepted ways of doing things that change fairly slowly.

Source: Gartner: http://www.gartner.com/newsroom/id/1923014
Speed of Innovation enabled by the SAP Platform
Building Blocks at Your Fingertips

Design Thinking & Rapid Prototyping

Rich Function Libraries & Engines

Agile customer specific innovation

Agile data provisioning

Text Analytics
Planning Predictive
Spatial
Business Rules
Analytics (OLAP)

Innovation delivered by Customer

Process
UI
Data

Simplified Innovation

2 Value releases ICC/OCC

Differentiating Innovation

Powered by SAP Enterprise Support

Enabled by ONE SAP Platform

Simplified Baseline Innovation

ERP
Non-SAP
EPM
Cross
BW

SAP HANA Platform
HANA Live

Built-in EDW

Enabled by
ONE SAP Platform

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Building Blocks at Your Fingertips

**SAP Fiori und UI5: SAP River RDE**
- Powerful UI Capabilities
- Standards based
- Web application based Development

**Rich Function Libraries & Engines**
- Predictive,
- Business Functions
- Text Analytics
- Analytical (OLAP)

**Model driven backend development with SAP River**
- Model driven backend development
- Exposing oData Services
- Combining data model with access and business logic

**Agile data provisioning in days not months!**
- SLT: selective real time replication from operational systems
- HANA Live analytical query views for easy access to operational data.
- Smart Data Access: "virtual" tables exposing remote data (e.g. from a HADOOP cluster)
User Interaction via different SAP Fiori App Types

Build on reusable templates and rich component libraries

**Transactional**

Task-based access
Access tasks to create, change, approve processes with guided navigation

**Analytical**

Insights
Get a visual overview of a complex topic for monitoring or tracking purposes

**Factsheets**

Search and explore
View essential information about an object with contextual navigation between related objects

**SAP Smart Business**

Insight to action cockpit
Analyze and evaluate strategic or operational KPIs in real time and trigger the right action

Runs on:
- Any DB
- SAP HANA
- SAP HANA
- SAP HANA

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Rich Function Libraries & Engines

Leveraging business and predictive functions accelerates development of data oriented business solutions.

Quickly develop and deploy SAP HANA based spatial applications with provided geo-content and map services via the native XS engine.

Visual Modeling of Predictive Functions

- Classification Analysis
- Association Analysis
- Data Preparation
- Outlier detection
- Cluster Analysis
- Time Series Analysis
- Link Prediction
- Substitute missing values
- Partitioning
- Support Vector Machine
- Forecast Smoothing
- Agglomerate Hierarchical Clustering
- Affinity Propagation Clustering
- Linear regression
- Logistic regression
- Apriori
- Decision Tree
- ...
Model-driven Backend Development with SAP River

**SAP River:**
- Supporting the **design and development**
- Covers **all the semantic elements** of an SAP HANA business application,
- Single **integrated program specification**, ... enables the **rapid development of complete and efficient backend applications** on SAP HANA.
Agile Data Provisioning in Days Not Months!

Expose data from Remote Sources as Virtual Tables

Use Cases:

- Customers can access IQ as an archived storage to store cold data in IQ and real time hot data in SAP HANA

- Address Big Data challenges by connecting to Hadoop using the Hive interface

- Create Applications by running HANA models across disparate data sources
Changing Speeds of Innovation
Life Cycle Management

Reality before HANA

1-4 Months
Excel, specialized tools for statistics (MATLAB, R, …)

12 Months
Java, C, …

2 Years
Standard Software: SAP ERP, CRM, …

Simplified Baseline Innovation

2 Years

12 Months

2-4 Weeks

Simplified Innovation

2-4 Weeks

6 Months
Rich Function Libraries
Easy data provisioning

6 Months
Integrated with Baseline Innovation (SoR)

6 Months
2 Value release ICC/OCC

Common Platform

SAP HANA as common platform enables re-use & faster propagation

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Agenda

Aspekte der Vereinfachung von IT Landschaften

Vereinfachte Einführung von Innovationen

Beweggründe für ein Re-Platforming

Weiterführende Angebote

Zusammenfassung & Diskussion
Re-Platforming: Simplify to Innovate

Heritage from the „Past“

Drivers & Enablers for “Change” [Past to Current]

Strategic Direction [Current & Future]

Specialization: The Origin of Complexity

Tactical steps to Optimize

Changing the Game

Business

IT
Re-Platforming: Simplify to Innovate

Heritage from the „Past“

- Demand specialized solutions: E.g. planning, customer management
- Mergers & Acquisitions
- Silos in companies: by Region / by Division: no process harmonization
- New specialized solutions (best of breed): SAP (SRM, SCM, CRM, ..) and non-SAP
- Redundant heterogeneous IT Landscapes
- Functional Extensions: custom code

Drivers & Enablers for “Change” [Past to Current]

- Market Competition
- Business Cost Pressure
- Inability to react on business needs fast
- IT Cost Pressure
- Shared Services
- IT Outsourcing
- Harmonize IT Infrastructure
- Landscape & Solution simplification
- Scale via harmonized business models / processes

Strategic Direction [Current & Future]

- Real-time Insights on top of “bigger” data problems. E.g. consumer understanding / IoT
- Re-Platforming: Simplify to Innovate
- Cloud-Source commodity solutions
- Re-Gain control on simplified IT
- Invent New Business Models (E.g. interact with consumers)
- Re-Focus on Innovation
- New IT Operating Model

The Origin of Complexity

Tactical steps to Optimize

Changing the Game

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Innovation Adoption Model

**Maturity Level**

**Business Impact**

**NEW BUSINESS MODELS**
- Business Innovation
- New customers
- New markets

**Better PRODUCTS**
- Optimize products
- Offer new products or services

**Better PROCESSES**
- Improve single processes
- Replace single processes
- Change end to end processes

**Better DECISIONS**
- Transparency
- Decision support
- Decision automation

**Better SPEED**
- DB Exchange

**Characteristics**

Processes

Biz Model

- new
- old

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Zusammenfassung & Diskussion
SAP Platform powered by SAP HANA
Enterprise Support Academy -- Curriculum (Meet the Expert Sessions)

**Simplify with SAP Platform powered by SAP HANA**
- July 8, 11:00 a.m. – 12:00 p.m.
- July 9, 04:00 p.m. – 05:00 p.m.

**SAP HANA Capabilities**
- July 15, 11:00 a.m. – 12:00 p.m.
- July 16, 04:00 p.m. – 05:00 p.m.

**Technical Deployment Options**
- July 30, 10:00 a.m. – 11:00 a.m.
- July 31, 04:00 p.m. – 05:00 p.m.

**Business Suite on SAP HANA**
- July 22, 04:00 p.m. – 05:00 p.m.
- July 24, 10:00 a.m. – 11:00 a.m.

**Manage the Platform**
- August 5, 04:00 p.m. – 05:00 p.m.
- August 7, 10:00 a.m. – 11:00 a.m.

**Integration Orchestration**
- September 24, 10:00 a.m. – 11:00 a.m.
- September 25, 04:00 p.m. – 05:00 p.m.

**Advanced Engines**
- September 30, 04:00 p.m. – 05:00 p.m.
- October 2, 10:00 a.m. – 11:00 a.m.

**User Experience**
- October 7, 10:00 a.m. – 11:00 a.m.
- October 8, 04:00 p.m. – 05:00 p.m.

**Migration & SAP HANA**
- October 15, 04:00 p.m. – 05:00 p.m.
- October 16, 10:00 a.m. – 11:00 a.m.
# SAP Education packages for HANA trainings

<table>
<thead>
<tr>
<th>Size of the Package</th>
<th>Target Audience</th>
<th>Training</th>
<th>Delivery Method</th>
<th>Duration</th>
<th>Total Duration (package)</th>
<th>Price in CHF (excl. VAT)</th>
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<tr>
<td><strong>Large</strong></td>
<td>All project team members</td>
<td>HA100 SAP HANA Overview</td>
<td>onsite classroom</td>
<td>1 day</td>
<td>10 days onsite classroom + 8 hours online training +5 days hands on up to 10 participants</td>
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<td>HA200 SAP HANA Installation &amp; Administration</td>
<td>onsite classroom</td>
<td>4 days</td>
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<td></td>
<td>Application consultants</td>
<td>HA300 SAP HANA Implementation and Modeling</td>
<td>onsite classroom</td>
<td>3 days</td>
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<td></td>
<td>Application consultants</td>
<td>HA350e SAP HANA Data Provisioning</td>
<td>E-Learning</td>
<td>8 hours</td>
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<td></td>
<td>All project team members</td>
<td>HA360 SAP HANA - Hands on Lab</td>
<td>onsite classroom + hands on</td>
<td>2 days + 5 days</td>
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<td><strong>Medium</strong></td>
<td>All project team members</td>
<td>HA100e SAP HANA Overview</td>
<td>E-Learning</td>
<td>8 hours</td>
<td>8 days onsite classroom + 8 hours online training + 5 days hands on up to 5 participants</td>
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<td>4 days</td>
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<td>Application consultants</td>
<td>HA300 SAP HANA Implementation and Modeling</td>
<td>onsite classroom</td>
<td>2 days</td>
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<td></td>
<td>All project team members</td>
<td>HA360 SAP HANA - Hands on Lab</td>
<td>onsite classroom + hands on</td>
<td>2 days + 5 days</td>
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<tr>
<td><strong>Small</strong></td>
<td>All project team members</td>
<td>HA100e SAP HANA Overview</td>
<td>E-Learning</td>
<td>8 hours</td>
<td>2 days onsite classroom 0.5 day Q&amp;A remote + 35 hours online training + 5 days hands on up to 5 participants</td>
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<td>E-Learning</td>
<td>15 hours</td>
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<td>Administrators</td>
<td>HA200 Questions &amp; Answers sessions</td>
<td>VLC (remote)</td>
<td>0.5 day</td>
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</tbody>
</table>

Training material and E-Learning are in English language, classroom course delivery can be in English, German or French.

Contact information: E-mail: education.switzerland@sap.com / Tel. : 058 871 61 61 / Online shop: https://training.sap.com/shop/
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Zusammenfassung & Diskussion
Zusammenfassung – 7 Punkte zum Mitnehmen

1. Mehr als nun eine schnelle Datenbank
2. Die SAP Plattform ermöglicht die Re-Integration diverser Lösungen und Technologien: Wichtig Betrachtung aller Vereinfachungs-Dimensionen
3. Innovationen von SAP: «Baseline» Innovation
5. SAP Cloud Angebote ermöglichen variable Deployment Optionen
6. Erarbeiten Sie eine eigene IT Strategie abhängig von Ausgangssituation und strategischen Bedarf
7. Nutzen Sie die weiterreichenden Angebote für SAP ES Kunden
Kontakt

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Haben Sie noch Fragen?