

Wed 15th May 2019 15:40 - 16:40

**Workshop** HERUG 2019

# Upgrading SLcM to S/4HANA: First experiences



# Agenda

1. Introduction
2. it.education to S/4HANA steps
3. 7 Risk areas
4. Conclusion





# Introduction

# itelligence | Member of an Extensive International Network



Global IT Innovator

As part of the NTT DATA Network we provide consistent global delivery, but are flexible enough to meet the needs of large and small enterprises alike.



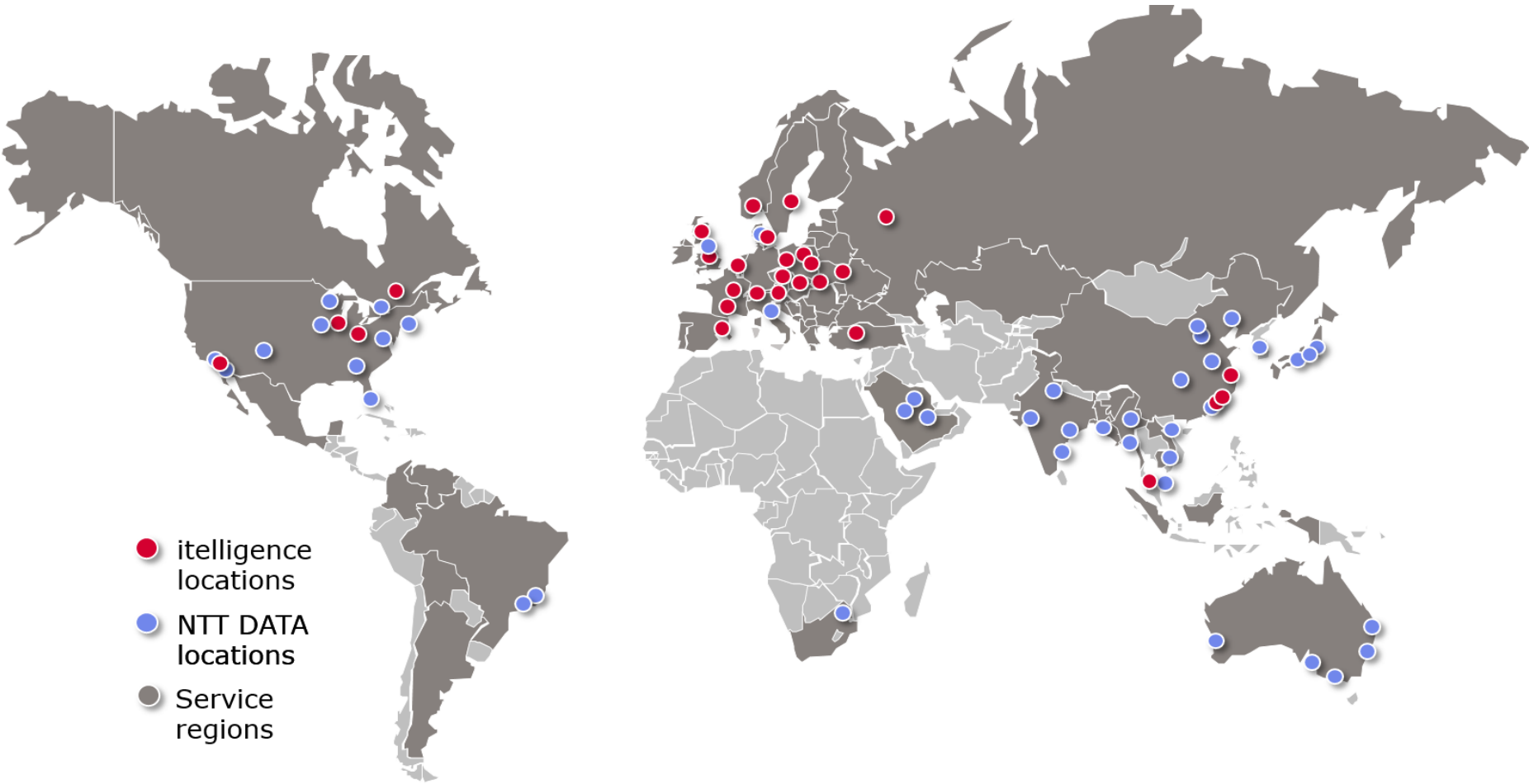
Over **115.000+**  
**it experts**  
worldwide



Over **13.500+**  
**SAP experts**  
worldwide




Presence in  
**52 countries**  
spanning  
all continents



- itelligence locations
- NTT DATA locations
- Service regions

# itelligence Worldwide in Numbers

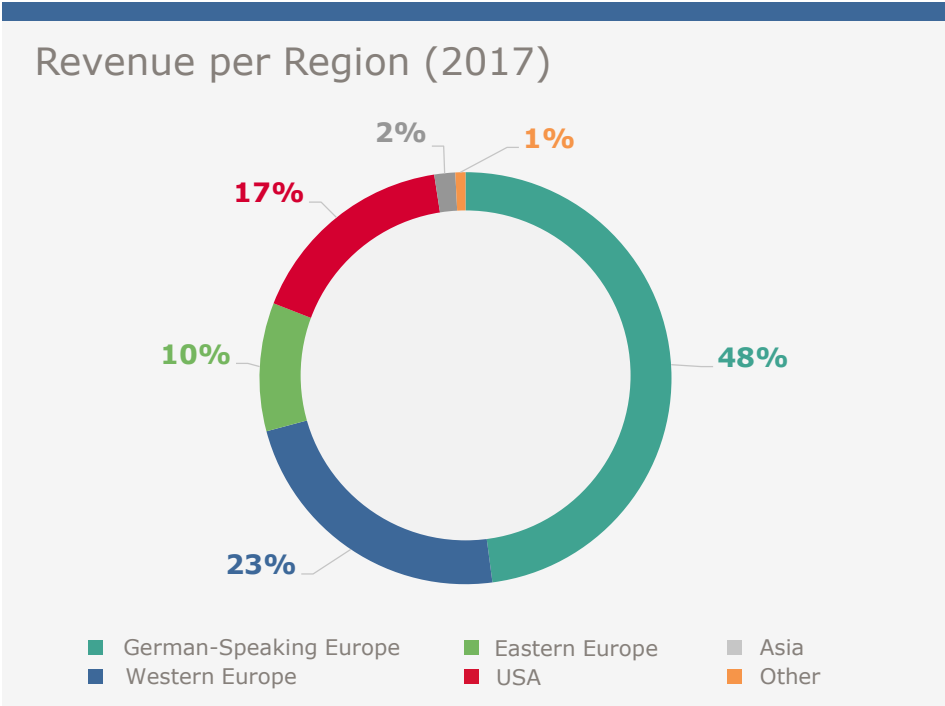
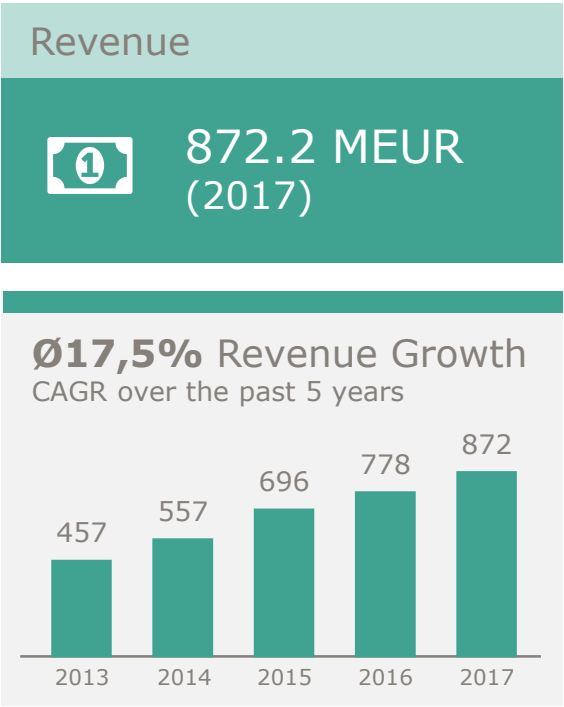
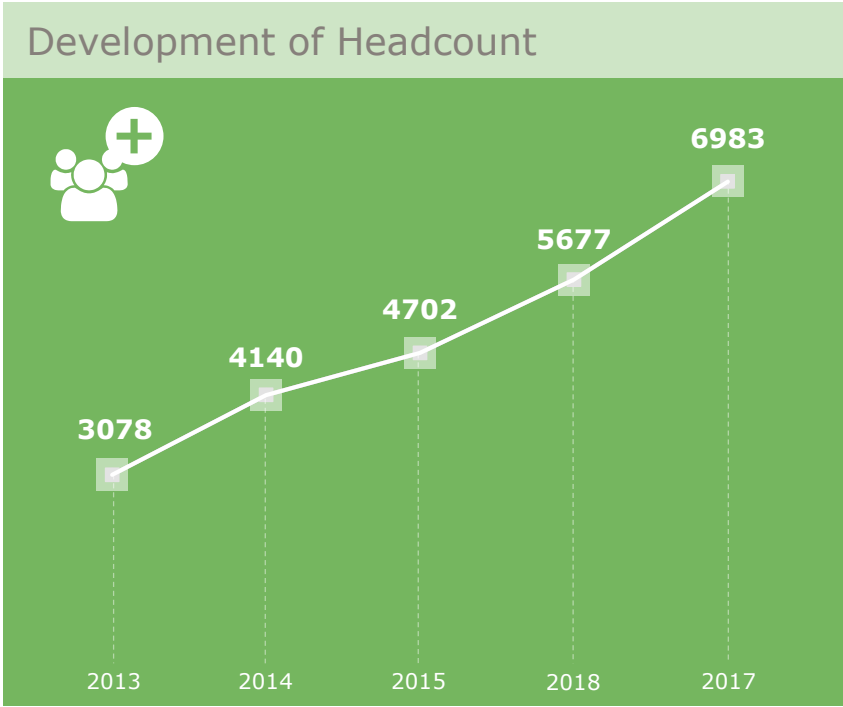
Founded

 1989

Employees

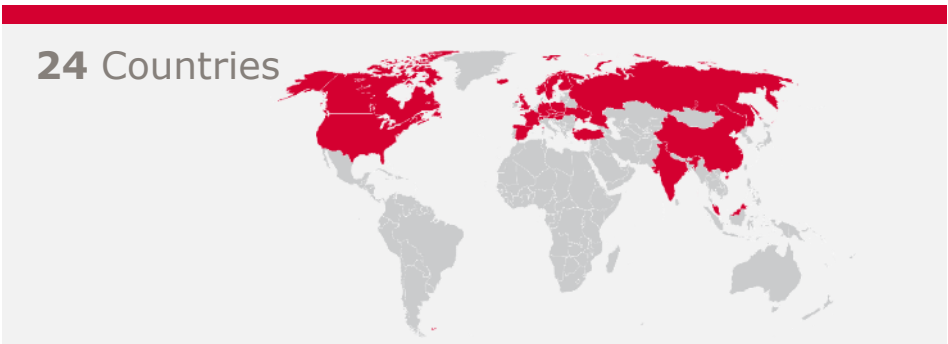
 6,900+

(as of Dec 2017)




Customers

 6,000+




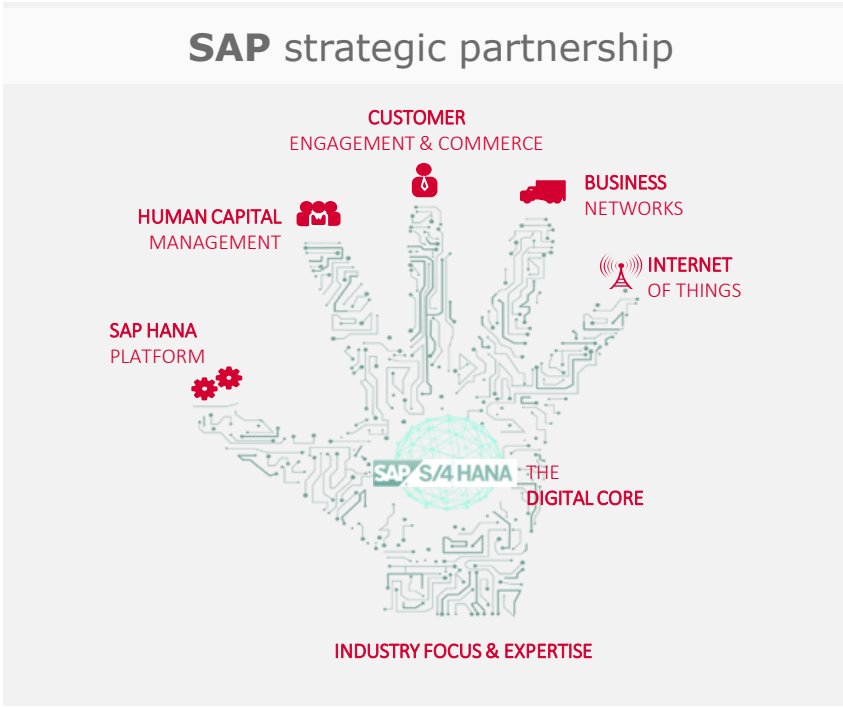
# itelligence Higher Education in Numbers

Since


 2006

Experts

 150+




Global support

 **NTT DATA**


Customers



Customers

 60+

Focus Topics




Digital Transformation  
**S/4HANA**

Smarter Universities  
**Analytics**

Student Engagement  
**SLcM, C4C, Hybris**

User Experience  
**Fiori**

Principles



Competence

Focus

Trust

Fun

Innovation

# it.education

- Build over the past 10 years
- Contains (for example)
  - 30 new or enhanced Fiori tiles
  - 250 new transactions
  - 660 single authorization roles
  - Reports
  - Document templates
  - Data migration templates for most data
  - Etc.

it.education

Fiori Apps

Applicant	Create Application	My Admission Requirements	Upload Documents	Admission Portal*		
Student	My Account Balance	My Bank Accounts	My Documents	My Refunds	Register New Modules	Modules on Waiting List
	Modules on Wish List	Registered Modules	Repetitions	My Admission Requirements	Upload Documents	My Attendance
	My Results	My Timetable	My Progression Requirements	Admission Portal*	My Requests*	My Personal Details
	My Addresses (Deprecated)	My Contact Details (Deprecated)				
Professor	My Assessments	Enter Grades	TAN-List Activation	Track Attendance	My Timetable	Attendee List
Advisor	My Advisees	Student Degree Requirements				
Faculty / Staff	Document Verification Service	Maintain Module Descriptions	Approve Module Descriptions	Publish Module Descriptions	Maintain Module Coordinator	Process Student Photos
	Admission Form Designer*	Student File	Student Degree Requirements	Student List	Attendee List	
General (No business catalog)	My Inbox	My Outbox				

it.education

it.education in development

SAP (SLcM) Standard

Extension of SAP (SLcM) Standard

\* UIS application (Does not open within Launchpad)



# Different deployment models it.education / SAP SLcM



Cloud / SaaS



Private Cloud / Hosting



On-Premise

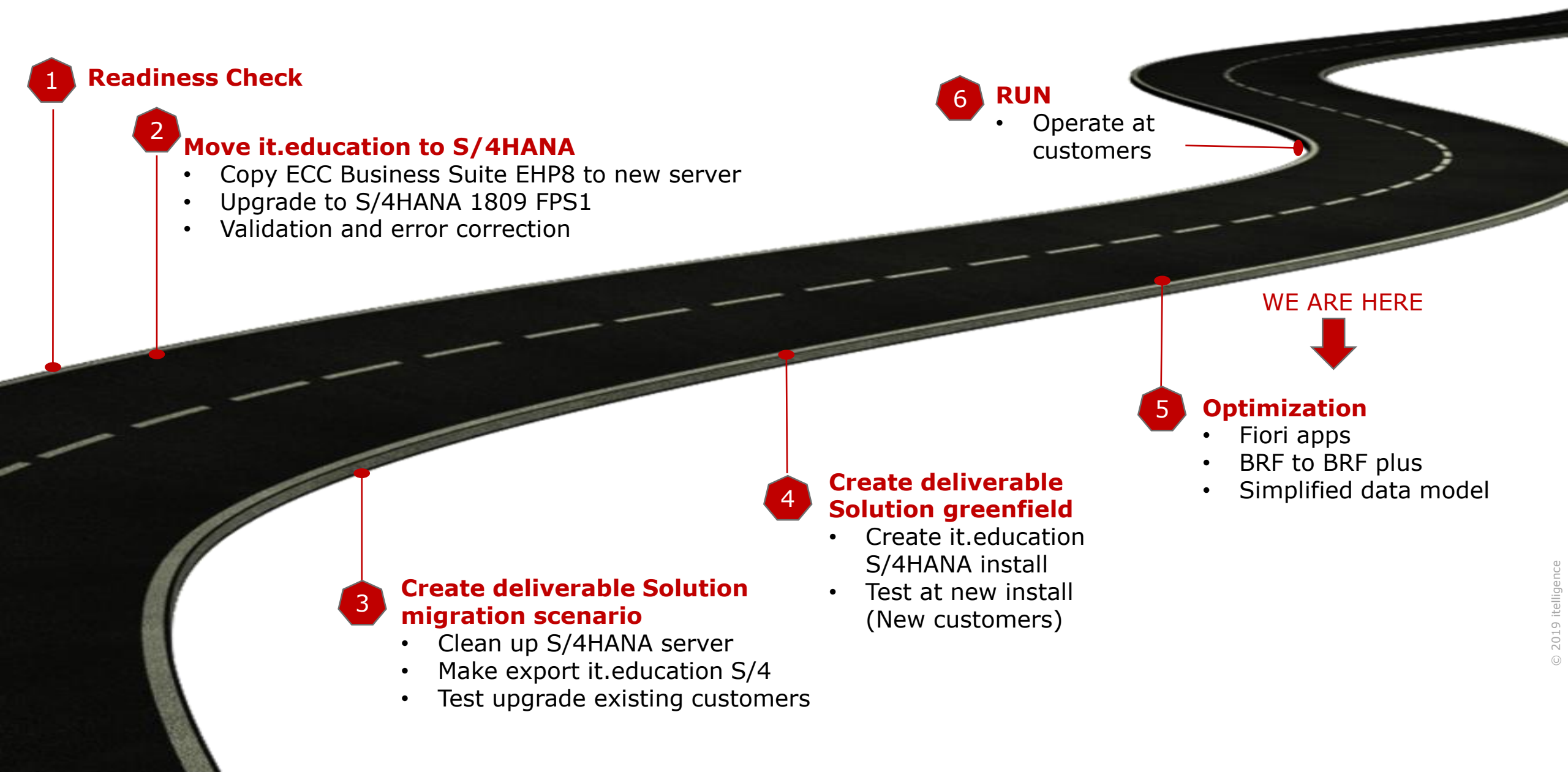


it.education to S/4HANA steps

## Question

- Who is using SLcM?
- Who has experimented already with SLcM in S/4HANA?
- Who has already moved SLcM to S/4HANA in Production?

# it.education to S/4HANA



## 1 Readiness Check

## 2 Move it.education to S/4HANA

- Copy ECC Business Suite EHP8 to new server
- Upgrade to S/4HANA 1809 FPS1
- Validation and error correction

## 3 Create deliverable Solution migration scenario

- Clean up S/4HANA server
- Make export it.education S/4
- Test upgrade existing customers

## 4 Create deliverable Solution greenfield

- Create it.education S/4HANA install
- Test at new install (New customers)

## 5 Optimization

- Fiori apps
- BRF to BRF plus
- Simplified data model

WE ARE HERE



## 6 RUN

- Operate at customers

# Attention points

- Similar for a university who has been developing on SLcM for many years
- Continue to keep it.education future proof
  - Started Code retirement
  - Started Reducing modifications in SAP objects
  - Standardizing naming conventions
  - Cleaning up old-unwanted customizing
- Maintenance and Support strategy for both new as existing it.education customers
- Fiori tiles have to be compatible with an embedded and stand alone gateway strategy
- No need to move to S/4HANA for Fiori and CDS views only



## Risk Areas

# Move it.education to S/4HANA: Risk Areas

The impact and risks were getting more and more clear during preparing, upgrading and studying the transition.

1. Business partners
2. Optimized data model
3. BRF
4. Fiori apps
5. Output management
6. Simplification check
7. Integrations





# Move it.education to S/4HANA: Risk Areas (I)

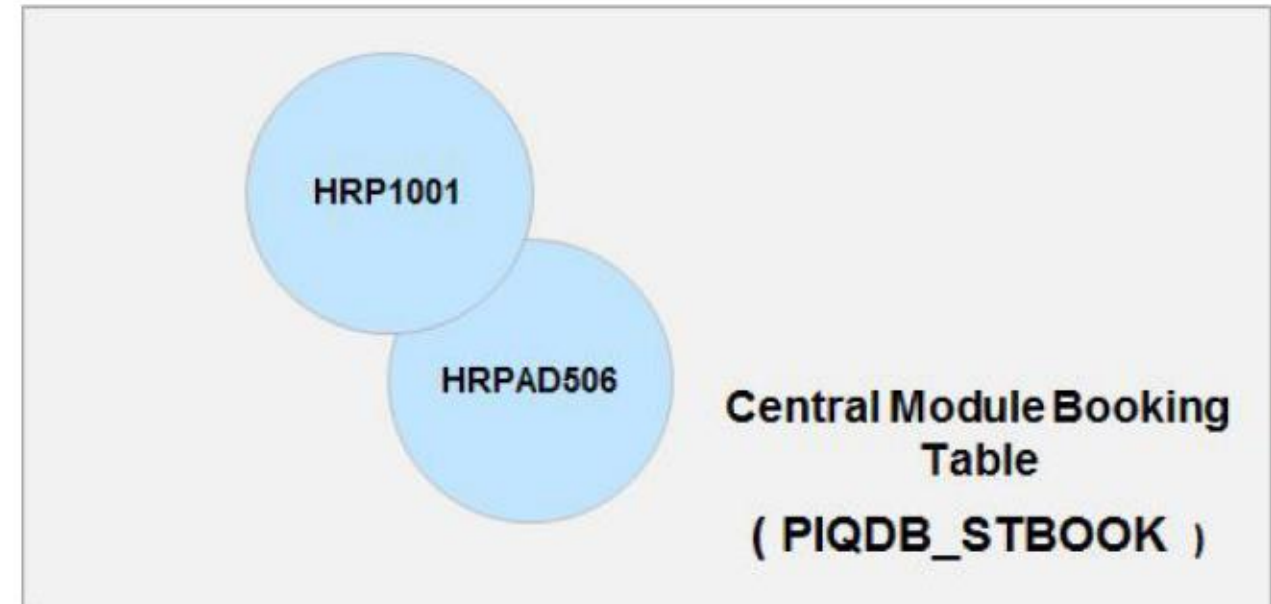
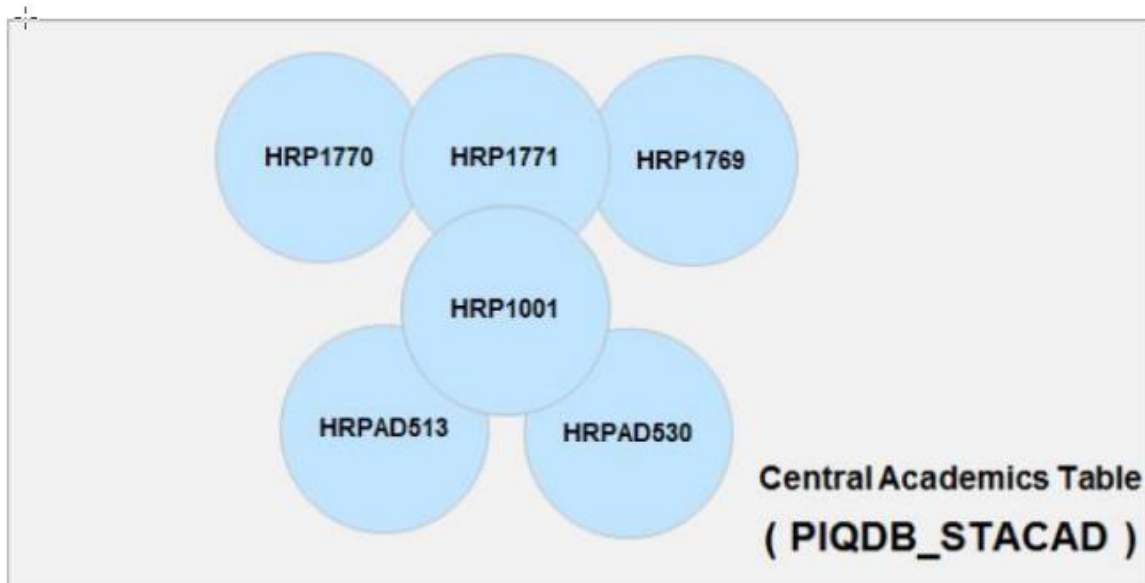
- Business partners
  - Possible risk: High
  - Business Partner Migration (CVI)
    - Mandatory for S/4HANA
    - You can implement this at any given time
    - Supported since years
    - Conversion tools are standard available
  - Changes GL account(Finance) – depending on the functions the customer needs
    - No need of any functions → no New GL sub project necessary
    - Need S/4HANA Finance functions → check if it is possible to activate them after the Conversion
  - Attention points:
    - System cleanup needed (More checks in BP then customer/vendor)
    - Archiving of historical data
    - Alignment student –business partner (note 2647172)
  - Conclusion: Impact for internal it.education systems was low
    - Big impact for existing customers. Pre-project impact analyses required



## Move it.education to S/4HANA: Risk Areas (II)

- Optimized data model

Who has experimented with this?

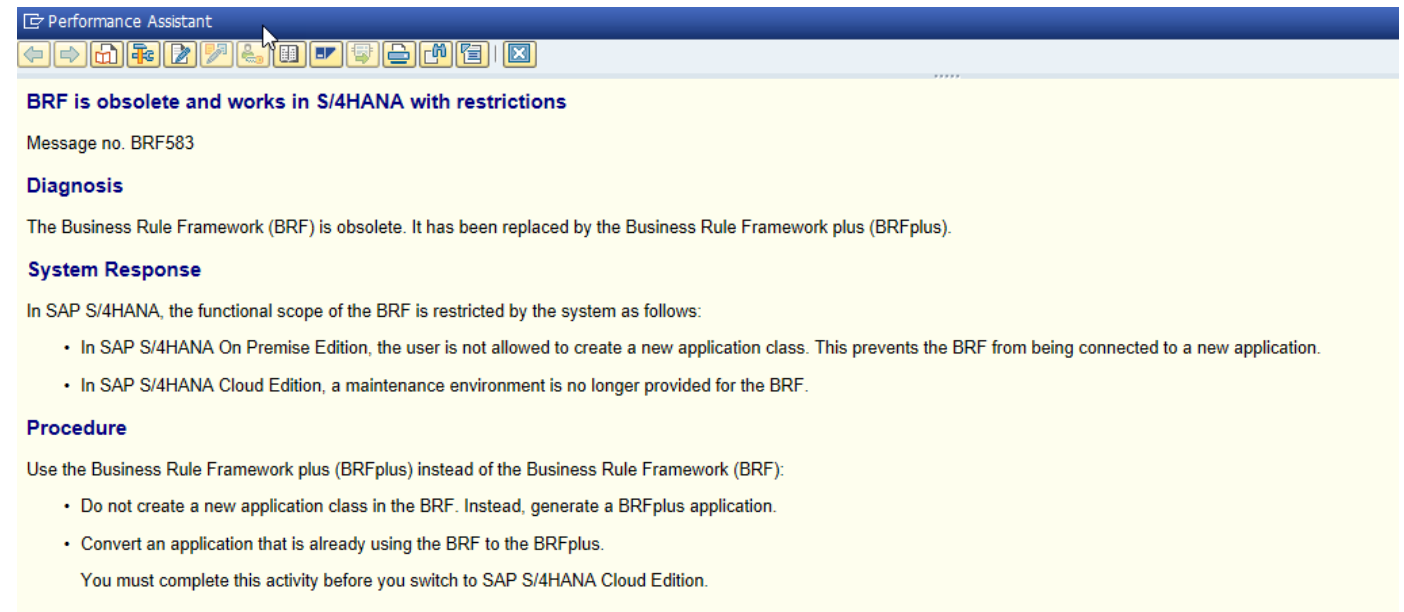
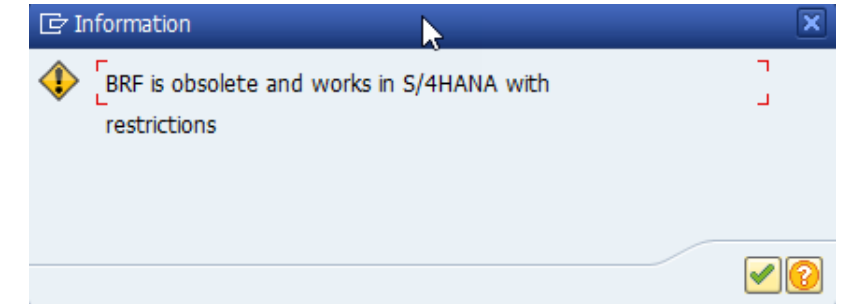


## Move it.education to S/4HANA: Risk Areas (II)

- Optimized data model (Who is using this?)
  - Possible risk: Very high
  - Activation is not mandatory. Not a reversible switch!!!
  - SAP standard transformation checks do not require this model to be activated.
  - Conclusion: Functional testing is succes without activation.
  - Relevance for (future) activating is topic of discussion. (added value?)
    - Direct link between student and program (technical)
    - Changes multiple tables to 1 table
    - Conversion: No delete in original tables with standard program

# Move it.education to S/4HANA: Risk Areas (III)

- BRF (Post processing framework in SLcM)
  - Possible risk: Very high
  - it.education/ standard SlcM just uses one Application Class
    - Has proven to be still useable on an S/4HANA -system.
    - Modifications and additions to this class can be made as before.
  - Still works (No official end of live)
  - Conclusion: no impact and optimization is to move to BRF plus
  - Optimization: Move to BRF plus with release strategy (if touched then changed)



## Move it.education to S/4HANA: Risk Areas (IV)

- Fiori apps
  - Who already uses SLcM fiori apps?
  - Embedded or standalone gateway server?

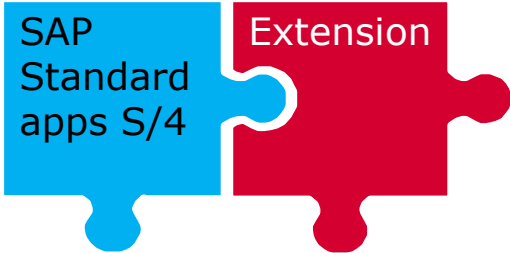
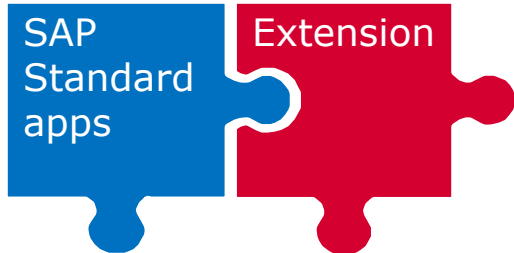
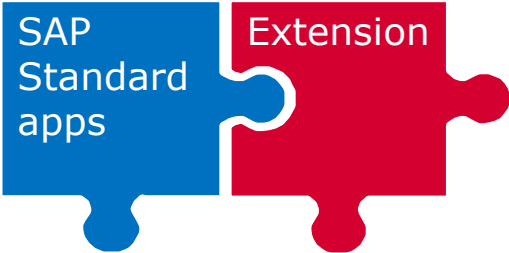
## Move it.education to S/4HANA: Risk Areas (IV)

- Fiori apps
  - Possible risk: Medium
  - SLcM standard fiori Apps are affected (next slide)
  - S/4HANA functionality is for optimization later:
    - Notifications
    - UI5 1.65 (Fiori 3.0) with new theme
  - Embedded and separate gateway was tested
  - Conclusion: Possible to deploy existing apps. Extensions have to move to new \_S4 apps

# Move it.education to S/4HANA: Risk Areas



Technical new S/4HANA app, functional same app



Optimization:  
Extension has  
to move to new  
apps



Nothing changes for custom developed apps

## Move it.education to S/4HANA: Risk Areas (V)

- Output management
  - Possible risk: low
  - Is Optional in SAP S/4HANA on premise
  - No SLcM specific functionality
  - Coexists with other frameworks (smartforms, sapscript, ...)
  - Conclusion: No impact for now, optimization later



## Move it.education to S/4HANA: Risk Areas (VI)

- Simplification Check
  - Possible risk: High
  - Simplification checks seem to be very positive.
  - Intelligence tools available for custom code check
  - Conclusion: Standard sap tool + solutions/proposed steps work very well and solved our issues.

# Results Simplification Check

2019, Januari 11th

Application Area	Title	Relevance	Status	Last Consistency Res	Exemption Possible	Note	Summary
Financials - General Ledger	S4TWL - GENERAL LEDGER	May be relevant	Released	Error	Inconsistency at warning level	2270339	Check performed, item is probably relevant. Check business impact note.
Financials - Asset Accounting	S4TWL - ASSET ACCOUNTING	May be relevant	Released	No potential inconsistency	Not Applicable	2270388	Check performed, item is probably relevant. Check business impact note.
Master Data	S4TWL - Business Partner Approach	May be relevant	Released	Blocking	Not Applicable	2265093	Check performed, item is probably relevant. Check business impact note.
Sales & Distribution	S4TWL - Data Model Changes in SD	May be relevant	Released	No potential inconsistency	Not Applicable	2267308	Check performed, item is probably relevant. Check business impact note.
Cross Topics	S4TWL - Generic Check for SAP S/4	May be relevant	Released	Error	Not Applicable	2618018	Check performed, item is probably relevant. Check business impact note.
Human Resources	S4TWL - SAP Learning Solution	May be relevant	Released	Error	Inconsistency at warning level	2383837	Check performed, item is probably relevant. Check business impact note.
Logistics - MM-IM	S4TWL - Material Ledger Obligatory	May be relevant	Released	No potential inconsistency	Not Applicable	2267834	Check performed, item is probably relevant. Check business impact note.
Master Data	S4TWL - Simplification of copy/reference	May be relevant	Released	Error	Not Applicable	2330063	Check performed, item is probably relevant. Check business impact note.
Master Data	S4TWL - Foreign Trade fields in Mat	May be relevant	Released	No potential inconsistency	Not Applicable	2267225	Check performed, item is probably relevant. Check business impact note.

2019, Januari 28th

Application Area	Title	Relevance	Status	Last Consistency Result	Exemption Possible	Note	Summary
Financials - General Ledger	S4TWL - GENERAL LEDGER	May be relevant	Released	Inconsistency at warning level	Not Applicable	2270339	Check performed, item is probably relevant. Check business impact note.
Financials - Asset Accounting	S4TWL - ASSET ACCOUNTING	May be relevant	Released	Inconsistency at warning level	Not Applicable	2270388	Check performed, item is probably relevant. Check business impact note.
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Sales & Distribution	S4TWL - Data Model Changes in SD Pricing	May be relevant	Released	Inconsistency at warning level	Not Applicable	2267308	Check performed, item is probably relevant. Check business impact note.
Cross Topics	S4TWL - Generic Check for SAP S/4HANA Con	May be relevant	Released	Inconsistency at warning level	Not Applicable	2618018	Check performed, item is probably relevant. Check business impact note.
Human Resources	S4TWL - SAP Learning Solution	May be relevant	Released	Inconsistency at warning level	Inconsistency Exempted	2383837	Check performed, item is probably relevant. Check business impact note.
Logistics - MM-IM	S4TWL - Material Ledger Obligatory for Material	May be relevant	Released	Inconsistency at warning level	Not Applicable	2267834	Check performed, item is probably relevant. Check business impact note.
Master Data	S4TWL - Simplification of copy/reference handli	May be relevant	Released	Inconsistency at warning level	Not Applicable	2330063	Check performed, item is probably relevant. Check business impact note.
Master Data	S4TWL - Foreign Trade fields in Material Master	May be relevant	Released	Inconsistency at warning level	Not Applicable	2267225	Check performed, item is probably relevant. Check business impact note.

2019, Januari 31th, after SP01 update

Application Area	Title	Relevance	Status	Last Consistency Result	Exemption Possit	Note	Summary
Financials - General Ledger	S4TWL - GENERAL LEDGER	May be relevant	Released	Inconsistency at warning level	Not Applicable	2270339	Check performed, item is probably relevant. Check business impact note.
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Logistics - MM-IM	S4TWL - Material Ledger Obligatory for Mat	May be relevant	Released	No Potential Inconsistency	Not Applicable	2267834	Check performed, item is probably relevant. Check business impact note.
Master Data	S4TWL - Simplification of copy/reference h	May be relevant	Released	No Potential Inconsistency	Not Applicable	2330063	Check performed, item is probably relevant. Check business impact note.
Master Data	S4TWL - Foreign Trade fields in Material Ma	May be relevant	Released	No Potential Inconsistency	Not Applicable	2267225	Check performed, item is probably relevant. Check business impact note.

## Move it.education to S/4HANA: Risk Areas (VII)

- Integrations
  - Possible risk: Medium
  - Existing interfacing with PI was tested
  - New possibilities are for optimization
  - Conclusion: No direct impact for our solution, lots of possibilities (SCP, HCI, API manager, ...)

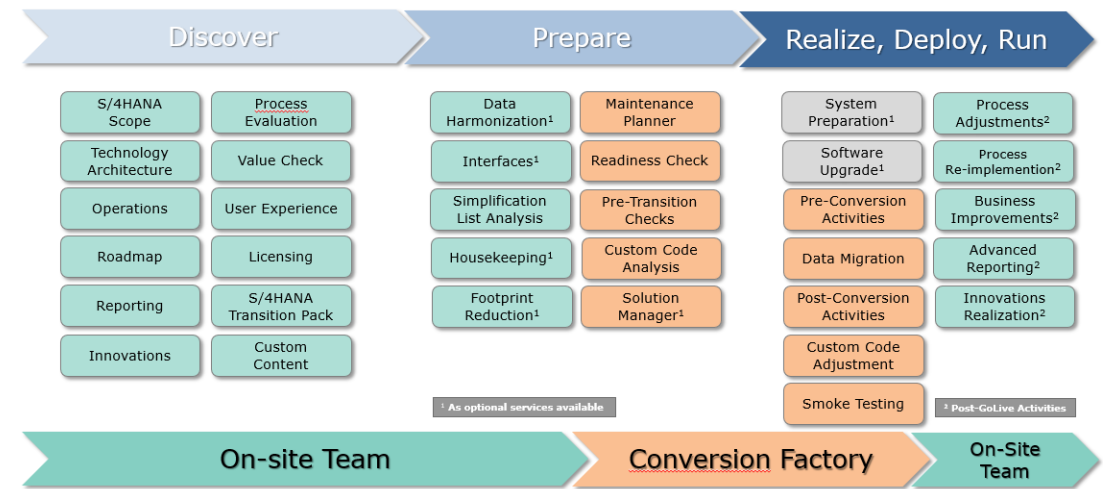
Conclusion

# Conclusion

- Preparation is everything
- Standard tools and project plan SAP are good (lot of updates)
- Custom code was migrated with small impact or bugs
- Low impact for SLcM
- No big benefits specifically for SLcM part
- Migration is possible without big effort

# How can itelligence help you?

- Making roadmap from current situation to ...
- Adding tools to standard tools sap
- Standard itelligence project approach based on best practices available
- In house (combined) Experience for SLcM and non-SLcM migrations to S/4HANA
- itelligence conversion factory
  - How big should my SAP HANA database be?
  - Are my add-ons compatible with SAP S/4HANA?
  - Which business functions that I use are affected by SAP S/4HANA?
  - What SAP Fiori applications are relevant to my users?
  - Which transactions that I use are affected by SAP S/4HANA?
  - Will my custom code objects work with SAP S/4HANA?





Q&A

Joint Discussion



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Operations Director Education

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Senior Solution Expert / Teamlead

We Transform. Trust into Value

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