

> RBE Plus Analyse bei Volvo CE



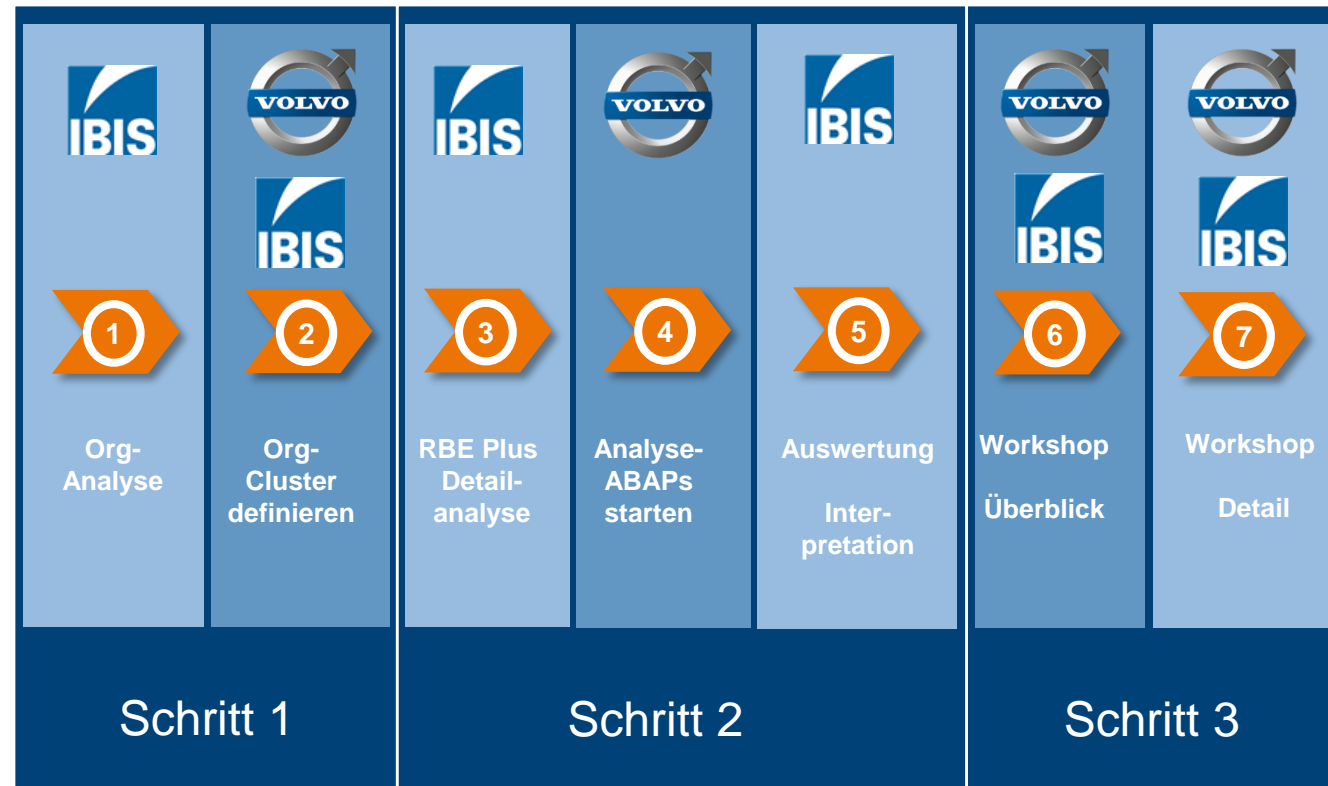
> Volvo Construction Equipment

- Headquarters: Brüssel
- Standorte: global verteilt
- Mitarbeiter: ca. 14.300 (2010)
- SAP-User: über 4.300
- Branche: Baumaschinen
- Website: www.volvoce.com



> Aufgabenstellung

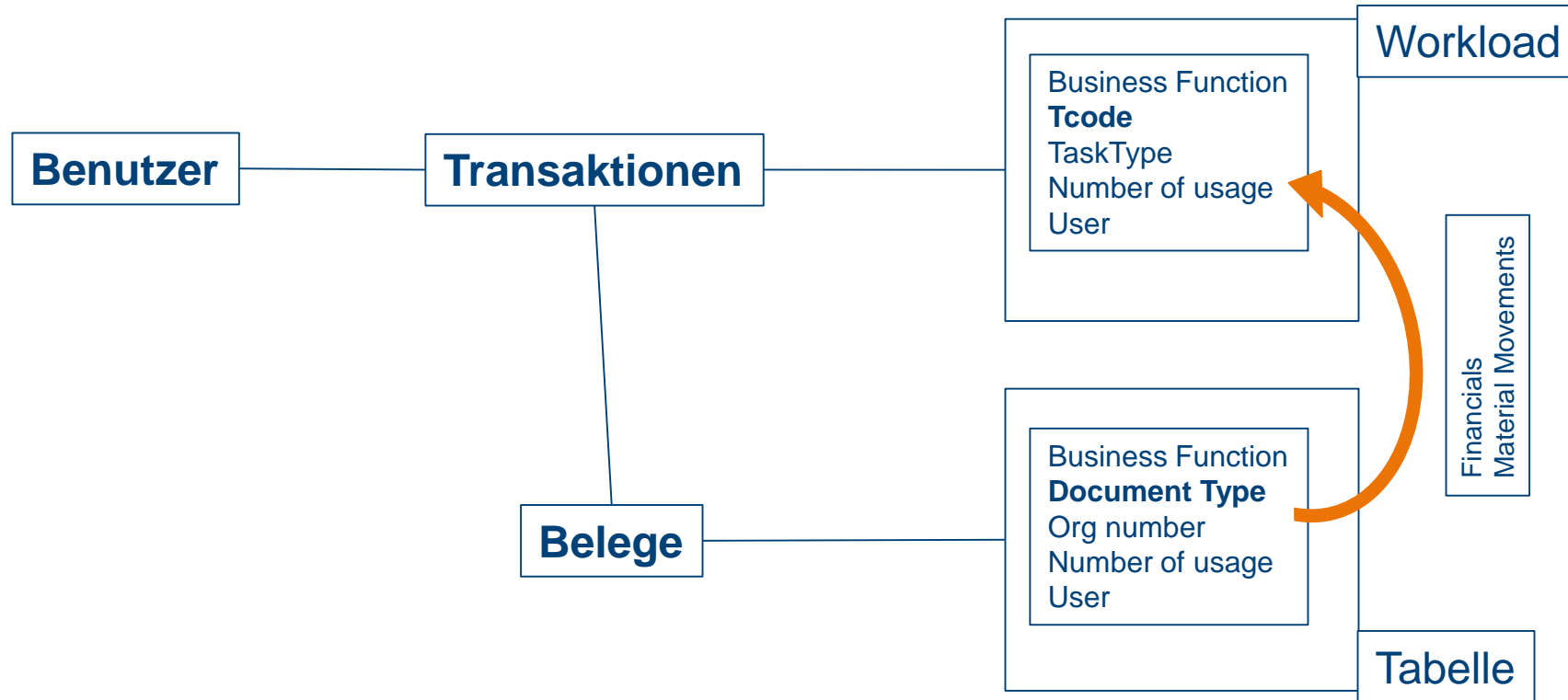
- Informationsbasis schaffen für
 - ein neues Rollenkonzept
 - die Harmonisierung der regionalen Einheiten
- Umfassende Nutzungsanalyse des ERP-Systems
 - Transaktionen
 - Prozesse
 - Rollen
- Gesonderte Nutzungsbetrachtung der Regionen auf Basis von 21 Werken



> Schritt 1: Definition der Analyseeinheiten

- Ermittlung der relevanten Werke
- Ableitung der abhängigen Organisationseinheiten
- Definition der zugehörigen Benutzer zur Ableitung der Transaktionswerte





> Definition der Organisationscluster

Werk	Buchungskreis	Kostenrechn.	Einkaufsorg	Verkaufsorg	
1000	1000	1000	EK01	SO01	Cluster 1
1000	1000	1000	EK02	SO01	
2000	2000	1010	EK03	SO03	Cluster 2

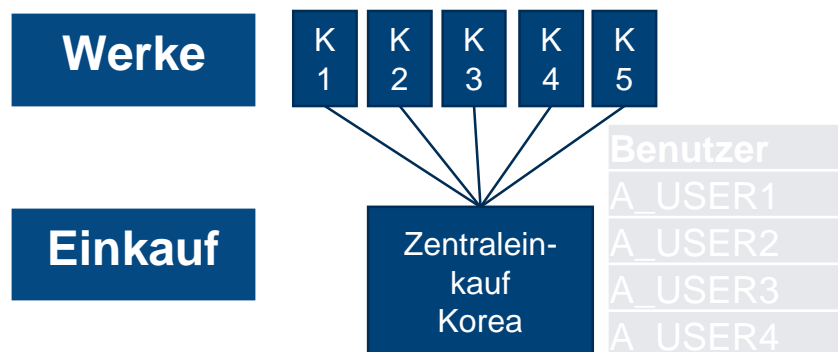
Benutzer
A_USER1
A_USER2
A_USER3
A_USER4
A_USER5
A_USER6

B.Gruppe
A_GRP1
A_GRP2
A_GRP3

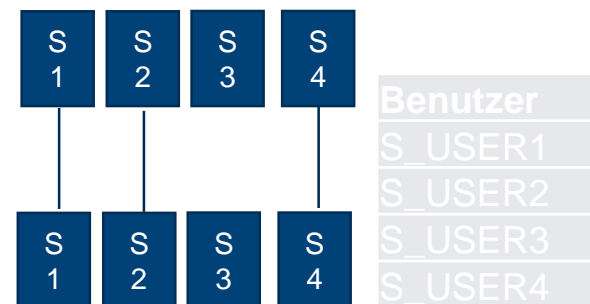
- Typischer Prozess zur Spezifikation
- Basiert auf der tatsächlichen Nutzung & den tatsächlichen Verbindungen der Organisationseinheiten
- Repräsentative Benutzereinheiten ergänzen die Ergebnisse um die transaktionale Sicht
- Überlappungen müssen gesondert betrachtet werden
- Für Volvo CE wurden 21 werksabhängige Cluster definiert + 1 statistisches Restcluster

Beispiel

Korea: 



Sweden: 



Komplexe organisatorische Abhängigkeiten / Überschneidungen machen "fachbereichsspezifische" Abweichungen notwendig,

Bsp. Zentraleinkauf

> Schritt 2: Durchführung der Analyse

- Zeitraum: ca. 3 Wochen
- Umfang:
 - Logistik, Rechnungswesen
 - 22 Cluster für die Einzelbetrachtung
 - Benutzer- und Rollenanalyse



> Schritt 3: Ergebnisse

- Mengengerüste
- Transaktionen
- Prozesse
- Belege
- Harmonisierungspotenziale
- Komponentennutzung
- Anpassung
- Rollennutzung



> Harmonisierungspotential - Strukturvergleich

Beispiel

Struktur	RBE Plus Value	Activation Status	Org Cluster 1	Org Cluster 2	Org Cluster 3	Org Cluster 4	Org Cluster 5
			RBE Plus Value	RBE Plus Value	RBE Plus Value	RBE Plus Value	RBE Plus Value
Cluster Analysis							
<input type="checkbox"/> Usage of Components in Sales							
Presales	1	active	0	0	1	1	1
Outline Agreements	0	inactive	0	0	0	0	0
Sales Orders	1	active	1	1	1	1	1
Deliveries	1	active	1	1	1	1	1
Invoicing	1	active	0	1	1	1	1
Returns Processing	1	active	0	1	1	0	1
Foreign Trade	1	active	1	1	1	1	1
Number of used components	6	active	3	5	6	5	6
Ratio used components	85.7%	active	42.9%	71.4%	85.7%	71.4%	85.7%
<input type="checkbox"/> Usage of Processes in Sales							
Account Processing in ERP	1	active	0	1	1	1	1
Rebate Agreement Processing in ERP	1	active	0	1	0	0	1
		active	0	1	0	0	0
		active	0	0	0	0	0
		active	0	0	0	0	0
		active	0	0	1	1	1
		active	1	1	1	1	1
		active	1	1	1	1	1
		active	0	0	0	0	1
		active	0	1	0	0	1
Billing in ERP	1	active	0	1	1	1	1
Complaints Processing in ERP	0	inactive	0	0	0	0	0

"Ausreißer"

"Ausreißer"

"Ausreißer"



"Ausreißer"

Strukturvergleich auf Organisationsebene (Cluster):

- Komponenten
- Geschäftsprozesse
- Identifikation von Ausreißern

> Beispielbericht Prozessanalyse

Beispiel

Struktur	RBE Plus Value	Activation Status	Number of users	Cluster 1 		Cluster 2 	
				RBE Plus Value	Number of users	RBE Plus Value	Number of users
Make-to-Order Processing in ERP		active					
BPR-Transactions							
VA01 (Create Sales Order)	3,354	active	10	3,342	9	12	1
VA02 (Change Sales Order)	759	active	7	759	7		
VA03 (Display Sales Order)	575	active	8	575	8		
VA05 (List of Sales Orders)	55	active	7	54	6	1	1
SDO1 (Orders within time period)	34	active	2	17	1	17	1
V.02 (List of Incomplete Sales Orders)	61	active	4	59	3	2	1
V.26 (Selection by Object Status)	18	active	2	18	2		
V.15 (Display Backorders)	23	active	1	23	1		
SDD1 (Duplicate Sales Documents in Period)	0	inactive	0				
VA14L (Sales Documents Blocked for Delivery)	0	inactive	0				
V23 (Sales Documents Blocked for Billing)	0	inactive	0				
V.01 (Sales Order Error Log)	0	inactive	0				
V.14 (Sales Orders Blocked for Delivery)	0	inactive	0				
V.25 (Release Customer Expected Price)	0	inactive	0				
VA44 (Actual Overhead: Sales Order)	0	inactive	0				
						2	

Strukturvergleich auf Prozessebene (Cluster):

- Transaktionszuordnungen
- Prüfschritte (SQL)
- Transaktionswerte und Benutzeranzahl

> Beispielbericht Transaktionsanalyse

Beispiel

Used transactions by component and package									
Application Key	Package of Transaction	Transaction	Cust. Type I	Value Org Cluster 1	Value Org Cluster 2	Value Org Cluster 3	Value Org Cluster 4	Value Org Cluster 5	Transaction text
w/o assignment	ZMM2	ZLFM2030	9	441	69	45	67	0	List of Transfer Orders
w/o assignment	ZMFM03	ZMFMB2010	9	9.174	16.414	53.539	1.043.827	70.586	Project Control
w/o assignment	ZMM2	ZLFM2031	9	576.501	1.505	196.365	119.682	0	Replenishment by Part
w/o assignment	ZMM2	ZLFM2020	9	150.159	0	49.514	136.385	5.976	KANBAN Status Change Empty
w/o assignment	ZMM2	ZLFM2037	9	147.771	162.805	122.248	92.911	0	On-hand Stock Display
w/o assignment	ZZPP1	YFMPE004	9	0	257	0	0	0	Transfer Posting Storage location
w/o assignment	ZCS_STANDAR	ZTBL	9	24.175	12.479	15.865	13.760	24.908	Table Browser - Utility tool
w/o assignment	ZMM2	ZLFM2010	9	1	0	0	0	0	GR_External
PP	ZCFM01	YCFMPPR072	9	187.062	226	127.443	0	20.330	Machine and Option Planning
PP	ZCFM01	YCFMMDR026N	9	14.273	73.470	3.526	15	30.926	Routing Component Allocation
PP	ZCFM01	YCFMECN001	9	98.573	82.911	103.565	14.633	3.964	Engineering Change Workplace
w/o assignment	ZMM2	ZLFM2070	9	88.713	16.404	49.846	16.251	54.215	Enter Cycle Count Result
w/o assignment	Y_FTT	YQFMFTT005	9	0	0	0	0	0	FTT- PDA Result Recording
w/o assignment	ZEUPP	ZCO41	9	106	6.477	9.593	189	217	Coll. Conversion of Planned Orders
w/o assignment	YMMUS	YMMR007	9	89.328	74.407	32.296	29.704	24.046	MRP exception message list
w/o assignment	ZSMM	ZS13	9	0	0	0	5.441	0	Display material master(special)
								35.387	Component Serial No. Input
								0	Return credit to consumption
								13.333	Open Requirement Report
								0	SDLG Machine Card Direct Creation
								0	List of Transfer Orders (Small)
								0	Linefeeding Pick List
								0	List of transfer order
				12.478					중장비 주요기능품 Serial No. 입력
				0					Work with HU with in-plant status
				589					Barcode 입고 Check(Serial number)
				29.589					APQP List Display
				11.990					Engineering change Workplace
				43.666					Propose Cycle Count Indicator

Mengengerüste und Nutzungsgrade in den einzelnen Organisationseinheiten (Cluster)

- SAP- und Kundentransaktionen
- Organisationselemente
- Stammdaten
- Customizing-Elemente
- Belege

> Harmonisierungspotential – Ausreißer und Best Practices

Beispiel

Structure	Org Cluster 1		Org Cluster 2		Org Cluster 3		Org Cluster 4		Org Cluster 5	
	RBE Plus Value	Activation Status	RBE Plus Value	Activation Status	RBE Plus Value	Activation Status	RBE Plus Value	Activation Status	RBE Plus Value	Activation Status
Scorecard Production for Discrete Industries 1										
USERS										
Created production orders	14	active	27	active	18	active	10	active	7	active
Production order creations per user and month	26	active	57	active	174	active	115	active	18	active
Created production order completion	17	active	54	active	13	active	3	active	13	active
Production order completions per user and month	287	active	1,136	active	80	active	31	active	81	active
PROCESS DATA										
Created production orders	2,503	active	10,774	active	29,557	active	8,052	active	948	active
Thereof released	99.4%	active	100.0%	active	99.7%	active	100.0%	active		active
Thereof delivered	93.4%	active	94.5%	active	96.5%	active	96.5%	active		active
Thereof confirmed	98.5%	active	98.5%	active	97.3%	active	96.7%	active		active
Thereof settled	97.8%	active	95.5%	active	95.4%	active	95.8%	active		active
INTEGRATION										
Production orders based on planned orders	50.3%	active	53.5%	active	49.1%	active	100.0%	active	63.2%	active
Production orders with batch	0.0%	inactive	0.0%	inactive	1.1%	active	0.0%	inactive	0.0%	inactive
Production orders with configuration	28.2%	active	33.5%	active	2.0%	active	16.7%	active	63.2%	active
Production orders customer-related	28.2%	active	34.2%	active	11.1%	active	16.7%	active	63.2%	active
Production orders with WBS element	0.0%	inactive	0.0%	inactive	0.0%	inactive	0.0%	inactive	0.0%	inactive
Scorecard Production for Discrete Industries 2										
MASTER DATA - PROCESS										
Valid materials for in-house production	1,955	active	36,901	active	18,283	active	2,694	active	40,794	active
Thereof used materials for in-house production	3.7%	active	1.2%	active	13.2%	active	5.8%	active	0.0%	active
Valid bill of material headers	2,137	active	36,034	active	19,025	active	2,462	active	5,728	active
Thereof used bill of material headers	4.1%	active	1.3%	active	13.2%	active	6.5%	active	0.2%	active
MASTER DATA - OPERATION										
Valid routing headers	733	active	20,579	active	16,611	active	1,888	active	2,310	active
Thereof used routing headers	8.0%	active	1.7%	active	14.9%	active	8.0%	active	0.3%	active
Valid work center	135	active	870	active	324	active	8	active	922	active
Thereof used work center	50.4%	active	46.2%	active	44.8%	active	44.8%	active	1.6%	active
EXCEPTIONS CONFIRMATION										
Failed goods movements in confirmation	0.1%	active	0.2%	active			0.2%	active	34.6%	active
Incorrect cost postings in confirmation	0.0%	inactive	0.2%	active			0.0%	inactive	0.0%	inactive
Scrap in confirmation	0.0%	inactive	0.0%	inactive			0.0%	inactive	0.0%	inactive
Rework in confirmation	0.0%	inactive	0.0%	inactive			0.0%	inactive	0.0%	inactive
Cancelled production order confirmations	0.1%	active	0.5%	active	0.3%	active	0.0%	inactive	0.1%	active
EXCEPTIONS ORDER										
Production orders with overdue for release	0.0%	inactive		inactive	0.0%	inactive	0.0%	inactive		inactive
Production orders with over-due for delivery completed	6.0%	active		active	3.9%	active	3.4%	active		active
Production orders with overdue for technical closure	100.0%	active		active	99.9%	active	99.7%	active		active
Production orders with overdue for final confirmation	0.1%	active	0.5%	active	23.5%	active	80.9%	active	0.0%	inactive
Production orders with deletion indicator	45.8%	active	43.6%	active	1.0%	active	0.4%	active	38.4%	active

Ausreißer

Best Practices

Ausreißer

Best Practices

Ausreißer

Best Practices

> Ergebnisse Access Analysis

- Ergebnisse:
 - Benutzerverwaltung
 - Aktivitätenanalyse
 - Sicherheit
 - Rollenanalyse
 - Rollen Anpassung
 - Zuordnungen

- Empfehlungen (Bsp.)
 - Bereinigung
 - Reduktion
 - Automatisierung
 - Intensivierung
 - Ausnahmen
 - Prozessverbesserung
 - Compliance



The screenshot displays the RBE Plus Browser interface. At the top, it shows the project name 'User and Role Analysis' and the analysis name 'RBE Plus User/Role Analysis VOLVO'. The main content area is titled 'Access Analysis' and features a navigation tree on the left and a main panel on the right. The navigation tree includes categories like 'User Analysis', 'Security checks', and 'Role Analysis'. The main panel displays the 'Access Analysis' results, including the system ID 'VCE', client '100', and analysis period '20121101 - 20130531'. A large blue banner with the IBIS RBE PLUS logo and a portrait of a man is also visible in the main panel.