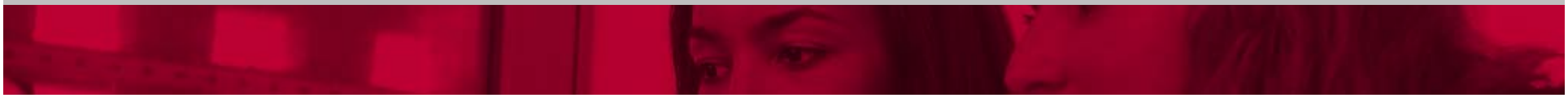
UNIVERSITEIT VAN AMSTERDAM

Implementation of BPC on HANA

Solution or frustration?

HERUG 2016 Durham – A-2

Agenda



1 Facts University of Amsterdam

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Agenda

1 Facts University of Amsterdam

2 Options BPC

Agenda

1 Facts University of Amsterdam

2 Options BPC

3 Challenges

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Agenda

1 Facts University of Amsterdam

2 Options BPC

3 Challenges

4 Results

Agenda

1 Facts University of Amsterdam

2 Options BPC

3 Challenges

4 Results

5 Solution or frustration?

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Facts University of Amsterdam

1 2 3 4 5

31000 Students

33% masters'

67 % bachelors'

5000 Employees

60% academic

40% non-academic

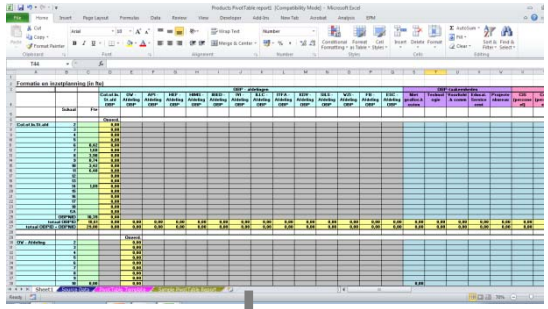
7 Faculties

Support departments

600 Million budget

Initial budget planning

Cost allocation sheet



SAP®

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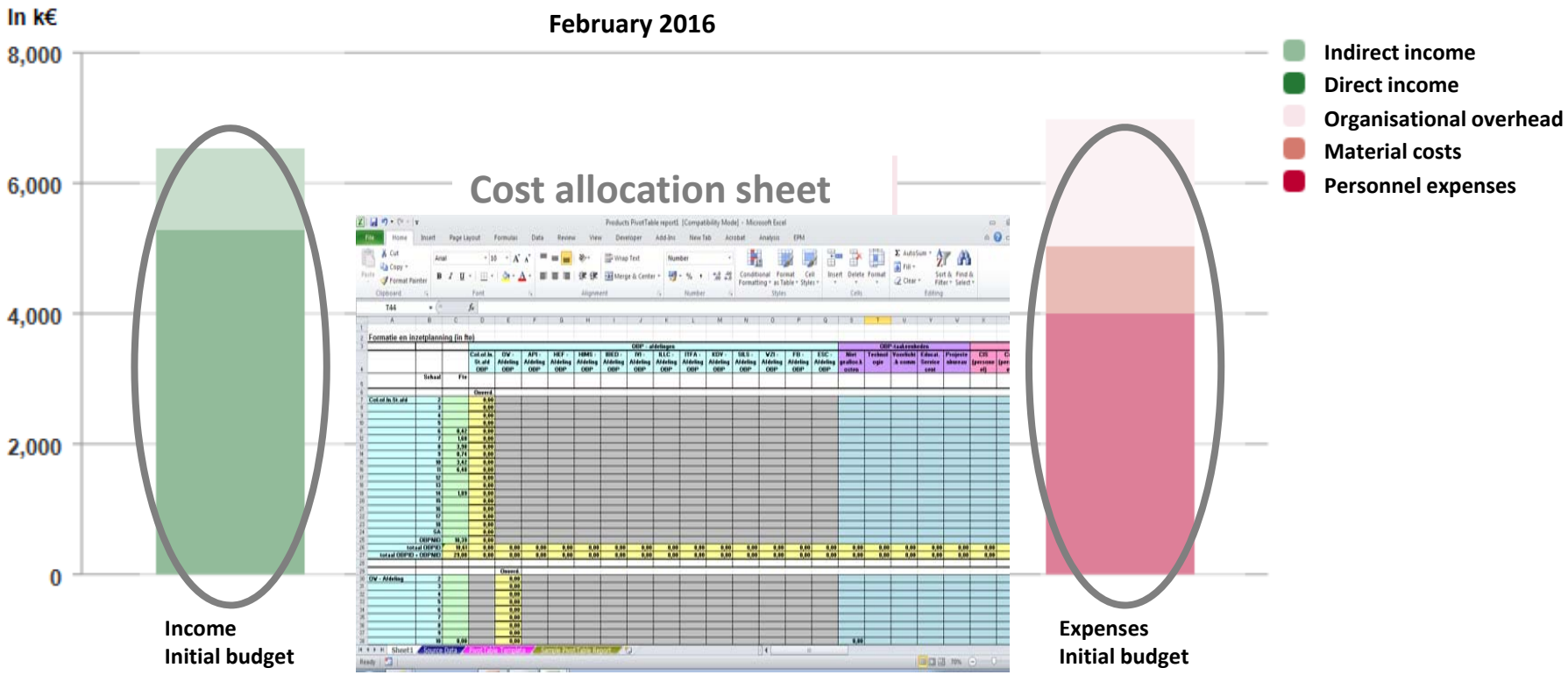
Initial Budget

Current year

Selection: Faculty of Law



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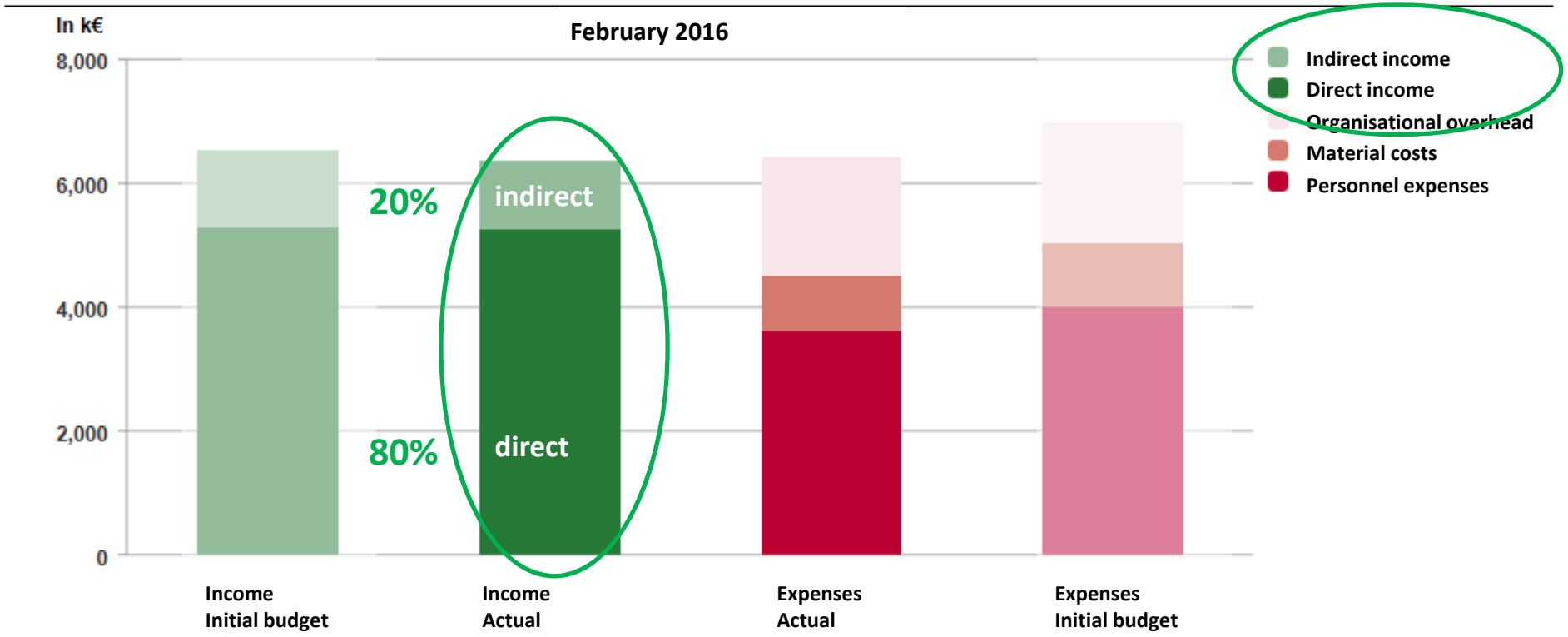
Budget – Income per faculty

Current year

Selection: Faculty of Law



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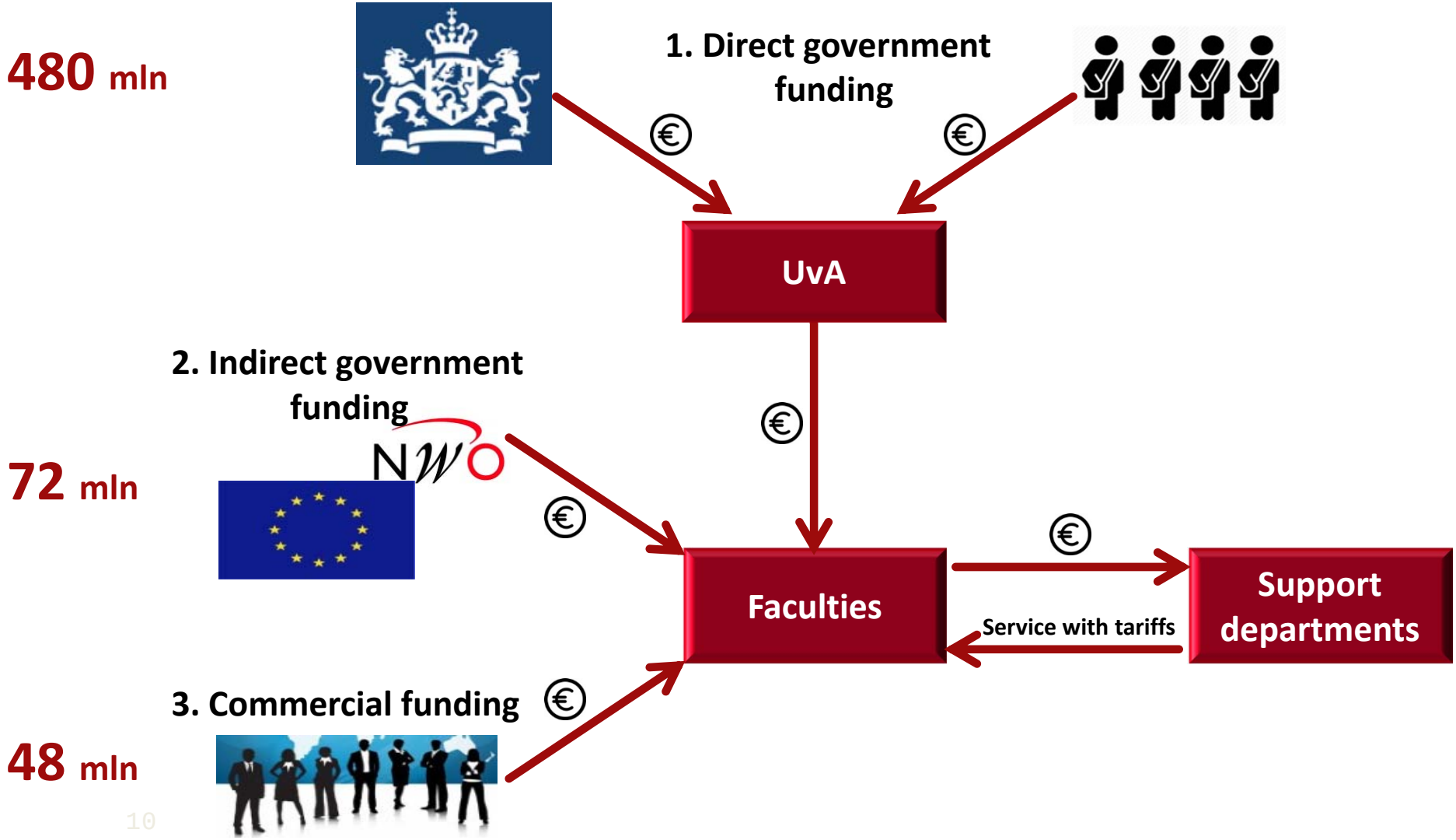
Budgeting process – Income



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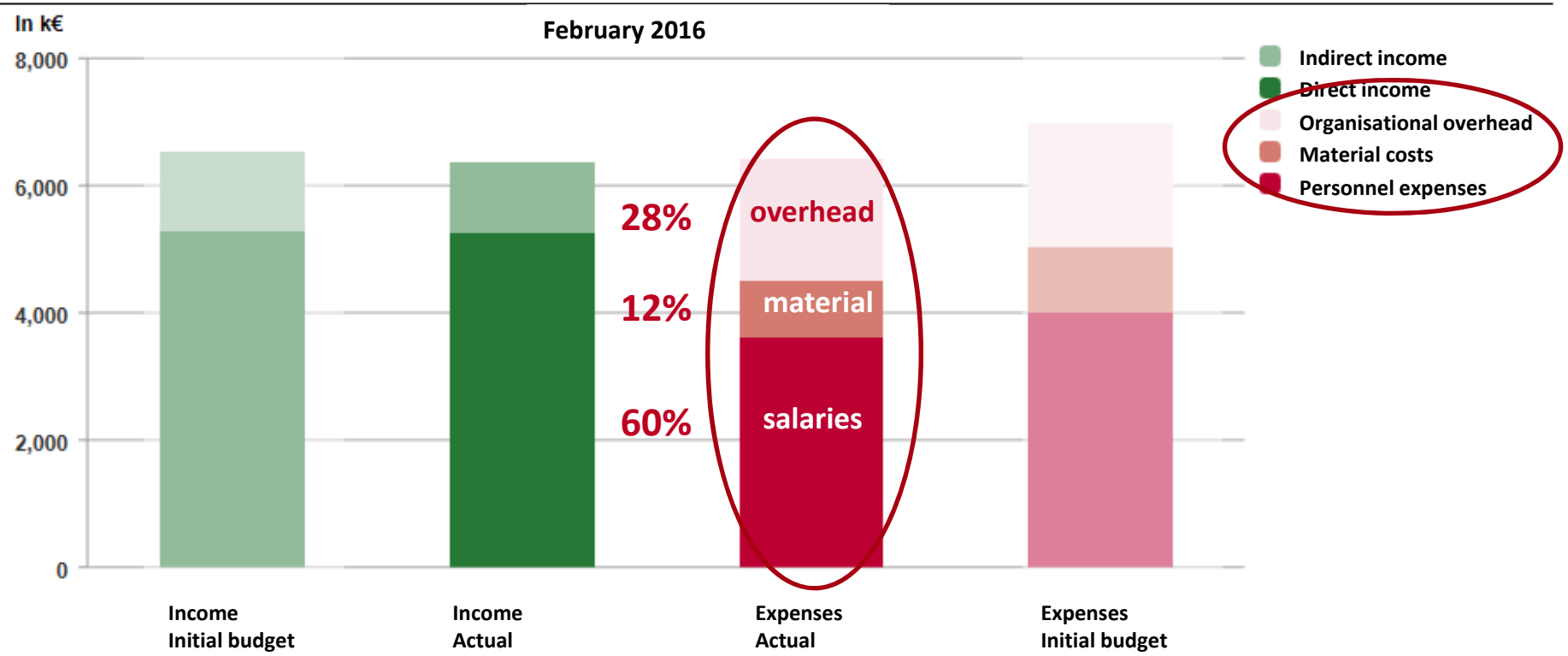
1 2 3 4 5

Budget - Expenses

Current year

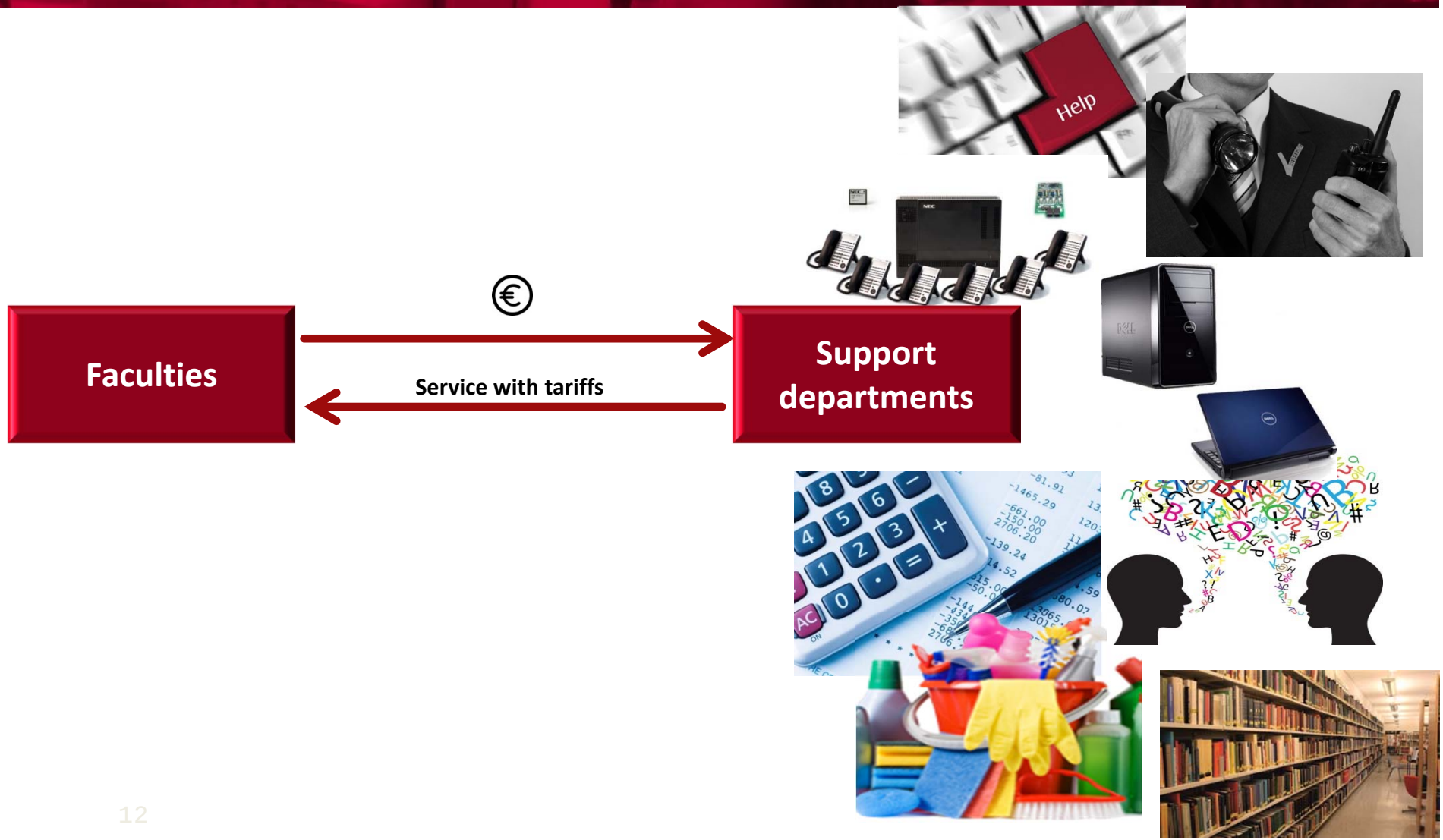
Selection: Faculty of Law



UvA facts

1 2 3 4 5

Organisational overhead expenses



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Expenses organisational overhead

Eenheid	Dienst	Prijs KB 2016(j)	FGW	FdR	FNWI	FEB	FMG	AUC	B&B	Totaal 2016
Vastgoed / m2	Vastgoed	200,56	21.352	14.996	53.286	11.065	28.811	4.832	7.894	300.148
Energie/ m2	EB	31,25	21.352	14.996	53.286	11.065	28.811	4.832	7.894	254.494
UvAwerkplek (Standaard) desktop	ICTS	888,00	911	466	935	231	196	49	152	4.609
UvAwerkplek (Standaard) laptop	ICTS	1.053,00	47	26	86	109	828	36	63	1.549
UvAwerkplek (Speciaal) desktop	ICTS	1.203,00	36	13	97	46	49	1	9	417
UvAwerkplek (Speciaal) laptop	ICTS	1.368,00	8	6	46	34	52	-	13	264
UvAwerkplek (Zelfsupport)	ICTS	68,00	308	69	1.373	164	614	7	21	2.763
UvAprinten	ICTS	649,00	72	21	76	25	106	5	33	457
										-
ICT basisdienst / IAR	ICTS	343,50	1.486	685	1.926	704	1.851	64	211	8.419
Telefonie	ICTS	102,00	953	502	1.533	445	1.123	58	193	5.975
										-
Studiecentra / stud.	UB	225,10	6.498	3.382	5.255	4.805	8.014	511		28.924
CIS	ICTS	1,00							1.220.000	5.861.000
Onderwijs- en onderzoekdiensten / stud.	ICTS	78,00	6.498	3.382	5.255	4.805	8.014	511		31.306
Faciliteiten / m2	FS	29,73	21.352	14.996	[illegible]	11.065	28.811	4.832	7.894	254.494
UB / fte WP PID	UB	2.406,00	545	[illegible]	797	[illegible]	770	35	8	3.193
Faculteitsbibliotheek	UB	1.000,00	3.926		2.043	590	1.431			7.991
Bedrijfsgezondheid / IAR PID	AMD	212,00	925	448	1.262	376	1.304	58	125	5.326
Communicatie / stud.	BC	151,40	6.4[illegible]	[illegible]	[illegible]	[illegible]	[illegible]8.014	511		31.306
Studvoorz / stud.	StS	260,20	6.4[illegible]	[illegible]	[illegible]	[illegible]	[illegible]8.014	511		31.306
Basisdienst AC / kl Baten	AC	2,92	84.1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]6.427	4.576	55.933	711.809
Financiële administratie / factuur	AC	29,39	5.9[illegible]	[illegible]	[illegible]	[illegible]	13.025	727	4.203	79.102
Proj. Adm. / WBS regels	AC	71,76	2.364	[illegible]	4.029	1.539	3.956	62	311	19.215
CSA / stud.	AC	153,80	6.498	3.382	5.255	[illegible]	8.014	511		31.306
Pers. & sal. adm. / IAR PID	AC	381,03	925	448	1.262	376	1.304	58	125	5.326
Pers. & sal. adm. / IAR PNID	AC	190,54	90	75	301	225	145	4	31	1.036
Pers. & sal. adm. / IAR GAST	AC	63,50	471	162	340	103	[illegible]	2	55	1.986
Personeelsadvertenties / IAR PID	BC	79,00	925	448	1.262	376	1.30[illegible]	58	125	5.326
Corporate communicatie	BC	1.020.000,00							1	1
IC programmaleiding	ICTS	1.520,00							1.000	1.000
IC multimediadiensten	ICTS	1,00							320.000	428.000
m2 gewogen schoonmaak	FS	18,85	17.539	13.376	43.104	9.585	24.665	5.[illegible]52	7.935	244.389
Openingstijden beveiliging	FS	34,11	13.875	6.904	2.924	5.321	7.231	2.94[illegible]	2.926	93.028
Faciliteiten / IAR PID	FS	198,26	925	448	1.262	376	1.304	58	125	5.326
Faciliteiten / IAR PNID	FS	128,10	90	75	301	225	145	4	31	1.036
Faciliteiten / IAR GAST	FS	82,60	471	162	340	103	402	2	55	1.986
Faciliteiten / student	FS	54,83	6.498	3.382	5.255	4.805	8.014	511	-	31.306
Inkoop / kl Overige kosten + inhuur PNID	FS	15,87	10.899,52	5.459,96	20.576,80	7.563,27	14.662,04	734,97	6.625,[illegible]	105.754,33
BOL uren grote zalen	FS	25,00	43.668,42	33.627,65	55.320,08	56.407,36	55.585,00	-	-	244.608,51
BOL taartpuntzalen	FS	10.395,00	199,34	56,38	119,96	119,38	215,64	-	-	710,70
Beveiliging / M2	FS	5,50	21.352	14.996	53.286	11.065	28.811	4.832	7.894	2[illegible]494,20
Connectiviteit / m2	ICTS	18,81	21.352	14.996	53.286	11.065	28.811	4.832	7.894	[illegible]
Kosten vaste pakketten per eenheid in kl			24.043.361	11.092.233	31.158.674	13.184.538	27.077.835	2.246.346	7.297.872	173.160.327

173.160.327

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Cost allocation sheet

C7 =($C51*SUM(Kengetallen!$D14:$D15;Kengetallen!$D17;Kengetallen!$D25)+($C50*$C49*$C51*(Kengetallen!$D9+Kengetallen!D36))+($C53*Kengetallen!$D28)+Kengetallen!$D42)/'Tarieven OBP'!$N$2

✓ A lot of calculations

Kostentoerekening intern (bedragen in k€)

		Staf FNWI (obp)	Col.of.In.St.afd OBP	OW - Afdeling OBP	API - Afdeling OBP	HEF - Afdeling OBP	HIMS - Afdeling OBP	IBED - Afdeling OBP	IVI - Afdeling OBP	ILLC - Afdeling OBP	ITFA - Afdeling OBP	KDV - Afdeling OBP	SILS - Afdeling OBP	WZI - Afdeling OBP	FB - Afdeling OBP	ESC - Afdeling OBP	OBP taakeenheden: Niet gealloc.kosten	Technologie	Voorlicht.& comm	Educat. Service cent	Projectenbureau	CIS (personeel)	Co (perso
Kostentoerekening inzet OBP																							
Totalen kostenbegroting		1.828	1.407	741	674	0	1.743	1.412	1.379	264	0	172	3.532	650	7.445	3.844	6.086	205	135	8.469	11	1.196	
			Toeger.																				
Inzet OBP	Col.of.In.St.afd OBP		-1.415														0	0	0	0	0	0	
	OW - Afdeling OBP			-754													0	0	0	0	0	0	
	API - Afdeling OBP				-677												0	0	0	0	0	0	
	HEF - Afdeling OBP					0											0	0	0	0	0	0	
	HIMS - Afdeling OBP						-1.751										0	0	0	0	0	0	
	IBED - Afdeling OBP							-1.419									0	0	0	0	0	0	
	IVI - Afdeling OBP								-1.386								0	0	0	0	0	0	
	ILLC - Afdeling OBP									-265							0	0	0	0	0	0	
	ITFA - Afdeling OBP										0						0	0	0	0	0	0	
	KDV - Afdeling OBP											-169					0	0	0	0	0	0	
	SILS - Afdeling OBP												-3.548				0	0	0	0	0	0	
	WZI - Afdeling OBP													-653			0	0	0	0	0	0	
	FB - Afdeling OBP														-7.475		4.601	1.493	423	0	879	0	
	ESC - Afdeling OBP															-3.861	0	0	0	3.850	0	0	
Na toerek. OBP	Totaal	1.828	-8	-13	-3	0	-7	-7	-6	-1	0	4	-17	-3	-30	-17	10.687	1.698	558	12.318	890	1.196	
Toerekening kosten taakeenheden OBP																							
Toerekening kosten	Niet gealloc.kosten																-10.245					237	
	Technologie																	-1.756					
	Voorlicht.& comm																		0				
	Educat. Service cent																			-12.395			
	Projectenbureau																				-850		
Na toerek. taakeh. OBP		1.828	-8	-13	-3	0	-7	-7	-6	-1	0	4	-17	-3	-30	-17	442	-58	558	-77	40	1.433	
Toerekening kosten inzet WP																							
Inzet WP	CIS (personeel)																					-1.529	
	CoS (personeel)																						
	API (personeel)																						
	HEF (personeel)																						
	HIMS (personeel)																						
	IBED (personeel)																						
	IVI (personeel)																						
	ILLC (personeel)																						
	ITFA (personeel)																						
	KDV (personeel)																						
	SILS (personeel)																						
	WZI (personeel)																						
Kosten na toerekening WP		1.828	-8	-13	-3	0	-7	-7	-6	-1	0	4	-17	-3	-30	-17	442	-58	558	-77	40	-96	
Toerekening instituutsoverhead																							
Toerekening aan O&O																							
Integrale kosten Onderwijs en Onderzoek		1.828	-8	-13	-3	0	-7	-7	-6	-1	0	4	-17	-3	-30	-17	442	-58	558	-77	40	-96	

✓ > 20 sheets

Kengetallen | Begrotingsposten | Kostenbegroting | Kostentoerekening intern | Tarieven OBP | Tarieven WP | Batenverdeling | Afdelingsoverhead | Instituutsoverhead | Stuurparameters SAP | Staf & afdelingen grafisch | Ontwikkeling

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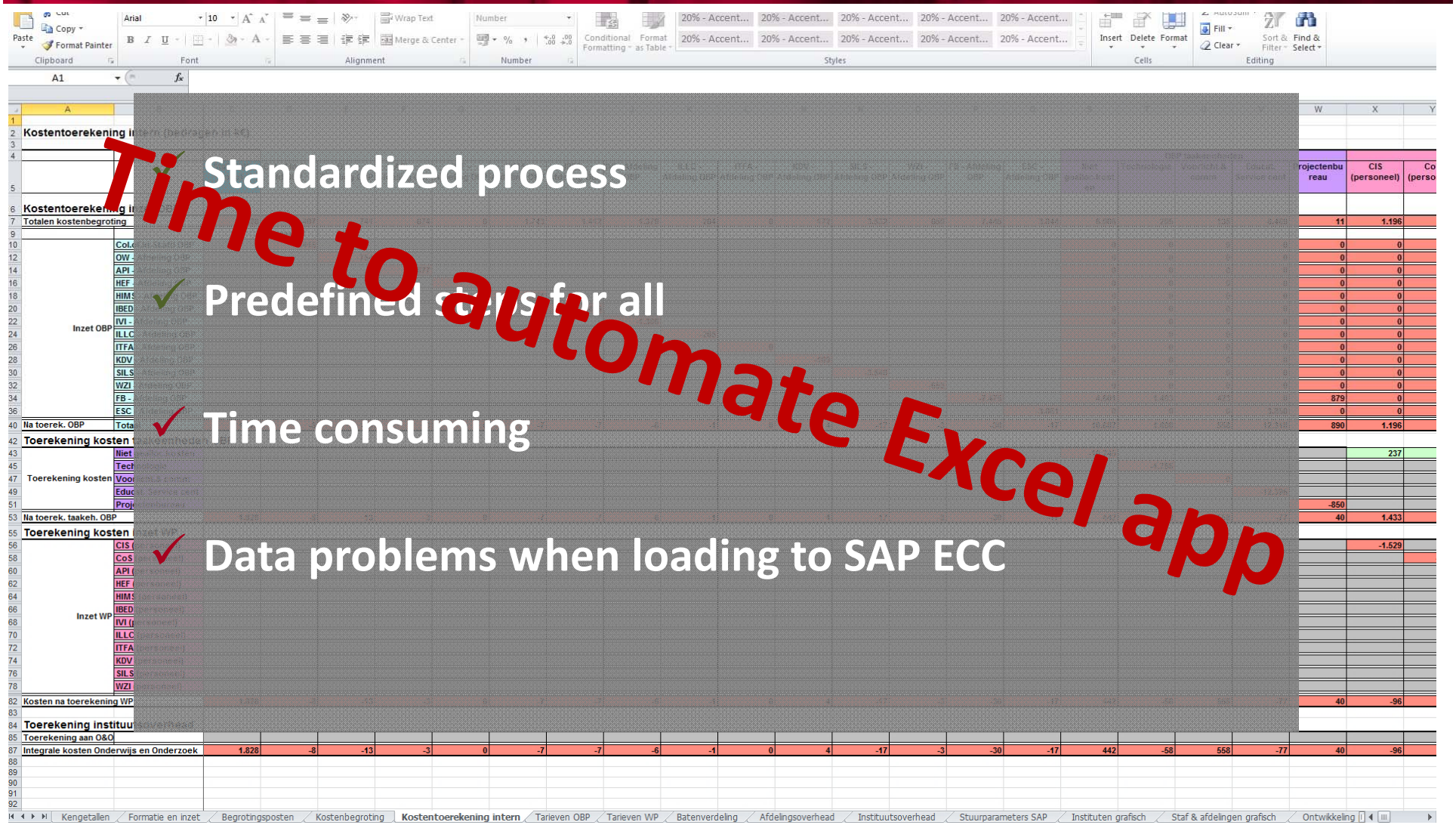
1 2 3 4 5

Cost allocation sheet



Time to automate Excel app

- ✓ Standardized process
- ✓ Predefined steps for all
- ✓ Time consuming
- ✓ Data problems when loading to SAP ECC

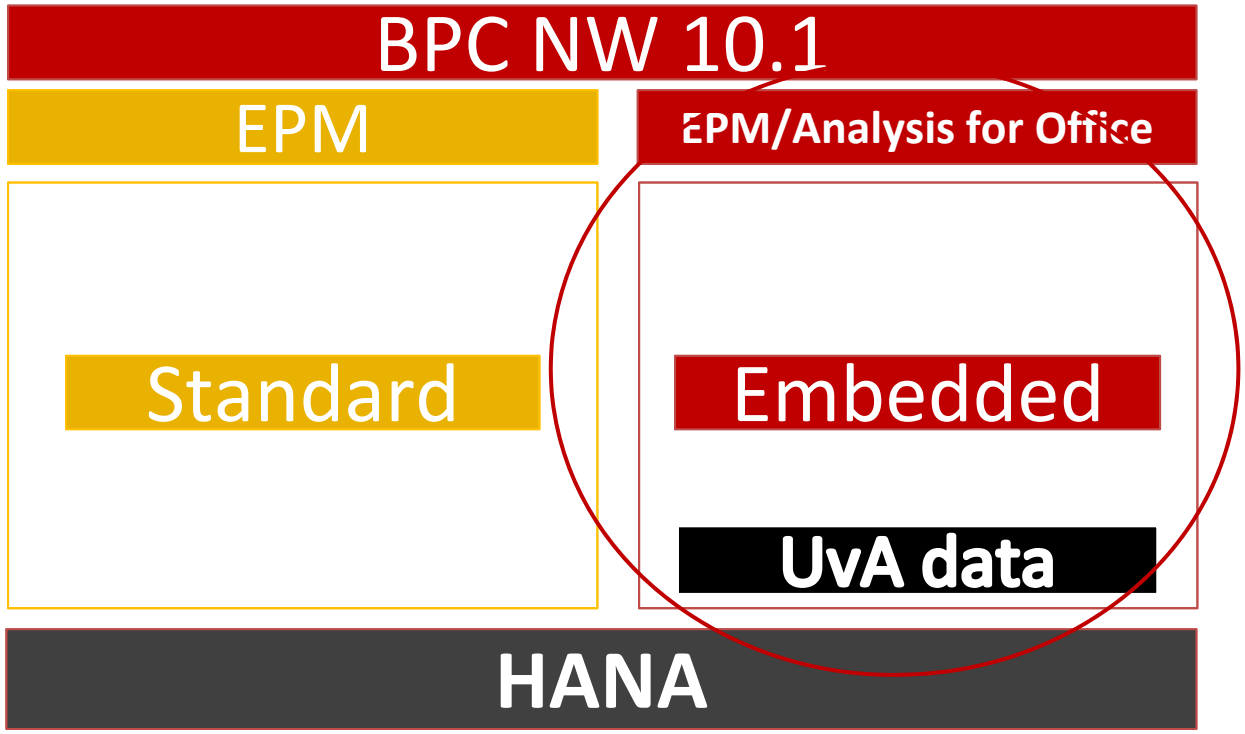
Objectives BPC

- ✓ Central input, authorization, validation and control of budget data
- ✓ Less time consuming
- ✓ Integration into existing BW system
- ✓ Management control - minimized compliance risk due to quality of data

SAP BPC

Options BPC

Standard or Embedded?



Options BPC

Standard or Embedded?

Standard

- ✓ Focus on consolidation
- ✓ In BW system, but own namespace (data model automatic generated)
- ✓ Master and transaction data loaded separately to BPC model
- ✓ EPM input- /report tooling
- ✓ Planning functionality with scripting logic

Embedded

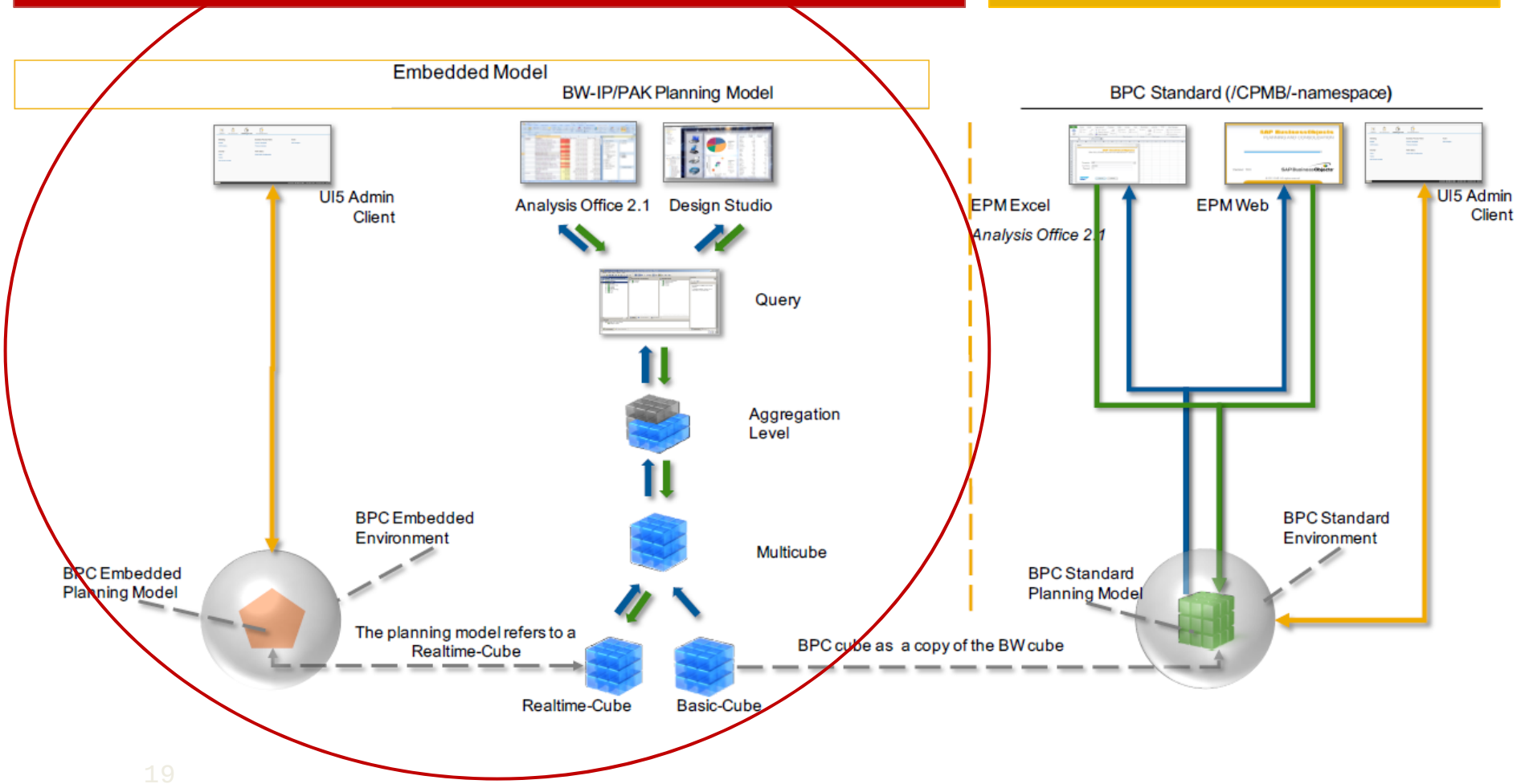
- ✓ Focus on planning (IP functionality)
- ✓ Part of BW (data model created in BW)
- ✓ Reuse BW master and transaction data
- ✓ EPM, Analysis for office and Design studio as input - / report tooling
- ✓ No consolidation at start of project (from BW 7.4 SP13)

Options BPC

1 2 3 4

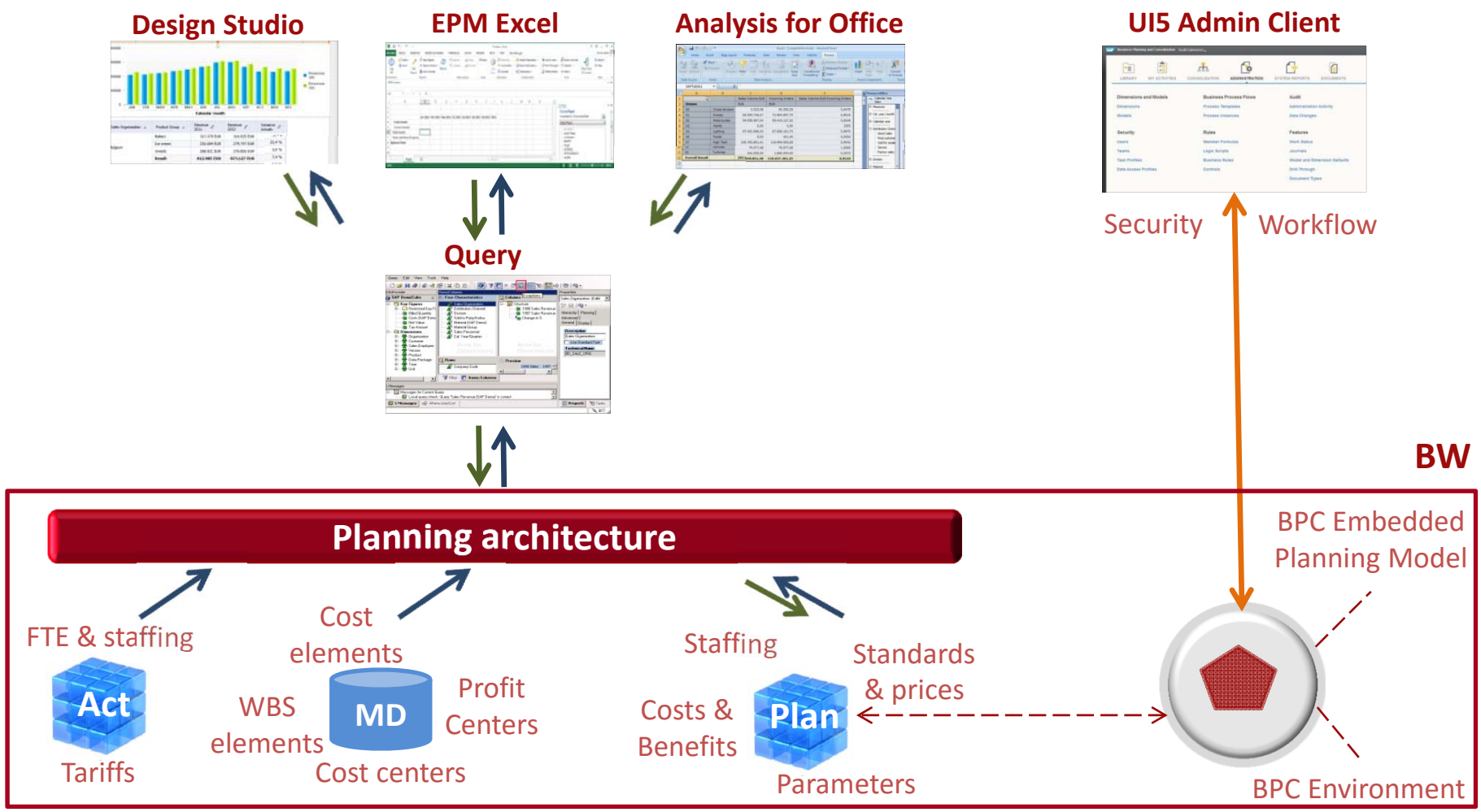
Data model

Embedded | Standard



Options BPC

UvA data model



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Options BPC

1 2 3 4 5

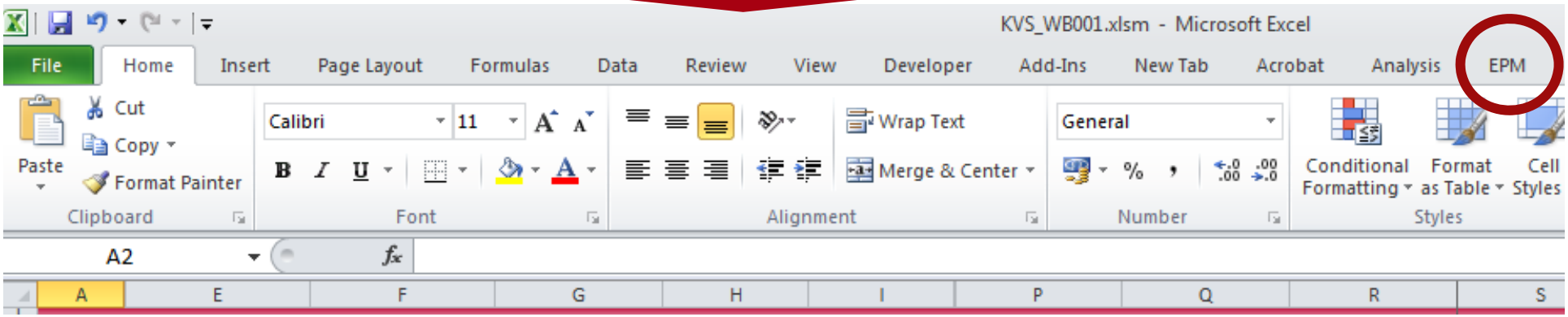
Front end tool

2014 Q4

Proven to work with standard BPC

Financial functions

Combining queries



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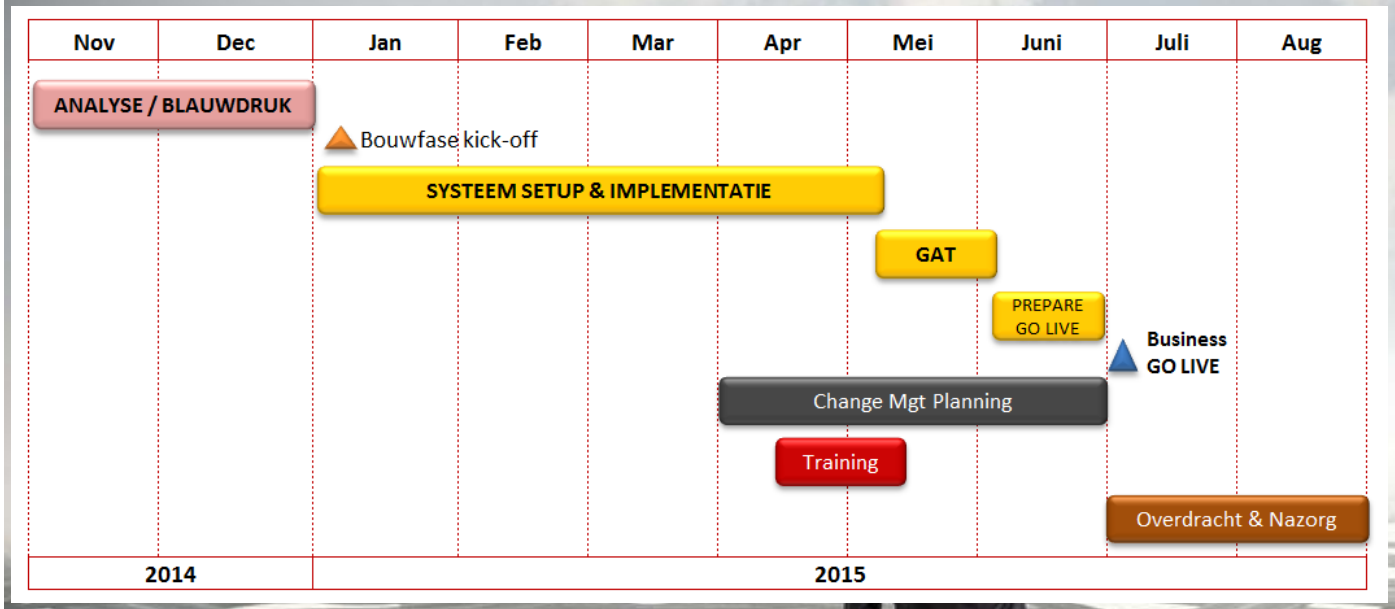
Challenges

1 2 3 4 5

Initial planning



- ✓ Postponed – Go/NoGo decision
- ✓ Functional issues
- ✓ Mainly technical issues

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Challenges

1 2 3 4 5

Functional issues

KVS 2015 2300 FNWI v10.0 [Read-Only] - Microsoft Excel

C7 =($C51*SUM(Kengetallen!$D14:$D15;Kengetallen!$D17;Kengetallen!$D25)+($C50*$C49*$C51*(Kengetallen!$D9+Kengetallen!D36))+($C53*Kengetallen!$D28)+Kengetallen!$D42)/'Tarieven OBP'!$N$2

✓ **Added business logic**

Kostentoerekening intern (bedragen in k€)

		Staf FNWI (obp)	Col.of.In.St.afd OBP	OW - Afdeling OBP	API - Afdeling OBP	HEF - Afdeling OBP	HIMS - Afdeling OBP	IBED - Afdeling OBP	IVI - Afdeling OBP	ILLC - Afdeling OBP	ITFA - Afdeling OBP	KDV - Afdeling OBP	SILS - Afdeling OBP	WZI - Afdeling OBP	FB - Afdeling OBP	ESC - Afdeling OBP	OBP taakeenheden: Niet gealloc.kosten	Technologie	Voorlicht.& comm	Educat. Service cent	Projectenbureau	CIS (personeel)	Co (perso
Kostentoerekening inzet OBP																							
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			Toeger.																				
Inzet OBP	Col.of.In.St.afd OBP		-1.415														0	0	0	0	0	0	
	OW - Afdeling OBP			-754													0	0	0	0	0	0	
	API - Afdeling OBP				-677												0	0	0	0	0	0	
	HEF - Afdeling OBP					0											0	0	0	0	0	0	
	HIMS - Afdeling OBP						-1.751										0	0	0	0	0	0	
	IBED - Afdeling OBP							-1.419									0	0	0	0	0	0	
	IVI - Afdeling OBP								-1.386								0	0	0	0	0	0	
	ILLC - Afdeling OBP									-265							0	0	0	0	0	0	
	ITFA - Afdeling OBP										0						0	0	0	0	0	0	
	KDV - Afdeling OBP											-169					0	0	0	0	0	0	
	SILS - Afdeling OBP												-3.548				0	0	0	0	0	0	
	WZI - Afdeling OBP													-653			0	0	0	0	0	0	
	FB - Afdeling OBP														-7.475		4.601	1.493	423	0	879	0	
	ESC - Afdeling OBP															-3.861	0	0	0	3.850	0	0	
Na toerek. OBP	Totaal	1.828	-8	-13	-3	0	-7	-7	-6	-1	0	4	-17	-3	-30	-17	10.687	1.698	558	12.318	890	1.196	
Toerekening kosten taakeenheden OBP																							
Toerekening kosten	Niet gealloc.kosten																-10.245					237	
	Technologie																	-1.756					
	Voorlicht.& comm																		0				
	Educat. Service cent																			-12.395			
	Projectenbureau																				-850		
Na toerek. taakeh. OBP		1.828	-8	-13	-3	0	-7	-7	-6	-1	0	4	-17	-3	-30	-17	442	-58	558	-77	40	1.433	
Toerekening kosten inzet WP																							
	CIS (personeel)																					-1.529	
	CoS (personeel)																						
				-13	-3	0	-7	-7	-6	-1	0	4	-17	-3	-30	-17	442	-58	558	-77	40	-96	
				-13	-3	0	-7	-7	-6	-1	0	4	-17	-3	-30	-17	442	-58	558	-77	40	-96	

Unhide

Unhide sheet:

- Posten SAP
- Tarieven OBPv
- Tarieven WPv
- Instituutsoverheadv
- Recapitulatie B&L instituten
- Recapitulatie B&L afdelingen
- Tarieven OBP II

OK Cancel

✓ **Hidden sheets**

✓ **Sheets differ per faculty**

Kengetallen | Formatie en inzet | Begrotingsposten | Kostenbegroting | Kostentoerekening intern | Tarieven OBP | Tarieven WP | Batenverdeling | Afdelingsoverhead | Instituutsoverhead | Stuurparameters SAP | Instituten grafisch | Staf & afdelingen grafisch | Ontwikkeling

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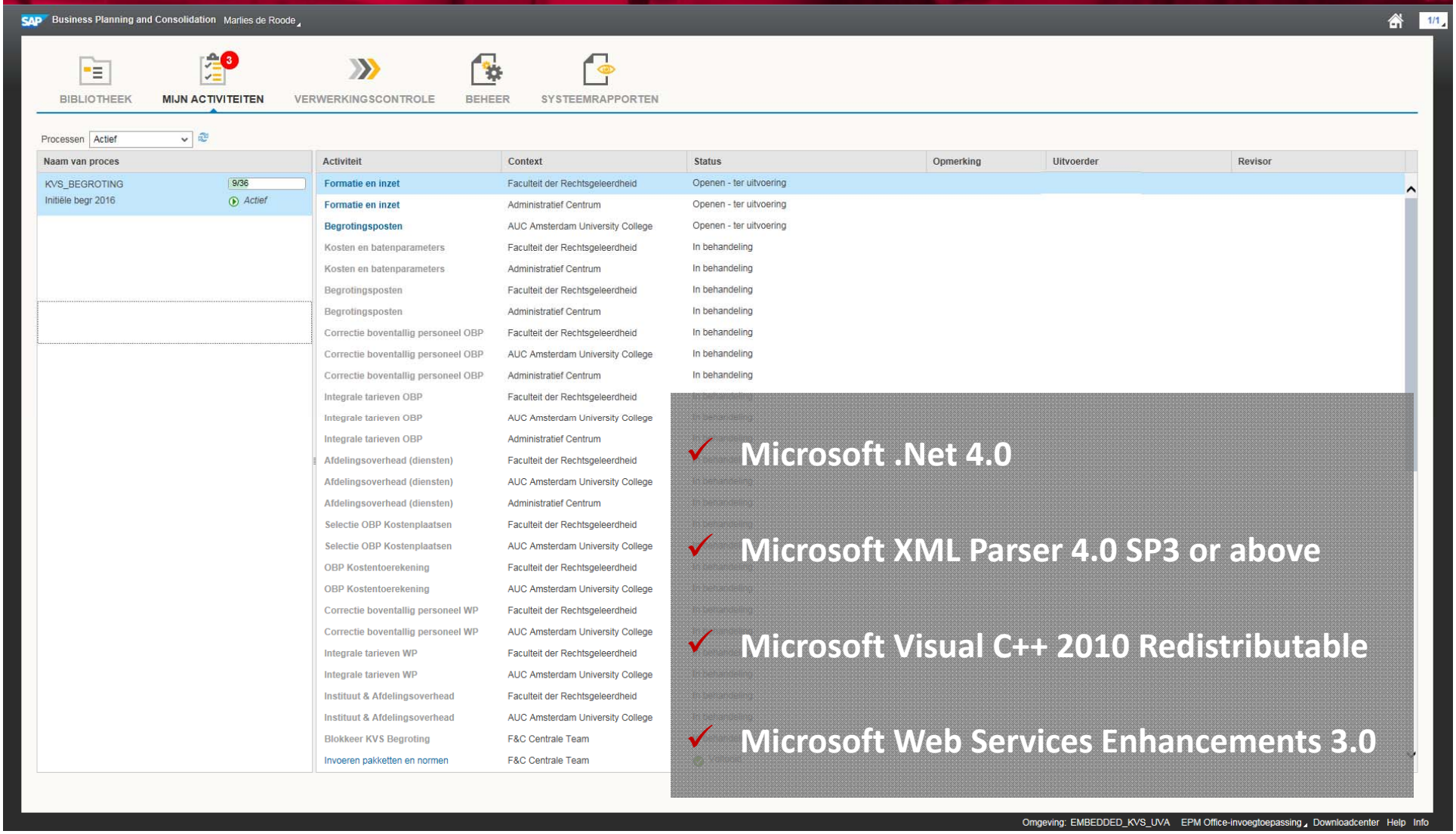
Challenges

1 2 3 4 5

Software requirements

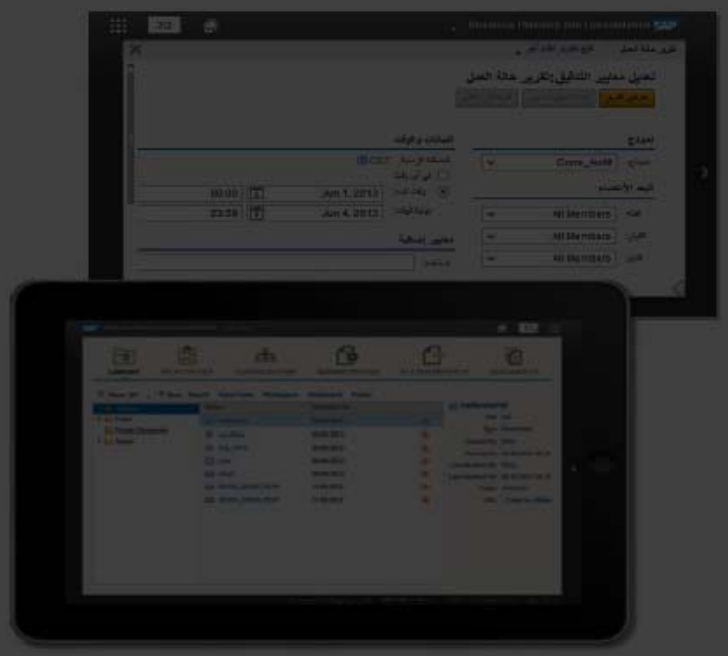


- ✓ Microsoft .Net 4.0
- ✓ Microsoft XML Parser 4.0 SP3 or above
- ✓ Microsoft Visual C++ 2010 Redistributable
- ✓ Microsoft Web Services Enhancements 3.0

Challenges

BW version – 7.4 SP8

Planning - SAP Business Planning and Consolidation 10.1, version for SAP NetWeaver powered by SAP HANA



Enhanced analysis and planning capabilities

- Leverages BW Integrated Planning models and benefits from SAP HANA acceleration
- Adds new capabilities to existing BW-IP features e. g. business process flows, work status . . .
- Optimized planning functions leveraging SAP HANA for better, more timely decisions

Increased usability

- New HTML5 UI for easier navigation and cross-platform readiness

Selected features available with SAP BW 7.40 SP8

- Master data planning, e.g. entering new values

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Challenges

1 2 3 4 5

BW version – Upgrade SP10

SAP BW powered by SAP HANA

Planned Product Roadmap Overview – Key Themes and Capabilities

SAP BW 7.4 SP9/SP10 on SAP HANA

Push down of data intensive functions to HANA
- Analytic Manager, Warehouse management processes and Planning Semantics

Simplified data modeling
- Open ODS View flexible integrating external data
- CompositeProvider consolidating existing InfoProviders
- Common Eclipse based modeling tools
- Advanced DSO to consolidate DSOs and InfoCube

BIG Data scenarios
- HANA dynamic tiering for Petabyte-scale storage
- NLS Storage enhancements

SAP HANA Enterprise Cloud
- Best practice for large scale BW migrations into the cloud

Exposing BW data models for SQL consumption
- Generation of HANA models from BW InfoProviders and simple BEx queries

"BPC Embedded Model"
- Integrating capabilities of BW IP, BPC and HANA

Mobile devices
- Easy mobile consumption using ODATA standard
- SAPUI5 based Process Chain Monitor

Today
(Release SAP BW 7.4 SP9/SP10)

Upcoming planned release

Integration with the HANA Platform
- Leverage HANA Information Management capabilities for BW
- Further pushdown of data intensive functions to HANA

Simplified and Streamlined User Experience
- Eclipse based Modeling for Data Flows
- SAPUI5 based Monitoring and Administration Tools

BIG Data scenarios
- NLS: Exceptional inserts, updates and deletes
- HANA dynamic tiering for Advanced DSO.
- Further HADOOP/BIG Data integration

SAP HANA Data Warehousing Foundation
- Data distribution optimizer
- Data lifecycle management

SAP HANA Enterprise Cloud
- NLS as a Service in the HEC

BPC Embedded Model
- Local planning scenarios with BW Work-spaces and BPC Embedded Model

Planned Innovations
(Release SAP BW 7.5)

Future innovations

BW run simple mode
- Advanced DSO and New CompositeProvider as central modeling objects
- No 3.x dataflows, no InfoCubes, no DSOs
- Simplified governance
- All data loads based on optimized Request handling
- All modeling tools based on Eclipse
- All administration tools based on SAPUI5
- BW on HANA-optimized Business Content

Enhanced tool support to enable the pass to the HANA optimized BW objects

Future Direction
(SAP will continue to support RDBMS platforms)

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Challenges

1 2 3 4 5

EPM integration with IP

SAP Note

2148240 - BWINA - List of BW notes required

Version 11 Validity: 16.11.2015 - active

Symptom

If necessary backend notes are not applied, EPM add-in wi

Other Terms

Information below will evolve over time and notes may be a

Solution

To use EPM add-in SP24 (and subsequent patches), you n
You can also install notes to get to SAP Business Warehou

Notes from SP10

Note Number	Short Text
1733726	Performance optimization in WAN s
2054149	Wrong data after delta read on com
2067648	INA: New value help: Display_Key m
2067744	INA: New input help (F4); more robu
2067800	[PAK]Failed to get members
2069393	BW-IP (PAK): Error in PAK after savir
2072529	InA: BPC-PAK Inactive Message caus
2074556	Revision 84 Enhancements for Plann
2075103	InA: SP10 Multiple Corrections
2075236	INA: New input help (F4) corrections
2080327	InA: new Value Help - Hierarchy not
2080708	ABAP BICS: Get_Hierarchy for time-
2081784	BICS: Characteristic selection with in
2082849	InA: Wrong ParentIndex in case of b
2083442	INA: Filtering input-ready queries ag
2084126	BICS: IF_BICS_MD_QV~GET_MD_QV
2084152	InA: Wromg request assignment in r
2084656	InA: Enhance Capabilities of Planning
2085932	InA: Downport RSBITT and BICS InA
2090548	INA: IsKey for attributes
2091117	BW-IP: In-memory planning - hierar taken into
2091679	InA: Locked message missing after s
2092250	INA: newF4 dump GETWA_NOT_ASS
2092275	INA: Child elements of unassigned n
2094538	BICS: struc.member change after su
2096506	Corrections for hierarchies
2096510	INA: Exception cx_bics_ina_executic hierarchy
2100049	Dump "S_CHECK_MIN_REVISIO
2100759	ABAP BICS: 7.40 SP10 Checkman
2103833	ABAP BICS: 7.40 SP10 Corrections
2104888	Structure hierarchy causes internal s
2106819	BW query of planning provider does
2107740	Plan Data Query not buffered
2147059	Unposted values for fiscal year/peri

SAP Note

2148240 - BWINA - List of BW n

Version 11 Validity: 16.11.2015 - active

Notes from SP11

Note Number	Short Text
1733726	Performance op
2106747	InA: Introduce s
2106819	BW query of pla
2107060	RSBOLAP: Corre
2107158	RSBOLAP: Excha
2107740	Plan Data Query
2107934	RSBOLAP: Excha
2115138	INA: Attributes
2117466	ABAP BICS: Part
2117561	ABAP BICS: Addi
2118209	INA: New input
2120176	INA: New input
2120177	BICS: Hierarchy
2122190	INA: New input
2122228	Missing flag for
2122229	Wrong number
2122515	InA: Send not au
2124586	InA: Hierarchy N
2124767	BICS Hierarchica
2125546	INA: New input
2126957	INA: New value
2127554	INA: variable val
2128084	InA: runtime err
2129704	INA: No univers
2129957	INA: Input help
2130215	Disaggregation
2131962	BICS InA RSBITT
2132783	InA: filter contai
2137122	RSBOLAP: Empt
2139344	F4 for a hierarch
2147059	Unposted value
2074801	Dumps and Issu
2155415	Selektion der St
2142682	ABAP BICS: wro

SAP Note

2148240 - BWINA - List of BW notes requi

Version 11 Validity: 16.11.2015 - active

Notes from SP12

Note Number	Short Text
2150661	RSBOLAP: Navigation attributes wi
2156159	BICS: Additional selection - supplier
2155824	INA: New value help - here: clear fil
2150669	INA: Token DimensionReference is
2151318	INA: New input help for variables te attrib
2154709	INA: Dim F4 - characteristic values the wrong
2146591	Correction for note 1926915
2143269	ABAP BICS: planning starting mode
2147814	ABAP BICS: runtime exception crea
2148024	ABAP BICS: Additional correction to
2143695	InA: missing presentations of attribu
2145559	InA: wrong assignment of Value He
2157840	ABAP BICS: Get Data Area
2145167	RSBOLAP: Hierarchy Initial Drill Do
2150773	RSBOLAP: Initial Drill Down Level s
2151533	RSBOLAP: Get Olap KHANDLE for
2153270	Setup Selection Object with differen
2163924	INA: new value help for variables &
2170696	InA: Corrections for SP12, and exte
2084126	BICS: IF_BICS_MD_QV~GET_MD_
2188817	INA: neue Wertehilfe - Hierarchy- u
2183309	INA: Inconsistent metadata from qu
2179644	INA: query metadata - default key A
2178025	INA: Neue Wertehilfe - fehlender La
2172784	INA: neuen Wertehilfe - Variablen n
2106747	InA: Introduce string data type for H

Notes from SP13

Note Number	Short Text
2190555	Syntax error in CL_BICS_INA_RSTT_S
2190341	Static filter with hierarchies: Hierarchy n
2187023	DDIC Objects for note 2085932
2186415	DDIC Elemente for note 2185030
2185030	Downport RSBITT/RSTT functionality
2187022	Changing the order of selections in a dy
2183258	CL_BICS_INA_RS_SERVICE generate
2179795	External key displayed instead of short
2178363	F4 Help: multiple values shown for hiera
2178187	F4 Help: missing default sorting for flat
2172132	Clearing an existing selection in BICS d
2167222	Extended sorting over InA - part 2
2195952	EPM Query Selection search does not
2193698	InA: result set not always sorted correct
2200309	INA: Improved error handling for input h
2200187	INA: New input help with filter for hierar
2199923	INA: New hierarchical input help with filt
2201927	INA: Variablenwerte in der Response

SAP Note

2148240 - BWINA - List of BW notes required for EPM Addin

Version 11 Validity: 16.11.2015 - active

Notes from SP14

Note Number	Short Text	Manual Activity
2209189	NA: VariableSubmit mit Dump NotAssigned	
2207689	NA: SupportsDimensionFilterCapability für Dimensions	
2209189	INA: VariableSubmit with dump NotAssigned	
2212406	INA: New input help with paging	
2221897	INA: Missing value for text variable in response of variable submit	
2230341	INA: New input help for compound variables with filter	
2233486	INA: Variables sequence incorrect	
2236214	INA: Dimension input help with filter for compound characteristics	
2240130	INA: capability DimF4SelectionWithCompoundment	
2219317	Member selector: paging delivers incorrect results	
2223782	Follow up to note 2219317	
2084108	It is not possible to execute BEX Queries	
2218097	Flat selection treated as node selection in case of variables	
2238144	Query catalog service: paging not supported	
2241212	Query catalog service: paging not working correctly on default queries	
2241357	Resultset subset functions not working in data read scenarios in BW 740	
2213166	InA: value help - downport of CL_RSBOLAP_HIERARCHY_BASE~GET_CHILDREN( )	
2223134	Info Provider does not exist in composite provider	
2214724	BICS: changing the axis ordering of characterics in a query is not kept in book	
2213166	InA: value help - downport of CL_RSBOLAP_HIERARCHY_BASE~GET_CHILDREN( )	
2223134	Info Provider does not exist in composite provider	
2214724	BICS: changing the axis ordering of characterics in a query is not kept in book	
2185160	ABAP BICS: InA does not handle 0DAT variable correctly	
2224801	get_characteristic_value() w/o Masterdata Selector bound	
2232114	get_md_characteristic_info() w/o MD Selector bound	
2237970	Correct Reset of variable dependencies	

Others :

Note Number	Short Text	Manual Activity
2084108	It is not possible to execute BEX Queries	X
2074801	Dumps and Issues with special InfoObjects	X
2194279	Prüfreport für technische Merkmale und Zeitmerkmale	X

Header Data

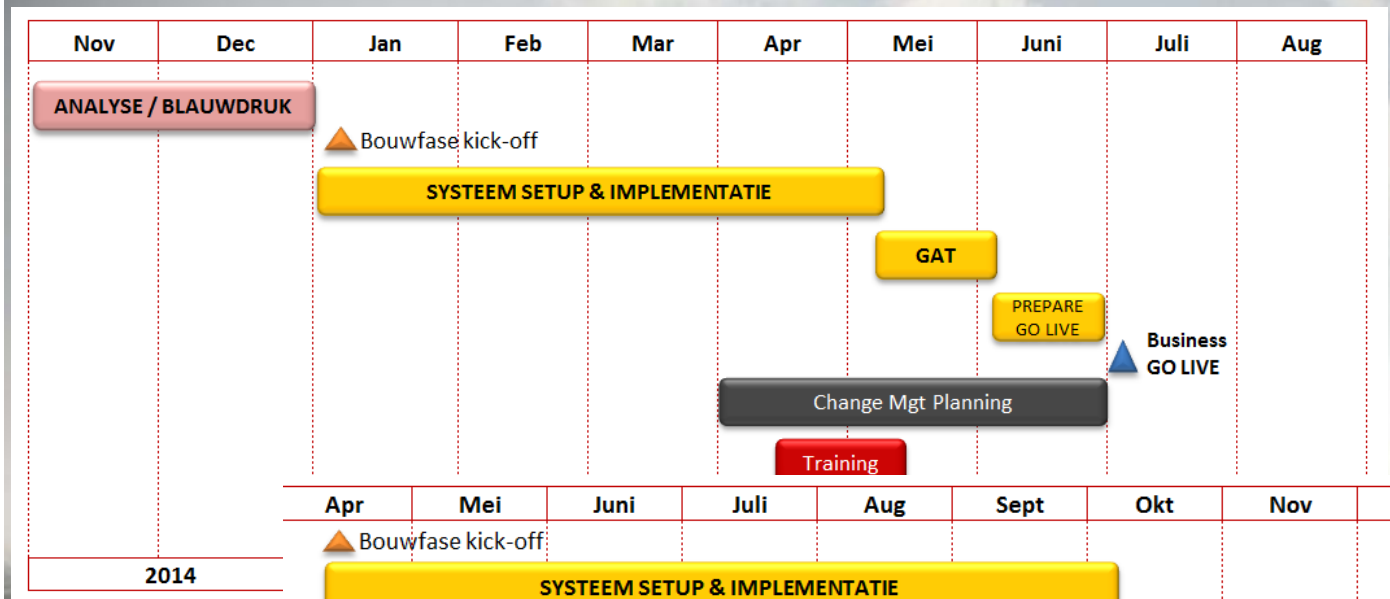
Released On	16.11.2015 15:57:57
Release Status	Released for Customer
Component	EPM-XLS EPM Excel Client
Other Components	EPM-BPC-NW NetWeaver Version
Priority	Hot News
Category	Upgrade Information

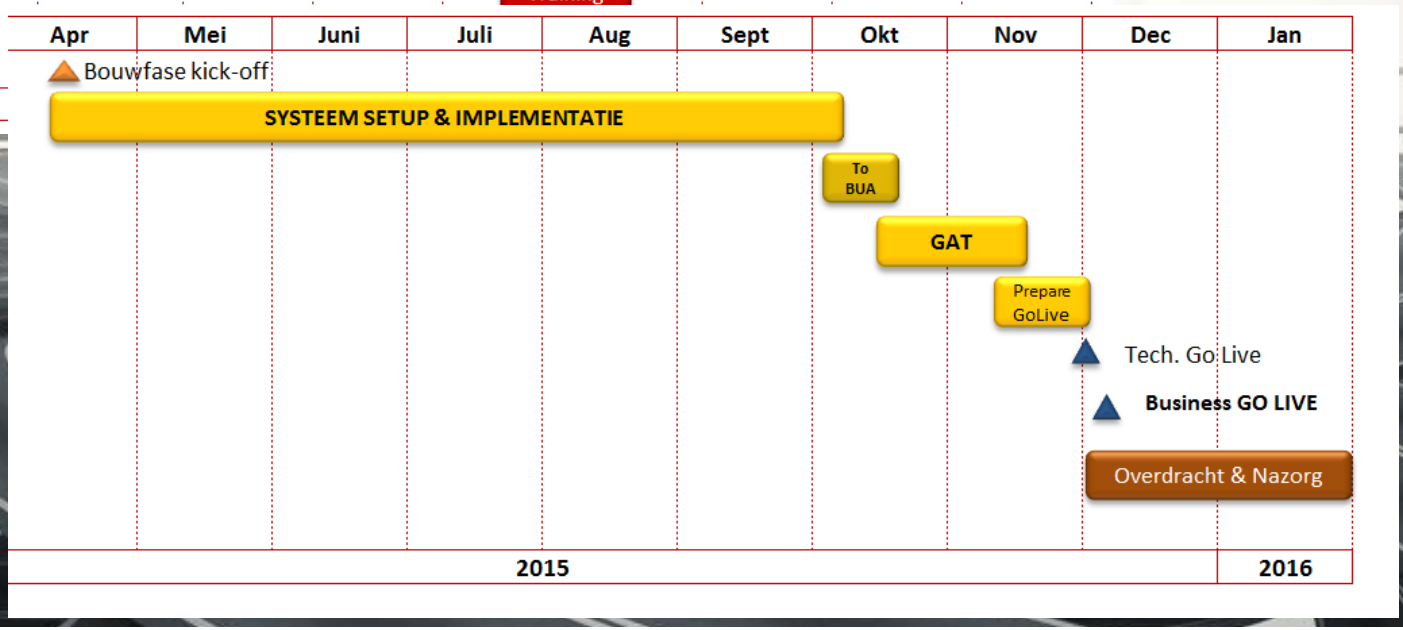
Validity

Software Component	From Rel.	To Rel.	And Subsequent

Challenges

Initial versus actual planning

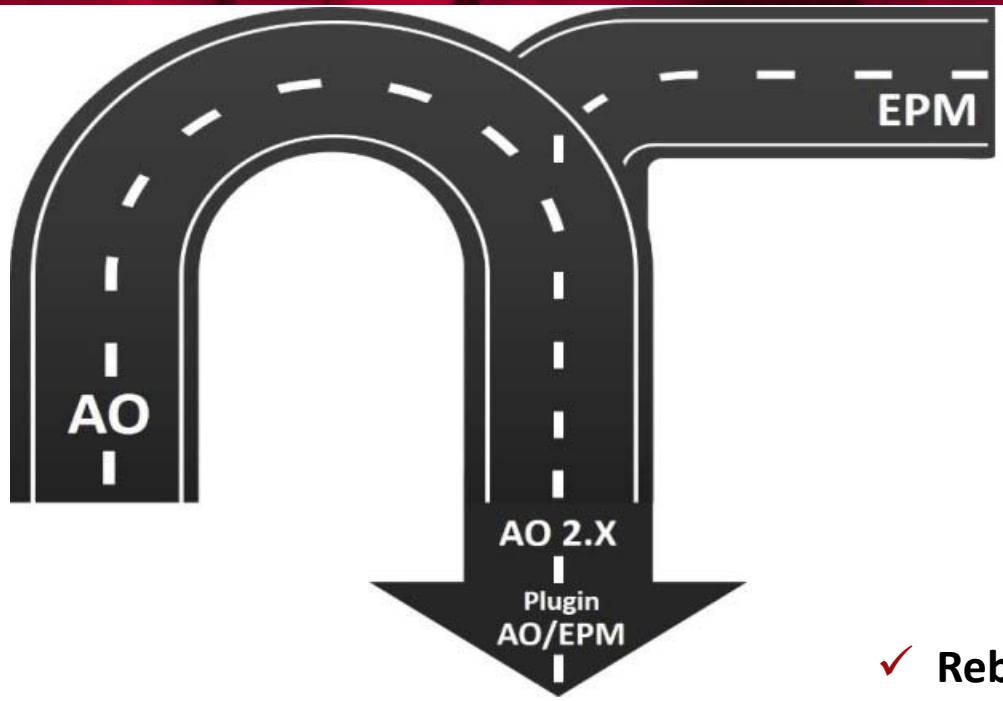




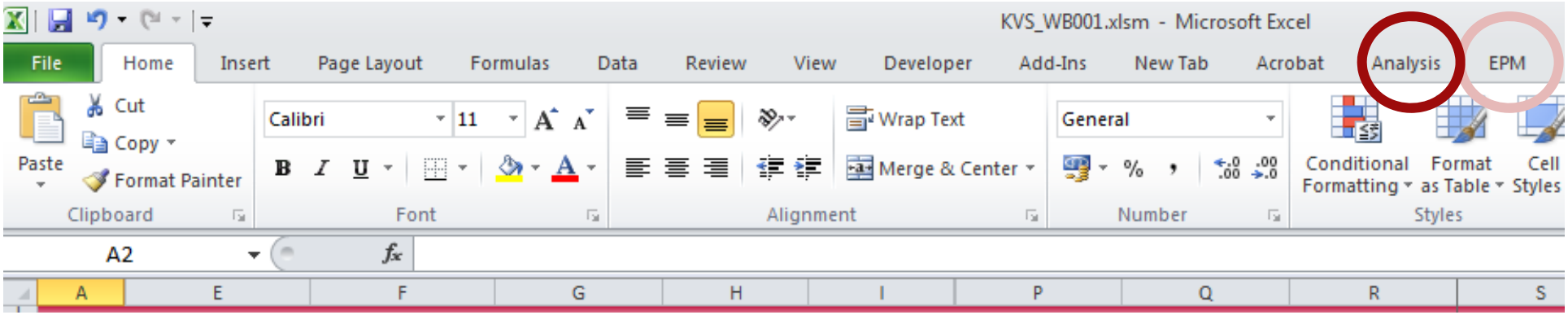
Challenges

EPM or Analysis for Office?

2015 Q3

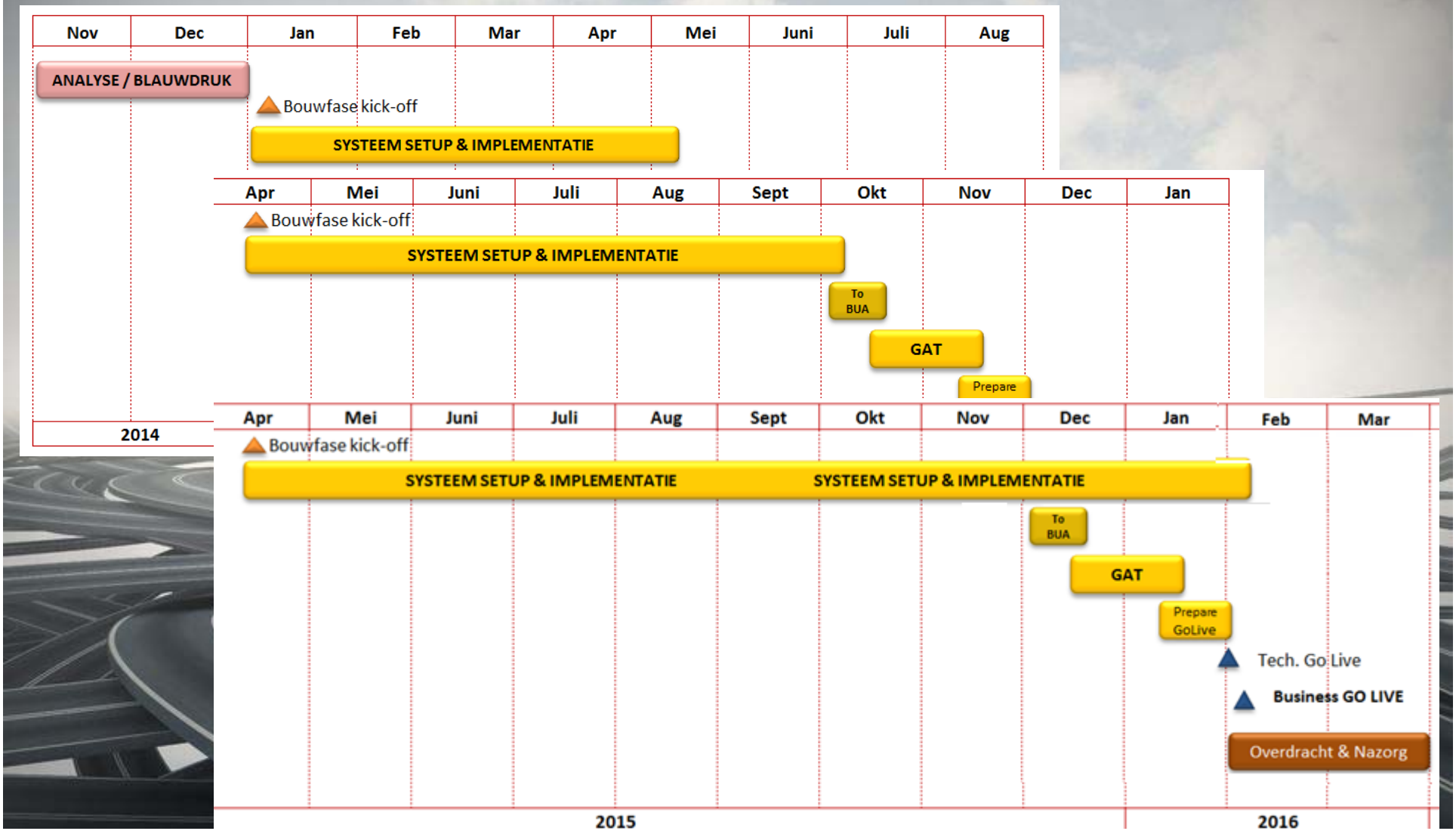


✓ **Rebuilding all workbooks**



Challenges

Initial versus actual planning



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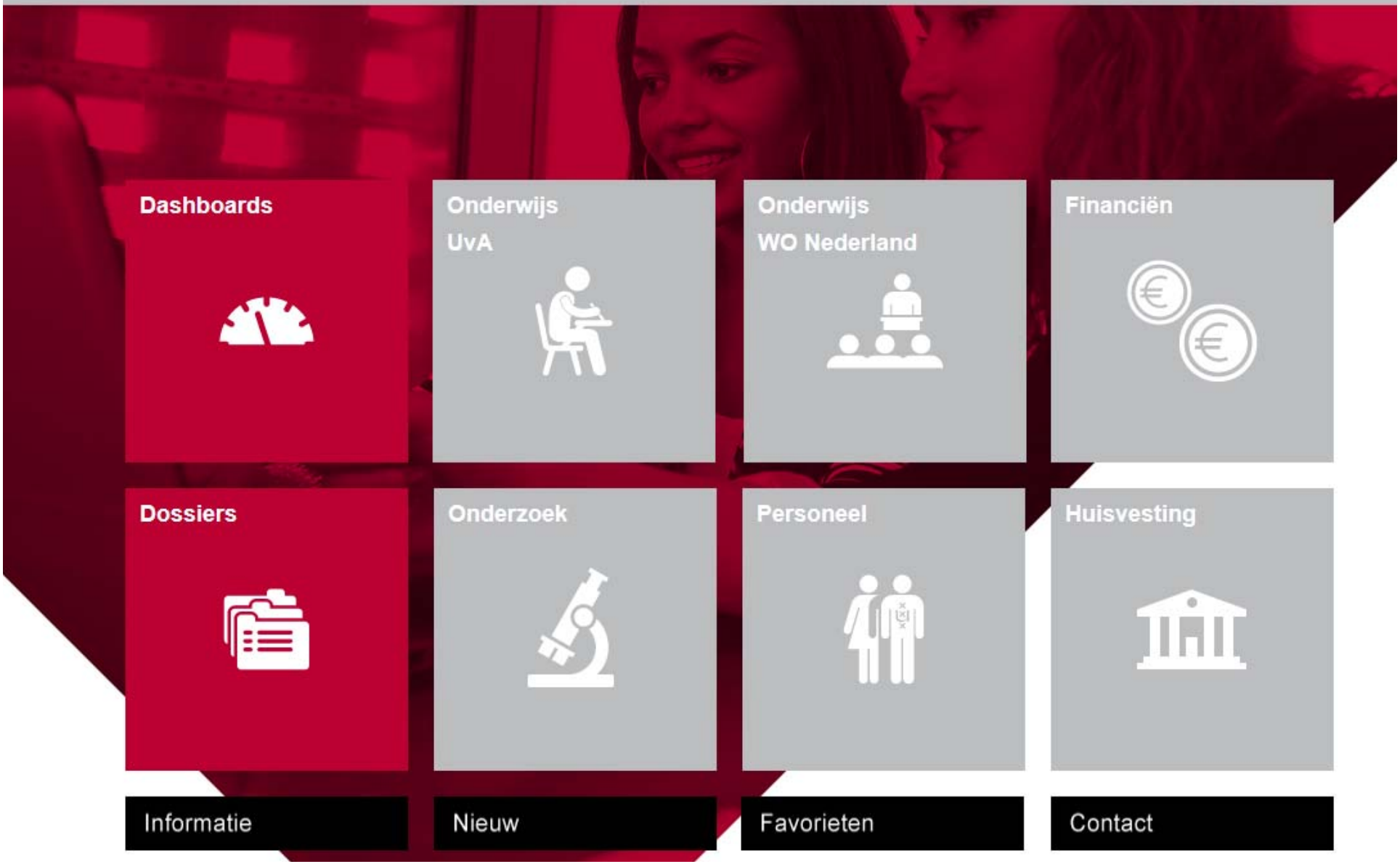
UvAdata
MANAGEMENTINFORMATIE ONLINE

1 2 3 4 5

Results



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UvAdata
MANAGEMENTINFORMATIE ONLINE

1 2 3 4 5

Results

Dossiers

Interne bekostiging

Externe bekostiging

Begroting
- Kostenverdeelstaat

Extra rapporten

Control

Project controle

Externe verslaggeving

Studierendement en -uitval

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1 2 3 4 5

Results

SAP Business Planning and Consolidation Marlies de Roode 1/1

BIBLIOTHEEK | MIJN ACTIVITEITEN (3) | VERWERKINGSCONTROLE | BEHEER | SYSTEEMRAPPORTEN

✓ Tabs depending on authorisation

Processen: Actief

✓ Workflow process per team

Naam van proces	
KVS_BEGROTING	9/36
Initiële begr 2016	Actief

Activiteit	Context	Status	Opmerking	Uitvoerder	Revisor
Formatie en inzet	Faculteit der Rechtsgeleerdheid	Voltooien		FRG	
Begrotingsposten	Faculteit der Rechtsgeleerdheid	In behandeling		FRG	
Correctie boventallig personeel OBP	Faculteit der Rechtsgeleerdheid	In behandeling		FRG	
Integrale tarieven OBP	Faculteit der Rechtsgeleerdheid	In behandeling		FRG	
Afdelingsoverhead (diensten)	Faculteit der Rechtsgeleerdheid	In behandeling		FRG	
Selectie OBP Kostenplaatsen	Faculteit der Rechtsgeleerdheid	In behandeling		FRG	
OBP Kostentoerekening	Faculteit der Rechtsgeleerdheid	In behandeling		FRG	
Correctie boventallig personeel WP	Faculteit der Rechtsgeleerdheid	In behandeling		FRG	
Integrale tarieven WP	Faculteit der Rechtsgeleerdheid	In behandeling		FRG	
Instituut & Afdelingsoverhead	Faculteit der Rechtsgeleerdheid	In behandeling		FRG	

✓ > 20 sheets -> 3 - 9 workbooks

✓ Central team, central tasks

Invoeren pakketten en normen	F&C Centrale Team	Voltooid	KVS_FC
Upload Kosten & Batenparameters	F&C Centrale Team	Voltooid	KVS_FC
Aantallen per pakket	F&C Centrale Team	Voltooid	KVS_FC
Upload budgetten	F&C Centrale Team	Voltooid	KVS_FC
Budgetten	F&C Centrale Team	Voltooid	KVS_FC
Upload variabele pakketten	F&C Centrale Team	Voltooid	KVS_FC
Controleer normtarieven	F&C Centrale Team	Voltooid	KVS_FC

Omgeving: EMBEDDED_KVS_UVA EPM Office-invoegtoepassing Downloadcenter Help Info

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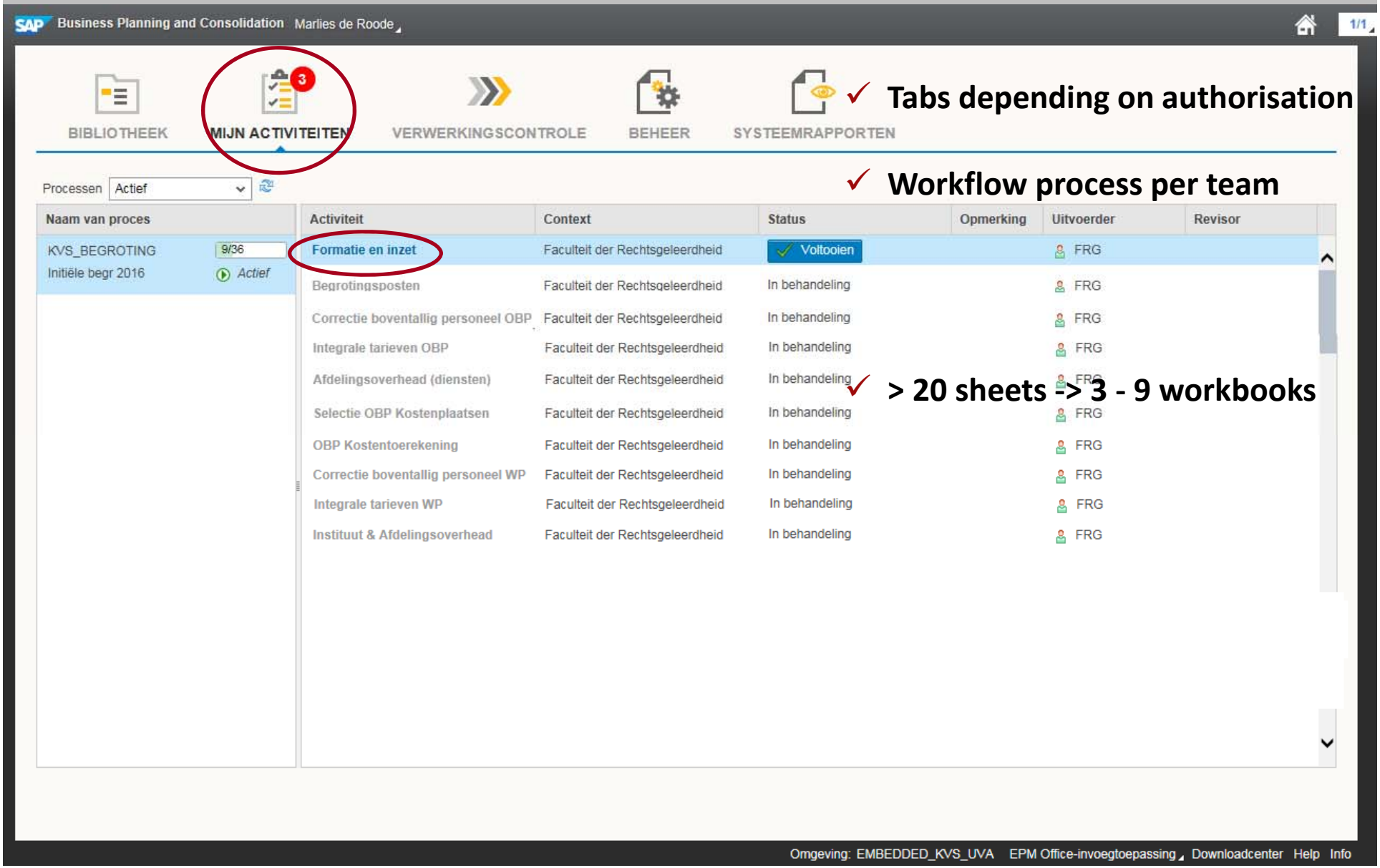
1 2 3 4 5

Results



✓ **Tabs depending on authorisation**

✓ **Workflow process per team**

✓ **> 20 sheets -> 3 - 9 workbooks**

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1 2 3 4 5

Results

KV_2_WB001.xlsm - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Developer Add-Ins New Tab Acrobat Analysis EPM

Insert Data Source | Refresh All | Create | Reload | Add | Undo | Redo | Messages | Prompts | Filter | Sort | Hierarchy | Calculations | Members | Measures | Totals | Conditional Formatting | New Cells | Format Cells | Crosstab | Styles | Chart | Info Field | Filter | Convert to Formula | Create Web Application | Launch Query Designer | Smart Copy | Smart Paste | Save View | Save Data | Recalculate | Lock Cells | Work Status | Display | Change | Back | Display | Pause Refresh

Data Source | Actions | Data Analysis | Display | Format | Insert | Tools | Planning | Design Panel

A2

UVA Formatie & Inzet feb 2016 | Kopieer Formatie | Kopieer Inzet | Kostenplaats | Toevoegen KPL

Scenario: Initiële begr. 2016 , Planjaar: 2016, AUC

Opslaan data | Kopieer meerjaren | WBS-element | Toevoegen WBS

Stamkostenplaats | Toevoegen stam KPL

					Ontv. Organisatorische eenheid	2911								
						AUC								
				Kostenplaats		29111	29112	29113	#					
						Bedrijfsbur./algem.	Management	Wetensch. personeel	WBS elementen					
				WBS Element		#	#	#	R.2911.0001.01	R.2911.0002.01	R.2911.0003.01	R.2911.0004.01	R.2911.0009.02	R.2911.0010	R.2911.0015.02
Stamkostenplaats		Schaal	FTE	Nog te verdelen		Kostenplaatsen	Kostenplaatsen	Kostenplaatsen	ACC teaching costs	HUM teaching costs	SCI teaching costs	SSC teaching costs	Research allocation	Onderwijs supervisie/c	Institutional Research
29111	Bedrijfsbur./algem.	2											0,0		0,0
29111	Bedrijfsbur./algem.	3													
29111	Bedrijfsbur./algem.	4													
29111	Bedrijfsbur./algem.	5	0,0	0,0	0,0										
29111	Bedrijfsbur./algem.	6	2,0	2,0	2,0										
29111	Bedrijfsbur./algem.	7	0,0	0,0	0,0			0,0							
29111	Bedrijfsbur./algem.	8	6,0	6,0	6,0			0,0	0,0						
29111	Bedrijfsbur./algem.	9	0,0	0,0	0,0										
29111	Bedrijfsbur./algem.	10	1,6	1,6	1,6										
29111	Bedrijfsbur./algem.	11													
29111	Bedrijfsbur./algem.	12													
29111	Bedrijfsbur./algem.	13													
29111	Bedrijfsbur./algem.	14	0,8	0,8	0,8	0,0									
29111	Bedrijfsbur./algem.	15													
29111	Bedrijfsbur./algem.	16													
29111	Bedrijfsbur./algem.	17													
29111	Bedrijfsbur./algem.	18													
29111	Bedrijfsbur./algem.	HL1													
29111	Bedrijfsbur./algem.	HL2	0,0	0,0											
29111	Bedrijfsbur./algem.	P													
29111	Bedrijfsbur./algem.	SA													
29111	Bedrijfsbur./algem.	PNID	1,8	0,8	0,8	1,0									
29111	Bedrijfsbur./algem.	Totaal PID	10,4	10,4	10,4	0,0		0,0	0,0				0,0		0,0
29111	Bedrijfsbur./algem.	Totaal PID + PNID	12,2	11,2	11,2	1,0		0,0	0,0				0,0		0,0
29113	Wetensch. personeel	2													
29113	Wetensch. personeel	3													
29113	Wetensch. personeel	4													
29113	Wetensch. personeel	5													
29113	Wetensch. personeel	6													
29113	Wetensch. personeel	7													
29113	Wetensch. personeel	8													
29113	Wetensch. personeel	9													
29113	Wetensch. personeel	10	4,3	0,0	0,0		0,0	4,3	0,0		0,0		0,0		
29113	Wetensch. personeel	11	13,5	0,1		0,0	0,1	13,7	-0,4		0,1		0,0		
29113	Wetensch. personeel	12	10,3	0,0			0,0	9,0	0,0	0,3	0,7		0,3		
29113	Wetensch. personeel	13	5,9	0,1		-0,1	0,1	5,9	0,0	0,0	0,0		0,0		
29113	Wetensch. personeel	14													
29113	Wetensch. personeel	15													
29113	Wetensch. personeel	16	1,0	0,0		0,0	0,0	1,0							

Sheet1 Sheet2

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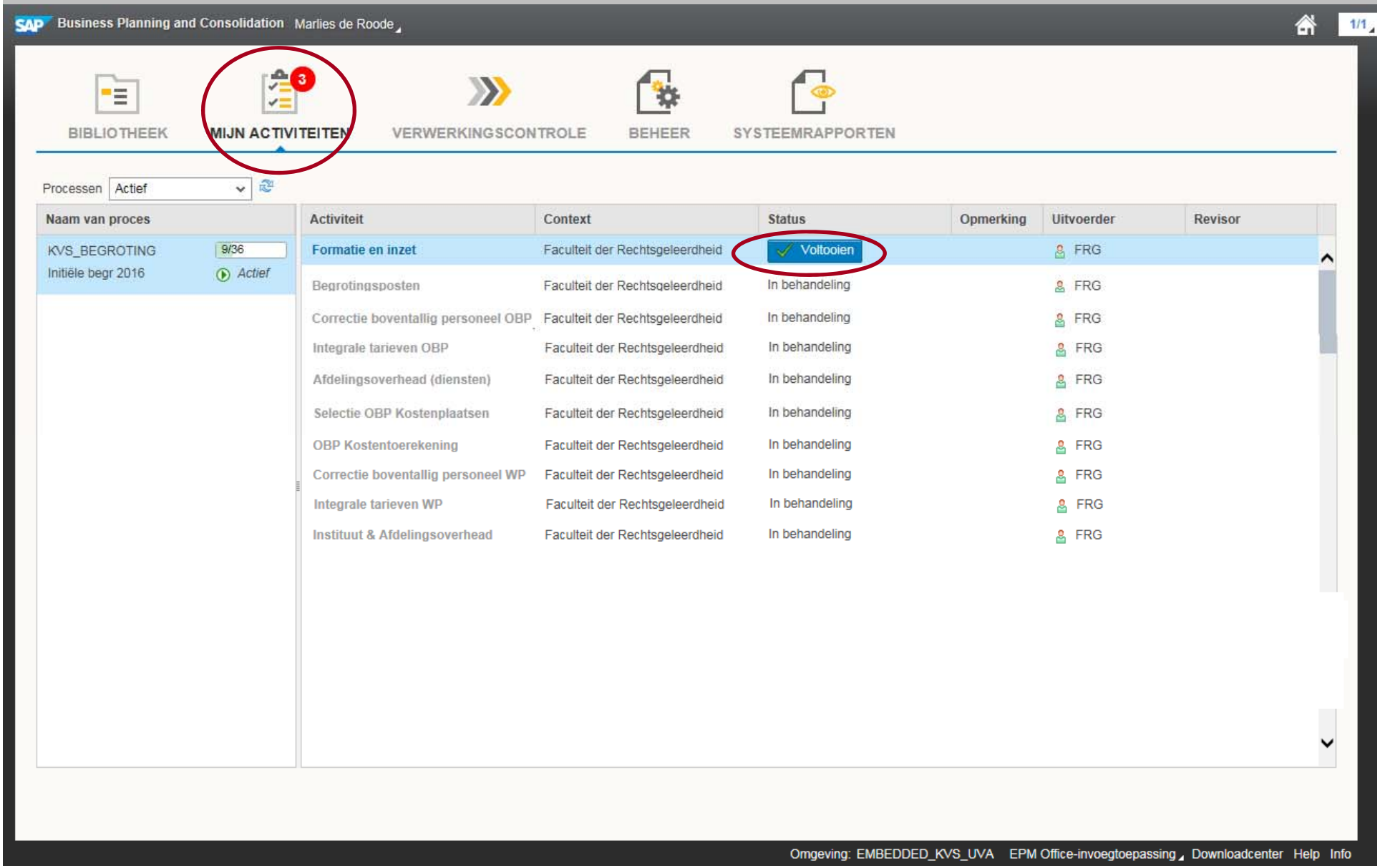
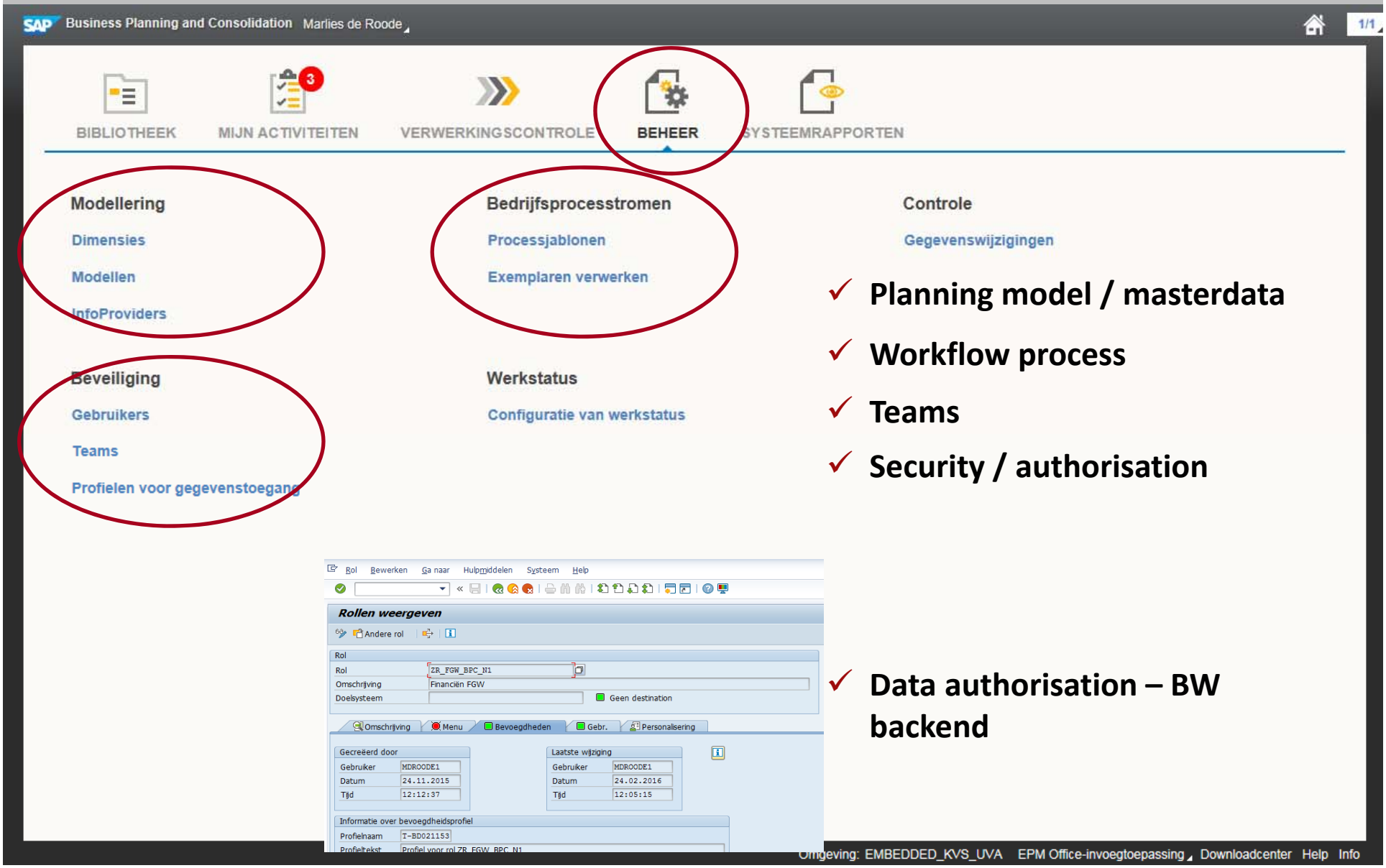
1 2 3 4 5

Results



Results



- ✓ **Planning model / masterdata**
- ✓ **Workflow process**
- ✓ **Teams**
- ✓ **Security / authorisation**
- ✓ **Data authorisation – BW backend**

Solution or frustration?

Solution or frustration?

Objectives

- ✓ **Central input**
- ✓ **Less time consuming**
- ✓ **Integration SAP BW**
- ✓ **Management control**

- ✓ **… Waiting for first forecast 2016**

  and initial budgeting 2017 …

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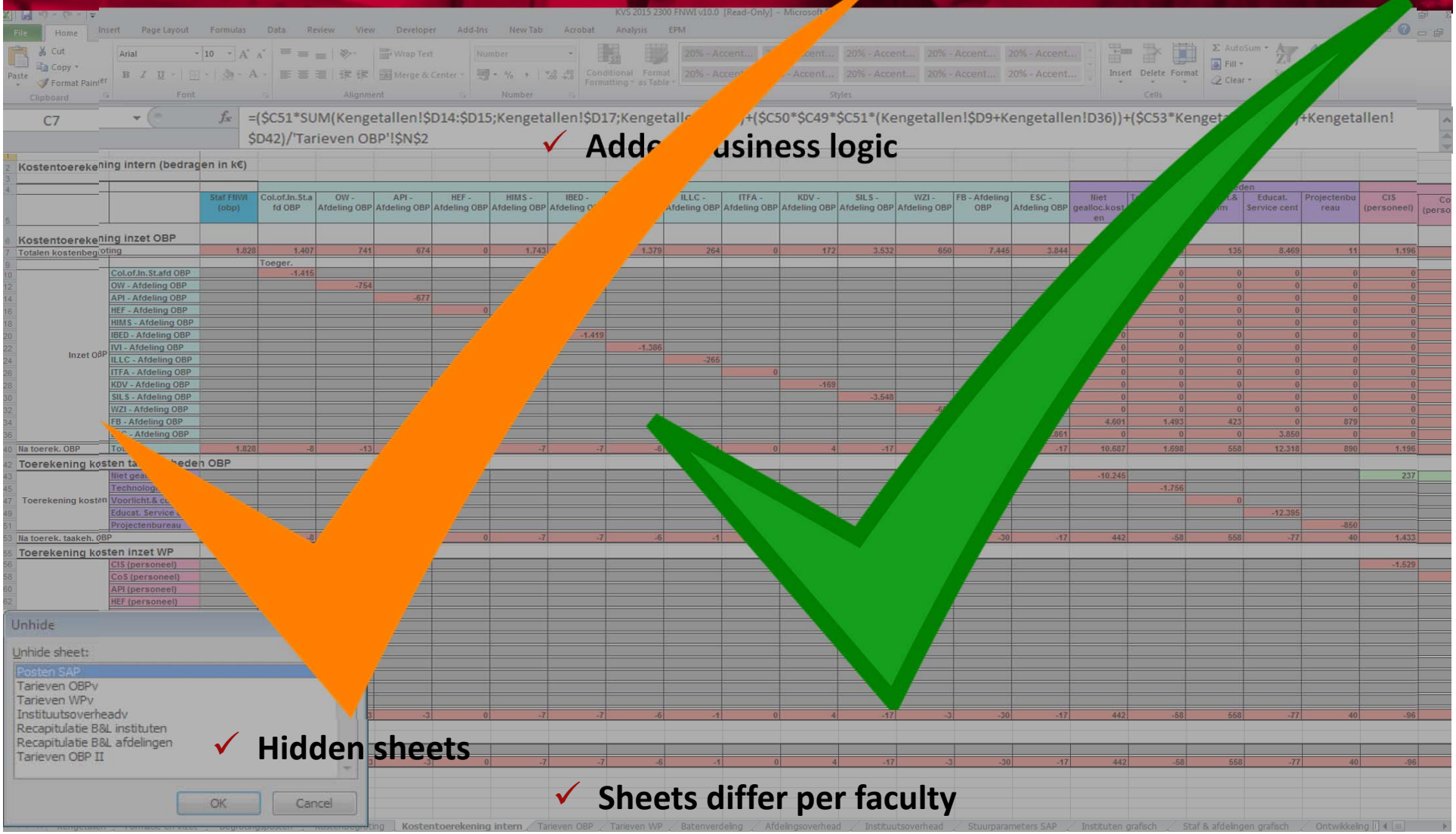
Solution or frustration?

1 2 3 4 5

Functional issues



✓ Adde usiness logic

✓ Hidden sheets

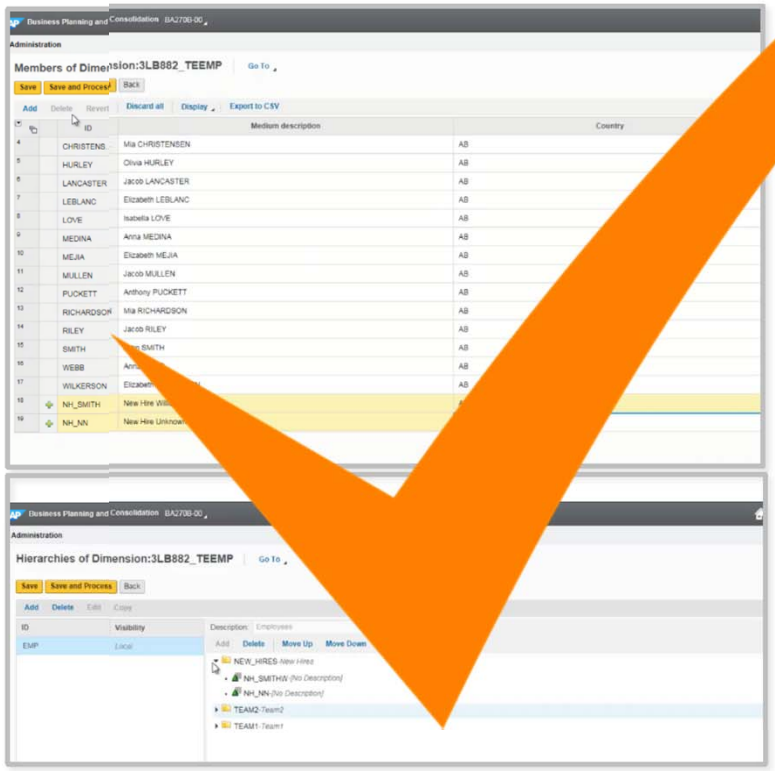
✓ Sheets differ per faculty

Solution or frustration?

1 2 3 4 5

Version SAP BW

NEW with SAP BPC 10.1 SP08 / SAP BW 7.4 SP13 – Embedded Model



Embedded Consolidation

- Modelling
- Business rules (no Eq p and US Elimination)
- Ownership Manage rship calculation)
- Consolidation M
- urnalEnd-2 odeling

Local D s archies

Integration ery Designer

Lab preview: Local Dimension; Local Hierarchies

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Solution or frustration?

Front end

Client Convergence in MS Office

Unified MS Office Client

Coexistence of Analysis and EPM sheets

Superset of Analysis and EPM Add-In featu

Common Installer, single license

Protected investments: Re-use existi t

Separate ribbon tabs

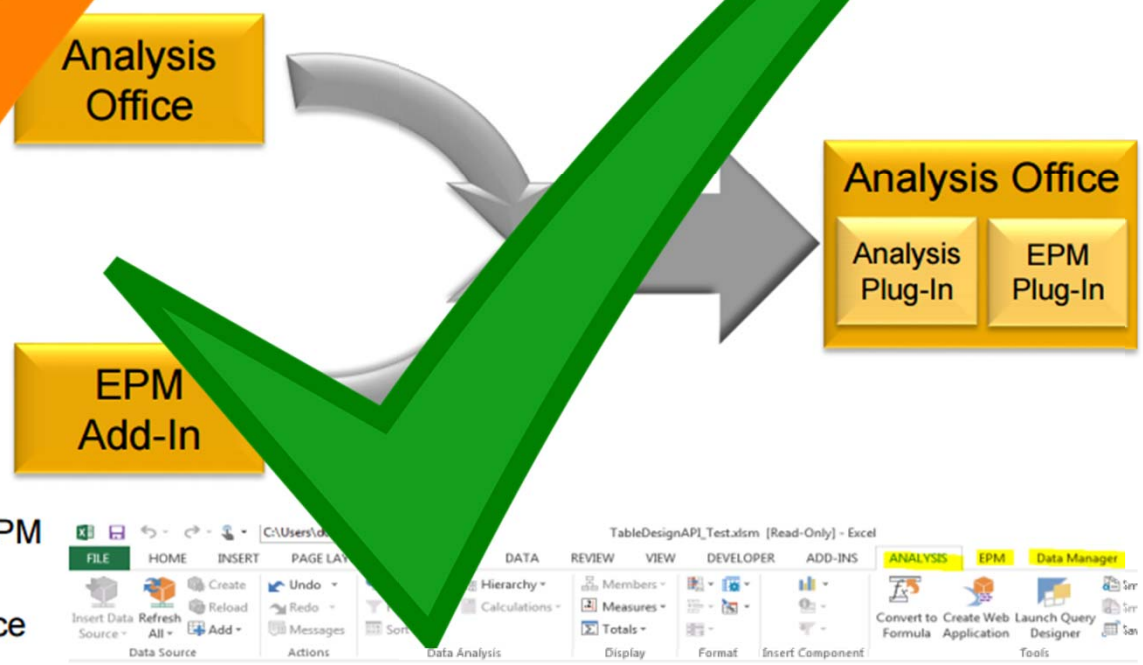
Gradual co gence: e.g. com h

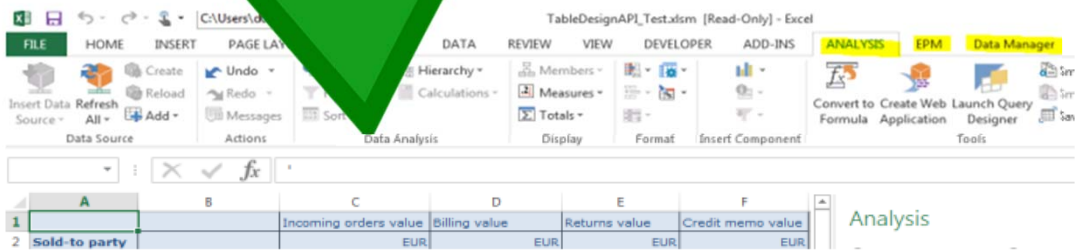
Terminology

Analysis Office → Prod g Analysis and EPM Add-In

Analysis Plug-In → Analysis part of Analysis Office

EPM Plug-In → EPM as part of Analysis Office





Solution or frustration?

BPC embedded or standard

SAP Business Planning and Consolidation, version for SAP NetWeaver
Product road map overview - key themes and capabilities

Embedded Model

- Integration Workspace Query Designer
- Local Dimensions, Local Hierarchies

Standard Model

- Optimized HANA integration

BPC 10.1 on NW 7.50

- BPC Add-On part of SAP BW software component
  - Release shipped on 7.40 & 7.5
  - Planning on aDSO objects

Q4 2015

Embedded Model

- Embedded Consolidation
  - Modelling
  - Business rules (no Equity Pic Elimination)
  - Ownership Manager (no culation)
  - Consolidation Monito
  - JournalEnd-2-end g
  - Control
  - Incremental
  - Paralleli tion
- *InfoPro*
- End-2-end ng

BPC 10.1 on NW 7.50

- Planning on aDSO objects – direct update

Q2 2016

Planned Innovations

Solution or frustration?

Questions