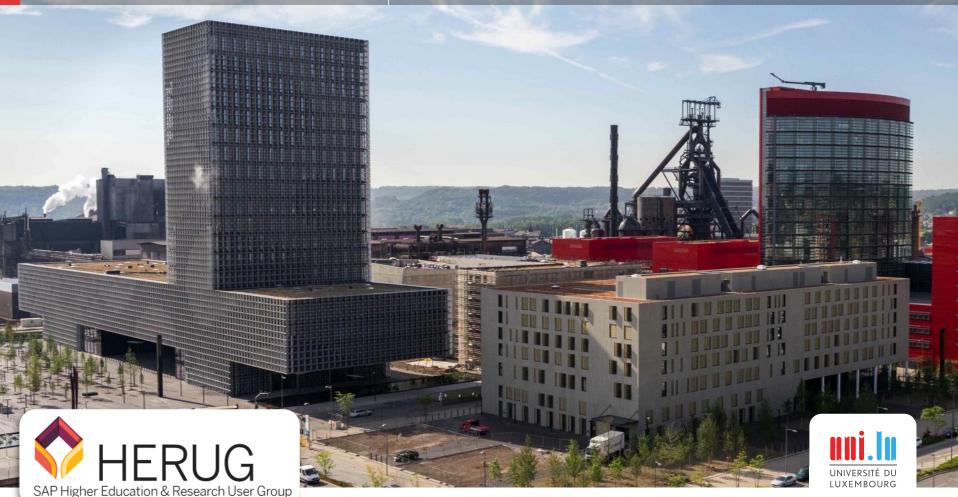
University of Luxembourg

Multilingual. Personalised. Connected.

HERUG 2019

360° view on projects through BI reporting and budgeting

Marie-Christine Royen : UL-SAP CC Teamleader Costanzo Maiorano : UL-SAP CC Solution Architect



Agenda



- UL background
 - About
 - SAP @ UL
- BI / RSB Reports
- Budget Tool
- Demo
- What's next?
- Q&A



About University of Luxembourg





6,366
113

different countries

from

53%

international students

professors, associate professors and senior lecturers





354

agreements signed on student exchanges and research and teaching cooperation



SAP @ University of Luxembourg Milestones



Nov 2013

- Decision for SAP: Provide digital foundation
- Standardisation, single source of information, transparent and real time

Jun 2014

- Initial scope of work complete (blueprint)
- Human resources, Finance, Purchasing, Travel and Expense

Jan 2015

- HR administration and payroll on SAP
- Finance, Purchasing, Travel and Expense delayed to Jan 2016: Scope too large

June 2015

- Other competing projects such as Belval move required to phasing development of finance, purchasing, travel and expense modules
- Decision to focus on Finance first

Oct 2015

 Employees can request absences (vacation, sickness, ...) in SAP, access to their data and payslip: Fiori introduction



SAP @ University of Luxembourg Milestones



Oct 2015

- Employees can request absences, access to their data and payslip
- Managers approve requests, have access to their team data

Jan 2016

- All Finance services in SAP
- Purchase orders have unique number and are linked to budget codes

May 2016

Overtime and on-call management in SAP for employees and approvers (Fiori)

Feb 2017

- Third party funded projects require timesheet reporting: roll out of CATs timesheet and approval Fiori apps
- Replacing physical paper invoice approval routing with Fiori application

Aug 2017

 Implementing & roll-out BW & BI tools for support staff: The new window to SAP data for non HR or Finance people



SAP @ University of Luxembourg Milestones



Nov 2017 Creation of Procurement group – kick off blueprint development for MM-PO

Feb 2018

- Formalization of SAP competence centre: 6 people
- Change from central to decentral budget preparation

Mar 2018

- Bugs fixing
- Operational support of SAP CC for finance, HR and procurement departments
- Enhancement PS master data to increase segmentation and granularity of the reporting

Aug 2018

- Implementation of AM module
- Structuration of roles to implement segregation of duties
- Roll out of budget tool

Feb 2019

- MM-PO roll out starts
- Kick-off Forecast tool



BI Reports - Background



My Applications

- For Admin Staff and Financial controllers: controlled access to SAP data and other data
 - Data warehouse provides data refreshed every night
 - Promotes self-service approach (Get what you need when you need).
 - Consolidated data
- For Project Responsibles (RSB) and Technical Advisors
 - Visibility of project data any time you need => Data Owners
 - Show invoice and expense note status and payment date
 - Access to invoice pdf as found during invoice validation
 - Eliminates in principle need for local invoice storage
- Save you own version of pre-configured reports
- Export to pdf or Excel



Datawarehouse breaks the walls of the data silos

RSB report - What is it?

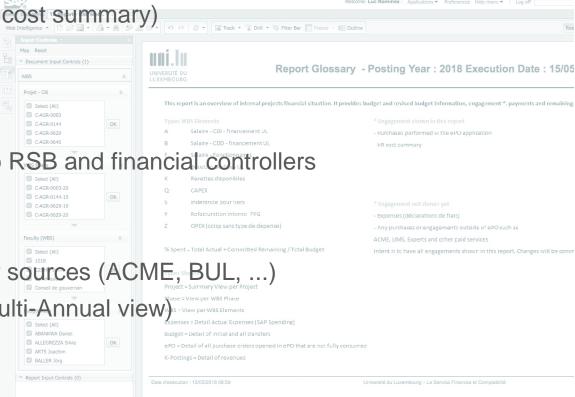


- RSB report is an annual overview of project data
 - Internal projects
 - Budget and revised budget
 - Commitment data (ePO, HR cost summary)
 - Paid expenses & invoices
 - Remaining calculation



- Further developments ongoing
 - Commitment data from other sources (ACME, BUL, ...)
 - External project reporting (Multi-Annual view)





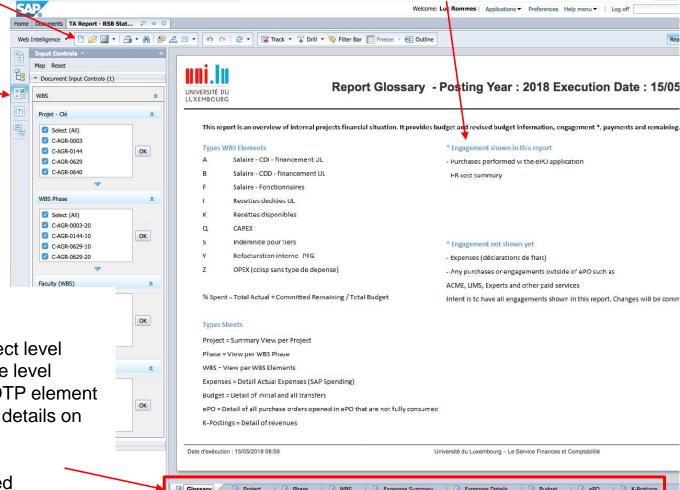
RSB report - Overview



Same menu bar for all reports: print, export, save version

Input controls allow to filter on project, level of organization or RSB

Available commitment, is updated as new elements become available



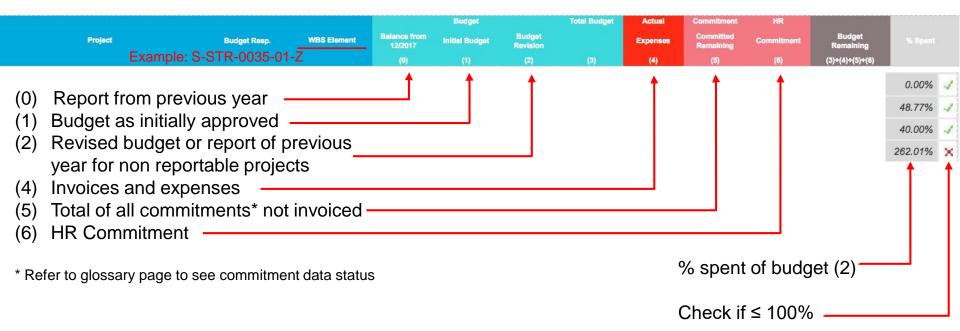
Tabs:

- Glossary this page
- Project summary at project level
- Phase summary at phase level
- WBS details on WBS / OTP element
- Expenses summary and details on invoices and expenses
- Budget revision history
- ePO remaining committed
 - K-Postings revenues on WBS / OTP

RSB report – From budget to % spent



- For each Entity, RSB, project
- 360° view on data
- Scheduled on a monthly basis





RSB report – Summary and Details are available for deep dive analysis



Expenses summary tab: Summarized by RSB and WBS / OTP

Person Responsible	WBS Element	Cost Group	Description	Posting Posting	1	2	3	4	5	Total
			AUTRES REMUNERATIONS D'INTERMEDIAIRES&HO			-234,00	-234,00			-468,00
		D-606-AUTR	TRANSPORTS ADMINISTRATIFS			-61,86				-61,86
	S-STR-0000-00-Z	0000-00-Z TRANSPORTS SUR ACHATS	TRANSPORTS SUR ACHATS		-114,66	-163,60	-184,86	-369,72		-832,84
Name			AUT. MATIERES ET FOURNITURES N. STOCKEES		-9.482,65	-3.834,17	-1.892,66	-2.502,82		-17.712,30
		D-607-FGEN	FOURNITURES&PETITS EQUIPEMENTS				-63,30	-269,32		-332,62
	S-STR-0000-00-Z				-9.597,31	-4.293,63	-2.374,82	-3.141,86		-19.407,62
Name	Total				-9.597,31	-4.293,63	-2.374,82	-3.141,86		-19.407,62

Expenses detail tab: All received invoices and expenses (declarations de frais) For full details and access to invoices via TA reports

Budget detail tab: All changes requested and validated on initial budget

Budget changes

Documen t Date	Segment text	VAT regi me	Initial Budget	Budget Revision	
2/1/18	insertion demande budgets 2018 - cf tableau Budget	2	81,000		
2/19/18	Transfert de budget demandé par le RSB - cf email	2		-40,000	

ePO tab: Shows all open or partially open PO as from November 2017

Budget Resp Purchasing Doc PO Created on WBS Element Description Vendor

PO short description PO created by Committed Invoiced Remaining



Committed remaining: If all goods and services received are received – close ePO

From BI Reports to Budget Tool



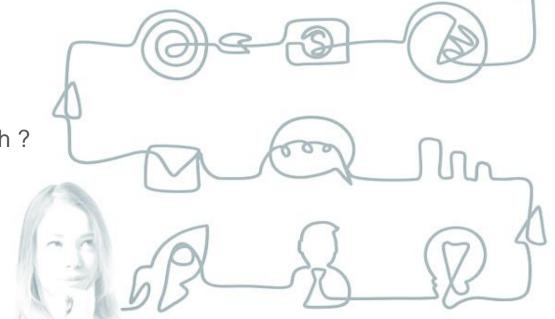
- Since first SAP implementation, budgets are not collected in SAP
- Each faculty/center is gathering information in XLS files
 - Long and painful budget exercise
 - Not harmonized process
 - Lack of consolidated / trusted view
 - Versioning heavy to maintain
 - Updates are difficult to integrate
- Capitalize on the BI reports success to collaborate with financial controllers and centralize the inputs
 - Collect OPEX/CAPEX budgets
 - ➤ Collect HR budgets based on HR Cost Plan



Budget Tool Challenges



- Business Challenges
 - From decentralized inputs to centralized process
 - From XLS sheets to centralized tool
 - HR data to be cleaned => reliable cost plan
- IT Challenges
 - Which interface ?
 - Reference data?
 - Frequency of refresh ?





Budget Tool – Behind the scene





- Collect HR data and prepare cost plan based on all active positions
- Collect and update OPEX / CAPEX data on multiannual projects
- Reconcile HR cost plan into project allocation
- Enable aggregation at any level of organization

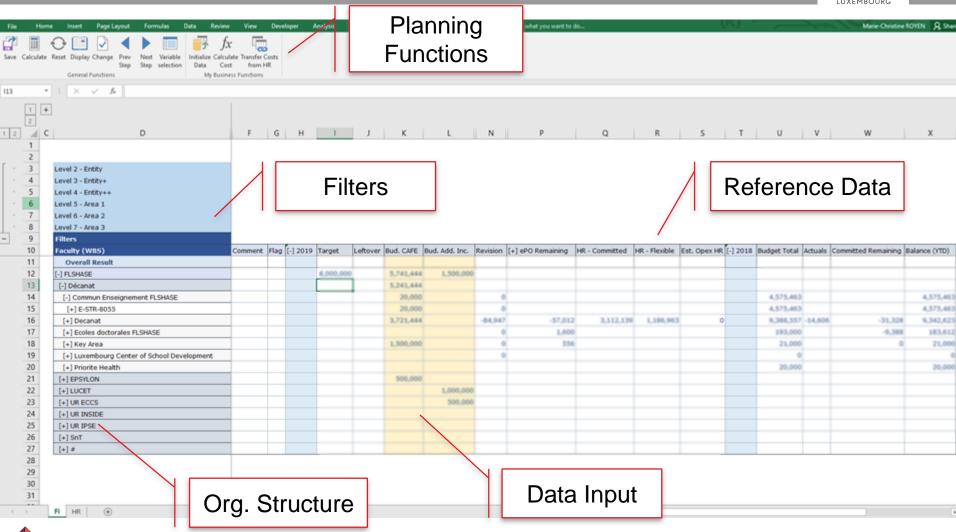


- Allow change position start / end date, FTE and OTP allocation
- Recaclulate HR cost based on new hypotheses
- Add new positions and estimates costs
- Transform HR cost into projects (HR committed vs flexible)



Budget Preparation





Budget Preparation : OPEX / CAPEX input





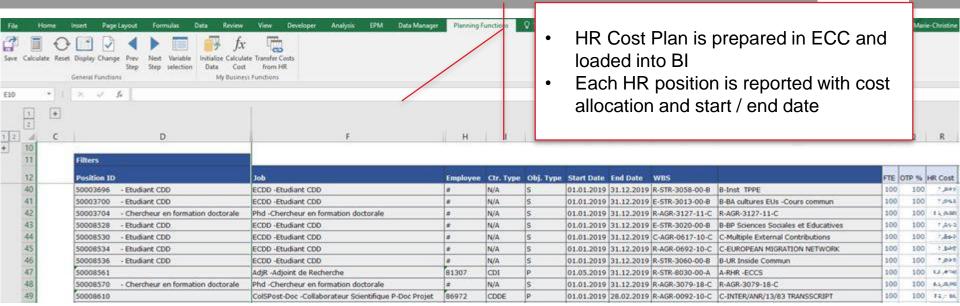
- Enter target high level
- Enter CAPEX/OPEX budget project/WBS level (Internal = CAFE funding or External = Add. Income)
- Data is aggregated along the project hierarchy

3 Level 2 - Entity	Filters	<u> </u>							-				
4 Level 3 - Entity+	Faculty (WBS)	Comment	Flag	[-] 2019	Target	Leftover	Bud. CAFE	Bud. Add. Inc.					
5 Level 4 - Entity++ 6 Level 5 - Area 1	Overall Result												
7 Level 6 - Area 2	[-] FLSHASE				8,000,000		3,741,444	1,300,000					
8 Level 7 - Area 3 9 Filters	[-] Décanat						3,245,444						
10 Faculty (WBS)	[-] Commun Enseignement FLSHASE						20.000		tal	Actuals (Committed Remaining	Balance (YTD))
11 Overall Result 12 [-] FLSHASE	[+] E-STR-8055				0		20.400		-				
13 [-] Décanat	[+] Decanat						3.731,444						
14 [-] Commun Enseig 15 [+] E-STR-8055	[+] Ecoles doctorales FLSHASE								-463 463			4,575,46	
16 [+] Decanat	[+] Key Area						1 300 000		_	7 -14,606	-31,328		
17 [+] Ecoles doctoral 18 [+] Key Area	[+] Luxembourg Center of School Development						1,110,210,000		000		-9,388 0		
19 [+] Luxembourg Co									0				
20 [+] Priorite Health 21 [+] EPSYLON	[+] EPSYLON						3/16/5/00		,000			20,00	
22 [+] LUCET 23 [+] UR ECCS	[+] LUCET							1, n/30 m/30	-				
24 [+] UR INSIDE	[+] UR ECCS							920 000					
25 [+] UR IPSE 26 [+] SnT	[+] UR INSIDE								-				
27 [+] #	[+] UR IPSE												
28 29 30	[+] SnT												
30	[+] #												



Budget Preparation: HR Cost

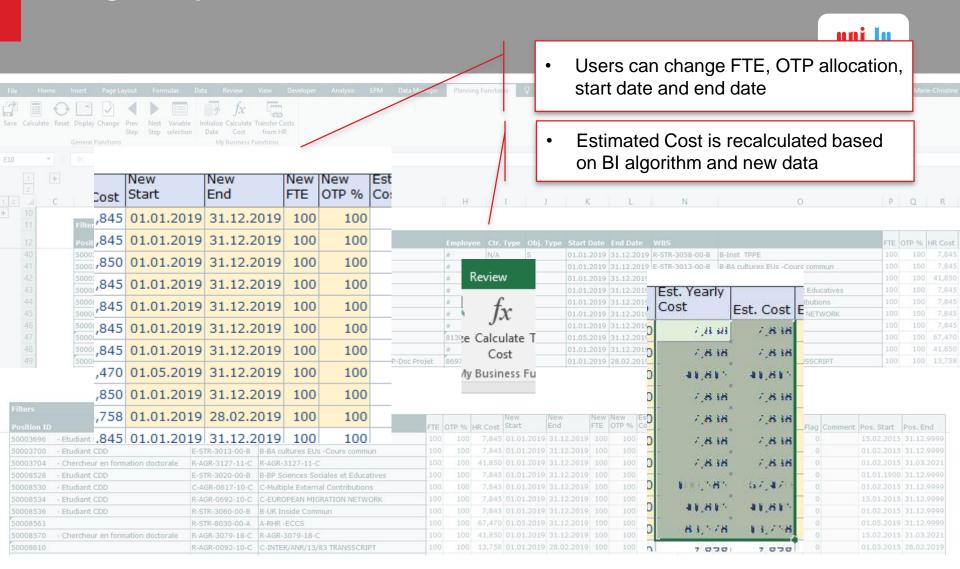




Filters	3			12		100	5.63	2000000	move	NO CONTRACTOR	CONTROL IN	85YY9		7	5 1/2	10	-21	
Position ID	WBS		FTE	OTP %	HR Cos		ew tart		FTE	OTP %	Cost	2000	t. Cost	Est. Cost (FC)	Est. Opex F	ag Commen	t Pos. Start	Pos. End
50003696 - Etudiant CDD	R-STR-3058-00-8	B-Inst TPPE	100	100	T de	NE O	1.01.2019	31.12.2019	100	100	1 49	# 30°	4,0129	2,898,14	0.00	0	15.02.2011	31.12.999
50003700 - Etudiant CDD	E-STR-3013-00-B	B-BA cultures EUs -Cours commun	100	100	7.64	0 =4	1.01.2019	31.12.2019	100	100	1	9.50	* 83%	才在第 H	0.00	0	01.02.2015	31.12.9999
50003704 - Chercheur en formation doctorale	R-AGR-3127-11-C	R-AGR-3127-11-C	100	100	1.0	av 0	1.01.2019	31.12.2019	100	100	344	26.50	61,863.	CERMAN	0.00	0	01.02.2015	31.03.202
50008528 - Etudiant CDD	E-STR-3020-00-B	B-BP Sciences Sociales et Educatives	100	100	- 20	F 0	1.01.2019	31.12.2019	100	100	1.	EUR"	1,0156	7,8786.44	0.00	0	01.01.1900	31.12.9999
50008530 - Etudiant CDD	C-AGR-0617-10-C	C-Multiple External Contributions	100	100	7,86	LE O	1.01.2019	31.12.2019	100	100	1 6	arahi -	1,3786	7,000,00	0.00	0	01.02.2015	31.12.9999
50008534 - Etudiant CDD	R-AGR-0692-10-C	C-EUROPEAN MIGRATION NETWORK	100	100	2,86	440	1.01.2019	31.12.2019	100	100	1. 3.	62967	1,636	7,896,74	0.00	0	15.01.2015	31,12,9999
50008536 - Etudiant CDD	R-STR-3060-00-8	B-UR Inside Commun	100	100	2,6	0 13	1.01.2019	31.12.2019	100	100	20	A.78	*,650	7 Joseph 144	0.00	0	01.02.2015	31,12,9999
50008561	R-STR-8030-00-A	A-RHR -ECCS	100	100	\$7.60	71 0	1.05.2019	31.12.2019	100	100	nt.	NO.	h(t)/h(P) u	50°,4345.40°	0.00	0	01.05.2019	31,12,9999
50008570 - Chercheur en formation doctorale	R-AGR-3079-18-C	R-AGR-3079-18-C	100	100	95.60	0 14	1.01.2019	31.12.2019	100	100	al.	Red.	41,056	5 LA. 16.25	0.00	0	15.02.2015	31.03.202
50008610	R-AGR-0092-10-C	C-INTER/ANR/13/83 TRANSSCRIPT	100	100	65.75	0 0	1.01.2019	28.02.2019	100	100	BL.	1.7%	15.716	12.02 M	0.00	0	01.03.2019	28.02.2019

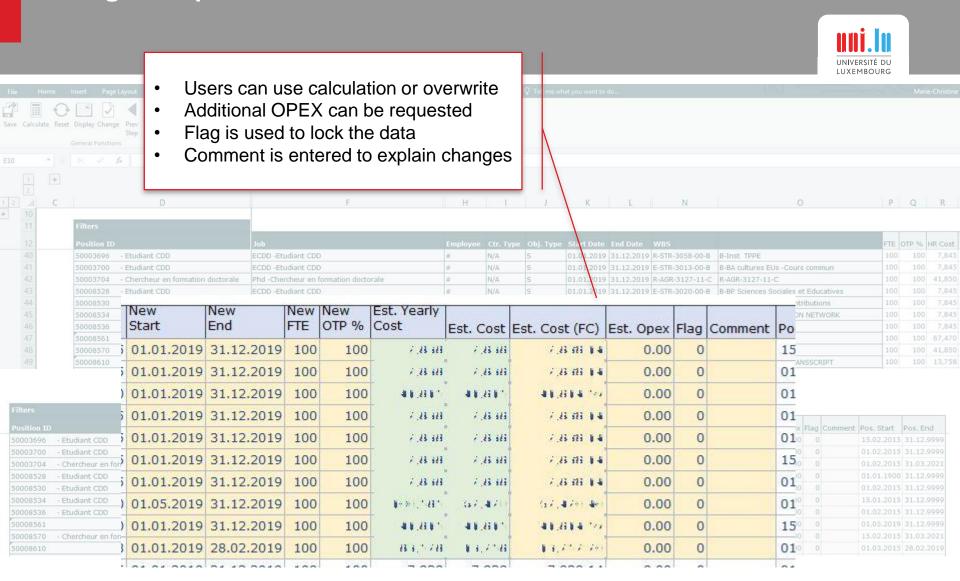


Budget Preparation: HR Cost



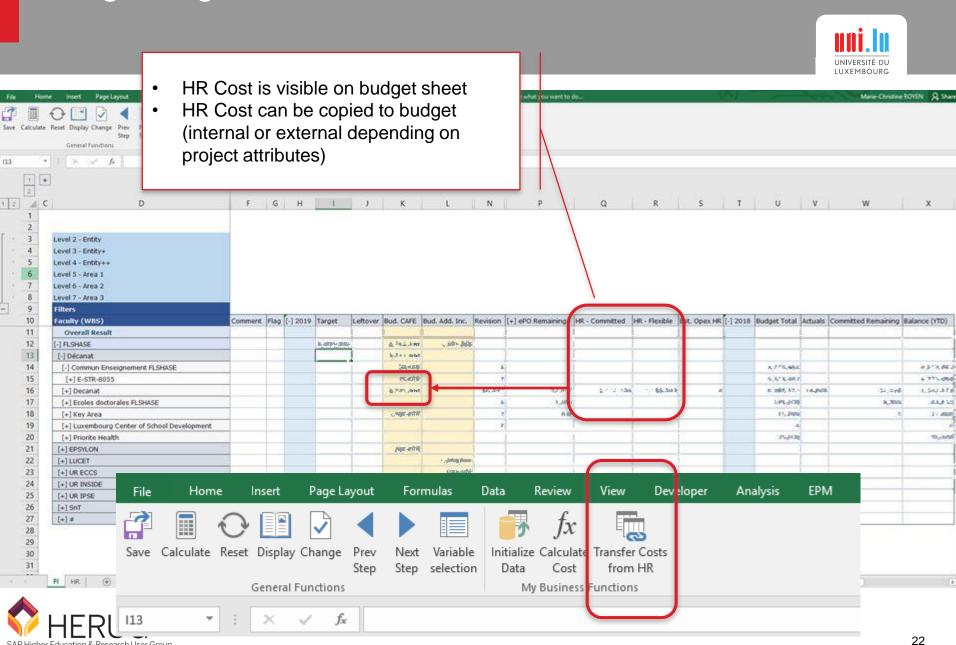


Budget Preparation: HR Cost





Budget Integration









What's next?



- Forecast Tool
- HR data cost plan updates automation
- Budget tool V2 including external budgets, revenues, cost elements...
- Migration to BW4 with BPC embedded

• ...

