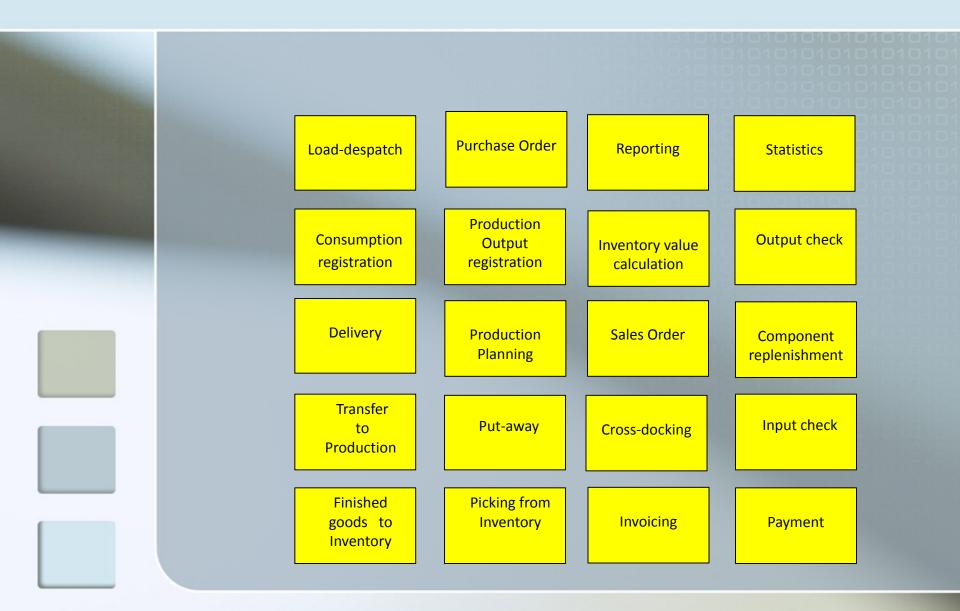


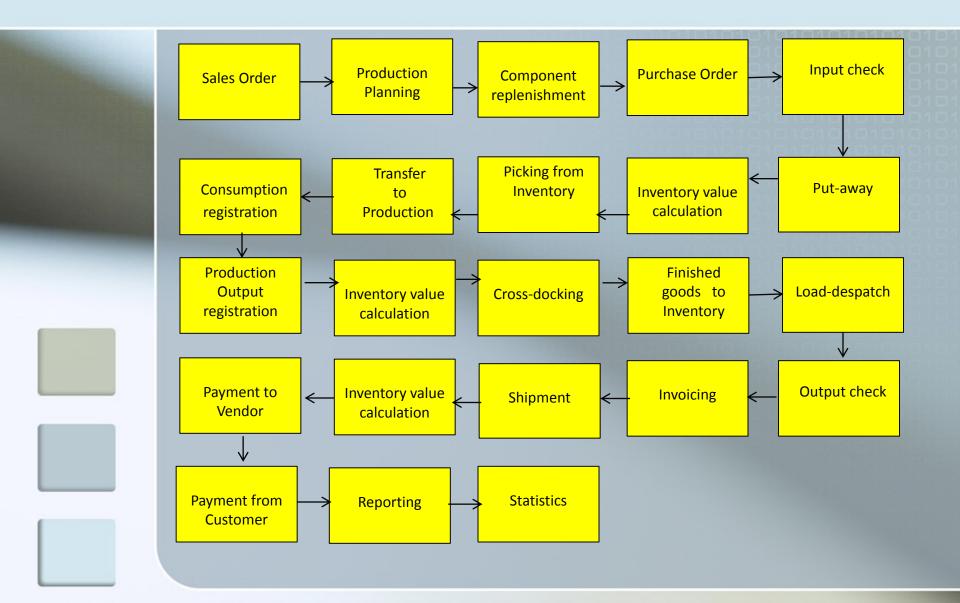
ERP Project Activities

Skorkovský, ESF MU, Department of Business Economics , version 20160226

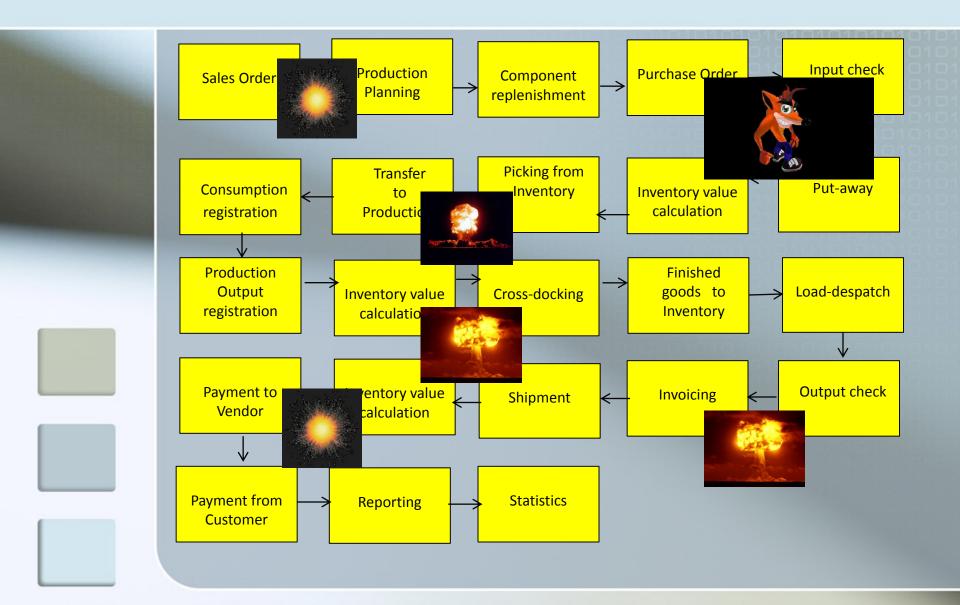
Your main task (not organised set of processes)



Your main task (organised set of processes)

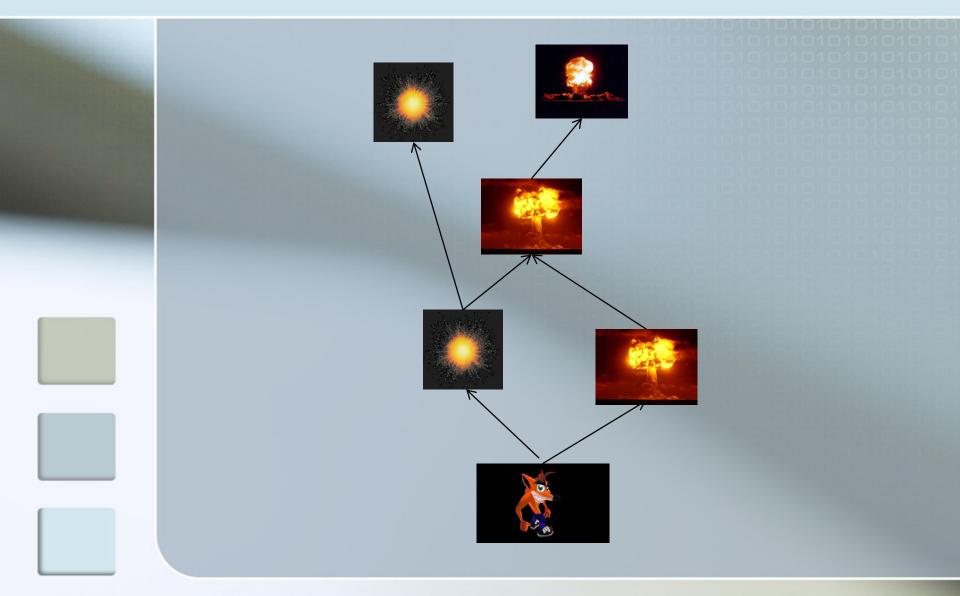


Your main task (possible problems, bottlenecks,..)



Your main task

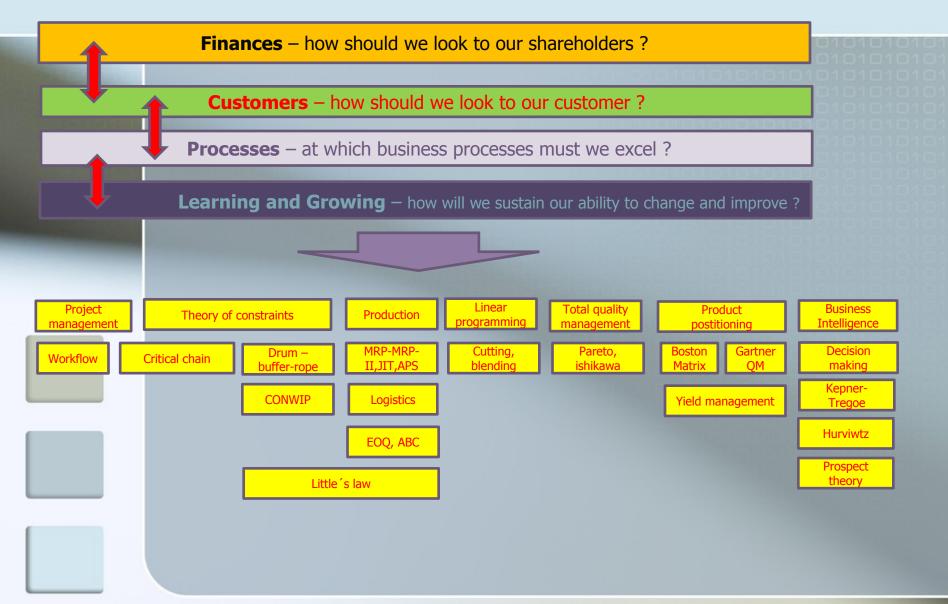
(Search - HOW ??? Measure impacts –HOW ??? and Destroy – HOW ???)



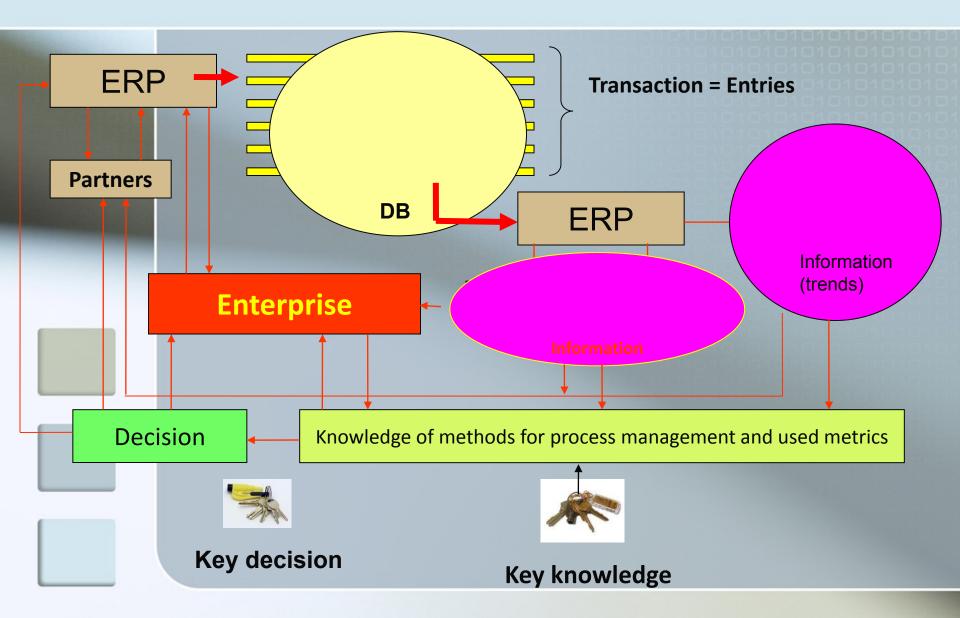
Methods (not sorted so far)

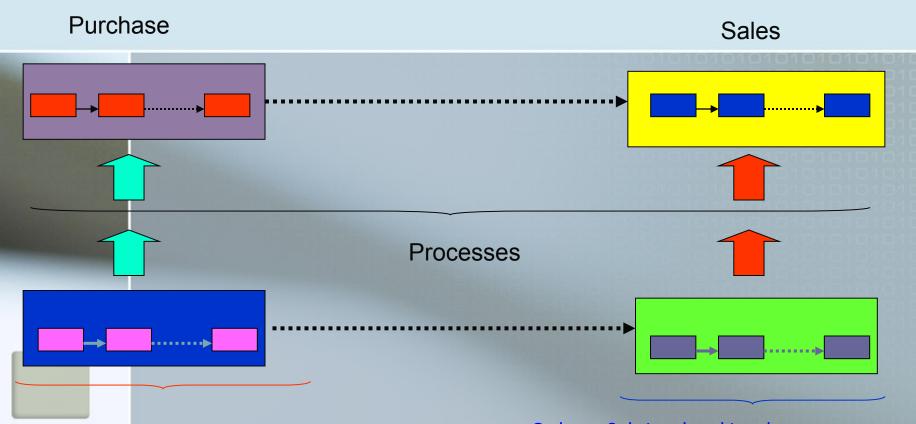
- Theory of Constraints
- Critical Chain
- Drum Buffer Rope
- Ishikawa Fishbone Diagram (Quality management)
- Pareto Analysis (ABC and stock)
- OLAP (On-Line Analytic Processing)
- Kepner Tregoe method
- MaxMax and MaxMin (Hurwitz)
- ERP Statistics and reporting
- Little's law
- Balanced Scorecard
- And many, many more.....

BS and OM - slide from Balanced Scorecard show (will be presented again in BS context)



Simplified diagram of ERP usage



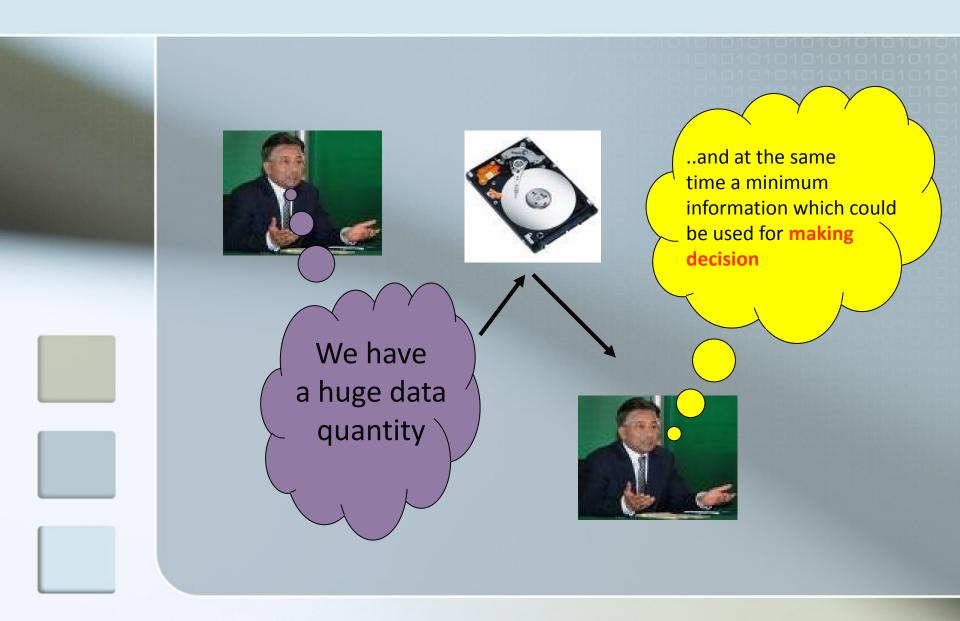


ERP

Quotes->Net change calculation-> ->Order->Vendor batch tracking e-> ->Input Quality check->Receive, Put-away-> ->Invoicing

- Orders->Sub-Load and Load->
- ->Batch tracking
- ->Output Quality check->Picking ->Shipment
- -> Invoicing -> Applying payments

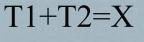
Main problem (one of many)



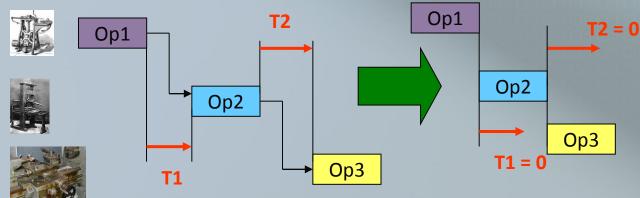
Main problem II (need of reliable data)

Wee need finite capacity scheduling (APS)

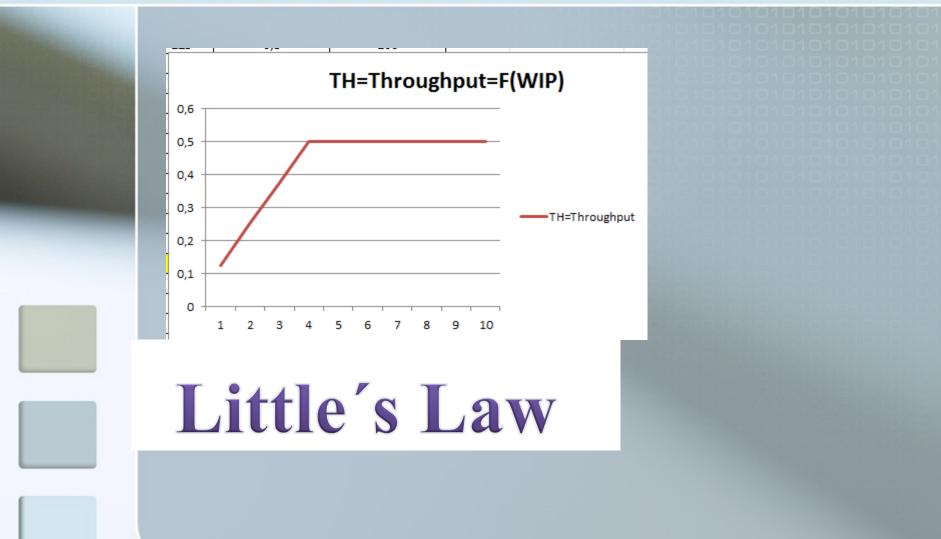




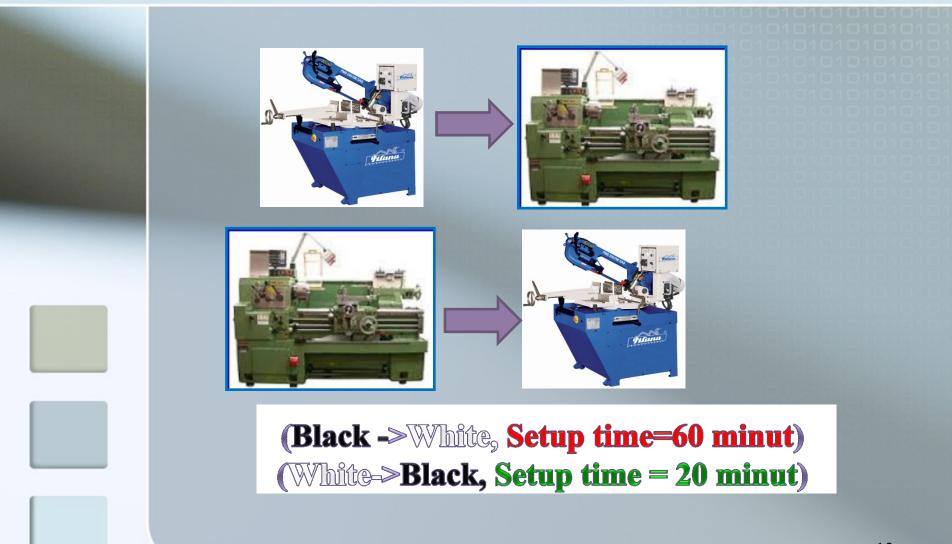




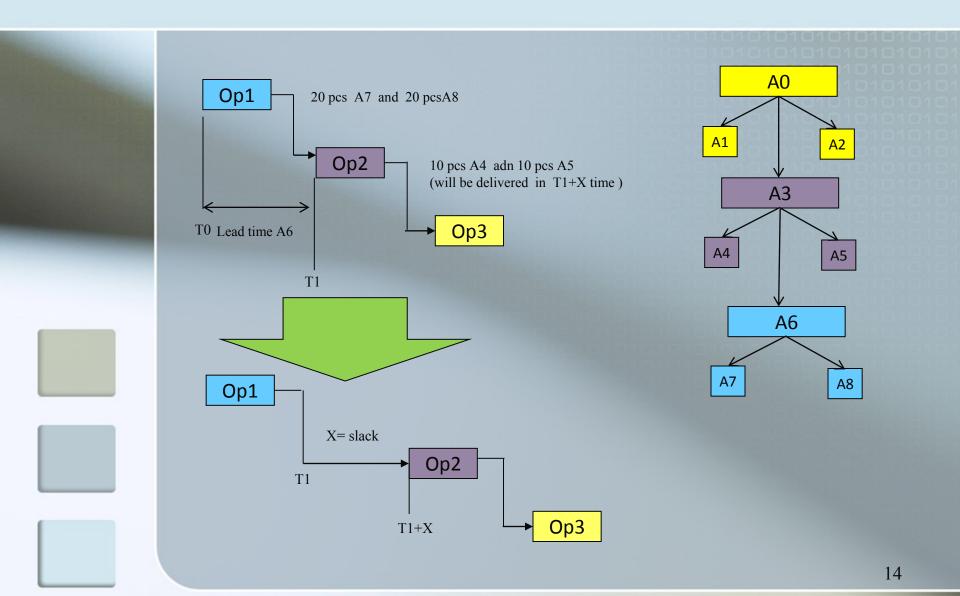
Basic problem II.



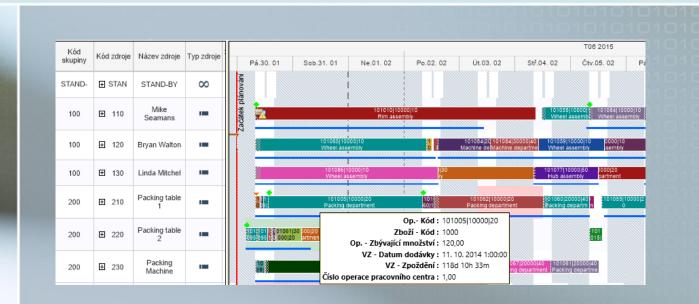
Basic problem IV.



Basic problem (availability of components) V.



Basic problem (availability of components) V.



Prod. Order	Routing -					Type to filter (F3) Prod. Order No.		
							Filter: Firm Planned • 101005 • 10000 •		
Operati 🔺 No.	Туре	No.	Description	Starting Date-Time	Ending Date-Time	Setup Time	Run Time Material Fixed Date		
10	Work Center	100	Wheel assembly	18. 8. 2014 14:41	22. 8. 2014 8:31	110	12 23. 8. 2014 0:00		
20	Work Center	200	Packing department	27. 8. 2014 8:31	1. 9. 2014 14:46	15	15 10. 9. 2014 0:00		
30	Work Center	300	Painting department	1. 9. 2014 14:46	4. 9. 2014 10:46	10	20		
40	Work Center	400	Machine department	4. 9. 2014 11:11	5. 9. 2014 12:21	10	8		

APS result ->18.8.->23.8. a 27.8.->10.9

Why we cannot manage it ?

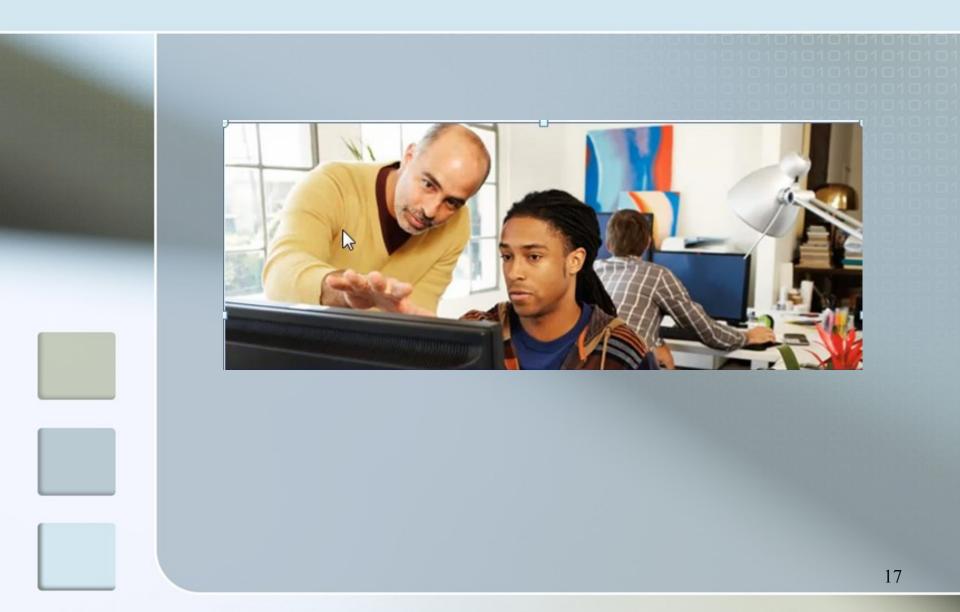


Unclear priorities, bad = SOP ,...

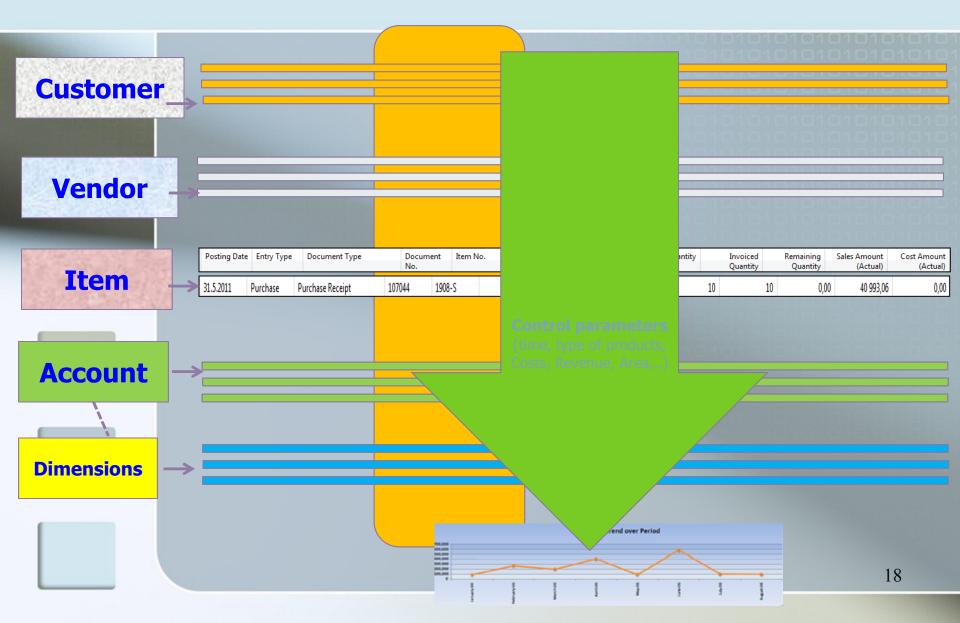
(SOP = Standard Operation Procedures)

Reporting

Reporting (NAV tools or JETs)



Main principles (source tables and their entries)



and the second se	State of the second second				0101010	100	010	101010
0.000	📰 WC Working	g Capital Analysis - Účetní schém	а					
	Název	wc						
	Číslo řady	Popis	Typ s	Součet	Typ řady	T	Z Tučně	Nová stra
			Účty		Pohyb	č	A	
		Working Capital Analysis	Účty		Pohyb	Č	A •	/
		1 Goods all	Součty	139995	Pohyb	č	A	
		2 Receivables	Součty	315995	Pohyb	č	A	
		3 Cash total	Součty	211995	Pohyb	Č	A	
		4 Banks all	Součty	221995	Pohyb	č	A	
	TR	Receivables	Vzorec	1+2+3+4+5	Pohyb	č	A.,	/
			Účty		Pohyb	č	A	
		5 Short bank credits	Účty	231000	Pohyb	č	A	
		6 Splatné závazky, celkem	Součty	321995	Pohyb	č	A	
		7 Prepayments	Účty	324100	Pohyb	č	A	
		8 Associate liabilities	Součty	368995	Pohyb	č	A	
	TP	Payables	Vzorec	5+6+7+8	Pohyb	č	A •	/
			Účty		Pohyb	č	A	
		Working capital	Vzorec	TR TP	Pohyb	č	A	/

Analysis

	WC -	- WC - N	láhled účetního schéma				
	Obecn	né Filtr	y dimenzí Možnosti				
	Název	/ účetníh	o schém WC	Filtr data	01.0	01.0831.03.08	
	Název	/ rozložer	ní sloupce . WC 🗈	Filtr rozp	očtu	١	
	Čís	slo řady	Popis	Net change (0)	Net change (-3M)	Net change (-6M)	Net change (-9M)
	_						
	_		Working Capital Analysis				
	_		1 Goods all	22 734 286,66	22 868 622,95	35 133 928,96	34 203 102,87
	_		2 Receivables	8 896 962,33	15 620 590,10	13 095 293,10	-2 424 454,90
	_		3 Cash total	-28 167,60	36 920,70		
	_		4 Banks all	7 249 513,07	-161 688,80		-2 694 006,24
	TF	R	Receivables	30 460 492,90	57 101 259,84	34 005 343,10	25 923 710,64
	_		5 Short bank credits	-8 392 101,56	18 736 814,89	-14 223 878,96	-3 160 931,09
			6 Splatné závazky, celkem	-12 766 412,03	-9 171 504,29	-3 876 790,60	295 083,40
			7 Prepayments				
			8 Associate liabilities				
	► TF	Р	Payables	-21 158 513,59	9 565 310,60	-18 100 669,56	-2 865 847,69
			Working capital	9 301 979,31	66 666 570,44	15 904 673,54	23 057 862,95
-	_						
	_						
	_						

• 🔀

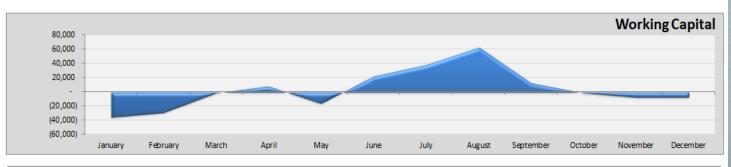
20

Working capital – Show of the results from JETs

Working Capital & Current Ratio

Report Date 8/23/2011

		L	\$		20	2011						
	January	February	March	April	May	June	July	August	September	October	November	December
Current Assets	74,405	(90,939)	(16,110)	136,096	(92,528)	101,144	(155,777)	174,615	(363,170)	1,015	72,525	(72,789)
Current Liabilities	109,902	(62,118)	(14,989)	127,587	(76,890)	78,566	(193,757)	112,467	(376,168)	2,070	79,494	(65,841)
Working Capital	(35,497)	(28,821)	(1,121)	8,508	(15,638)	22,579	37,980	62,148	12,998	(1,055)	(6,969)	(6,948)
Current Ratio	0.68	1.46	1.07	1.07	1.20	1.29	0.80	1.55	0.97	0.49	0.91	1.11







Knowledge of methods, which are necessary for project management and process management

- Theory of Constraint (will be introduced-72 slides)-seminar work!!!!
 - Critical chain methodology
 - Thinking tools
 - Throughput Accounting ->go to wikipedia
- Balanced Scorecard (will be introduced)
- SWOT a Gap Analysis
- MS Office (Word, Power-Point and Excel)
- ERP system and its logic (will be introduced- 28 hours)
- Logistics (part of ERP operations)
- Finance Management and Controlling (part of ERP operations)
- Production Management (MRP, MRP-II, JIT and DBR)
- Market Analysis (part of ERP operations)

Knowledge of methods, which are necessary for project management and process management

- Legal aspects of contracts
- Cost management
- Foreign languages
- Basic knowledge of IT architecture will be introduced
- Methods used for project management
- Business Analytics

Will be shown later

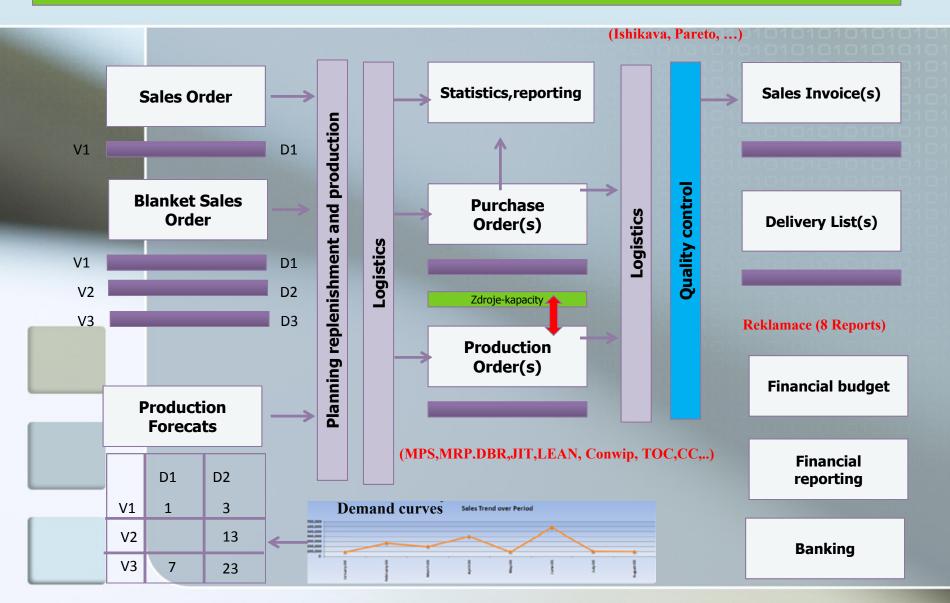
- Methods supporting decision making
- Risk management
- Basics of marketing

Business Analytics – some reason why to discuss



Financial management

Balance Scorecard, ERP, Business Intelligence (OLAP),...-



What Users Need



CEO

"I need to know that the people in my organization have the right goals in place to understand and execute on the strategic initiatives of the company."



VP, Operations

"I need better visibility into my cost of operations so I can target specific cost reduction opportunities that won't have a negative impact."



CFO



"I need better visibility into our pipeline performance so I can focus on deals that help me grow business with my most profitable customers."

"I need to improve our analytics capabilities so we can understand our current business performance and do a better job of planning for the future."



Sales Rep

"I need to have the right demographic information so I can better target my opportunity prospecting."



Customer Support Rep

"I need better access to information to make better decisions on cross-sell and up-sell opportunities."

Source: "Creating the Office of Strategy Management" by Robert Kaplan and David P. Norton, Harvard Business School, April 2005



Thanks for Your Attention

Will be placed on IS.MUNI.CZ in the study materials

If everyone pulls at the different end of the rope, than your project results will be a mess... (see rule 99 %)