

From Formation to Closure – A Navigator's Perspective* on the Work and Cash Flow Cycle of a Small Business and its Main Delays * i.e. A General Overview for Directors

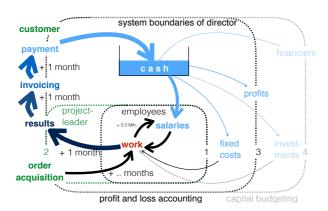
The cash flow cycle is essential to a business's survival. Often, the process is delayed between the stages of acquiring orders, creating work results, invoicing, and receiving payments from customers. Managing cash flow can therefore be a challenge, particularly in the start-up phase or when expanding.

Subject of discussion and methodology

A small business is generally dependent on the output of its employees (fixed costs are low). To keep the business running, money is needed:

- Cash flow (input and output): transformation of cash into work results (by paying salaries) and back into cash again (step by step). On the customer's side (Fig.1 on the left), delays have an impact on the work and cash flow cycle.
- Balance: profit and loss accounting.

Fig. 1 shows four system boundaries:



- 1 Employees produce results. Salaries (outgoing) have to be paid more or less at the same time that the work is carried out (no delay).
- 2 Project managers are responsible for order acquisition and the presentation of results (reports). Delays are the time between:
 - .. successful order acquisition and execution of work (worklist);
 - .. doing the actual work and delivering the results to the costumer and invoicing (work in progress);
 - .. invoicing and receiving payments (incoming). (debtors = outstanding receivables).
- 3 The board of directors is responsible for strategic issues (for scenarios, see below) and overheads (administration, profit and loss accounting), etc.
- 4 Capital budgeting includes starting capital and investments. They have to be financed by the business itself or by finding external sources.

Fig. 1 System sketch with cash flow cycle.

Delays matter - a comparison

The impact of delays can be seen on both cash and equity. A comparison is made for the duration of either 0 or 3 months between paying salaries and receiving payments from the customers (work in progress + debtors).

Equity is defined as cash + work in progress + debtors (outstanding receivables), while the worklist (work acquired but not yet started) is not added but represents a hidden reserve in accounting terms.

Scenarios within the life cycle of a business

Six scenarios within the life cycle of a business are studied, based on its size (number of employees).

Size of busines	s at start	end
Scenario	[full-time j	obs in %]
Formation	0	400
Business as usual	400	400
Expansion to 200 %	400	800
Downsizing to 50 %	400	200
Closure	400	0
Serious trouble	400	0

Fig. 1 Scenarios within the life cycle of a business.

For each scenario, a decision on whether to change is made at the beginning of year X. The transition is completed after one year. The time sequence starts in year X-1 and ends in year X+2. Note that it takes two years to see the full effects due to the delays.

Parameters - ceteris paribus

All other parameters (besides size and delays) are defined within a typical range with no variation, based on the concept of ceteris paribus (i.e. all other things being equal). In particular, it is assumed that the

- .. workload of each employee is 100 %. This can be a challenging target on its own to meet continuously. (An exception is "serious trouble" – it means a severly low workload and therefore going bankrupt.)
- .. business is sustainable and allows a yearly profit of 10 % of the revenues or ~ 5 % of the starting capital;
- .. appropriation of the profits is limited. A **minimum cash base** of 25 % of the planned revenues per year is defined. This precautionary measure takes into account fluctuations due to large individual payments (in or out) and late payments (in), etc.



Business as usual is easier without delays

Many businesses try to minimise delays in their cash flow cycle with short payment terms or cash on delivery. Without delays, work commenced plus debtors equals zero. This means they are converted into cash immediately and equity is minimised.

Balance	with	out	with delay
as at 31/12	start	end	start end
cash	250	250	250 250
equity	250	250	500 500
profit per year	100	100	100 100

Fig. 2 Comparison of balance for business as usual.

Equity (and required starting capital) is therefore only 50 % compared to a business with delays.

Formation stage: requires capital and full of risks

The formation stage is full of risks, as the business has to raise enough capital (expenses first, earnings later) and acquire orders quickly.

Balance	without start	delay end	with de	lay end
as at 31/12	Start	ena	Start	ena
cash	475	250	725	250
equity	475	250	725	500
profit per year	0	100	0	100
new capital	475	-	725	-

Fig. 3 Balance in the formation stage.

With delays, businesses need more starting capital, as there is also a delay between carrying out the work and getting paid (*work in progress + debtors*).

Given the definition for equity without worklist, starting capital diminishes during the formation stage because of the delay between acquiring orders and carrying out work. Equity would be higher in the end if there was no such delay or if the worklist were added to equity.

Expansion needs new capital

Balance	without	delay	with delay
as at 31/12	start	end	start end
cash	250	500	250 500
equity	250	500	500 1,000
profit per year	100	200	100 200
new capital	300	-	550 -

Fig. 4 Balance before and after expansion.

With delays, businesses need more new capital to expand. This must be found from external sources (e.g. venture capital or going public) or from within the business itself. In this case, the risk of failure will be higher because of fluctuations in cash.

Downsizing and closure create backflow

It can be beneficial to reduce the size of a flourishing business to recoup the starting capital.

Balance	without	delay	with de	elay
as at 31/12	start	end	start	end
cash	250	125	250	125
equity	250	125	500	250
profit per year	100	40	100	40
capital backflov	v -	230	-	356

Fig. 5 Balance before and after downsizing.

The backflow of capital is almost proportional to the equity including the worklist (= invested starting capital); it is higher for the business if there are delays.

Balance as at 31/12	without start	delay end	with de	elay end
cash	250	0	250	0
equity	250	0	500	0
profit per year	100	0	100	0
capital backflo	w -	500	-	750

Fig. 6 Balance before and after closure.

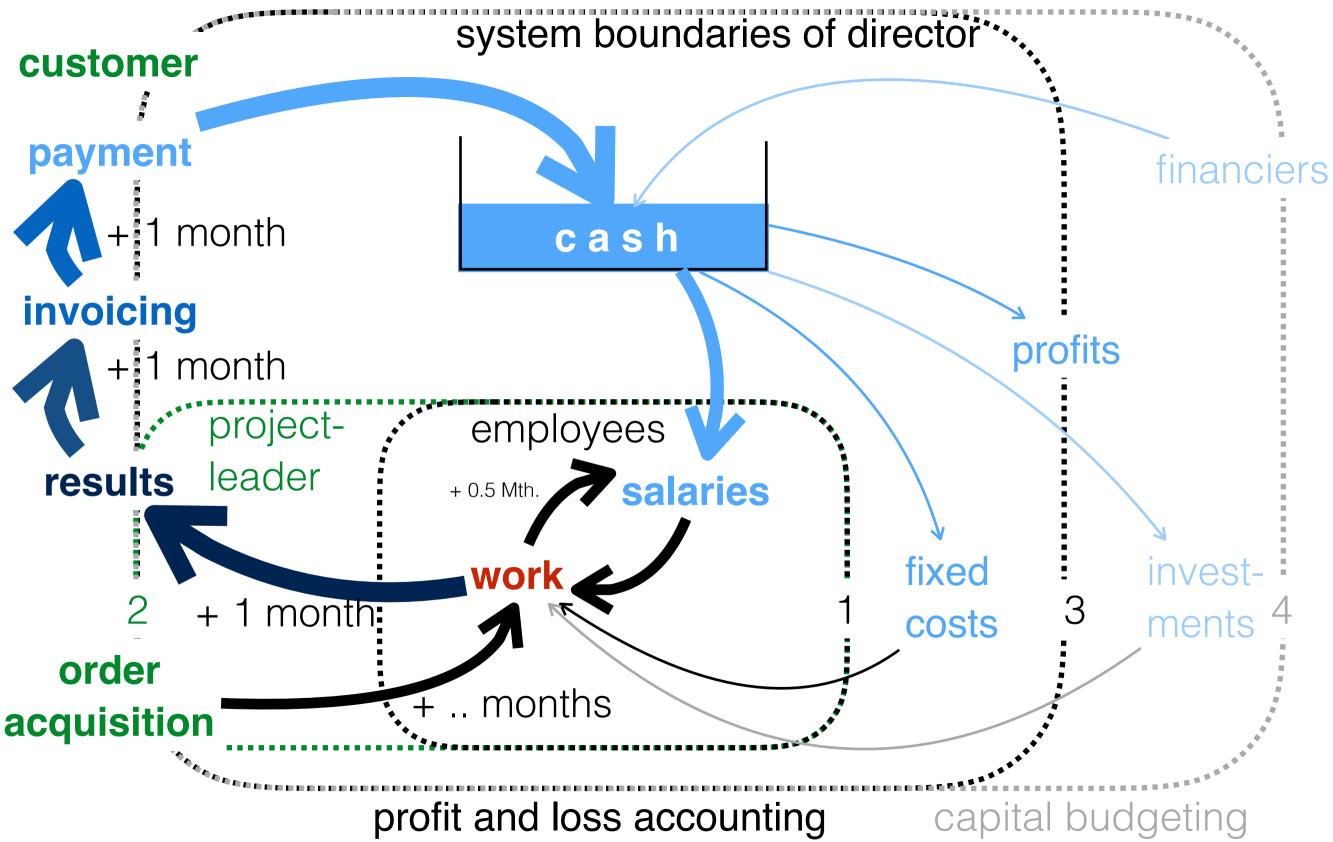
The capital backflow when shutting down is equal to equity including worklist. Note that this is only the case at a constant workload of 100 %, so the decrease in the number of employees and acquisition have to be closely coordinated. Otherwise, capital backflow may become negative, resulting in debt.

Serious trouble and the emergency brake

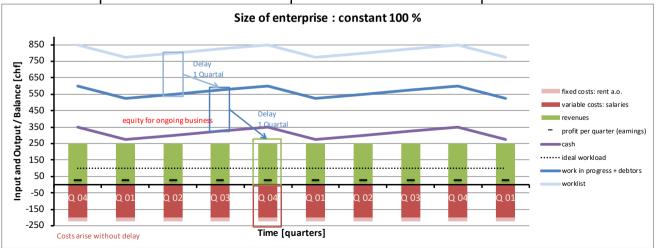
The board of directors should always be aware of imminent difficulties and take fast and firm action to avoid insolvency in case of problems. To avoid running out of cash, a suboptimal workload must be corrected by adequate downsizing or enforced (and successful!) acquisition.

Conclusion and practical benefit

To successfully direct a business through its life cycle, both of the following are needed: high precision work (accurate accounting and administration, etc.) and a navigator's perspective* of the big picture (a systems engineering view). Further discussions can be held about changes in delays during business as usual, etc. * i.e. a general overview for directors.

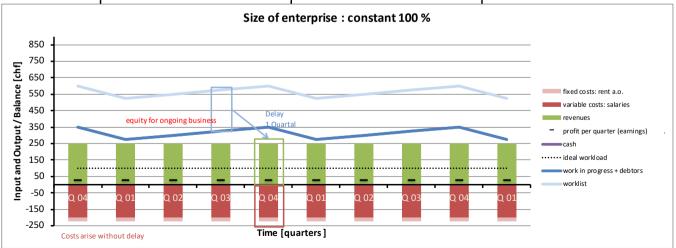


quarters Q size of enterprise [%] full time jobs	Q 01 Q 02 Q		business as ι business as ι business as Q 02 Q 03 Q 04		siness as ι bι Q 02	siness as ι b Q 03		year X+1 business as ι bi Q 01	usiness as ι bo Q 02	usiness as ι bι Q 03		year X+2 business as ι bu Q 01	siness as ι business as Q 02 Q 03	usual Q 04
	400	400 400	400	400	400	400	400	400	400	400	400	400		
ideal workload	100	100 100	100	100	100	100	100	100	100	100	100	100		
outstanding receivables	all data in [kchf]						1				1			
worklist		250 250	250	250	250	250	250	250	250	250	250	250		
worklist = contracts existing,		delay 1					ļ				1	de	ay 1	
work not done yet		quarter					- 1				1		arter	
work in progress + debtors		250	250	250	250	250	250	250	250	250	250	250	250	
			delay 1	work in progres	S		ł	debtors = invoi	ces sent to co	stumers	-		delay 1	
			guarter	this means wor	100		l	but not paid ye	t		- 1		quarter	
			quarter	not yet invoiced			l				- 1		quarter	
input and output (cash flow)	all data in [kchf]		250	250	250	250	250	250	250	250	250	250	250	1
revenues annual sales	=f(revenues)		250 1'000	250 1'000	250 1'000	250 1'000	250 1'000	250 1'000	250 1'000	250 1'000	250 1'000	250 1′000	250 250	1
variable costs: salaries	=f(no. of employees,	work load)	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200		
fixed costs: rent a.o.	-I(IIO. OF employees,	work load)	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25		
expenses	=Σ variable + fixed co	sts	-225	-225	-225	-225	-225	-225	-225	-225	-225	-225		
profit per quarter (earnings)	=revenues - expenses		25	25	25	25	25	25	25	25	25	25		
appropriation of earnings	=f(cash, minimaler Be	estand)		-100			1	-100			l	-100		
balance	all data in [kchf]						j				I			
minimum cash = 25 % of planned annu			250	250	250	250	250	250	250	250	250	250 * t	o be able to react to flu	uctuations
cash		325	350	275	300	325	350	275	300	325	350	275		
cash + work in progress + debtors	=∑		600	525	550	575	600	525	550	575	600	525		
cash + work i.p. + deb. + worklist	=∑		850	775	800	825	850	775	800	825	850	775		
							i				1			

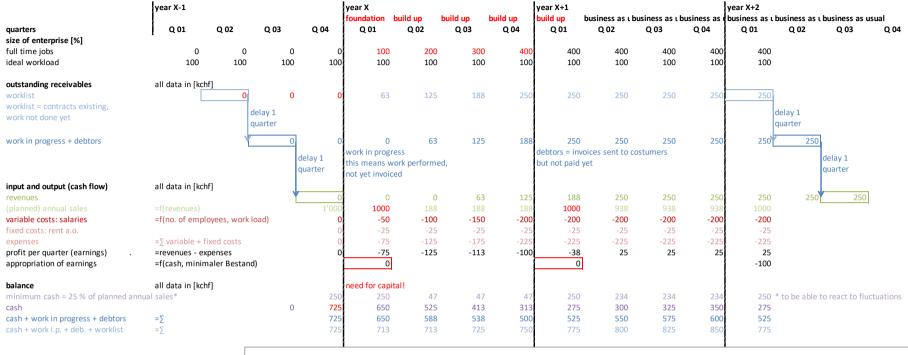


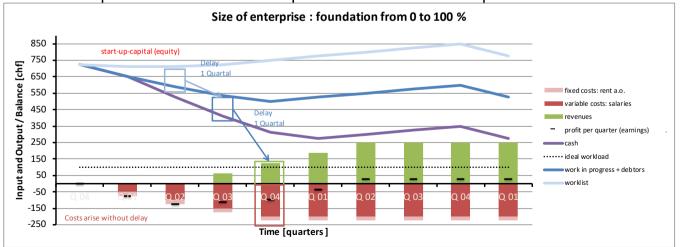
Business as usual with delay

quarters size of enterprise [%]	400 400		Q 03 Q 04		Q 02	as ı business as ı business as ı Q 03 Q 04		Q 01 Q 02		Q 03 Q 04		year X+2 business as ι Q 01		ess as usual 03 Q 04
full time jobs					400	400	400	400	400	400	400	400		
ideal workload	100	100	100 1	00 100	100	100	100	100	100	100	100	100		
outstanding receivables worklist worklist = contracts existing,	all data in [kch	f]	250 2 delay 1	50 250	250	250	250	250	250	250	250	250	delay 1	
work not done yet			quarter										quarter	
work in progress + debtors			0	0 0	0	0	0	0	0	0	0	0	0	
Arbeiten werden sofort in Rechnung				work in progr				debtors = invoi		stumers			work commenced p	
gestellt und bezahlt (Prinzip Barzahlung				not yet invoic	ork performed	,	1	but not paid ye	t				debtors are convert into cash immediat	
bei Coiffeur) input and output (cash flow)	all data in [kchi	f1		mot yet mvoic	eu		1						into casii iiiinediat	ery
revenues	ali uata ili [KCIII	']	2	50 250	250	250	250	250	250	250	250	250	250	
annual sales	=f(revenues)		1′0		1'000	1′000	1'000	1'000	1′000	1'000	1'000	1′000	250	
variable costs: salaries		oyees, work load)	-2		-200	-200	-200	-200	-200	-200	-200	-200		
fixed costs: rent a.o.			-	25 -25	-25	-25	-25	-25	-25	-25	-25	-25		
expenses	=∑ variable + fi	xed costs	-2	25 -225	-225	-225	-225	-225	-225	-225	-225	-225		
profit per quarter (earnings) .	=revenues - exp			25 25	25	25	25	25	25	25	25	25		
appropriation of earnings	=f(cash, minim	aler Bestand)		-100			i	-100			į	-100		
balance	all data in [kchi	fl					1							
minimum cash = 25 % of planned annua	•	•	2	50 250	250	250	250	250	250	250	250	250	* to be able to read	t to fluctuations
cash			325 3	50 275	300	325	350	275	300	325	350	275		
cash + work in progress + debtors	=∑		3	50 275	300	325	350	275	300	325	350	275		
cash + work i.p. + deb. + worklist	=∑		6	00 525	550	575	600	525	550	575	600	525		
							i				1			

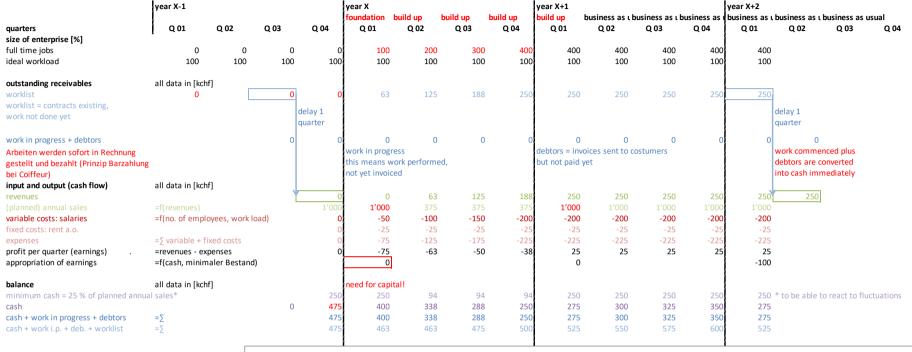


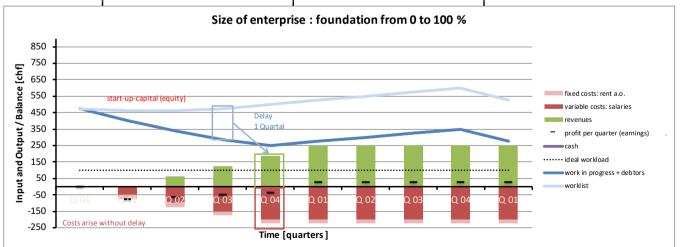
Business as usual without delay





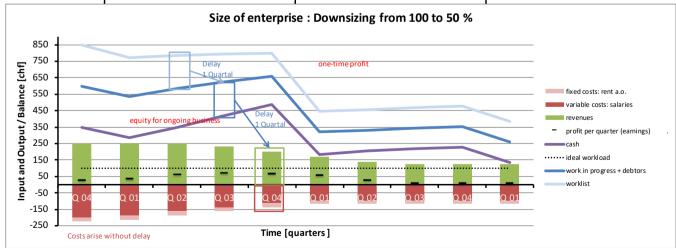
Formation with delay





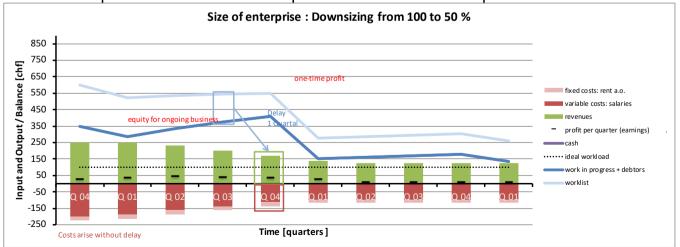
Formation without delay

quarters size of enterprise [%]	year X-1 business as ι business a Q 01 Q 02	s ι business as ι Q 03		year X downsizing Q 01	downsizing Q 02	downsizing Q 03		year X+1 downsizing Q 01	business as u Q 02	business as ι b Q 03		year X+2 business as ι b Q 01	usiness as ι business as Q 02 Q 03	usual Q 04
full time jobs	400 40	00 400	400	375	325	275	225	200	200	200	200	200		
ideal workload	100 10	00 100	100	100	100	100	100	100	100	100	100	100		
outstanding receivables	all data in [kchf]													
worklist	250 25	50 250	250	234	203	172	141	125	5 125	125	125	125		
worklist = contracts existing,														
work not done yet		delay 1 guarter						1					elay 1 uarter	
		quarter										٩	uarter	
work in progress + debtors		250	250	250	234	203	172			125	125	125	125	
			delay 1	work in progr					voices sent to o	costumers			delay 1	
			guarter	this means w		ed,		but not paid	d yet				guarter	
				not yet invoic	ed			ł					1	
input and output (cash flow)	all data in [kchf]		250	250	250	224	202	470		425	425	425	125	=1
revenues	-6/201000100	I	250 1000	250 1000	250 938					125 500	125 500	125 500	125 12	5
(planned) annual sales variable costs: salaries	=f(revenues) =f(no. of employees, we	ork load)	-200	-188	-163					-100	-100	-100		
fixed costs: rent a.o.	downsizing	ork idad)	-200	-25	-105					-100	-100 -15	-100		
expenses	=∑ variable + fixed costs	5	-225	-213	-188					-115	-115	-115		
profit per quarter (earnings) .	=revenues - expenses		25	38	63			1		10	10	10		
appropriation of earnings	=f(cash, minimaler Bes	tand)		-100				-363	3			-103		
								high revenu	getting back s	tarting capital	(293)	high revenu: ge	etting back starting cap	ital (63)
balance	all data in [kchf]							l						
minimum cash = 25 % of planned annua	al sales*		250	250	234	234	234	125	5 125	125	125	125 *	to be able to react to f	luctuations
cash		325	350	288	350			1		218	228	135		
cash + work in progress + debtors	=∑		600	538	584					343	353	260		
cash + work i.p. + deb. + worklist	=∑		850	772	788	797	800	448	3 458	468	478	385		
								<u> </u>						

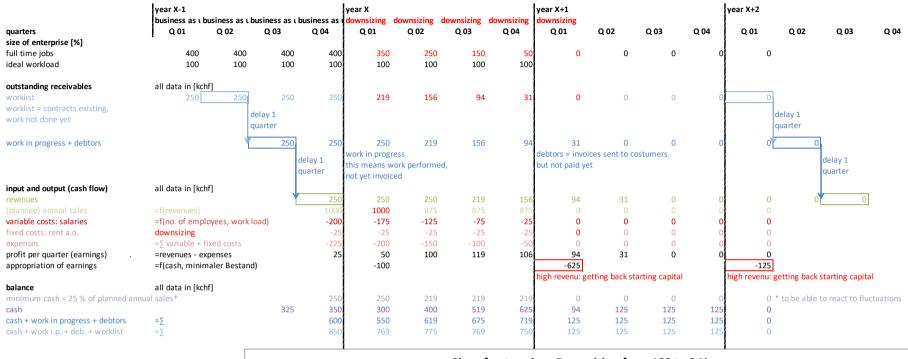


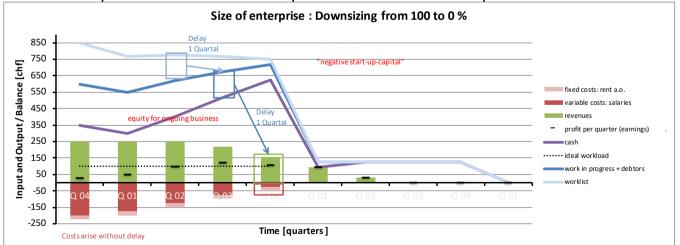
Downsizing with delay

quarters	year X-1 business as ι bu Q 01	ısiness as ι busine Q 02 Q	ess as ı business as 03 Q 04	year X downsizing Q 01	downsizing Q 02	downsizing Q 03		year X+1 downsizing Q 01	business as ul	business as ι b Q 03		year X+2 business as ι Q 01	business as ι b	usiness as us Q 03	sual Q 04
size of enterprise [%]	,		-		-	-	•	1	-	-			-	-	•
full time jobs	400	400	400 400	375	325	275	225	200	200	200	200	200			
ideal workload	100	100	100 10	100	100	100	100	100	100	100	100	100			
outstanding receivables	all data in [kchf	7						1							
worklist	an data in [KCIII	,	250 250	234	203	172	141	125	125	125	125	125			
worklist = contracts existing,	1		250	254	203	1,2	141	123	123	123	123				
work not done yet			delay 1	1				l				9	delay 1		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			quarter	1									quarter		
work in progress + debtors			0	0	0	0	0	0	0	0	0	0	0		
Arbeiten werden sofort in Rechnung				work in prog	ress			debtors = inv	oices sent to d	costumers		!	work commend	ed plus	
gestellt und bezahlt (Prinzip Barzahlung				this means v	vork perform	ed,		but not paid	yet			!	debtors are cor	verted	
bei Coiffeur)				not yet invoi	ced			1				į	into cash imme	ediately	
input and output (cash flow)	all data in [kchf]		1				i				1			
revenues			250	250	234	203	172	141	125	125	125	125	125		
annual sales	=f(revenues)		100	1′000	859	859	859	500	516	516	516	500			
variable costs: salaries	=f(no. of emplo	yees, work load)	-20	-188	-163	-138	-113	-100	-100	-100	-100	-100			
fixed costs: rent a.o.	downsizing		-2	t .	-25	-25	-25	-15	-15	-15	-15	-15			
expenses	=∑ variable + fix	xed costs	-22	-213	-188	-163	-138	-115	-115	-115	-115	-115			
profit per quarter (earnings) .	=revenues - exp		2:	-1		41	34		•	10	10	10			
appropriation of earnings	=f(cash, minim	aler Bestand)		-100				-284	4			-56			
		_		1				high revenu:	getting back s	tarting capital	l (214)	high revenu:	getting back sta	arting capita	l (16)
balance	all data in [kchf	.]													
minimum cash = 25 % of planned annua	l sales*		250							129	129		* to be able to	react to fluc	tuations
cash	_		325 350	1	334		409	1		171	181	135			
cash + work in progress + debtors	=∑		350		334		409			171	181	135			
cash + work i.p. + deb. + worklist	=∑		60	522	538	547	550	276	286	296	306	260			
				1				<u> </u>				i			
						C: of		Da	ai-ina fua	100 to	FO 9/				

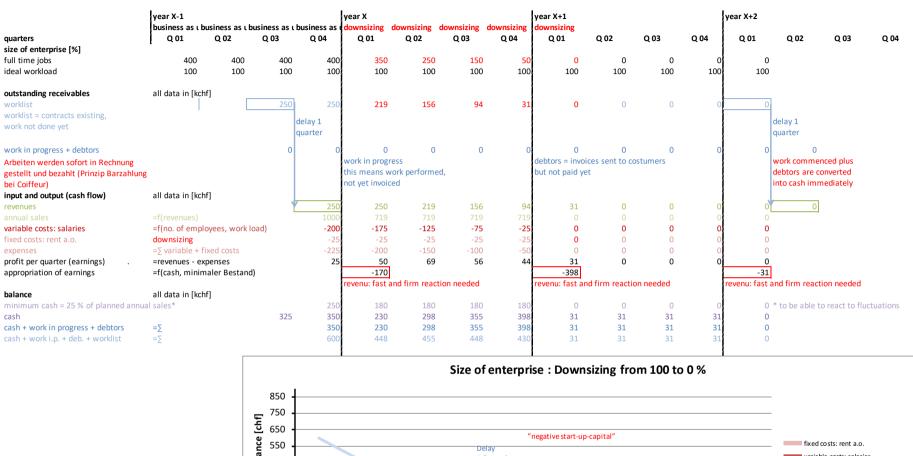


Downsizing without delay



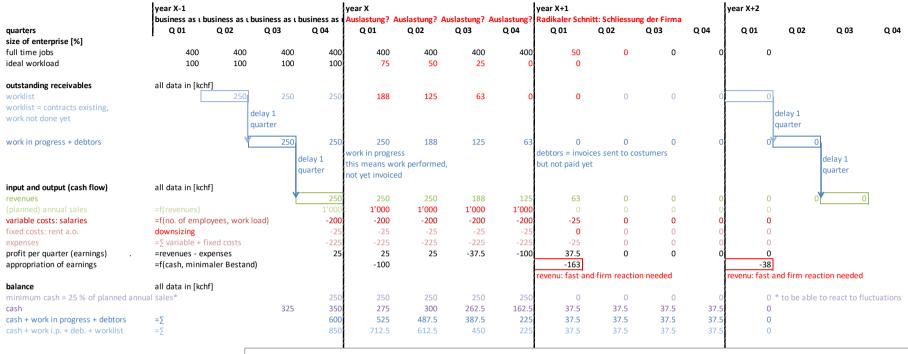


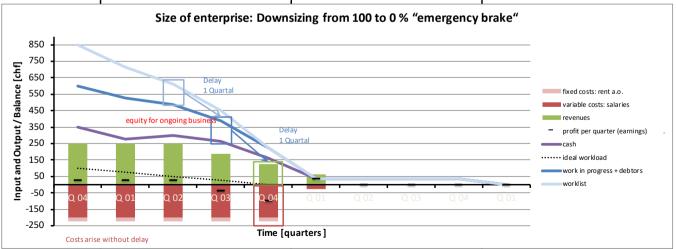
Closure with delay



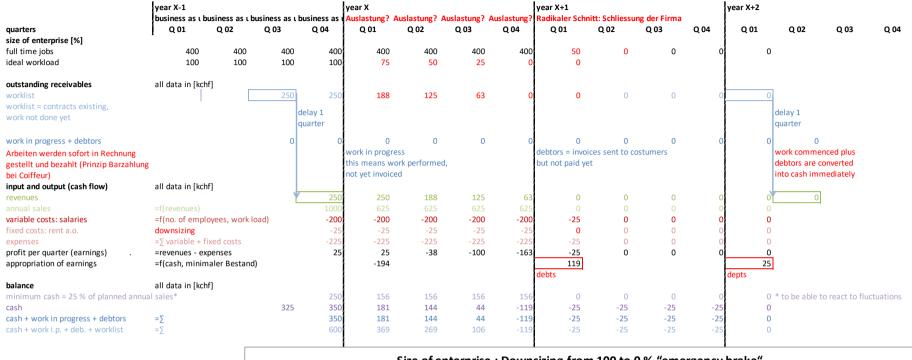
Closure without delay

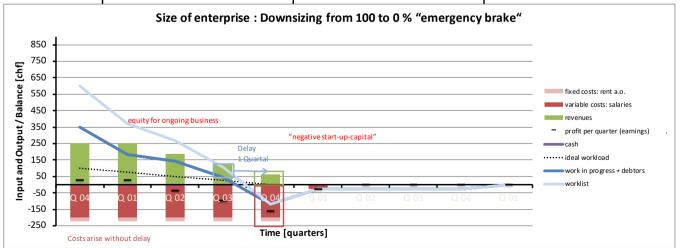
Balance variable costs: salaries 1 Quartal 450 revenues equity for ongoing business Input and Output/ 350 profit per quarter (earnings) 250 cash ····· ideal workload 150 work in progress + debtors 50 worklist -50 -150 -250 Time [quarters] Costs arise without delay





Closure due to serious trouble with delay

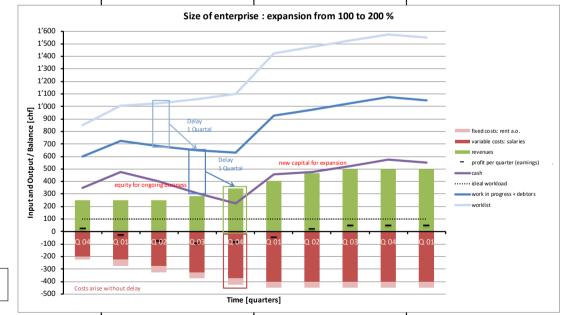




Closure due to serious trouble without delay

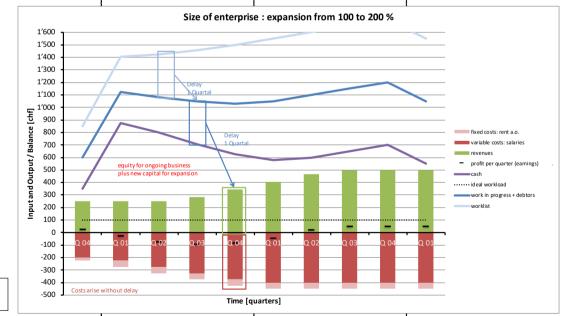
quarters size of enterprise [%] full time jobs	year X-1 business as t business as t b Q 01 Q 02	Q 03 400	ness as 1 Q 04 400	Q 01 450	Q 02 550	Q 03 650	expansion Q 04 750		Q 02	Q 03	Q 04 800	year X+2 business as ub Q 01	usiness as ι b Q 02	ousiness as us Q 03	ual Q 04
ideal workload	100 100	100	100	100	100	100	100	100	100	100	100	100			
outstanding receivables worklist worklist = contracts existing, work not done yet	The second secon	250 delay 1 quarter	250	281	344	406	469	500	500	500	500		elay 1 uarter		
work in progress + debtors	4	250 dela qua	rter	250 work in progr this means w not yet invoice	ork performe	344 ed,	406		voices sent to c	500 costumers	500	500	1.	lelay 1 Juarter	
input and output (cash flow)	all data in [kchf]	↓_						1			i		. ↓		
revenues			250	250	250		344			500	500	500	500	500	
(planned) annual sales	=f(revenues)		1000	2000	2000 -275	2000	2000	1		2000	2000	2000			
variable costs: salaries fixed costs: rent a.o.	=f(no. of employees, work I increase!	load)	- 200 -25	-225 -50	-2/5 -50		- 375 -50			- 400 -50	- 400 -50	- 400 -50			
expenses	=∑ variable + fixed costs		-225	-275	-325		-425	3		-450	-50 -450	-450			
profit per quarter (earnings) .	=revenues - expenses		25	-275	-75	-94	-425			50	-450 50	50			
appropriation of earnings	=f(cash, minimaler Bestand	4)	23	150	-73	-54	-01	275		30	30	-75			
appropriation of carrings	-i(casii, iiiiiiiiiiaici bestane	-1	ŀ	need for capi	tal: 150 I			need for cap			ŀ	need for capita	al: 125 I		
balance	all data in [kchf]			sum of neede		50 !		neca for cap			į	neca for capita	125 .		
minimum cash = 25 % of planned annua			250	500	500		500	500	500	500	500	500 *	to be able to	react to fluc	tuations
cash		325	350	475	400	306	225	456	475	525	575	550			
cash + work in progress + debtors	=Σ		600	725	681	650	631	925	975	1025	1075	1050			
cash + work i.p. + deb. + worklist	=Σ		850	1006	1025	1056	1100	1425	1475	1525	1575	1550			

with delay



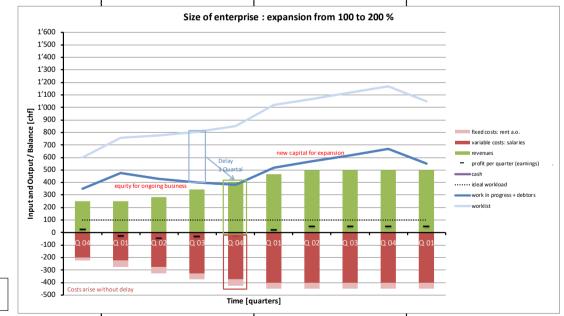
quarters size of enterprise [%] full time jobs	year X-1 business as a busine Q 01 Q 0			year X expansion Q 01 450	expansion Q 02	expansion Q 03		year X+1 expansion Q 01	business as us Q 02	ousiness as ι b Q 03		year X+2 business as ul Q 01 800	business as ι b Q 02	usiness as usi Q 03	ual Q 04
ideal workload	100	100 100	100	100	100	100	100	100	100	100	100	100			
outstanding receivables worklist worklist = contracts existing, work not done yet	all data in [kchf]	250 250 delay 1 quarter	250	281	344	406	469	500	500	500	500		delay 1 quarter		
work in progress + debtors			250 delay 1 quarter	250 work in progr this means w not yet invoice	ork performe	344 d,	406	1	voices sent to c	500 ostumers	500	500		elay 1 uarter	
input and output (cash flow) revenues	all data in [kchf]		250	250	250	281	344	406	469	500	500	500	500	500	
(planned) annual sales			1000	2000	2000	2000	2000	2000		2000	2000	2000	300	300	
variable costs: salaries	=f(no. of employees	s, work load)	-200	-225	-275	-325	-375	-400		-400	-400	-400			
fixed costs: rent a.o.	increase!		-25	-50	-50	-50	-50	-50	-50	-50	-50	-50			
expenses	=∑ variable + fixed o	costs	-225	-275	-325	-375	-425	-450	-450	-450	-450	-450			
profit per quarter (earnings) . appropriation of earnings	=revenues - expense =f(cash, minimaler		25	-25 0	-75	-94	-81	-44 0	. 19	50	50	50 -200			
balance	all data in [kchf]			need for capi	tal = 550 !			1			ļ				
minimum cash = 25 % of planned annu	al sales*		250	500	500	500	500	500	500	500	500	500	* to be able to	react to fluct	uations
cash		325	350	875	800	706	625	581	600	650	700	550			
cash + work in progress + debtors	=Σ		600	1125	1081	1050	1031	1050	1100	1150	1200	1050			
cash + work i.p. + deb. + worklist	=∑		850	1406	1425	1456	1500	1550	1600	1650	1700	1550			

with delay



quarters size of enterprise [%] full time jobs ideal workload	year X-1 business as ι business as Q 01 Q 02 400 400 100 100	Q 03		ear X epansion e Q 01 450 100	expansion Q 02 550 100	expansion Q 03 650 100			Q 02 800	Q 03		year X+2 business as u Q 01 800 100	business as ι busin Q 02		04
outstanding receivables worklist worklist = contracts existing, work not done yet	all data in [kchf]	250 del	250) ay 1 arter	281	344	406	469	500		500	500	500	delay 1 quarter		
work in progress + debtors		0	th	0 ork in progre is means wo ot yet invoice	ork performe	0 d,	0	0 debtors = in but not paid	voices sent to c	0 ostumers	0		0 work commenced debtors are conve into cash immedia	rted	
input and output (cash flow) revenues (planned) annual sales	all data in [kchf] =f(revenues)	V	250 1000	250 2000	281 2000	344 2000	406 2000			500 2000	500 2000	500 2000	500		
variable costs: salaries	=f(no. of employees, wor	rk load)	-200	-225	-275	-325	-375			-400	-400	-400			
fixed costs: rent a.o. expenses	increase! =∑ variable + fixed costs		-25 -225	-50 -275	-50 -325	-50 -375	-50 -425	1		-50 -450	-50 -450	-50 -450			
profit per quarter (earnings) . appropriation of earnings	=revenues - expenses =f(cash, minimaler Besta	and)	25	-25 150 eed for capita	-44	-31	-19		50	50	50	50 -169 need for capi	tal: 311		
balance	all data in [kchf]			m of needed		00 !]				
minimum cash = 25 % of planned annu cash cash + work in progress + debtors cash + work i.p. + deb. + worklist	al sales* =∑ =∑	325	250 350 350 600	500 475 475 756	500 431 431 775	500 400 400 806	500 381 381 850	519 519	569 569	500 619 619 1119	500 669 669 1169	500 550 550 1050	* to be able to rea	ect to fluctuation	ons

without delay



quarters size of enterprise [%]	•	Q 03 Q 0		Q 02	expansion Q 03	expansion Q 04	year X+1 expansion Q 01	Q 02	ousiness as ι b Q 03	ousiness as (Q 04	year X+2 business as u Q 01	business as ι busines Q 02 Q 0	
full time jobs ideal workload	400 400 100 100	400 100	100 10						800 100	800 100	100		
ideal Worldood	100 100	100	100	.0	. 100	100	1 200	100	100	200	100		
outstanding receivables worklist worklist = contracts existing, work not done yet	all data in [kchf]	250 delay 1		344	406	469	500	500	500	500		delay 1	
work in progress + debtors		quarter 0	0 work in pr	0 () 0	0	0 debtors = in	0 voices sent to c	0 ostumers	0	0	quarter 0 work commenced pl	us
in the second and second (second files)	all data in Nation			work perform	ed,		but not paid	yet				debtors are converte into cash immediate	
input and output (cash flow) revenues	all data in [kchf]	↓	250 25	50 281	344	406	469	500	500	500	500	500	
(planned) annual sales			1000 200						2000	2000	2000	300	
variable costs: salaries	=f(no. of employees, work loa	d)	-200 -22	.5 -275	-325	-375	-400	-400	-400	-400	-400		
fixed costs: rent a.o.	increase!		-25	i 0 -50	-50	-50	-50	-50	-50	-50	-50		
expenses	=∑ variable + fixed costs		-225 -27	′5 -325				-450	-450	-450	-450		
profit per quarter (earnings) . appropriation of earnings	=revenues - expenses =f(cash, minimaler Bestand)		25 -2	25 -44 0	-31	-19	19 0	50	50	50	50 -200		
balance	all data in [kchf]	need for capital = 300 !											
minimum cash = 25 % of planned annu	al sales*		250 50	00 500	500	500	500	500	500	500	500	* to be able to react	to fluctuations
cash		325	350 62						650	700	550		
cash + work in progress + debtors	=∑		350 62	.5 581	550	531	550	600	650	700	550		
cash + work i.p. + deb. + worklist	=Σ		600 90	925	956	1000	1050	1100	1150	1200	1050		

without delay

