MoDKa Electronic book library

Bringing youths back to books

Presenters

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Order of presentation

- Introduction
- Problem and solution
- Market and customers
- Competition
- Calculation of investments
- Total costs
- Self costs
- Price definition
- Cash flow and return on equity(10 years)
- Conclusion

Introduction

Idea: electronic library – stationary and rentable

- Some important details on various subjects, topics and case studies are only found in books and special magazines and newspapers
- The number of books needed for standard referencing increase yearly
- In Cameroon, most libraries are not well equipped because of the high shipping and storage costs
- 21st century concepts: faster, lighter, smaller, easier and affordable

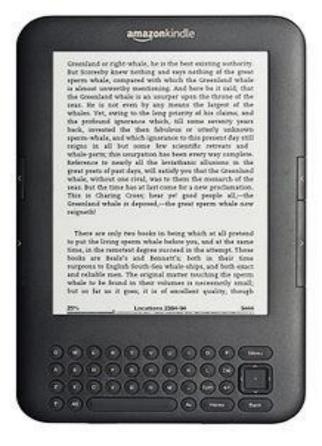
Problem

- The interest in carrying these books around the "constantly moving world" is reducing drastically
- Cameroonian libraries need cost-effective ways of acquiring the necessary number of books, magazines and reference articles especially for schools and universities
- Libraries on the other hand have to be modernised, so that the youth can be drawn back to books

Solution

Electronic books on electronic book

readers



Market and customers

- Bamenda, Cameroon. Population of about 269,530
- Almost all children between ages of 10 and 14 years go to school
- Numerous secondary and vocational schools and colleges.
- Numerous schools of higher education
 Bamenda University of Science & Technology,
 Catholic University of Cameroon-Bamenda, St.
 Thomas Aquinas Regional Major Seminary e.t.c.
- Adult literacy rate: > 70%

Competition

- British council Library, Bamenda Books and games for kids
 Novels for youths
- Bookshops
 New school text books
 Second hand school text books
 Second hand magazines and Newspapers
- Exchange stores
 Exchange of school books "in-hand" with "needed" school books

Competitive Advantage

Advantages of an electronic book library

- Number of books
- Range of books and subjects
- Weight and size advantage
- Storage costs
- Personnel costs
- Timesaving

Calculation of investments

investment and depreciation							
investment goods	Expenditure in €	Depr. in %	Depr. Costs in €				
Rents	1832	0	0				
registration of business	3108	0	0				
Electricity	16427	4	657				
Additional charges (Water,)	916	2	18				
E-book reader	83600	20	16720				
E-book purchase	3500000	0	0				
EAS-security system	2300	20	460				
Transport equipment	10000	20	2000				
Forniture	4641	10	464.1				
Unforeseen	1527	0	0				
Total expenditure:	3624351						
Total depreciation:			20319.5				

Calculation of costs

- Personnel
 - 3 Partners
 - 6 trained staff
 - 2 guards
 - I cleaner
 - I driver
- Furniture
- Security

Total costs

investment goods	Expenditure in €	
labour costs	85727	
administrative costs	2748	
marketing costs	1527	
Total investment:	3714353	
10% own capital:	371435.3	
90% outside financing:	3342917.7	

Financing costs

Year	Balance of debt	interest rate in %	interest costs paid p.a.	paying back loan p.a.
1	3342917.7	11	367720.95	334291.77
2	3008625.93	11	330948.85	334291.77
3	2674334.16	11	294176.76	334291.77
4	2340042.39	11	257404.66	334291.77
5	2005750.62	11	220632.57	334291.77
6	1671458.85	11	183860.47	334291.77
7	1337167.08	11	147088.38	334291.77
8	1002875.31	11	110316.28	334291.77
9	668583.54	11	73544.19	334291.77
10	334291.77	11	36772.09	334291.77
	Total interest paid		2,022,465€	
Total repayment				3,342,918€

Self costs

	costs per year				
	year 1	year 2	year 3		
Library cards for L.P*	5%	6%	7%		
Library Cards for L.P	9434	11320	13207		
E-book readers to let	750	800	850		
E-book readers in library	250	250	250		
Total:	1000	1050	1100		
costs					
depreciation costs	20,320€	21,156€	21,992€		
financing costs	367,721€	330,949€	294,177€		
labour costs	85,727€	85,727€	85,727€		
utilities costs	4,275€	4,275€	4,275€		
total costs:	478,042 €	442,106€	406,170€		

L.P*= literate population of Bamenda (70%); Population of Bamenda= 269530

Self costs

self costs for 10 years

year	Library cards for L.P.	depreciation costs	financing costs	labour costs	utilities costs	sum of costs
1	9434	20,320€	367,721€	85,727€	4,275€	478,042€
2	11320	21,156€	330,949€	85,727€	4,275€	442,106€
3	13207	21,992€	294,177€	85,727€	4,275€	406,170€
4	15094	22,828€	257,405€	85,727€	4,275€	370,234€
5	16980	23,664€	220,633€	85,727€	4,275€	334,298€
6	18867	24,500€	183,860€	85,727€	4,275€	298,362€
7	18867	25,336€	147,088€	85,727€	4,275€	262,426€
8	18867	26,172€	110,316€	85,727€	4,275€	226,490€
9	18867	27,008€	73,544€	85,727€	4,275€	190,554€
10	18867	27,844€	36,772€	85,727€	4,275€	154,618€

Price definition and turnover

Year one

- 1000 E-book readers 1400 books per Ebook reader
- 250 E-books for the library
- 750 E-books to be rented by universities and schools

Prices

- One library card p.a. = 18.32 €
- One e-book reader p.a. = 1025.95 €

Turnover / revenue

year	library cards		turnover - cards	E-readers	turnover - Readers	total revenue
1	5% of L.P	9434	172828.40	750	769465.65	942294.05
2	6% of L.P	11320	207394.08	800	820763.36	1028157.44
3	7% of L.P	13207	241959.76	850	872061.07	1114020.82
4	8% of L.P	15094	276525.44	900	923358.78	1199884.21
5	9% of L.P	16980	311091.11	950	974656.49	1285747.60
6	10% of L.P	18867	345656.79	1000	1025954.20	1371610.99
7	10% of L.P	18867	345656.79	1050	1077251.91	1422908.70
8	10% of L.P	18867	345656.79	1100	1128549.62	1474206.41
9	10% of L.P	18867	345656.79	1150	1179847.33	1525504.12
10	10% of L.P	18867	345656.79	1200	1231145.04	1576801.83

Cash flow

	year 1	year 2
turnover revenue	942,294€	1,028,157€
depreciation costs	20,320€	21,156€
financing costs	367,721€	330,949€
labour costs	85,727€	85,727€
utilities costs	4,275€	4,275€
loss carried forward		0€
profit before tax	464,252€	586,051€
Taxes (38.5%)	178,737€	225,630€
profit ofter toyes	20F F1F 6	260 421 6
profit after taxes	285,515€	360,421€
Cash-flow	305,834€	381,577€
repayment credit	334,291.77€	334,291.77 €
dividend	-28,457.54€	47,285.15€

Cash flow

year	1	2	3	4	5	6	7	8	9	10
turnover revenue	942,294.0€	1,028,157.4€	1,114,020.8€	1,199,884.2€	1,285,747.6€	1,371,611.0€	1,422,908.7€	1,474,206.4€	1,525,504.1€	1,576,801.8€
depreciation costs	20,319.5€	21,155.5€	21,991.5€	22,827.5€	23,663.5€	24,499.5€	25,335.5€	26,171.5€	27,007.5€	27,843.5€
financing costs	367,721.0€	330,948.9€	294,176.8€	257,404.7€	220,632.6€	183,860.5€	147,088.4€	110,316.3€	73,544.2€	36,772.1€
labour costs	85,727.0€	85,727.0€	85,727.0€	85,727.0€	85,727.0€	85,727.0€	85,727.0€	85,727.0€	85,727.0€	85,727.0€
utilities costs	4,275.0€	4,275.0€	4,275.0€	4,275.0€	4,275.0€	4,275.0€	4,275.0€	4,275.0€	4,275.0€	4,275.0€
loss carried forward		0.0€	0.0€	0.0€	0.0€	0.0€	0.0€	0.0€	0.0€	0.0€
profit before tax	464,251.6€	586,051.1€	707,850.6€	829,650.1€	951,449.5€	1,073,249.0€	1,160,482.8€	1,247,716.6€	1,334,950.4€	1,422,184.2€
Taxes (38.5%)	178,736.9€	225,629.7€	272,522.5€	319,415.3€	366,308.1€	413,200.9€	446,785.9€	480,370.9€	513,955.9€	547,540.9€
profit after taxes	285,514.7€	360,421.4€	435,328.1€	510,234.8€	585,141.5€	660,048.1€	713,696.9€	767,345.7€	820,994.5€	874,643.3€
Cash-flow	305,834.2€	381,576.9€	457,319.6€	533,062.3€	608,805.0€	684,547.6€	739,032.4€	793,517.2€	848,002.0€	902,486.8€
repayment credit	334,291.8€	334,291.8€	334,291.8€	334,291.8€	334,291.8€	334,291.8€	334,291.8€	334,291.8€	334,291.8€	334,291.8€
dividend	-28,457.5€	47,285.1€	123,027.8€	198,770.5€	274,513.2€	350,255.9€	404,740.7€	459,225.5€	513,710.2€	568,195.0€

Total dividend = 2,911,266.42 €

Return on equity

Equity	Dividend	Interest made on equity			
371435.3	-28457.5	-7.7 %	year 1		
371435.3	47285.1	12.7%	year 2		
371435.3	123027.8	33.1%	year 3		
371435.3	198770.5	53.5%	year 4		
371435.3	274513.2	73.9%	year 5		
371435.3	350255.9	94.3%	year 6		
371435.3	404740.7	109.0%	year 7		
371435.3	459225.5	123.6%	year 8		
371435.3	513710.2	138.3%	year 9		
371435.3	568195.0	153.0%	year 10		

Conclusion

- Financially profitable business
- Advantageous to:
 students, pupils grades, general knowledge
 parents and community
 government employment and literacy rates
- Potential growthRegions, subjects, topics

Dutch proverb

Teachers die, but books live on

Thank you!