1. APPENDIX

Excel picture 1. Income Statement of Netflix

P&L source

31Dec2015	31Dec2016	31Dec2017
Act	Act	Act
6 780	8 831	11 693
(4 591)	(6 030)	(7 660)
2 188	2 801	4 033
32,3%	31,7%	34,5%
(824)	(991)	(1 278)
(651)	(852)	(1 053)
(407)	(578)	(864)
(1 882)	(2 421)	(3 194)
306	380	839
(133)	(150)	(238)
(31)	31	(115)
141,9	260,5	485,3
(19)	(74)	74
123	187	559
0,29	0,44	1,29
0,28	0,43	1,25
426	429	432
436	439	447
	Act 6 780 (4 591) 2 188 32,3% (824) (651) (407) (1 882) 306 (133) (31) 141,9 (19) 123 0,29 0,28 426	Act Act 6 780 8 831 (4 591) (6 030) 2 188 2 801 32,3% 31,7% (824) (991) (651) (852) (407) (578) (1 882) (2 421) 306 380 (133) (150) (31) 31 141,9 260,5 (19) (74) 123 187 0,29 0,44 0,28 0,43 426 429

Excel picture 2. Balance Sheet of Netflix

BS source

	31Dec15	31Dec16	31Dec17
USD in millions, exc. Share & per share	Act	Act	Ac
Assets			
current assets:		_	
cash and cash equivalents	1 809	1 468	2 823
short-term invetments	501	266	-
current content assets, net	2 906	3 726	4 311
other current assets	215	260	536
total current assets	5 432	5 720	7 670
non-current content assets, net	4 313	7 275	10 371
preperty and equipment, net	173	250	319
other non-current assets	285	341	652
total non-current assets	4 771,0	7 866,3	11 342,8
total assets	10 203	13 587	19 013
Liabilities and Stockholders' Equity			
current liabilities:			
current content liabilities	2 789	3 633	4 173
accounts payable	253	313	360
accrued expenses	140	198	315
deferred revenue	346,7	443,5	618,6
total current liabilities	3 529,6	4 586,7	5 466,3
non-current content liabilities	2 026,4	2 894,7	3 329,8
long-term debt	2 371,4	3 364,3	6 499,4
other non-current liabilities	52,1	61,2	135,2
total non-current liabilities	4 449,8	6 320,2	9 964,5
total liabilities	7 979,4	10 906,8	15 430,8
commitments and contingencies (note 5)			
stockholders' equity:			
preferred stock, \$0,001 par value; 10mln sha	-	-	-
common stock, \$0,001 par value; 4,990mln s	1 324,8	1 599,8	1 871,4
accumulated other comprehensive loss	(43,3)	(48,6)	(20,6
retained earnings	941,9	1 128,6	1 731,1
total stockholders' equity	2 223,4	2 679,8	3 582,0
total liabilities and stockholders' equity	10 202,9	13 586,6	19 012,7

Excel picture 3. Cash Flow Statement of Netflix, cash flows from operations and investing.

CF source

USD in millions	31Dec15 Act	31Dec16 Act	31Dec17 Act
cash flows from operating activities:			
net income	123	187	559
adj. to reconcile net income to net cash used in operating acti	vities:		
additions to streaming content assets	-5 772	-8 653	-9 806
change in streaming content liabilities	1 162	1773	900
amortization of streaming content assets	3 405	4 788	6 198
amortization of DVD content assets	79	79	61
D&A of property, equipment and intangibles	62	58	72
stock-based compensation expense	125	174	182
excess tax benefits from stock-based compensation	-80	-65	0
other non-cash items	32	41	57
foreign currency remeasurement loss on long-term debt	0	0	141
deferred taxes	-59	-47	-209
changes in operating assets and liabilities:			
other current assets	19	47	-234
accounts payable	52	32	75
accrued expenses	49	69	114
deferred revenue	72	97	178
other non-current assets and liabilities	-18	-52	-74
net cash used in operating activities	-749	-1 474	-1 786
cash flows from investing activities:			
acquisitions of DVD content assets	-78	-77	-54
purchase of property and equipment	-91	-108	-173
other assets	-2	-1	-7
purchase of short-term investments	-372	-187	-75
proceeds from sale of short-term investments	259	282	320
proceeds from maturities of short-term investments	105	140	23
net cash provided by (used in) investing activities	-179	50	34

Excel picture 4. Cash Flow Statement of Netflix, cash flows from financing activities

cash flows from financing activities:			
proceeds from issuance of debt	1 500	1 000	3 0 2 1
issuance costs	-18	-11	-32
proceeds from issuance of common stock	78	37	88
excess tax benefits from stock-based compensation	80	65	0
other financing activities	-1	0	0
net cash provided by financing activities	1 640	1 0 9 2	3 077
effect of exchange rate changes on cash and cash equivalents	-16	-9	30
net increase (decrease0 in cash and cash equivalents	696	-342	1 355
cash and cash equivalents, beginning of year	1 1 1 4	1 809	1 468
cash and cash equivalents, end of year	1 809	1 468	2 823
supplemental disclosure:			
income taxes paid	28	27	114
interest paid	112	139	213
increase (decrease) in investing activities included in liabiliti	-5	28	-33

Excel picture 5. Main income statement line item projections of Netflix

P&L assumptions				Case scenarios:				
Selected case	1			Case 1: Optimistic o Case 2: Base case Case 3: Worst case				
\$ in millions	FY15 Actual	FY16 Actual	FY17 Actual	FY18 Forecast	FY19 Forecast	FY20 Forecast	FY21 Forecast	FY22 Forecast
Revenues	6 780	8 831	11 693	15 551	20 839	28 132	37 697	50 137
y-o-y growth %	-	30,3%	32,4%	33%	34%	35%	34%	33%
Case 1			02,170	33%	34%	35%	34%	33%
Case 2								
Case 3								
Other revenues	-	-	-		-	-	-	-
y-o-y growth %	0%	0%	0%	0%	0%	0%	0%	0%
Case 1				0%	0%	0%	0%	0%
Case 2								
Case 3								
Cost of goods sold	(1 328)	(1 378)	(1 594)	(1 711)	(1 875)	(2 251)	(2 450)	(2 758)
% of revenues	-20%	-16%	-14%	-11%	-9%	-8%	-7%	-6%
Case 1				-11%	-9%	-8%	-7%	-6%
Case 2								
Case 3								
Operating expenses	(1 882)	(2 421)	(3 194)	(4 199)	(5 626)	(7 596)	(10 178)	(13 537)
% of revenues	-28%	-27%	-27%	-27%	-27%	-27%	-27%	-27%
Case 1				-27,0%	-27,0%	-27,0%	-27,0%	-27,0%
Case 2								
Case 3								
D&A	(3 547)	(4 925)	(6 330)	(8 398)	(11 253)	(15 191)	(20 357)	(27 074)
% of revenues	-52%	-56%	-54%	-54%	-54%	-54%	-54%	-54%
Case 1				-54%	-54%	-54%	-54%	-54%
Case 2								
Case 3								
Interest expenses	(133)	(150)	(238)	(262)	(288)	(317)	(349)	(384)
y-o-y growth %	-	13,1%	58,7%	10%	10%	10%	10%	10%
Case 1				10%	10%	10%	10%	10%
Case 2								
Case 3								
Extraordinary items	(31)	31	(115)	-	-	-	-	-
% of revenues	0%	0%	-1%	0%	0%	0%	0%	0%
Case 1				0%	0%	0%	0%	0%
Case 2								
Case 3								
Taxes	(19)	(74)	74					
% of EBT	14%	593%	33%	-21%	-21%	-21%	-21%	-21%
Case 1				-21%	-21%	-21%	-21%	-21%
Case 2 Case 3								
Udse 3								

Excel picture 6. Main balance sheet line item projections of Netflix

BS assumptions								
\$ in millions	FY15 Actual	FY16 Actual	FY17 Actual	FY18 Forecast	FY19 Forecast	FY20 Forecast	FY21 Forecast	FY22 Forecast
Trade receivable	-	-	-	-	-	-	-	-
Days receivables (DSO)	-	-	-		-	-	-	-
Inventory	-	-		-		-	-	
Days inventory (DIO)	-	-	-	-	-	-	-	-
Trade payable	253	313	360	367	402	483	525	591
Days payables (DPO)	68,7	81,7	81,2	77,2	77,2	77,2	77,2	77,2
PP&E	4 486	7 525	10 690	12 587	16 867	22 770	30 512	40 580
as a % of revenues	66,2%	85,2%	91,4%	80,9%	80,9%	80,9%	80,9%	80,9%
Other assets	500	602	1 189	1 262	1 692	2 284	3 060	4 070
as a % of revenues	7,4%	6,8%	10,2%	8,1%	8,1%	8,1%	8,1%	8,1%
Other liabilities	4 867	6 589	7 638	10 976	14 707	19 855	26 606	35 385
as a % of revenues	71,8%	74,6%	65,3%	70,6%	70,6%	70,6%	70,6%	70,6%

P&L assumptions

Excel picture 7. Income Statement output model, historical and forecasted

P&L

\$ in millions	FY15 Actual	FY16 Actual	FY17 Actual	FY18 Forecast	FY19 Forecast	FY20 Forecast	FY21 Forecast	FY22 Forecast
Revenues	6 780	8 831	11 693	15 551	20 839	28 132	37 697	50 137
Other revenues	-	-	-	-	-	-	-	-
Total Revenues	6 780	8 831	11 693	15 551	20 839	28 132	37 697	50 137
Cost of goods sold	(1 328)	(1 378)	(1 594)	(1 711)	(1 875)	(2 251)	(2 450)	(2 758)
Gross Margin	5 452	7 453	10 098	13 841	18 963	25 882	35 247	47 380
Operating expenses	(1 882)	(2 421)	(3 194)	(4 199)	(5 626)	(7 596)	(10 178)	(13 537)
EBITDA	3 570	5 032	6 904	9 642	13 337	18 286	25 069	33 843
D&A	(3 547)	(4 925)	(6 330)	(8 398)	(11 253)	(15 191)	(20 357)	(27 074)
EBIT	23	107	574	1 244	2 084	3 095	4 712	6 769
Interest expenses	(133)	(150)	(238)	(262)	(288)	(317)	(349)	(384)
Extraordinary items	(31)	31	(115)	-	-	-	-	-
EBT	(141)	(12)	220	982	1 796	2 778	4 363	6 385
Taxes	(19)	(74)	74	(206)	(377)	(583)	(916)	(1 341)
Tax rate	14%	593%	33%	-21%	-21%	-21%	-21%	-21%
Net Income	(161)	(86)	294	776	1 419	2 194	3 447	5 044

Excel picture 8. Balance Sheet output model, historical and forecasted

Balance Sheet								
\$ in millions	FY15 Actual	FY16 Actual	FY17 Actual	FY18 Forecast	FY19 Forecast	FY20 Forecast	FY21 Forecast	FY22 Forecast
Intangible assets PP&E	2 906 4 486	3 726 7 525	4 311 10 690	4 311 12 587	4 311 16 867	4 311 22 770	4 311 30 512	4 311 40 580
Financial assets Inventory	501 -	266	-		-	-	-	-
Trade receivable Other assets	- 500	- 602	- 1 189	- 1 262	- 1 692	- 2 284	- 3 060	- 4 070
Cash and equivalents	1 809	1 468	2 823	4 973	5 450	6 377	8 099	10 911
Total Assets	10 203	13 587	19 013	23 133	28 319	35 741	45 982	59 872
Trade payable Other liabilities	253 4 867	313 6 589	360 7 638	367 10 976	402 14 707	483 19 855	525 26 606	591 35 385
Financial liabilities	2 858	4 005	7 433	7 433	7 433	7 433	7 433	7 433
Shareholders' equity Total Liabilities & Equities	2 223 10 203	2 680 13 587	3 582	4 358 23 133	5 776 28 319	7 971 35 741	11 418 45 982	16 462 59 872

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Excel picture 9. Forecasted cash flows of Netflix

Cash Flow

		FY16	FY17	FY18	FY19	FY20	FY21	FY22
\$ in millions		Actual	Actual	Forecast	Forecast	Forecast	Forecast	Forecast
EBIT	P&L	107	574	1 244	2 084	3 095	4 712	6 769
Operating taxes	P&L	633	192	(261)	(438)	(650)	(990)	(1 421)
Operating tax rate		593%	33%	-21%	-21%	-21%	-21%	-21%
NOPAT		740	765	983	1 646	2 445	3 723	5 347
Add-back D&A	P&L	4 925	6 330	8 398	11 253	15 191	20 357	27 074
Gross Cash Flow		5 665	7 096	9 381	12 899	17 636	24 079	32 421
Inventory	BS	-	-	-	-	-	-	-
Trade receivables	BS	-	-	-	-	-	-	-
Trade payables	BS	59	47	7	35	80	43	66
Investments in working capital		59	47	7	35	80	43	66
Investments in other assets/liabilities	BS	1 619	463	3 264	3 303	4 556	5 974	7 770
Capex	BS	(7 964)	(9 496)	(10 294)	(15 532)	(21 095)	(28 098)	(37 143)
Other investments	BS	(585)	(318)		-	-	-	-
Extraordinary items	P&L	31	(115)		-	-	-	-
UFCF		(1 174)	(2 325)	2 357	705	1 177	1 998	3 114
Interest expenses	P&L	(150)	(238)	(262)	(288)	(317)	(349)	(384)
Delta Oper taxes vs. Taxes	P&L	(707)	(118,1)	55	61	67	73	81
Delta Financial liabilities	BS	1 147	3 428		-			
Delta Equity incl. dividends	BS, P&L	543	608		-	-	-	-
Net Cash Flow		(342)	1 355	2 150	477	927	1 722	2 811
Onering and		1 800	1 468	2 823	4 973	5 450	6 277	8 099
Opening cash		1 809					6 377	
Closing cash		1 468	2 823	4 973	5 450	6 377	8 099	10 911
Check		1 468	2 822,8	4 973	5 450	6 377	8 099	10 911
		-	-	-	-	-	-	-

Excel picture 10. Classic DCF Valuation of Netflix

DCF Valuation

12,3% 3,9%			1.0	2.0	3.0	4.0	5,0
EV15	EV16	EV17					FY22
Actual	Actual	Actual	Forecast	Forecast	Forecast	Forecast	Forecast
			2 357	705	1 177	1 998	3 114
			0,89	0,79	0,71	0,63	0,56
			2 099	559	831	1 256	1 744
	3,9% FY15	3,9% FY15 FY16	3,9% FY15 FY16 FY17	3,9% FY15 FY16 FY17 FY18 Actual Actual Actual Forecast 2 357 0,89	3,9% 1,0 2,0 FY15 FY16 FY17 FY18 FY19 Actual Actual Actual Forecast Forecast 2 357 705 0,89 0,79	3,9% 1,0 2,0 3,0 FY15 FY16 FY17 FY18 FY19 FY20 Actual Actual Actual Forecast Forecast Forecast 2 357 705 1 177 0,89 0,79 0,71	3,9% 1,0 2,0 3,0 4,0 FY15 FY16 FY17 FY18 FY19 FY20 FY21 Actual Actual Actual Forecast Forecast Forecast Forecast 2 357 705 1 177 1 998 0,89 0,79 0,71 0,63

DCF Valuation 23% of E

77%

of Enterprise value

of Enterprise value

PV of Cash flows	6 489	\$
Continuing value	38 515	\$
PV of Continuing value	21 563	\$
Enterprise value	28 051	\$
-Financial liabilities	(7 433)	\$
+Cash	2 823	\$
Equity value	23 441	\$
Equity value per share	53,8	\$
САРМ	12,9%	
risk-free rate	3,05%	
beta	1,8	
market risk premium	5,5%	
WACC	12,3%	
weight of equity		
weight of equity	0,9	
cost of equity	0,9 12,9%	
•		

		WACC					
		4%	10%	16%	20%		
	1%	94 408	28 609	15 880	12 003		
	2%	138 776	31 563	16 699	12 442		
g	3%	271 880	35 361	17 644	12 933		
	4%	2 667 746	39 845	18 628	13 427		

Excel picture 11. Main company data and financial ratios

Company Data

oompany bata	
Share price	261
Shares outstanding	436
Market Cap	114 007
Enterprise Value	118 617
Current EBITDA	6 904
EV / EBITDA multiple	17
Current Financial Liabilities	7 433
Tax rate	21%

peer group

Drofit morgin	06.4
Profit margin	86,4
Adj. profit margin ROA	32,2
ROE	1,5 8.2
ROIC	o,2 4.1
KOIC	4,1
Liquidity Ratios	
Current ratio	0,
Interest Coverage ratio	2,
Debt/EBITDA	1,
Debt/Equity	2,
Profit Margin per Industry	,
Software (entertainment)	67
Entertainment	42
Cable TV	61
Broadcasting	53
Average	56
ROE per Industry	
Software (entertainment)	15
Entertainment	22
Cable TV	36
Broadcasting	82
Average	39

ROIC per industry	
Software (entertainment)	19%
Entertainment	26%
Cable TV	14%
Broadcasting	24%
Average	21%

Excel picture 12. Altman Z Score model of Netflix

Altman Z Score of Netflix

Key model inputs		Key model ratios	
Working capital	3 207	Α	0,12
Retained earnings	2 942	В	0,11
Total assets	25 974	С	0,06
EBIT	1 605	D	0,25
Book value of equity	5 238		
Total liabilities	20 735		
Altman Z Score Result =	1,86		

Excel picture 13. Key financial data breakdown of Netflix per segment and fiscal year

USD in millions, FY17	Domestic str.	International str.	Domestic DVD	Consolidated busi	ness performance
Total subscribers in thousands	54,8	62,8	3,4	118	
Revenues	6 153	5 089	450	11 693	
Cost of revenues	3 319	4 138	203	7 660	
Marketing	553	725	0	1 278	
Contribution profit	2 280	227	248	2 755	
Profit margin	37%	4%	55%	24%	
Other operating expenses				1 916	
Operating income				839	
Other income (expense)				-353	
Benefit from income taxes				-74	
Net income				559	
D&A	2 757	3 441	61	6 258	

USD in millions, FY16	Domestic str.	International str.	Domestic DVD	Consolidated b	usiness performance
Total subscribers in thousand	s 49,4	44,4	4,1	94	
Revenues	5 077	3 211	542	8 831	
Cost of revenues	2 856	2 911	263	6 030	
Marketing	383	608	0	991	
Contribution profit	1 839	-309	280	1 810	
Profit margin	36%	-10%	52%	20%	
Other operating expenses				1 430	
Operating income				380	
Other income (expense)				-119	
Benefit from income taxes				74	
Net income				187	
D&A	2 338	2 451	79	4 867	

USD in millions, FY15	Domestic str.	International str.	Domestic DVD	Consolidated	business performance
Total subscribers in thousands	44,7	30,0	4,9	75	
Revenues	4 180	1 953	646	6 780	
Cost of revenues	2 487	1 780	324	4 591	
Marketing	318	506	0	824	
Contribution profit	1 376	-333	322	1 364	
Profit margin	33%	-17%	50%	20%	
Other operating expenses				1 058	
Operating income				306	
Other income (expense)				-164	
Benefit from income taxes				19	
Net income				123	
D&A	1 905	1 500	79	3 485	

Excel picture 14. Preliminary Netflix data for subscriber-based valuation

Netflix data for valuation FY2017	
Current # of subscribers	118
Prior year's # of subs.	94
Difference between new & prior # of sub.	24
Total revenue	11 693
Current revenue/subscriber	99,4
Prior year's revenue/subscriber	94,1
Total opex + costs	-10 854
Operating income	839
Total cash and cash equivalents	2 823
Total debt	6 499
% of opex associated with new subs.	26%
% of opex that are spent on company	50%
% of opex spent on current users	24%
Corporate tax rate	21%
Inflation rate	2,9%
Risk-free rate	3,05%
# of shares outstanding	436
Perpetuity growth rate	3,9%

If we compare this model to the classic DCF, we can already conclude that forecasts are more detailed and accurate, given that we found out several important points, including the lifetime and the renewal rate of a subscriber.

The 26% of opex associated with new subscribers, represents marketing and production of new content.

The 24% of opex associated with current/existing subscribers represents T&D expenses and production of new content.

The rest, including G&A and D&A are corporate expenses - 50%.

Excel picture 15. Data on existing and new subs. Including value of current subs and sensitivity analysis

subscriber lifetime (years)	8	According to some st	atistics pu	ublished	by the	UK, a pe	rson spe	nds 10 y	ears of w	vatching	g TV etc	:. on av
subscriber renewal rate	100%	this means that Netf	ix does n	ot lose s	subscrib	ers, calcu	ulated by	/ subtrac	ting the	differer	nce betv	ween c
Revenue/subscriber growth rate	5,6%											
Services costs as % of revenues	24%											
			3	4	5	6	7	8	9	10	11	12
Data on new subs.		91%	-45	14	70	123	173	220	265	308	349	387
Cost of acquiring subs.	118,64	92%	-42	20	78	133	185	235	282	327	369	409
Subscriber growth rate for first 5 years	25%	93%	-38	26	86	144	199	251	300	346	391	432
Subscriber growth rate for next 5 years	15%	94%	-35	32	96	156	213	267	319	367	413	457
		95%	-31	39	105	168	228	285	338	389	437	483
Value of current subscribers		96%	-27	46	116	182	244	303	360	413	463	511
Revenue	99,44	97%	-23	54	127	196	261	323	382	438	490	540
Opex	23,87	98%	-18	62	139	211	279	344	406	464	519	571
Operating income	75,58	99%	-13	71	151	227	299	367	431	492	550	605
Operating income after tax	59,71	100%	-8	80	164	244	319	390	458	522	583	640
y-o-y growth rate in revenue/subscriber	5,6%											
y-o-y growth rate in opex/subscriber	2,45%											
Discount rate (cost of capital)	12,30%											
Subscriber lifetime	8	https://www.indeper	ndent.co.u	ık/news	/media,	/tv-radio	/averag	e-watchi	ing-tv-bri	iton-10-	years-li	ife-res
Full life probability	100,0%	again showing that N	etflix doe	s not lo	se subso	ribers						
Value/subscriber	379,69											

Excel picture 16. Value of future subscribers, value of all subscriber and equity value

Value of future subscribers											
Acquisition cost of subscribers	118,64										
Value/new subscriber	261,05										
Period	0	1	2	3	4	5	6	7	8	9	10
Total subscribers	118	147	191	250	327	428	507	595	698	818	959
New subscribers	0	29	44	59	77	101	79	88	103	120	141
Value/new subscriber	261	269	276	284	293	301	310	319	328	338	347
Value added by new subscribers		7 896	12 188	16 722	22 584	30 431	24 596	28 068	33 641	40 543	48 891
Continuing value	159 122										
PV		7 031	9 664	11 807	14 199	17 037	12 262	12 460	13 298	14 271	65 200
Total value added by new subscribers	177 229										
Value drag of operating expenses on con	npany										
Opex on company	-5 427	-5 560	-5 696	-5 836	-5 979	-6 125	-6 275	-6 429	-6 587	-6 748	-6 913
After-tax opex on company		-4 392	-4 500	-4 610	-4 723	-4 839	-4 957	-5 079	-5 203	-5 331	-5 461
Continuing value	-67 543										
PV		-3 911	-3 568	-3 255	-2 970	-2 709	-2 471	-2 255	-2 057	-1 876	-22 882
Total value drag of opex on company	-47 955										
Total value of Netflix											
Value of current subscribers	44 645										
Value of future subscribers	177 229										
Value drag of opex on company	-47 955										
Cash and cash equivalents	2 823										
Total debt	6 499										
Equity value of Netflix	170 242										
Estimated price per share of Netflix	390										