Projecting Financial Statements

THE BALANCE SHEET

INVESTMENT PROPERTY

Investment Property

Alstria Model B/S – Projecting Investment Property

- The most important asset for a REIT is its **Investment Property** (IP) portfolio. IP:
 - a) rises with additions from acquisitions,
 - b) rises with CAPEX (capital expenditures),
 - c) and <u>declines</u> with reductions from asset sales
- Alstria uses "fair value accounting." That means **IP** assets are periodically revalued by an external appraisal and that value is used on the Balance Sheet.
 - The other method (not used) is "historical cost accounting." Under this method assets are held at historical cost and written down by **D&A**.
 - So, since Alstria uses fair value accounting for IP: IP is not affected by D&A.
- Some development activity for Alstria is not reflected in IP. Specifically, investments & contributions in Alstria's 49%-owned JVs increase the JV balance, not IP. More on this shortly.
- Strictly for IP, CAPEX has two effects: 1) the <u>B/S effect</u> is reflected in <u>growth of the</u> <u>IP portfolio</u>, 2) the <u>P&L effect</u> is reflected in an increase in the <u>organic rental</u> <u>growth rate</u>.
- Development activity may be more significant for other companies & require greater modeling detail.

Investment Property

<u>Alstria Model B/S – Projecting Investment Property</u>

2			A	В	С		D	E
	26	Alstria Model E	Balance Sheet - Assets		20	010	2011E	2012E
	27	Investment Pro	operty		19349,0	000	-	-
	28	Equity Investm	ents (JVs)		32.3	385	_	
	29	PP & E			7	(1) Link-u	p 2010A
	30	Intangibles, De	rivatives and Financial Assets		18	Fr	ding Bala	ance in IP
	31	Receivables			14			
	32	Cash			120		Section to	
	33	Total Assets			1,542	Inve	estment P	roperty on
	34					Mo	odel Balar	nce Sheet:
	35	Debt			794	-	C60 -	C27
	36	Derivatives &	Profit Participation Rights	1	43		$\bigcirc 109 =$	
	37	Other Provisio	Set up Investment Property		9	(2) Link-u	p 2011E
	38	Trade Payable	model section with:		3	Beg	inning Ba	lance in IP
	39	Total Liabilitie	a) Beginning Balance		849		Section to	2010A
	40	Equity			692	•	Fadia a B	
	41	Total Assets &	b) Acquisitions, net of sales		1,542		Ending B	alance:
	63		c) CAPEX				D66 =	C69
	64	BALANCE SHEE	d) Ending Balance					
	65	Investment Pr		2009A	201	LOA	2011E	2012E
	66	Beginning Bala	nce	NM	N	м	1,349,000	
	67	Acquisitions, n	et of Sales	NM	N	IN		
	68	CAPEX	· · · · ·	NM		М		
	69	Ending Balance		NM	1,349,0	000		

Investment Property (cont'd)

<u>Alstria Model B/S – Projecting Investment Property</u>

To model the growth (or decline) of the 2011E IP balance, we:

 a. Link the IP Calculation to the Net Acquisitions calculated previously
 b. Project CAPEX. Note: Searching the annual report for "CAPEX" reveals that "in the next two years, the company plans to invest between €40 and €50m in the portfolio" (Group Management Report, Pg. 10)

Link IP Calc'n to Net Acquisitions and Project CAPEX

	D68 - 🥌 🎜 =	D68 - 1/2 =AVERAGE(40000,50000)/2								
	A	ВС		D						
45	Acquisitions, net of Sales	2009A 2010	A	2011E						
46	Acquisition Volume		7	100,000						
47	Acquisition Yield (gross)	(1) Calculate 2011E Acquisitions ,	7	6.50%						
48	Rental Income Gained, total pe		7	6,500						
49		net of Sales in the IP Section:								
50	New Rent from 2011E Acquisiti		7	3,250						
51	New Rent from 2012E Acquisiti	100.000 - 50.000 = 50.000	2	-						
52	New Rent from Acquisitions, pe			3,250						
53		\Leftrightarrow								
54	Sales Volume		Ľ .	50,000						
55	Sales Yield (gross)	D67 = D46 - D54	2	5.00%						
56	Rental Income Lost, total per sa		ľ	2,500						
57	Pont lost from 2011E Salos (mid	(2) Project annual CAPEX at \pm 22 5m		(1.250)						
59	Rent lost from 2012E Acquisitio		L.	(1,250)						
60	Rent lost from Acquisitions ne	(mid-point of guidance).	ř—	(1.250)						
61	nent lost nom Acquisitions, per	(init point of guidance).		(1,200)						
62	Rental Income - External	$D68 = \Lambda VER \Lambda GE(10000 50000)/2$	7	2.000						
63		D00 = AV LIAOL(40000, 30000)/2	E .							
64	BALANCE SHEET DRIVERS		N I							
65	Investment Property	- 22,500		2011E						
66	Beginning Balance	19101 191	1 1.	349,000						
67	Acquisitions, net of Sales	NM NA		50,000						
68	CAPEX	NM NN		22,500						
69	Ending Balance	NM 1,349,00	00							

Investment Property (cont'd)

<u>Alstria Model B/S – Projecting Investment Property</u>

• We then link the **Ending Balances** back up to the Model Balance Sheet and copy over formulas to 2012E

Modeling Growth in IP & Linking Back to Balance Sheet



Investment Property (cont'd)

<u>Alstria Model B/S – Projecting Investment Property</u>

• IP as a function of Net Acquisitions (calculated previously) and CAPEX

Modeling Investment Property

26	Alstria Model Balance Sheet		2010A	2011E	2012E
27	Investment Property		1,349,000	1,421,500	1,494,000
28	Equity Investments (JVs)		32,385		
29	PP&E		7,826		
30	Intangibles, Derivatives and Financial Assets		18,116		
31	Receivables		14,221		
32	Cash		120,788	-	
33	Total Assets	_	1,542,336		
34					
35	Debt		794,206		
36	Derivatives & Profit Participation Rights		43,204		
37	Other Provisions & Liabilties		9,494		
38	Trade Payables		3,024		
39	Total Liabilities	_	849,928		
40	Equity		692,408	-	
41	Total Liabilities & Equity		1,542,336		
43					
62					
63					
64	BALANCE SHEET DRIVERS				
65	Investment Property	2009A	2010A	2011E	2012E
66	Beginning Balance	NM	NM	1,349,000	1,421,500
67	Acquisitions, net of Sales	NM	NM	50,000	50,000
68	CAPEX		NM	22,500	22,500
69	Ending Balance	NM	1,349,000	1,421,500	1,494,000

EQUITY INVESTMENTS (JVS)

Equity Investments (JVs)

Alstria Model B/S – Projecting Equity Investments

- Equity Investments is the line item reflecting Alstria's two 49%-owned JVs.
- Remember from modeling out JV Income, only one line item is reported the Net Income at the JV level (or JV FFO when adjusted for cash-recurring effects).
 - Line items from **Rental Income** down through **FFO** are not reported separately, but only the **JV FFO**. And that's the line-item that appears.
 - We had to build a *model-in-a-model*, projecting each of the intermediary line-items to ultimately derive **JV FFO**.
- The Balance Sheet process for **Equity Investments** is similar.
 - JVs in reality have numerous assets and liabilities.
 - Note here that <u>Assets Liabilities = Equity</u>
 - ...and Equity is the only item that is reported for the JVs.
 - Instead of showing each asset and liability account at the JV level separately, the entire Balance Sheet at the JV-level is rolled up into a single line item on Alstria's consolidated B/S – namely Equity Investments.
- Theoretically, modeling **Equity Investments** would thus require laboriously projecting all JV assets & liabilities individually. However...to facilitate modeling, we make a simplifying assumption: JV assets & liabilities stay flat.

Equity Investments (JVs) – cont'd

Alstria Model B/S – Projecting Equity Investments

- Note that the flat asset and liability assumption is a significant leap of faith which should be verified with management.
 - There could be a material effect on our FFO projections, for example if JV Debt changes throughout the development process, which in turn would change JV Interest Expense and FFO.
- Technically, the flat-asset assumption is also incorrect even if Alstria doesn't contribute any further equity or **CAPEX**.
 - From an accounting perspective, the value of the building in the JV would be expected to increase throughout the development process e.g. when an appraiser revalues the building as development progress is made.
 - However, there would be <u>no cash-impact</u> from these valuation increases and therefore <u>no cash impact on our P&L projections</u>. As such we ignore possible valuation changes at the JV level.
- For our purposes **Equity Investments** will only <u>increase with positive JV FFO</u> as cash income is generated at the JV level and <u>decrease with negative JV FFO</u> as cash losses are generated at the JV level.

Equity Investments (cont'd)

<u>Alstria Model B/S – Projecting Equity Investments</u>

• We calculate the growth (or decline) of **Equity Investments** as a function of last year's **Equity Investments** balance +/- the **JV FFO** calculated in the JV Investments and Income section

Link IP Calc'n to Net Acquisitions and Project CAPEX

	Get Exter	nal Data	Connec	ctions		Sort & Filter	
C	28 👻		7				
		A		B	С	D	E
26	Alstria Model	Balance Sheet - Asset	ts		2010	2011E	2012E
27	Investment P	roperty			1,349,000	1,421,500	1,494,000
28	Equity Investi	ments (JVs)			• 32,385	- <mark></mark>	31,264
29	PP & E	PP & E					
30	Intangibles, D	erivatives and Financ	ial Assets		18,116		
31	Receivables	(1) Calculate 201 1	1 F Fauity Inv	astmonts	14,221		
32	Cash		Le Lquity in	120,788			
33	Total Assets	32.385 + (2	1.484) = 30.9	901	\$42,336		
34			-, , , -				
35	Debt		$\langle \Rightarrow \rangle$		794,206		
36	Derivatives &	- 26 -			43,204		
37	Other Provisi	D28 =	$C_{20} + D_{11}$		9,494		
38	Trade Payable	(2) Conv over 201	1F (D28) to 2	2012F (F28	3,024		
39	Total Liabiliti				49,928		
40	Equity			_	692,408		
41	Total Assets 8	& Liabilities			1,542,336		
42							
71	JV Investmen	ts and Income		2009A	2010A	2011E	2012E
72	JV Rental Inco	ome (pro-rata)		NM	NM	-	2,253
73	JV EBITDA Ma	rgin		NM	NM	-	82.0%
74	JV EBITDA			NM	NM	-	1,847
75	JV Interest Ex	pense (pro-rata)		NM	NM	(1,484)	(1,484)
76	JV Cash Taxes	(pro-rata)		NM	NM	-	-
77	JV FFO			NM	NM	•(1,484)	363

PROPERTY, PLANT & EQUIPMENT

Property, Plant & Equipment

<u> Alstria Model B/S – Projecting PP&E</u>

- **PP&E** (Property, Plant and Equipment) consists of the assets used by the company in its day-to-day operations
- Unlike Investment Property which is continually revalued and held at "fair-value" PP&E is subject to D&A a theoretical, non-cash write-down of the assets.
- **PP&E** is not held at fair value and revalued by an appraiser. Rather, **PP&E** is recorded in the financial statements at historical cost and written down each period by a pre-calculated amount of **D&A** (*see annual report pg. 45*).
- For Alstria **PP&E** and **D&A** are relatively minor items but for other companies (especially for asset-heavy businesses) **PP&E** and **D&A** may be more relevant.
- PP&E a) grows with PP&E Additions, and b) declines with D&A
- Technically some other items (not just PP&E) are affected by D&A. These include Intangibles and certain other balance sheet assets held at historical cost. However, for simplicity we assume the entire amount of D&A reduces only the PP&E balance.

Property, Plant & Equipment (cont'd)

Alstria Model B/S – Projecting PP&E

• We set up a schedule to calculate PP&E based on PP&E Additions and D&A

Set up PP&E Model Section and Link to PP&E to Model B/S



Property, Plant & Equipment (cont'd)

Alstria Model B/S – Projecting PP&E

- **PP&E Additions** will be driven off the 2010A percentage of **CAPEX**, which we assume stays constant
- D&A will consist of:
 a) D&A related to the *existing portfolio* b) new D&A from future-year PP&E Additions
- We need to estimate the **Depreciation Period** needed to calculate **D&A** on future-year **PP&E Additions**
- We use the average gross balance of PP&E reported in Note 10.3 (before subtraction of accumulated depreciation) and reported D&A related to those gross
 PP&E balances to back into this Depreciation Period

Property, Plant & Equipment (cont'd)

Alstria Model B/S – Projecting PP&E

• Input PP&E Additions and CAPEX from annual report and calculate Depreciation Period

Calculate PP&E and D&A Drivers from Annual Report Annual Report Note 10.3



Property, Plant & Equipment (cont'd)

Alstria Model B/S – Projecting PP&E

- We now use the 2010A PP&E-drivers calculated from annual report disclosure to project future **PP&E Additions**
- Note: In the case of Alstria D&A and PP&E are not major drivers of the earnings profile. However for other companies in particular those with <u>asset-intensive business models not using fair value accounting</u> D&A may require greater modeling attention. As such, simplifying assumptions such as <u>keeping flat the % PP&E Additions of</u> <u>CAPEX and Depreciation Period</u> at historical levels should be double-checked and adjusted as necessary

Use 2010A PP&E-Drivers to Project PP&E Additions

	Function Library Defined Names									
088	- (<i>f</i> _∗ =D89*D90								
		A	В	С		D	E			
65	Investment	Dranorty	20004		10A	2011E	2012E			
66	Beginning I	(1) Link 2011E CAPEX to 2011E CAPEX in Inv	estment Pro	operty	VМ	1,349,000	1,421,500			
67	Acquisitior	model section:			VМ	50,000	50,000			
68	CAPEX	D89 = D68			VМ	• 22,500	22,500			
69	Ending Bala	(2) Link 2011E % PP&E Additions of CAPEX to	o 2010A and	Ş-lock:	000	1,421,500	1,494,000			
81		D90 = C90 & PRESS F4 = \$C\$	90							
82	PP&E	(3)Link 2011E Depreciation Period to 20	10A and S-lo	ock:	10A	2011E	2012E			
83	PP&E - Beg	D91 = C91 & PRESS F4 = \$C\$	91			7,826				
84	PP&E Addit	(4)Calculate PP&E Addition	IS:							
85	D&A	22,500 x 13.9% = 3,120								
86	PP&E - End	\Leftrightarrow			826	Copy	over			
87	1	D88 = D89 x D90					V			
88	PP&E Addit	ions		2,	219	<mark>3,120</mark>	3,120			
89	CAPEX					22,500	22,500			
90	% PP&E Add	ditions of CAPEX		• <u>13</u> .	9%	13.9%	13.9%			
91	Depreciatio	n Period (yrs)	•	6.2	26.2	26.2				
							i			

Property, Plant & Equipment (cont'd)

Alstria Model B/S – Projecting PP&E

- Future year **D&A** will consist of:
 - a) the 2010A reported **D&A** of €570k, from existing **PP&E** (which stays constant due to "straight lining"), plus
 - b) new D&A related to future-year PP&E Additions which we calculate using the previously estimated

Depreciation Period

Note: We can <u>\$-lock rows</u> by pressing <u>F4 twice while scrolling within a formula</u>. This <u>allows copying down</u> of a formula, <u>keeping only the row references locked</u> while moving column references over.

Set up D&A Model Section

Calculate Future Year D&A

C93 •		D94	√ (f _x	=-D\$88/D\$91		
A 13 EBITDA Margin	B C 79.5% 82.1%	13 EBIT	A TDA Margin	B C D E 79.5% 82.1% 82.7% 85.3%		
Set up D&A model section with: a) D&A from existing PP&E b) D&A from 2011E PP&E Additions	(473) (570) 81,038 72,574 (52,117) (42,887) 28,921 29,687 2010A	14 D&A 15 EBIT 16 Casl 17 PBT 81	A h Interest Expense, net	① Calculate D&A from 2011E PP&E Additions and \$-lock-rows: (3,120) / 26.2 = (119)		
c)D&A from 2012E PP&E Additions d)Total D&A		2010A 82 PP&E 83 PP&E - Beginning Balance 84 PP&E Additions 85 D&A 82 D94 = - D88 & PR 84 PRESS F4 TWIG				
87Link 2010A D&A free88PP&E Additionsto 2010A D&A (construction)89CAPEXC93 =90% PP&E Additions (construction)	om existing PP&E on Model P&L: D14	86 PP8 87 88 PP8 89 CAP	ε - Ending Balance ε Additions νεχ	2,219 3,120 3,120 16,000 22,500 22,500		
 91 Depreciation Period (yrs) 92 93 D&A from existing PP&E 94 D&A from 2011E PP&E Additions 95 D&A from 2012E PP&E Additions 96 Total D&A 	26.2 (570)	90 % P 91 Dep 92 93 D&A 94 D&A 95 D&A	P&E Additions of CAPEX reciation Period (yrs) A from existing PP&E A from 2011E PP&E Addition A from 2012E PP&E Addition	13.9% 13.9% 13.9% 26.2 26.2 26.2 (570) (119) (119)		

Property, Plant & Equipment (cont'd)

Alstria Model B/S – Projecting PP&E

• We now link-up and copy across formulas for D&A in each year and sum Total D&A

Link Up and Copy Across D&A for Each Year

	C96 🗸	√ (=					
- 24		A	В	С		D	E
82	PP&E	(1) Link 2011E D&A from existir	ng PP&E to	2010A:	ÞA	2011E	2012E
83	PP&E - Beginn	D93 = C93	0			7,826	
84	PP&E Addition	(2) Link 2012E D&A 2011E PP&E	Additions t	to 2011E:			
85	D&A	E94 = D94					
86	PP&E - Ending	(3) Add NMs for the remaini	ng blank s	oots	26		
87		(4) Calculate 2010A To	tal D&A:				
88	PP&E Addition		= (570)		19	3,120	3,120
89	CAPEX	\Leftrightarrow			bo	22,500	22,500
90	% PP&E Additi	C96 = SUM (C93:0	(95)		%	13.9%	13.9%
91	Depreciation P	eriod (yrs)		2	26.2	26.2	26.2
92						Copy	/ over
93	D&A from exis	ting PP&E		• (5	70)	🕶 <mark>(570)</mark>	> (570)
94	D&A from 2011E PP&E Additions					• (119)	(119)
95	D&A from 2012		1	VМ	NM	(119)	
96	Total D&A			(5	70)	(689)	(808)

Property, Plant & Equipment (cont'd)

Alstria Model B/S – Projecting PP&E

• PP&E can now be calculated using PP&E Additions and D&A

Calculate PP&E from PP&E Additions and

	D86 - 🕞	<i>f</i> ∗ <mark>=SUM(D83:D85)</mark>								
	A B C				D					
82	PP&E			20104	2011E					
83	PP&E - Beginning Balance	(1) Link 2011E PP&	E Additio	ns on PP&E-	7,826					
84	PP&E Additions	schedule to PP&	E Addition	ns below:	3,120	*				
85	D&A	D84	- = D88		(689)	- `\				
86	PP&E - Ending Balance	(2) Link 2011E D&A	(2) Link 2011E D&A on PP&E-schedule to							
87		2011E Tota	2011E Total D&A below:							
88	PP&E Additions	D85	= D96		3,120					
89	CAPEX	(3) Calculate 2011F	PP&F – Fn	ding Balance [.]	22,500					
90	% PP&E Additions of CAPE	7 826 ± 3 120	+ (680) -	10 257	13.9%					
91	Depreciation Period (yrs)	7,020 + 3,120	- (009) ~	10,237	26.2					
92				_\						
93	D&A from existing PP&E	(570)								
94	D&A from 2011E PP&E Additions NM				(119)					
95	D&A from 2012E PP&E Additions NM				NM					
96	Total D&A (570)									

Property, Plant & Equipment (cont'd)

Alstria Model B/S – Projecting PP&E

• PP&E can now be linked back up to the Model B/S

Link PP&E Back up to Model B/S

					1				
I	D29 • (<i>f</i> x =D86								
	A		B	C		D		E	
26	Alstria Model Balance Sheet - Assets			20	10A	20	011E	20	012E
27	Investment Property			1,349	,000	1,421	,500	1,494	,000
28	Equity Investments (JVs)			32	,385_	30	,901	31	,264
29	PP&E			7	,826	<mark>م 1</mark> 0	,257	12	,569
30	Intangibles, Derivatives and Financial Asso	ets		18	,116			_	
31	Receivables			14	,221				
32	Cash			120	,788				
33	Total Assets			1,542	,336				
34				a –	1				
35	Debt	Lir	ik 2011E PP	&E on	206				
36	Derivatives & Profit Participation Rights	КЛ КА	ndel B/S to I		204		Сору	over	
37	Other Provisions & Liabilties			TOL	494				
38	Trade Payables	5	schedule bel	ow:	024				
39	Total Liabilities		020 - 020	6	928				
40	Equity		DZ9 = D00	0	408				
41	Total Assets & Liabilities			1,542	,336				
42									
82	PP&E			20	10A _	2(011E	20	012E
83	PP&E - Beginning Balance				NM	7	,826	10	,257
84	PP&E Additions				NM	3	,120	3	,120
85	D&A				NM	(689)	(808)
86	PP&E - Ending Balance			7	,826	• 10	,257	• 12	,569

Property, Plant & Equipment (cont'd)

Alstria Model B/S – Projecting PP&E

• PP&E as a function of D&A and PP&E Additions

Property, Plant & Equipment

26	Alstria Model Balance Sheet	2010A	2011E	2012E
27	Investment Property	1,349,000	1,421,500	1,494,000
28	Equity Investments (JVs)	32,385	30,901	31,264
29	PP&E	7,826	10,257	12,569
30	Intangibles, Derivatives and Financial Assets	18,116		
31	Receivables	14,221		
32	Cash	120,788	•	
33	Total Assets	1,542,336		
34				
35	Debt	794,206	•	
36	Derivatives & Profit Participation Rights	43,204		
37	Other Provisions & Liabilties	9,494		
38	Trade Payables	3,024		
39	Total Liabilities	849,928		
40	Equity	692,408	•	
41	Total Liabilities & Equity	1,542,336		
43				
82	PP&E	2010A	2011E	2012E
83	PP&E - Beginning Balance	NM	7,826	10,257
84	PP&E Additions	NM	3,120	3,120
85	D&A	NM	(689)	(808)
86	PP&E - Ending Balance	7,826	10,257	12,569
87				
88	PP&E Additions	2,219	3,120	3,120
89	CAPEX	16,000	22,500	22,500
90	% PP&E Additions of CAPEX	13.9%	13.9%	13.9%
91	Depreciation Period (yrs)	26.2	26.2	26.2
92				
93	D&A from existing PP&E	(570)	(570)	(570)
94	D&A from 2011E PP&E Additions	NM	(119)	(119)
95	D&A from 2012E PP&E Additions	NM	NM	(119)
96	Total D&A	(570)	(689)	(808)

NON-CASH ASSETS AND LIABILITIES & OTHER ASSETS AND LIABILITIES

Non-Cash Assets & Liabilities

Alstria Model B/S – Projecting Non-Cash Assets & Liabilities

 Certain non-cash assets & liabilities have little impact on the company's operations and/or are hard to predict. These B/S items are typically held flat. Specifically, for Alstria we hold constant:
 a)Intangibles, Derivatives and Financial Assets
 b)Derivatives and Profit Participation Rights

Projecting Non-Cash Assets & Liabilities

		runction cionary			Deni	rea wai	nes
I	D36 🔫 🦳	<i>f</i> ∗ <mark>=C36</mark>					
		A	В	С	D		E
21	Add back: D&A					- 201	0.4. 50
22	FFO		lies, Derivativ	les and Finan	cial Assets	to 201	UA: 101
23	Shares Outstanding (a		D30 =	C30			25
24	FFO per Share						.54
25		(2) Link 2011E Deriv a	atives & Prof	it Participatio	on Rights to	2010	A:
26	Alstria Model Balance		D26 -	C36	-		.2E
27	Investment Property		030 -	0.50			00
28	Equity Investments (J	(3)	Copy over 2	011E to 2012	Ε		:64
29	PP&E)	17	7,020	10,23	,	12,569
30	Intangibles, Derivativ	es and Financial Assets		 18,116 	<mark>→ 18,11</mark>	5	18,116
31	Receivables			14,221		1	
32	Cash			120,788		1	
33	Total Assets			1,542,336			
34						1	
35	Debt			794,206		1	
36	Derivatives & Profit P	articipation Rights		 43,204 	<mark>→ 43,20</mark> 4	4	43,204
37	Other Provisions & Lia	abilties		9,494			<u> </u>
38	Trade Payables			3,024			
39	Total Liabilities			849,928			

Other Assets and Liabilities

Alstria Model B/S – Projecting Other Assets & Liabilities

• Receivables, Trade Payables, and Other Provisions & Liabilities are modeled via relationship to their P&L drivers:

a) Receivables is typically driven off of the

Days Sales Outstanding (DSO) Ratio = (Receivables / Credit Sales) x 365

The average number of days a company takes to collect revenue after a sale. A low DSO number suggests a company is collecting debts quickly and efficiently, a high number suggests a company is taking (too) long to collect on debts. For <u>Alstria</u>, we assume that all revenue (rental income) comes in the form of Credit Sales, i.e. <u>Credit Sales = Total Rental Income</u>

b)Trade Payables and

c)Other Provisions & Liabilities can be modeled using the

<u>Days Payables Outstanding (DPO) Ratio = (Payables / Cost of Sales) x 365</u> The average number of days a company takes to pay its creditors. In the case of Alstria, whose main operations consist of rental-income maximization, the "Cost of Sales" concept is different than that of a typical widget-producer. The analogous expense necessary for provision of Alstria's core services is thus "Operating Expenses"

Other Assets and Liabilities

Alstria Model B/S – Projecting Other Assets and Liabilities

• We set up a model section to project **Receivables** using the Days Sales Outstanding ratio

Calculating Days Sales Outstanding

	rune	Function Library								
C10	2 ▼ (= ƒ _≤ =(C	:100/C101)*365								
	A			С						
1		(1) Link 2010A Total Rental Income								
2	Alstria Model Income State	in Other Assets and Liabilities		2010A						
4	Organic rental growth	schedule to Model P&I ·		-13.1%						
5	Rental Income - External	Schedule to Wodel i de.		NM						
6	Total Rental Income	C101 = C6	•	<mark>89,094</mark>						
7	Operating Expenses	(2) Link 2010A Receivables in Other		(7,250)						
9	NOI Margin			91.9%						
25	_	Assets and Liabilities schedule to								
26	Alstria Model Balance Shee	Model B/S:		2010A						
27	Investment Property	C100 - C21		1,349,000						
28	Equity Investments (JVs)	C100 = C31		32,385						
29	PP&E	(3) Calculate 2010A DSO Ratio :		7,826						
30	Intangibles, Derivatives and			18,116						
31	Receivables	$14,221 / 89,094 \times 305 = 58.3$		14,221						
32	Cash	\Leftrightarrow		120,788						
33	Total Assets	$(10) = ((10) / ((10)) \times (20)$		1,542,336						
42		$C102 = (C100/C101) \times 365$								
99	Other Assets and Liabilities			2010A						
100	Receivables			14,221						
101	Total Rental Income			89,094						
102	Days Sales Outstanding (DS	0)		58.3						

Other Assets and Liabilities

Alstria Model B/S – Projecting Other Assets and Liabilities

• Analogous to the Days Sales Outstanding ratio, we calculate the Days Payables Outstanding ratio to project **Trade Payables & Other Provisions and Liabilities**

Days Payables Outstanding

C106 → (f _x =(C104/C105)*365				
]	A	B	C	
2	Alstria Model Income Statem	(1) Link 2010A Operating Expenses in Other	2010A	
4	Organic rental growth	Assets and Liabilities schedule to Model P&L	-13.1%	
5	Rental Income - External	Assets and Liabilities schedule to Model F&L.	NM	
6	Total Rental Income	C105 = - C7	89,094	
7	Operating Expenses	C100 - C7	• (7,250)	
9	NOI Marain	C109 = -C7	91,9%	
25	Norwargin	(2) Link 2010A Other Provisions & Liabilities	51.570	
26	Alstria Model Balance Sheet	in Other Assets and Liabilities schedule to	2010A	
35	Debt	Model P/S:	794,206	
36	Derivatives & Profit Participa	IVIOUEI B/S.	43,204	
37	Other Provisions & Liabilties	C108 = C37	9,494	
38	Trade Payables	(2) Link 20104 Trade Davables in Other	3,024	
39	Total Liabilities	(5) LINK ZUIUA ITAGE PAYADIES IN OTHER	849,928	
40	Equity	Assets and Liabilities schedule to Model B/S:	692,408	
41	Total Liabilities & Equity	C104 = C38	1,542,336	
99	Other Assets and Liabilities	(4) Calculate 2010A DPO Ratio for Trade	2010A	
100	Receivables		14,221	
101	Total Rental Income	Payables:	89,094	
102	Days Sales Outstanding (DSO	3 024 / 7 250 x 365 = 152 2	58.3	
103		3,02 1 <i>j</i> 7,230 x 303 132.2		
104	Trade Payables		3,024	
105	Operating Expenses	$C106 = (C104/C105) \times 365$	7,250	
106	Days Payables Outstanding (
107		(5) Copy down DPU Ratio : C106 to C110		
108	Other Provisions & Liabilities		9,494	
109	Operating Expenses		7,250	
110	Days Other Liabilities Outsta	nding	478.0	

Other Assets and Liabilities

Alstria Model B/S – Projecting Receivables

 Holding constant the 2010A DSO Ratio and applying it to 2011E Total Rental Income we project 2011E Receivables

Project Receivables Using DSO Ratio

D10	00 - (= f _x	=(D101*D102)/365					
		A	В	С		D	E
2	Alstria Model Income S	tatement	2009A	20	010A	2011E	2012E
3	Rental Income - Organi	с	102,510	89	,094	90,876	94,733
4	Organic rental growth		NIM	-13	.1%	2.0%	2.0%
5	Rental Income - Extern	(1) Link 2011F Total	Rental Incor	ne to	NM	2,000	4,000
6	Total Rental Income				,094	92,876	98,733
7	Operating Expenses	Model	P&L:		250)	(7,326)	(7,541)
8	NOI	5404	5.0		,844	85,550	91,193
9	NOI Margin	D101 =	= D6		.9%	92.1%	92.4%
25		\bigcirc Link 2011E DSC	Datio to 20°	101.			
26	Alstria Model Balance		Fallo 10 20.	10A.	10A	2011E	2012E
35	Debt	D102 =	C102		,206		
36	Derivatives & Profit Pa				,204	43,204	43,204
37	Other Provisions & Liat	(3) Calculate 201	1E Receivabl	es:	,494		
38	Trade Payables	(92.876 x 58.3)	365 = 14.82	5	,024		
39	Total Liabilities		000,0_	-	,928		-
40	Equity	\Leftrightarrow	,		,408	Сору	over
41	Total Liabilities & Equit	D100 = (D101)	(D102) / 365	.	,336		
42							•
99	Other Assets and Liabil	ities		20	010A	2011E	2012E
100	Receivables			14	,221	14,825	15,760
101	Total Rental Income			89	,094	92,876	98,733
102	Days Sales Outstanding	(DSO)		• .	58.3 🔁	58.3	58.3

Other Assets and Liabilities

Alstria Model B/S – Projecting Trade Payables and Other Provisions & Liabilities

 Analogously, we replicate projections for 2011E Trade Payables and 2011E Other Provisions & Liabilities

Project Receivables Using DSO Ratio

	r	unction Library		Denned Na	imes
D104 ▼ (<i>f</i> _s =(D105*D106)/365					
	A	\sim	С	D	E
2	Alstria Model Income St	(1) Link 2011E Total Operating	2010A	2011E	2012E
3	Rental Income - Organic		89,094	90,876	94,733
4	Organic rental growth	Expenses to Model P&L:	-13.1%	2.0%	2.0%
5	Rental Income - Externa		NM	2,000	4,000
6	Total Rental Income	D105 = - D7	89,094	92,876	98,733
7	Operating Expenses		(7,250)	• (7,326)	(7,541)
8	NOI	D109 = - D7	81,844	85,550	91,193
9	NOI Margin	\sim	91.9%	92.1%	92.4%
25		(2) Link 2011E DPO Ratio to 2010A:			
26	Alstria Model Balance Sk		2010A	2011E	2012E
35	Debt	D106 = C106	794,206		
36	Derivatives & Profit Part		43,204	43,204	43,204
37	Other Provisions & Liabi	D110 = C110	9,494		
38	Trade Payables		3,024		
39	Total Liabilities	(3) Calculate 2011E Trade Payables :	849,928		
40	Equity	$(7.226 \times 152.2) / 265 = 2.056$	692,408		
41	Total Liabilities & Equity	$(7,320 \times 152.2) / 305 = 5,050$	1,542,336		
42		\Leftrightarrow			
99	Other Assets and Liabilit	$D104 = (D105 \times D106) / 265$	2010A	2011E	2012E
100	Receivables	$D104 = (D105 \times D100) / 505$	14,221	14,825	15,760
101	Total Rental Income	(4) Calculate 2011F Other	89,094		98,733
102	Days Sales Outstanding		58.3		58.3
103		Provisions & Liabilities [.]			
104	Trade Payables	r tovisions & Elabintics.	3,024	3,056	3,145
105	Operating Expenses	$(7.326 \times 478.0) / 365 = 9.593$	7,250	7,326	7,541
106	Days Payables Outstand		• <u>152.2</u> •	152.2	152.2
107		₩ ²			
108	Other Provisions & Liabi	D108 = (D109 x D110) / 365	9,494	9,593	9,875
109	Operating Expenses		7,250	7,326	7,541
110	Days Other Liabilities Ou	Itstanding	• 478.0 •	- 478.0	478.0

Other Assets and Liabilities

Alstria Model B/S – Projecting Trade Payables and Other Provisions & Liabilities

 We can then link 2011E Trade Payables, 2011E Other Provisions & Liabilities and 2011E Receivables back up to the B/S

Linking Other Assets and Liabilities to Model B/S

D31	1 ▼ (<i>f</i> _* <mark>=D10</mark>	0			
	A	B	2	D	E
26	Alstria Model Balance Sheet	1 Link 20115 Dessivebles on	2010A	2011E	2012E
27	Investment Property		19,000	1,421,500	1,494,000
28	Equity Investments (JVs)	Model D/S to Other Accets and	32,385	30,901	31,264
29	PP&E	would by S to Other Assets and	7,826	10,257	12,569
31	Receivables	Liphilition Soction:	14 221	14,110	15,760
32	Cash	Liabilities Section.	20 788	14,025	13,700
33	Total Assets	D21 – D100	12.336		
34		D31 - D100		🖣 Сор	y over 💾
35	Debt	(2) Link 2011F Other Provisions	94,206		
36	Derivatives & Profit Participa		13,204	43,204	43 204
37	Other Provisions & Liabilties	& Liabilities on Model B/S to	9,494	9,593	9,875
38	Trade Payables		3,024	3,056	3,145
39	Total Liabilities	Other Assets and Liabilities	19,928		
40	Equity	Other Assets and Elabilities	92,408		
41	Total Liabilities & Equity	Section	12,336		
42	Other Assets and Liabilities	000000	00100	20115	20125
100	Receivables	D37 = D108	14 221	14 825	15 760
101	Total Bental Income		39.094	92.876	98,733
102	Days Sales Outstanding (DSO	(3) Link 2011E Trade Pavables	58.3	58.3	58.3
103	,				
104	Trade Payables	on Model B/S to Other Assets	3,024	 3,056 	3,145
105	Operating Expenses		7,250	7,326	7,541
106	Days Payables Outstanding (and Liabilities Section:	152.2	152.2	152.2
107					
108	Other Provisions & Liabilities	D38 = D104	9,494	9,593	9,875
109	Operating Expenses		7,250	7,326	7,541
110	Days Other Liabilities Outstar	nding	478.0	478.0	478.0

Other Assets and Liabilities

Alstria Model B/S – Projecting Other Assets & Liabilities

• With **Trade Payables**, **Other Provisions & Liabilities** and **Receivables** modeled, our B/S is complete except for: **Cash**, **Debt**, and **Equity**. These will be modeled in the next section

Model B/S without Cash, Debt, and Equity

G106 👻 🦱 🏂				
A	В	С	D	E
Alstria Model Balance Sheet		20104	2011F	2012F
7 Investment Property		1.349.000	1.421.500	1,494,000
B Equity Investments (JVs)		32.385	30,901	31.264
9 PP&E		7,826	10,257	12,569
Intangibles, Derivatives and Financial Assets		18,116	18,116	18,116
1 Receivables		14,221	14,825	15,760
2 Cash		120,788		
3 Total Assets		1,542,336		
4				
5 Debt		794,206		
5 Derivatives & Profit Participation Rights		43,204	43,204	43,204
7 Other Provisions & Liabilties		9,494	9,593	9,875
3 Trade Payables		3,024	3,056	3,145
9 Total Liabilities		849,928		
0 Equity		692,408		
1 Total Liabilities & Equity		1,542,336		
3				
3				
Other Assets and Liabilities		2010A	2011E	2012E
0 Receivables		14,221	14,825	15,760
1 Total Rental Income		89,094	92,876	98,733
2 Days Sales Outstanding (DSO)		58.3	58.3	58.3
3				
4 Trade Payables		3,024	3,056	3,145
5 Operating Expenses		7,250	7,326	7,541
6 Days Payables Outstanding (DPO)		152.2	152.2	152.2
7				
8 Other Provisions & Liabilities		9,494	9,593	9,875
9 Operating Expenses		7,250	7,326	7,541
0 Days Other Liabilities Outstanding		478.0	478.0	478.0

Projecting the Balance Sheet Complete Model B/S as Described in Part III

Open BS Projections file to complete cells highlighted in red

Alstria Model Balance Sheet	2010A	2011E	2012E
Investment Property	1,349,000		
Equity Investments (JVs)	32,385		
PP&E	7,826		
Intangibles, Derivatives and Financial Assets	18,116		
Receivables	14,221		
Cash	120,788		
Total Assets	1,542,336		
Debt	794,206		
Derivatives & Profit Participation Rights	43,204		
Other Provisions & Liabilties	9,494		
Trade Payables	3,024		
Total Liabilities	849,928		
Equity	692,408		
Total Liabilities & Equity	1,542,336		

** Unhide "BS - Complete" to compare your results by pressing: ALT + H + O + U + H + Enter