



Ability to Pay Valuation

Ability to Pay Valuation

- ❖ This is an approach often used by financial investors when considering an investment
- ❖ The key question is how much can they afford to pay for a deal while still hitting a target return on investment
- ❖ What is their ability to pay?

Ability to Pay Valuation

- ❖ This is most often part of an LBO model and many of the inputs come straight from the model
- ❖ The analysis also incorporates the deal leverage so that this becomes an important variable in the calculation
- ❖ To understand ability to pay you have to work backwards from a starting point of the equity invested

Ability to Pay Valuation

- ❖ We are going to work through a simple hypothetical example to show how this works.

Ability to Pay Valuation

- ❖ Most financial investors will be targeting a 20% to 25% IRR
- ❖ We have 3 inputs for our model (in green) and can change any of them to identify the “ability to pay” valuation

Exit Multiple	8x		
EBITDA	US\$120.00		
Transaction Value	US\$960.00		
Net Debt	-US\$400.00		
Equity Value	US\$560.00		
Required IRR	20%	22.5%	25%

Ability to Pay Valuation

❖ Lets say we have a 5 year investment period and our model tells us that the EBITDA will be \$120m on exit

❖ Lets say we expect an 8x exit multiple = \$960m

❖ Deduct net debt of \$400m = Equity Value of \$560m

Exit Multiple	8x		
EBITDA	US\$120.00		
Transaction Value	US\$960.00		
Net Debt	-US\$400.00		
Equity Value	US\$560.00		

Ability to Pay Valuation

- ❖ We can calculate the multiple of invested capital using the formula $MoIC = (1+IRR)^5$

- ❖ For each IRR this gives us a multiple and from the Exit Equity value we can derive the invested equity for each return threshold

Required IRR	20%	22.5%	25%
Holding Period	5	5	5
Implied Multiple of Invested Capital	2.49x	2.76x	3.05x
Invested Equity	US\$225.05	US\$203.01	US\$183.50
(+) Debt Raised	600	600	600
(+) Cash on Hand	0	0	0
Total Implied Deal Financing Sources	US\$825.05	US\$803.01	US\$783.50

Ability to Pay Valuation

- ❖ From our LBO model we can identify the debt raised and the cash on hand
- ❖ In this case cash on hand is assumed to be zero on the basis of a debt free cash free deal
- ❖ So the Total Sources for our deal are Max Equity Investment + Debt Raised

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Total Implied Deal Financing Sources	US\$825.05	US\$803.01	US\$783.50

Ability to Pay Valuation

- ❖ Next we have to deduct our expenses and any cash balance or refinanced debt (both assumed to be zero to simplify)
- ❖ This gives us an implied Equity Purchase Price

Total Implied Deal Financing Sources	US\$825.05	US\$803.01	US\$783.50
(-) Refinanced Debt			
(-) Cash Balance			
(-) Expenses	-US\$25.00	-US\$25.00	-US\$25.00
Implied Equity Purchase Price	US\$800.05	US\$778.01	US\$758.50
Net Debt	0	0	0
Implied Transaction Value	US\$800.05	US\$778.01	US\$758.50
EBITDA on Entry	US\$90.00	US\$90.00	US\$90.00
Implied Transaction Multiple	8.89x	8.64x	8.43x

Ability to Pay Valuation

- ❖ The final step is to adjust for any net debt in the deal - this would add to the transaction value
- ❖ We are assuming debt free, cash free so this too is zero
- ❖ This gives us a transaction value

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(-) Expenses	-US\$25.00	-US\$25.00	-US\$25.00
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- ❖ This then tells us how much we can afford to pay and at what EBITDA multiple if we want to achieve our hurdle rate IRR

Total Implied Deal Financing Sources	US\$825.05	US\$803.01	US\$783.50
(-) Refinanced Debt			
(-) Cash Balance			
(-) Expenses	-US\$25.00	-US\$25.00	-US\$25.00
Implied Equity Purchase Price	US\$800.05	US\$778.01	US\$758.50
Net Debt	0	0	0
Implied Transaction Value	US\$800.05	US\$778.01	US\$758.50
EBITDA on Entry	US\$90.00	US\$90.00	US\$90.00
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- ❖ This simple financial model is available to download with this lecture so that you can calculate your own ability to pay for a transaction

Total Implied Deal Financing Sources	US\$825.05	US\$803.01	US\$783.50
(-) Refinanced Debt			
(-) Cash Balance			
(-) Expenses	-US\$25.00	-US\$25.00	-US\$25.00
Implied Equity Purchase Price	US\$800.05	US\$778.01	US\$758.50
Net Debt	0	0	0
Implied Transaction Value	US\$800.05	US\$778.01	US\$758.50
EBITDA on Entry	US\$90.00	US\$90.00	US\$90.00
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