

5. $FCFF = 1.400 \text{ MIL.}$

$FCFE = 1.300 \text{ MIL}$

$WACC = 0,11$

$r = 0,13$

$g_{FCFF} = 4\%$

$g_{FCFE} = 4,5\%$

$V_{EQUIM} = \frac{1.300 \cdot (1 + 0,045)}{0,13 - 0,045} = \underline{25.409,1}$

$V_{FIRM} = \frac{1.400 \cdot (1 + 0,04)}{0,11 - 0,04} = 45.445$

$V_{EQUIM} = 45.445 - 15000 = \underline{30.445}$

4. $NI = 250 \text{ MIL}$

$DEP = 90 \text{ MIL}$

$CAP. EXP. = 170 \text{ MIL}$

$\Delta WC = 40 \text{ MIL}$

$0,4 \cdot (CAP. EXP. - DEP) = \text{NEW DEBT}$

$0,4 \Delta WC = \text{NEW DEBT}$

$INT. EXP = 150 \text{ MIL}$

$DEBT = 1.800$

$g_{FCFF} = 6\%$

$g_{FCFE} = 4\%$

$FCFF_0 = NI + DEP + INT. EXP. (1-t) - CAP. EXP. - \Delta WC$

$FCFF_0 = 250 + 90 + 150 \cdot (1 - 0,3) - 170 - 40$

$FCFF_0 = \underline{235 \text{ MIL.}}$

$$FCFE_0 = NI + DEP - CAP. EXP. - \Delta WC + NEW BORROWING$$

$$FCFE_0 = 250 + 90 - 170 - 40 + 0,4 \cdot (170 - 90) + 0,4 \cdot 40$$

$$FCFE_0 = \underline{178 \text{ MIL}}$$

$$VALUE \text{ OF FIRM} = \frac{235 \cdot (1 + 0,06)}{WACC - 0,06}$$

$$WACC = 0,4 \cdot 9 \cdot (1 - 0,3) + 0,6 \cdot 13$$

$$WACC = 10,32\%$$

$$= \frac{235 \cdot (1 + 0,06)}{0,1032 - 0,06} = 5.466,2$$

$$VALUE \text{ OF EQUIM} = 5.466,2 - 1.800 = 3.966,20$$

$$V_0 = \underline{396,6}$$

$$VALUE \text{ OF EQUIM} = \frac{148 \cdot (1 + 0,04)}{0,13 - 0,04} = 3.144,33$$

$$V_0 = \underline{314,43}$$

$$P_0 = 32,5$$

$$r_d = 7\% \quad w_d = 30\% \quad t = 35\%$$

$$r_{ps} = 6,8\% \quad w_{ps} = 15\%$$

$$r_e = 11\% \quad w_e = 55\%$$

$$\text{DEBT} = 145 \text{ MIL.}$$

$$\text{PREFERRED EQUIM} = 65 \text{ MIL}$$

$$\text{FCFF}_0 = 28$$

$$g_{\text{FCFF}} = 4\%$$

$$\text{FIRM VALUE} = \frac{28 \cdot (1 + 0,04)}{WACC - 0,04}$$

$$WACC = 0,3 \cdot 7 \cdot (1 - 0,35) + 0,15 \cdot 6,8 + 0,55 \cdot 11$$

$$WACC = 8,435\%$$

$$= \frac{28 \cdot (1 + 0,04)}{0,08435 - 0,04} = 656,593$$

$$\text{EQUIM VALUE} = 656,593 - 145 - 65 = 446,593$$

$$V_0 = \frac{446,593}{8} = \underline{55,824}$$

$$FCFF_0 = 0,45$$

$$g_1 = 10\% \rightarrow 1Y$$

$$g_2 = 26\% \rightarrow 3Y$$

$$g_3 = 6\%$$

$$\beta = 2$$

$$r_f = 4,5\%$$

$$r_p = 5\%$$

$$r = 4,5 + 2 \cdot 5 = 14,5\%$$

$$\begin{aligned} \text{FIRM VALUE} &= \frac{0,45 \cdot (1+0,1)}{1+0,145} + \sum_{i=1}^3 \frac{0,45 \cdot (1+0,1) \cdot (1+0,26)^i}{(1+0,145) \cdot (1+0,145)^i} + \\ &+ \frac{0,45 \cdot (1+0,1) \cdot (1+0,26)^3 \cdot (1+0,06)}{(1+0,145)^4 (0,145 - 0,06)} \end{aligned}$$

$$= 0,4205 + 4,08349 + 11,9434 = \underline{15,319}$$

13. $g_{FCFE} = 24\% \rightarrow 2Y$

$g_{FCFE} = 13\%$

$$FCFE_0 = 80 + 23 - 41 - 38$$

$$FCFE_0 = 24$$

CURRENT ASSETS₂₀₀₀ = 2085

CURRENT ASSETS₁₉₉₉ = 326-5

CURRENT LIABILITIES₂₀₀₀ = 57

CURRENT LIABILITIES = 141

WC₂₀₀₀ = 180

WC₁₉₉₉ = 139 } $\Delta WC = 41$

$$\text{FIRM VALUE} = \frac{24 \cdot (1+0,27)}{1+0,14} + \frac{24 \cdot (1+0,27)^2}{(1+0,14)^2} + \frac{24 \cdot (1+0,27)^2 \cdot (1+0,13)}{(1+0,14)^2 (0,14 - 0,13)}$$

EQUIM VALUE = 26,434 + 29,486 + 3.365,493 = 3421,413

$$V_0 = \frac{3.422,31}{84} = \underline{40,44}$$

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$$G = 1,852$$

$$\text{DEBT} = 3,192$$

$$\text{FCFF}_0 = 1,155,9$$

$$\beta = 0,9$$

$$r_p = 5,5$$

$$r_f = 5,5$$

$$\left. \begin{array}{l} r_p = 5,5 \\ r_f = 5,5 \end{array} \right\} \begin{array}{l} r_e = 5,5 + 0,9 \cdot 5,5 \\ r_e = 10,45\% \end{array}$$

$$r_d = 4\%$$

$$t = 40\%$$

$$\text{WACC} = 0,25 \cdot 4\% \cdot (1 - 0,4) + 0,75 \cdot 10,45\%$$

$$\text{WACC} = 8,8845\%$$

$$\text{FIRM VALUE} = \frac{1,1559 \cdot (1 + 0,04)}{0,08845 - 0,04} = 24,6592$$

$$\text{EQUIM VALUE} = 24,6592 - 3,192 = 21,4672$$

$$V_0 = \frac{21,4672}{1,852} = \underline{11,59}$$