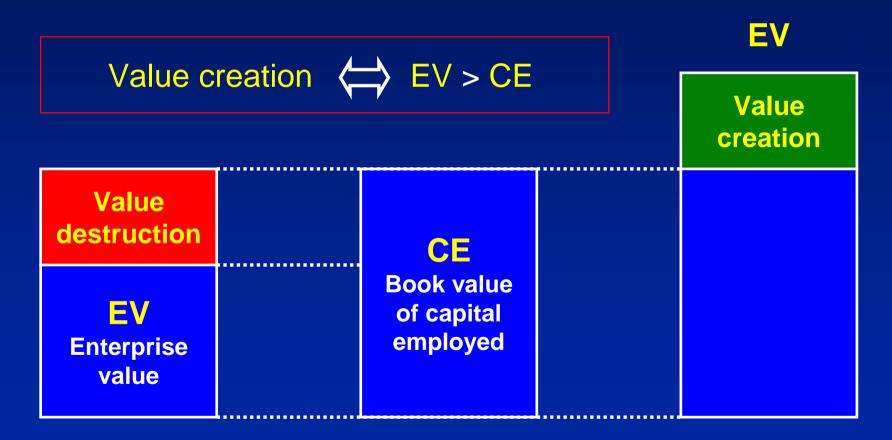
# **Value Creation**

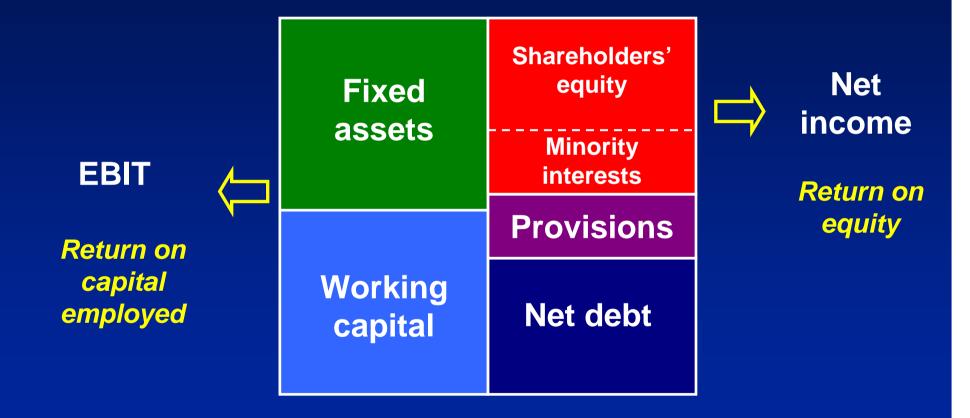
© Franck CEDDAHA 2007

#### 1. What is value creation?

 Value creation (or destruction) is defined as the difference between the market value of capital employed (Enterprise Value) and the book value of CE



# 2. Return on Capital Employed and Return on Equity (1/3)



## 2. Return on Capital Employed and Return on Equity (2/3)

Return On Capital Employed (ROCE)

$$ROCE = \frac{EBIT (1-tax)}{CE}$$

Breakdown of ROCE

$$ROCE = \frac{EBIT (1-tax)}{sales} \times \frac{sales}{CE}$$

After-tax Capital operating X employed margin turnover ratio

### 2. Return on Capital Employed and Return on Equity (3/3)

Book and expected returns can be very different

#### **Capital Employed**

**Book Return** 

ROCE

Return on Capital Employed

**Expected Return** 

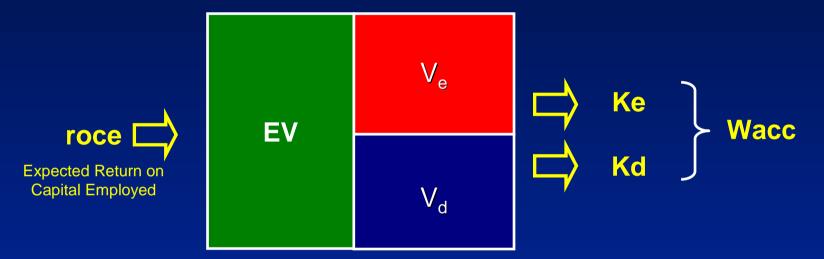
roce

**Expected** return on capital employed

© F. Ceddaha, 2007 5

### 3. Weighted Average Cost of Capital

 Spread is the difference between the return on capital employed and the weighted average cost of capital

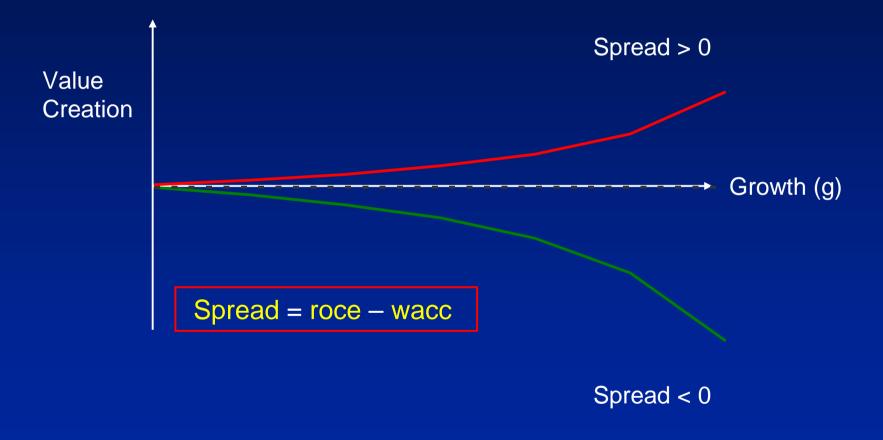


 Wacc is the average return expected by both equity and debt investors, considering the risk. Wacc preexists to the firm

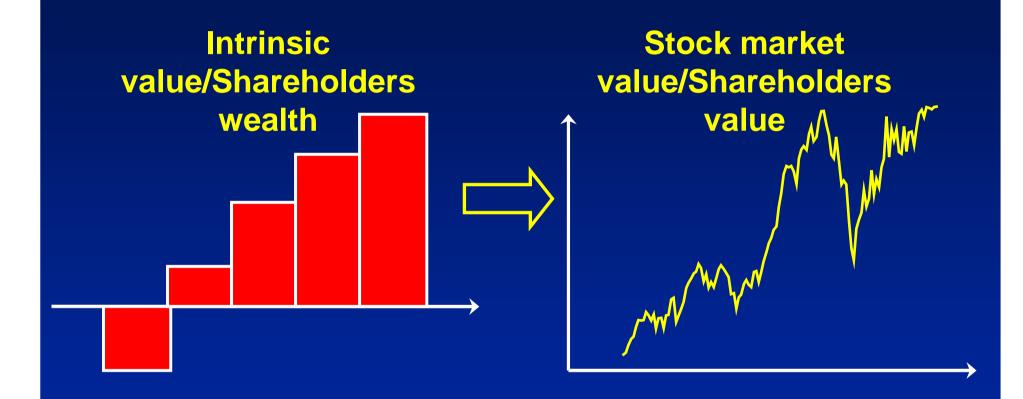
Wacc = 
$$K_e$$
 ·  $\frac{V_e}{V_e + V_d}$  +  $K_d$  · (1-tax).  $\frac{V_d}{V_e + V_d}$ 

#### 4. Rent and value creation

Spread and growth are the key value drivers



# 5. Measuring Value Creation (1/4)



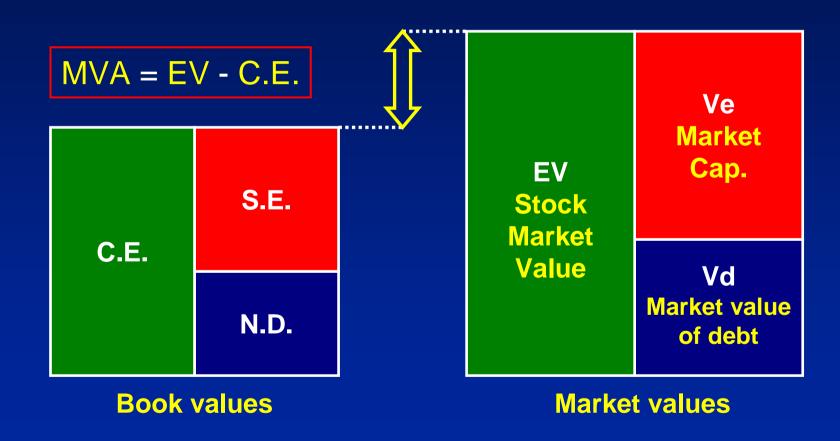
# 5. Measuring Value Creation (2/4)

- EVA® is used to measure value creation over a given period in absolute terms
- EVA® is obtained by the following formula:

```
EVA® = C.E. x (roce - Wacc)
= EBIT x (1-tax) - Wacc x C.E.
```

# 5. Measuring Value Creation (3/4)

Market Value Added (MVA)



# 5. Measuring Value Creation (4/4)

In theory... there is a congruence between the two methods

