

# EFR summary

Corporate Reporting, FEM11115  
2025-2026



Weeks 1 to 7

**Deloitte.**

DeNederlandscheBank  
EUROSYSTEEM

## Details

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# Koffietje doen?

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**BDO**

# Corporate reporting

## Lecture 1

Before making a journal entry, ask yourself if it is a business combination or an acquisition of stand-alone assets and liabilities.

Carrying amount is in the books, fair value is what it is worth and you would sell it for.

**Business combination:** a *transaction* or other event in which an acquirer obtains *control* over one or more *businesses*. A business is an integrated set of activities and assets that is capable of being conducted and managed for the purpose of providing goods or services to customers, generating investment income (such as dividends or interest) or generating other income from ordinary activities.

• If it's a business we have to apply IFRS 3, if it is not you apply other standards

**Control:** an investor controls an investee when the investor is exposed, or has rights, to variable returns from its involvement with the investee and has the ability to

affect those returns through its power over the investee (IFRS 10.A) So, key words:

1. Power over the investee (existing rights that give the current ability to direct the relevant activities)
2. Exposure to variable returns
3. Ability to use power to affect those returns

### Exercise 14.1



**Transaction?** → They transfer assets and liabilities, so yes.

**Business?** → Not clear in this case, let's assume it is an integrated set of activities. Let's test if it has control:

#### 1. Power

- Does New obtain existing rights? → Yes, legal ownership of assets and liabilities
- Does New get the *legal* ability to exercise the right to direct at the time decisions are made? → Yes.
- Does New get the *practical* ability to exercise the rights? → Yes.

#### Exercise 14.1

##### ACCOUNTING BY THE ACQUIRER

\* On 1 July 2016, New Ltd acquired the following assets and liabilities from Day Ltd:

	Carrying amount	Fair value
Land	\$300 000	\$350 000
Plant (cost \$400 000)	280 000	290 000
Inventory	80 000	85 000
Cash	15 000	15 000
Accounts payable	(20 000)	(20 000)
Loans	(80 000)	(80 000)

In exchange for these assets and liabilities, New Ltd issued 100 000 shares that had been issued for \$1.20 per share but at 1 July 2016 had a fair value of \$6.50 per share.

##### Required

1. Prepare the journal entries in the records of New Ltd to account for the acquisition of the assets and liabilities of Day Ltd.

2. Prepare the journal entries assuming that the fair value of New Ltd shares was \$6 per share.

Can New use the rights to direct the relevant activities?

- Relevant activities: activities of the investee that significantly affect the investee's returns (IFRS 10.A)
- Yes, given the full ownership rights New can direct the activities performed with the acquired assets and liabilities. So, New obtains power over the business of day.

→ Yes, all yes to questions so there is power.

## 2. Exposure to variable returns

Land	350
Plant	290
Inventory	85
Cash	15
Accounts payable	20
Loan	80
Share capital (100 * 1.20)	120
Share premium (100 * (6.50-1.20))	530
Goodwill	10

→ Yes, New gets exposed to

variable returns from its investment, returns from these assets and liabilities are variable.

▪ Purchase consideration		650 (100*6.50)
▪ Land	350	
▪ Plant	290	
▪ Inventory	85	
▪ Cash	15	
▪ Accounts payable	(20)	
▪ Loans	(80)	
▪ Net assets acquired		640
▪ Goodwill		10

## 3. Ability to use power to affect those returns

→ Yes, New will become able to use power to affect those returns, New will obtain control over the business.

So, assume it is an **business combination** (transaction, control, business)

Does one of the IFRS 3 exemptions apply?

- Joint arrangement (an arrangement in which two or more parties have joint control)? → No.
- Entities or business under common control (the same ultimate parent)? → Not clear, let's assume no.

So, we can apply **IFRS 3 Business Combinations**

How does it work?

1. Identify acquirer: New Ltd.
2. Determine acquisition date: 1 July 2016
3. Recognize and measure assets acquired, liabilities assumed and any non-controlling interest

- Assets acquired and liabilities assumed:
  - land, plant inventory, cash, accounts payable, loans.
  - Also possible to identify assets/liabilities that were not on the balance sheet, e.g.

customer

relationships, brands

Recognize and measure goodwill or gain from bargain purchase:

Journal entry: (fair value)

Land	350
Plant	290
Inventory	85
Cash	15
Accounts payable	20
Loan	80
Share capital (100 * 1.20)	120
Share premium (100 * (6.50-1.20))	530
Goodwill	10

Question 2: purchase consideration < fair value net assets

Assuming fair value per share of \$6.00

Bargain purchase: consideration < fair value net assets recorded as gain in P/L

Journal entry:

▪ Purchase consideration		600 (100*6.00)
▪ Land	350	
▪ Plant	290	
▪ Inventory	85	
▪ Cash	15	
▪ Accounts payable	(20)	
▪ Loans	(80)	
▪ Net assets acquired		640
▪ Gain on bargain purchase		40

Land	350
Plant	290
Inventory	85
Cash	15
Accounts payable	20
Loan	80
Share capital (100 * 1.20)	120
Share premium (100 * (6.00-1.20))	480
Gain on bargain purchase (Recorded in P/L)	40

### Exercise 14.2

Is this a **business combination**?

Transaction? → Yes.

Business? → Yes, complete entity activities

Let's test if it has control:

#### 1. Power

- Does Desert obtain existing rights? → Yes, Desert obtains 100% of shares of Island
- Does Desert get the *legal* ability to exercise the right to direct at time decisions are made? → Yes.
- Does Desert get the *practical* ability to exercise the rights? → Yes.

Can New use the rights to direct the relevant activities? → Yes, because Dessert acquires 100% of the shares, Desert can direct the activities performed by Island.

**Exercise 14.2**

**ACQUISITION OF SHARES IN ACQUIREE**

★ On 1 January 2016, Desert Ltd acquired all the issued shares of Island Ltd. At this date the equity of Island Ltd consisted of:

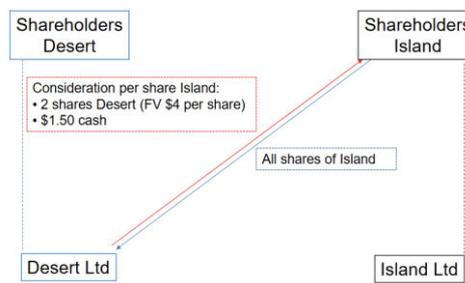
Share capital – 100 000 shares issued at \$5 per share	\$500 000
General reserve	200 000
Asset revaluation surplus	100 000
Retained earnings	50 000

In exchange for these shares, Desert Ltd agreed to pay the former shareholders of Island Ltd two shares in Desert Ltd, these having a fair value of \$4 per share, plus \$1.50 cash for each share held in Island Ltd. The costs of issuing the shares were \$800.

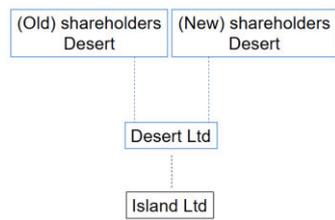
**Required**

Prepare the journal entries in the records of Desert Ltd to record these events.

### Transaction



### Setting after transaction



→ Yes, all yes to questions so there is power.

### 2. Exposure to variable returns

→ Yes, dividends.

### 3. Ability to use power to affect those returns

→ Yes.

So, it has control. So, assume it is an **business combination** (transaction, control, business)

Does one of the IFRS 3 exemptions apply?

- Joint arrangement (an arrangement in which two or more parties have joint control)? → No.
- Entities or business under common control (the same ultimate parent)? → Not clear, let's assume no.

So, we can apply **IFRS 3 Business Combinations**

#### Notes:

Will transaction affect the financial statements of Island? → No, they do not get shares, money etc. No transaction. There is only a transaction between Desert and the shareholders of Island.

Will Desert record the assets acquired and liabilities assumed in its separate financial statements?

→ No, Desert does not become legal owner, they only get the shares. The land and the plant are still in Island Ltd. Desert acquired the shares and will record the shares in its separate financial statements. Desert does not become legal owner of land, liabilities etc. They only get the shares. However, Desert will record the assets acquired and liabilities assumed in the consolidated financial statements. Hence, in case of a share deal, IFRS 3 is applied in the consolidated financial statements only.

Is island classified as a subsidiary (an entity that is controlled by another entity)?

→ Yes.

If the investment is classified as a subsidiary, an associate or an interest in a joint arrangement, then the investment is at initial recognition measured at the fair value of the consideration transferred.

#### Accounting in separate financial statements:

##### Fair value of the consideration transferred:

Fair value Desert shares transferred:	100 * 2 * \$4.00	800
Cash payment:	100 * \$1.50	150
Total consideration		950

Journal entry made by Desert regarding investment:

Investment in subsidiary	950	
Share capital		800
Cash		150

The transaction costs of an equity transaction are accounted for as a deduction from equity to the extent they are incremental costs directly attributable to the equity transaction that otherwise would have been avoided

Journal entry made by Desert regarding costs of issuing shares

Share capital	0.8	
Cash		0.8

### Exercise 14.3

Is this a **business combination**?  
(transaction, business, control)

Transaction? → Yes.

Business? → Yes, assets/liabilities  
acquired

Let's test if it has control:

#### 1. Power

- Does Trout obtain existing rights? → Yes, legal ownership of assets and liabilities
- Does Trout get the *legal* ability to exercise the right to direct at the time decisions are made? → Yes.
- Does Trout get the *practical* ability to exercise the rights? → Yes.

Can Trout use the rights to direct the relevant activities? → Yes, given the full ownership rights Trout can direct the activities performed with the acquired assets and liabilities.

→ Yes, all yes to questions so there is power.

#### 2. Exposure to variable returns

→ Yes, returns from these assets and liabilities are variable.

#### 3. Ability to use power to affect those returns

→ Yes.

So, it has control. So, assume it is an **business combination** (transaction, control, business)

Does one of the IFRS 3 exemptions apply?

- Joint arrangement (an arrangement in which two or more parties have joint control)? → No.

- Entities or business under common control (the same ultimate parent)? → Not clear, let's assume no.

So, we can apply **IFRS 3 Business Combinations**

Purchase accounting  
1. Identify acquirer: Trout

ltd.

2. Determine acquisition date: 1 December 2016

3. Recognize and measure assets acquired, liabilities assumed and any non-controlling interest

4. Recognize and measure goodwill or gain from bargain purchase:

Journal entry

#### Exercise 14.3

##### DETERMINING THE FAIR VALUE OF EQUITY ISSUED BY THE ACQUIRER

★ On 1 December 2016, Trout Ltd acquired all the assets and liabilities of Dory Ltd, with Trout Ltd issuing 100 000 shares to acquire them. The fair values of Dory Ltd's assets and liabilities at this date were:

Cash	\$ 50 000
Furniture and fittings	20 000
Accounts receivable	5 000
Plant	125 000
Accounts payable	15 000
Current tax liability	8 000
Annual leave payable	2 000

The financial year for Trout Ltd is January to December.

##### Required

1. Prepare the journal entries for Trout Ltd to record the business combination at 1 December 2016, assuming the fair value of each Trout Ltd share at acquisition date is \$1.90. Prepare any note disclosures for Trout Ltd at 31 December 2016 in relation to the business combination.
2. Assume the fair value of each Trout Ltd share at acquisition date is \$1.90. At acquisition date, the acquirer could only determine a provisional fair value for the plant. On 1 March 2017, Trout Ltd received the final value from the independent appraisal, the fair value at acquisition date being \$131 000. Assuming the plant had a further 5-year life from the acquisition date, explain how Trout Ltd will account for the business combination both at acquisition date and in the financial statements for 2017.
3. Prepare the journal entries for Trout Ltd to record the business combination at 1 December 2016, assuming the fair value of each Trout Ltd share at acquisition date is \$1.70.

##### Goodwill calculation

▪ Purchase consideration		190 (100*1.90)
▪ Cash	50	
▪ Furniture	20	
▪ Accounts receivable	5	
▪ Plant	125	
▪ Accounts payable	(15)	
▪ Current tax liability	(8)	
▪ Annual leave payable	(2)	
▪ Net assets acquired		175
▪ Goodwill		15



Assume Trout could only determine a provisional fair value for the plant as at acquisition date of \$125. On 1 March 2017, Trout received the final assessment of the fair value as at acquisition date, amounting to \$131. Economic life plant as of acquisition date is 5 years. How to account for the plant on 1 March 2017?

Goodwill calculation based on final fair value

Journal entry to adjust fair value

Purchase consideration		170 (100+\$1.70)
Cash	50	
Furniture	20	
Accounts receivable	5	
Plant	125	
Accounts payable	(15)	
Current tax liability	(8)	
Annual leave payable	(2)	
Net assets acquired		<u>175</u>
Gain on bargain purchase		5

Journal entry 2017 of additional depreciation expenses 2016 (acquisition date: 1

Cash	50
Furniture	20
Accounts receivable	5
Plant	125
Accounts payable	15
Current tax payable	8
Annual leave payable	2
Share capital	170
Gain on bargain purchase (recognized in P/L)	5

December 2016)

- Depreciation expenses booked in 2016 based on provisional value:  $1/12 * (125/5) = 2.1$
- Depreciation expense based on final fair value:  $1/12 * (131/5) = 2.2$

Retained earnings	0.1
Accumulated depreciation plant	0.1

Journal entry additional depreciation expenses Jan-Feb 2017

Booked $2/12 * 125/5$	4.2	
Should have been $2/12 * 131/5$		<u>4.4</u>
Adjustment	0.2	
Depreciation expenses		0.2
Accumulated depreciation plant		0.2

Now, what if fair value of shares is \$1.70 instead of \$1.90?

Goodwill calculation

Journal entry

• Purchase consideration	190
• Cash	50
• Furniture	20
• Accounts receivable	5
• Plant	131
• Accounts payable	(15)
• Current tax liability	(8)
• Annual leave payable	(2)
• Net assets acquired	<u>181</u>
• Goodwill	9

Was 125 → increase with 6

Was 15 → decrease with 6

Plant (cost) (131-125)	6
Goodwill	6

## Consolidated financial statements

Example: If you want to invest in A, how do you determine how A is doing?

→ Most important here is how B is doing, because A is holding B.

Consolidation: we take all those entities together and prepare one set of financial statements for all them combined together (full picture).

Example Heineken 2024: "The consolidated financial statements are prepared as a consolidation of the financial statements of the Company and its subsidiaries. Subsidiaries are entities controlled by HEINEKEN. HEINEKEN controls an entity when it has power over the investee, is exposed or has the right to variable returns from its involvement with that entity and has the ability to affect those returns through its power over the entity."

The diagram illustrates the ownership structure and financial statements of two entities, A Ltd and B Ltd. A Ltd holds 100% of B Ltd. The financial statements for both entities are provided below.

A Ltd	
Investment in B	100
Equity	100

Balance sheet A	
Investment in B	100
Equity	100

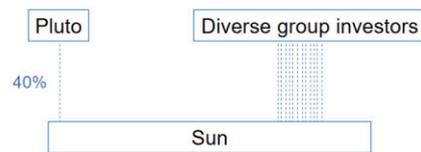
Income statement A	
Revenues	0
Expenses	0
Results from investment	10

100%

B Ltd	
PPE	50
Inventory	50
Equity	100

Balance sheet B	
PPE	50
Inventory	50
Equity	100

Income statement B	
Revenues	100
Cost of goods sold	80



**Exercise 20.3 (1)**

Does Pluto control Sun? (power, exposure, ability)

Diverse group of investors:  
 • Few attend general shareholder meetings  
 • Pluto nominated 3 new directors and expects that they will be appointed during the next annual meeting  
 • Current board has 5 members

1. Power

- Does Pluto obtain existing rights? → Yes, they have 40% voting rights of ordinary shares
- Does Pluto get the *legal* ability to exercise the right to direct at the time decisions are made? → Yes.
- Does Pluto get the *practical* ability to exercise the rights? → Yes.

Can Pluto use the rights to direct the relevant activities? → Yes, given that other rights are widely dispersed, Pluto has the ability to direct the activities the directors should perform. They have 40%, but if nobody of the other investors show up you can make decisions yourself.

→ Yes, all yes to questions so there is power.

2. Exposure to variable returns

→ Yes, returns from these assets and liabilities are variable.

3. Ability to use power to affect those returns

→ Yes.

So, Pluto has control over Sun. Hence, Pluto should consolidate Sun.



**Exercise 20.3 (2)**

Does Pluto control Sun in this setting? (power, exposure, ability)

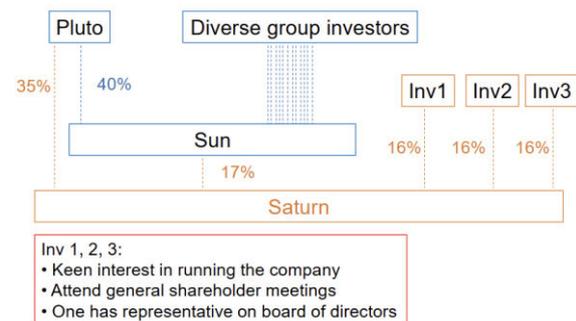
1. Power

- Does Pluto obtain existing rights? → Yes, they have 40% voting rights of ordinary shares
- Does Pluto get the *legal* ability to exercise the right to direct at the time decisions are made? → Yes.
- Does Pluto get the *practical* ability to exercise the rights? → Yes.

Can Pluto use the rights to direct the relevant activities? → No, investors will not provide Pluto the ability to direct the activities in Pluto's own interest. They have 40%, but there are 3 other shareholders with all 20%, big shareholders are likely to show up. So no power.

→ No power

So, Pluto has no control over Sun. Hence, Pluto should not consolidate Sun



Inv 1, 2, 3:  
 • Keen interest in running the company  
 • Attend general shareholder meetings  
 • One has representative on board of directors

### Exercise 20.3 (1) – part 2

Does Pluto control Sun in this setting? (power, exposure, ability)

#### 1. Power

- Does Pluto obtain existing rights? → Yes, they have 35% voting rights of ordinary shares, but also 17% indirect voting rights because Pluto can 'dictate' how Sun should vote.
- Does Pluto get the *legal* ability to exercise the right to direct at the time decisions are made? → Yes.
- Does Pluto get the *practical* ability to exercise the rights? → Yes.

Can Pluto use the rights to direct the relevant activities? → Yes, given that Pluto holds (directly 35% and indirectly 17%) more than 50% of the voting rights. Pluto has power over Sun.

# Lecture 2: Data Modeling, Relational Databases and Enterprise Systems

## Exercise 4.1

Q: Should Company A apply IFRS 3 "Business Combinations" to account for this event?

Transaction? Yes

Business? Yes, share in an operating manufacturing company. Let's test if it has control:

### 1. Power

- Does Company A obtain existing rights? → Yes, 51% of the shares.
- Does Company A get the *legal* ability to exercise the right to direct at the time decisions are made? → Yes.
- Does Company A get the *practical* ability to exercise the rights? → Yes.

Can Company A use the rights to direct the relevant activities?

- No, Company A only has protective rights, but they do not have enough to control the relevant activities. Company C has the rights to appoint key management personnel and approve the business plan and budgets. Hence, 51% is not sufficient to direct the relevant activities.

→ So no, company A does not have power

### 2. Exposure to variable returns

→ Yes, dividends.

### 3. Ability to use power to affect those returns

→ No, they do not have power.

So, no control, so, no **business combination** (transaction, control, business)

Does one of the IFRS 3 exemptions apply?

- Joint arrangement (an arrangement in which two or more parties have joint control)? → No.
- Entities or business under common control (the same ultimate parent)? → No.

So, Company A should not apply **IFRS 3 Business Combinations**

#### Question 1

At 1 June 2018, Company A acquired from Company C 51% of the issued shares of Company B for a total consideration of \$100 mln. Company A did not possess any shares in Company B before that date. After this transaction Company A holds 51% and Company C holds 49% of the shares of Company B. Company B is a manufacturing company active in the automobile industry.

As part of the transaction, Company A, Company B and Company C made the following agreements:

- Company C has the right to appoint, reassign or remove key management personnel of Company B;
- Company B needs approval of its business plan and budget from Company C only;
- Company A will receive 51% of the yearly dividend and Company C will receive 49%;
- Company B needs approval from both Company A and Company C for capital expenditures greater than required in the ordinary course of business and for the issue of equity instruments.

Before the transaction, Company A and Company B were not controlled by the same party.

## Exercise 2.1



Q: Prepare the journal entries regarding this transaction

Journal entry transaction (see next page for goodwill calc)

Cash	50	(cash acquired)
Cash	1500	(purchase consideration)
Land	600	
Accounts receivable	100	
Plant	600	
Customer relationship	200	
Goodwill	510	
Accounts payable	30	
Debt	500	
Contingent liability	30	

### Question 1

On 1 November 2016, Prt acquired all assets and liabilities of Sbs for a cash payment of \$1,500. In addition, all employees were transferred from Sbs to Prt. The carrying amount and estimated fair value of the assets and liabilities on Sbs's balance sheet were at this date:

	Carrying amount	Fair value
Cash	\$50	\$50
Land	\$400	\$600
Accounts receivable	\$100	\$100
Plant	\$300	\$600
Accounts payable	\$30	\$30
Debt	\$500	\$500

In addition, Sbs has contractual customer relationships with an estimated fair value of \$200 and Sbs has a contingent liability relating to a present obligation that arises from past events but that is not recognized in the financial statements of Sbs because it is not probable that an outflow of resources embodying economic benefits will be required to settle the obligation. The fair value of this contingent liability is \$30.

The financial year for Prt is January to December. Sbs and Prt did not have the same ultimate parent before the acquisition. The tax rate is 0%. Prt applies straight line depreciation and books its depreciation expenses monthly.

Notes:

- Regular intangible assets are amortized, for goodwill we do not amortize it under IFRS.
- Recognize contingent liability, if the cash outflow is less than 50%, if it is higher than it's a provision. If you do not include it, than the goodwill will be too low.
- You do not add 'employees' on the balance sheet because you do not control them. Different e.g. for a soccer club.

Goodwill calculation

▪ Purchase consideration		1500
▪ Cash	50	
▪ Land	600	
▪ Accounts receivable	100	
▪ Plant	600	
▪ Customer relationship	200	
▪ Accounts payable	(30)	
▪ Debt	(500)	
▪ Contingent liability	(30)	
▪ Net assets acquired		990
▪ Goodwill		510

**Provisional fair value**

Assume that PRT could only determine a provisional fair value for the plant as at acquisition date of \$600. On 1 July 2017, PRT received the final assessment of the fair value as at acquisition date, amounting to \$660. Economic life plant as of acquisition date is 10 years. Expected residual value \$0.

How to account for the plant on 1 July 2017?

→ Calculate goodwill again. Difference in 'plant', increase with 60 (660-600). Goodwill decreases therefore with 60.

**Journal entry**

Plant (cost) (660 – 600)	60
Goodwill	60

**Journal entry additional depreciation expenses 2016**

- Depreciation expenses booked in 2016 based on provisional value:  $2/12 * (600/10) = 10$
- Depreciation expenses based on final fair value:  $2/12 * (660/10) = 11$

Retained earnings	1	
Accumulated depreciation plant		1

(retained earnings is part of equity)

**Journal entry additional depreciation expenses Jan- June 2017**

Booked	
Should have been	6/12
Adjustment	
Depreciation expenses	
Accumulated	
depreciation plant	3

**Exercise 21.4**

**Exercise 21.4**

**BUSINESS COMBINATION VALUATION AND PRE-ACQUISITION ENTRIES**

★ On 1 July 2013, Pyxis Ltd acquired all the share capital of Gemini Ltd for £218 500. At this date, Gemini Ltd's equity comprised:

Share capital – 100 000 shares	£100 000
General reserve	50 000
Retained earnings	36 000

All identifiable assets and liabilities of Gemini Ltd were recorded at fair value as at 1 July 2013 except for the following:

	Carrying amount	Fair value
Inventory	£27 000	£35 000
Land	75 000	90 000
Equipment (cost £100 000)	50 000	60 000

The equipment is expected to have a further 10-year life. All the inventory was sold by June 2014. The tax rate is 30%.

On 30 June 2014, the directors of Gemini Ltd decided to transfer £25 000 from the general reserve to retained earnings.

**Required**

Prepare the consolidation worksheet entries for the preparation of consolidated financial statements for Pyxis Ltd and its subsidiary Gemini Ltd as at:

- 1 July 2013
- 30 June 2014.

Fair value assets acquired		
Inventory	35	
Land	90	
Equipment	60	
Cash	<u>48</u>	
Total fair value assets acquired		233
Fair value liabilities assumed		
Debt	<u>14</u>	
Total fair value liabilities assumed		<u>14</u>
Fair value net assets acquired		219

**Step 1: Fair value net assets acquired adjustment**

Yearly revenue	200
Expenses other than depreciation expenses	0
Carrying amount equipment just before transaction	100
Fair value equipment at acquisition date	200
Remaining useful life	2 years
Expected residual value	0

Depreciation expenses in consolidated financial statements after acquisition (based on fair value)  $(200 - 0) / 2 = 100$

In most countries tax authorities do not accept fair value adjustments recognized in acquisitions in which shares are acquired

Depreciation expenses tax authorities use to calculate the required tax payments (based on carrying amount)  $(100 - 0) / 2 = 50$

**Step 2: Tax impact fair value**

Note: Tax authorities do not accept fair value as a basis for depreciation because fair value is higher than the carrying amount, so therefore depreciation expenses would be higher, so lower profit before tax, so lower tax payable. Tax payment you continue with the old carrying amount.

In accounting we prefer to show tax expenses based on tax rate  
Solution: make adjustment to tax amount presented

Revenues	200	
Depreciation expenses (based on fair value)	<u>100</u>	
Profit before tax		100
Tax payment	45	
Deferred tax adjustment	<u>15</u>	
Tax expenses		<u>30</u>
Net income		70

Journal entry year 1 & 2	
Deferred tax liability (BS)	15
Deferred tax adjustment (IS)	15

This journal entry can only be made if a deferred tax liability is booked at time of acquisition

**Required tax payment year 1 and 2**

Revenues	200
Depreciation expenses according to tax authorities (based on carrying amount before acquisition)	<u>50</u>
Profit before tax	150
Required tax payment (30%)	45

**How does P/L look like if required tax payment is used as tax expenses?**

Revenues	200
Depreciation expenses in consolidated FS (based on fair value)	<u>100</u>
Profit before tax	100
Tax expenses (assume equal to tax payment)	<u>45</u>
Net income	55

Taxes as % of profit before tax:  $45 / 100 = 45\%$   
However, tax rate is 30%

In accounting we prefer to show tax expenses based on tax rate (30%)

**value adjustment**

**Continuation step 2: Tax impact fair**

BS before acquisition		BS after acquisition for consolidation	
Equipment	100	Equipment	200
.....	.....	.....	DTL 30
BS year 1 for consolidation		P/L year 1 for consolidation purposes	
Equipment	200	Revenues	200
Acc deprec	-100	Depreciation expenses (based on FV)	<u>100</u>
	100	Profit before tax	100
	DTL 15	Tax payment	45
Deferred tax liability (BS)	15	Deferred tax adjustment	<u>15</u>
Deferred tax adjustment (IS)	15	Tax expenses	<u>30</u>
		Net income	70
BS year 2 for consolidation		P/L year 2 for consolidation purposes	
Equipment	200	Revenues	200
Acc deprec	-200	Depreciation expenses (based on FV)	<u>100</u>
	0	Profit before tax	100
	DTL 0	Tax payment	45
Deferred tax liability (BS)	15	Deferred tax adjustment	<u>15</u>
Deferred tax adjustment (IS)	15	Tax expenses	<u>30</u>
		Net income	70

Amount of the deferred tax liabilities at time of acquisition: Summarized:

**Approach 1**

Year 1:  $15 = \Delta \text{ depreciation expenses } (100 - 50) * 30\% = 15$   
Year 2:  $15 = \Delta \text{ depreciation expenses } (100 - 50) * 30\% = 15$   
Total: 30

**Approach 2**

Fair value adjustment \* tax rate:  $(200 - 100) * 30\% = 30$

#### Continuation exercise 21.4

##### Step 2: Tax impact fair value adjustment

Tax impact fair value adjustments (tax rate 30%)		
Inventory (FA adjustment: 35-27=8)		2.4
Land (FA adjustment: 90-75=15)	4.5	
Equipment (FA adjustment: 60-50=10)	<u>          </u>	4
Total tax impact (deferred tax liability to be created):		9.9

##### Step 3: Fair value net assets acquired including tax impact

Fair value net assets acquired		219
Tax impact fair value adjustments (liability)	<u>          </u>	9.9-
Fair value net assets acquired including tax impact		209.1

##### Step 4: Value investment

Consideration transferred to acquire shares		218.5
Fair value of previous held equity interests	0	
Value non-controlling interest	<u>          </u>	0
Total value investment		218.5

##### Step 5: Goodwill

Total value investment		218.5
Fair value net assets acquired (including tax impact)	<u>          </u>	209.1-
Goodwill	9.4	

## Step 6: Prepare consolidated balance sheet

	BS Pyxis		BS Gemini		Adjustments		Consolidated BS		
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	
<b>Assets</b>									
Inventory			27.0		8.0		35.0		
Land			75.0		15.0		90.0		
Equipment			100.0			40.0	60.0		
Accum depr.				50.0	50.0				0.0
Cash	181.5		48.0				229.5		
Goodwill					9.4		9.4		
Investment	218.5					218.5			
<b>Liabilities</b>									
Debt		200.0		14.0				214.0	
Def tax liab								9.9	
<b>Equity</b>									
Share capital		200.0		100.0	100.0			200.0	
General res.				50.0	50.0				
Retained earn.				36.0	36.0				
BC valuation reserve					32.5				
XXXXX Business combination valuation entries									
X Pre-acquisition entries									

In journal entry format

<b>Business combination valuation entries</b>		
Inventory (35-27)	Dr	8
Deferred tax liability (35-27)*30%	Cr	2.4
Business combination valuation reserve (8-2.4)	Cr	5.6
Land (90-75)	Dr	15
Deferred tax liability (90-75)*30%	Cr	4.5
Business combination valuation reserve (15-4.5)	Cr	10.5
Accumulated depreciation – equipment (remove amount)	Dr	50
Equipment (100 cost – 40 adjustment = 60 fair value)	Cr	40
Deferred tax liability (60-50)*30%	Cr	3
Business combination valuation reserve (50-40-3)	Cr	7
Goodwill	Dr	9.4
Business combination valuation reserve	Cr	9.4
<b>Pre-acquisition entries</b>		
Share capital	Dr	100
General reserve	Dr	50
Retained earnings	Dr	36
Business combination valuation reserve	Dr	32.5
Investment	Cr	218.5

These are the net amounts of the FA adjustment – the deferred tax liability (see step 2)

**Exercise 21.4 (2): Balance sheet one year after acquisition**

All inventory is sold. Additional assumptions:

- Revenue: 50.0
- Amount received in cash
- No new inventory purchased

Equipment is depreciated based on remaining useful life of 10 years

Directors of Gemini transferred 25.0 from general reserve to retained earnings

INVENTORY		Pyxis		Gemini		Adjustments at acquisition*		Adjustments 30 June 2014		Consolidated 30 June 2014	
		Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>	Inventory			0.0		8.0		0.0		0.0	
	Land			75.0						75.0	
	Equipment			100.0						100.0	
	Accum. depr.				55.0						55.0
	Cash	181.5		98.0						181.5	98.0
	Goodwill										
	Investment	218.5								218.5	
<b>Liabilities</b>	Debt		200.0		14.0						14.0
	Tax payable			1.5	6.9					1.5	6.9
	Def tax liab						2.4	0.0			
<b>Equity</b>	Share capital		200.0		100.0						100.0
	General res.				25.0						25.0
	Retained earn.				61.0						61.0
<b>P/L</b>	Revenue				50.0						50.0
	Cost of sales			27.0				8.0	0.0		
	Depreciation exp.			5.0							5.0
	Tax expenses (30%)			6.9	1.5						6.9
	BC valuation reserve						5.6	5.6			

37 \* Only for comparison purposes

LAND		Pyxis		Gemini		Adjustments at acquisition*		Adjustments 30 June 2014		Consolidated 30 June 2014	
		Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>	Inventory			0.0						0.0	
	Land			75.0	15.0				15.0	90.0	
	Equipment			100.0						100.0	
	Accum. depr.				55.0						55.0
	Cash	181.5		98.0						181.5	98.0
	Goodwill										
	Investment	218.5								218.5	
<b>Liabilities</b>	Debt		200.0		14.0						14.0
	Tax payable			1.5	6.9					1.5	6.9
	Def tax liab						4.5	4.5			
<b>Equity</b>	Share capital		200.0		100.0						100.0
	General res.				25.0						25.0
	Retained earn.				61.0						61.0
<b>P/L</b>	Revenue				50.0						50.0
	Cost of sales			27.0							27.0
	Depreciation exp.			5.0							5.0
	Tax expenses (30%)			6.9	1.5						6.9
	BC valuation reserve						10.5	10.5			

38 \* Only for comparison purposes

EQUIPMENT		Pyxis		Gemini		Adjustments at acquisition*		Adjustments 30 June 2014		Consolidated 30 June 2014	
		Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>	Inventory			0.0						0.0	
	Land			75.0						75.0	
	Equipment			100.0			40.0	40.0	60.0	100.0	60.0
	Accum. depr.				55.0	50.0		49.0	6.0		6.0
	Cash	181.5		98.0						181.5	98.0
	Goodwill										
	Investment	218.5								218.5	
<b>Liabilities</b>	Debt		200.0		14.0						14.0
	Tax payable			1.5	6.9					1.5	6.9
	Def tax liab						3.0	2.7			
<b>Equity</b>	Share capital		200.0		100.0						100.0
	General res.				25.0						25.0
	Retained earn.				61.0						61.0
<b>P/L</b>	Revenue				50.0						50.0
	Cost of sales			27.0							27.0
	Depreciation exp.			5.0			1.0				5.0
	Tax expenses (30%)			6.9	1.5						6.9
	BC valuation reserve						7.0	7.0			

39 \* Only for comparison purposes

Additional assumption: no other transactions took place  
Increase cash Gemini: 50.0 due to sale inventory and no cash outflows

		Pyxis		Gemini		Adjustments at acquisition*		Adjustments 30 June 2014		Consolidated 30 June 2014	
		Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>	Inventory			0.0	8.0	8.0		0.0		0.0	
	Land			75.0	15.0	15.0		15.0		90.0	
	Equipment			100.0		40.0		40.0		60.0	
	Accum. depr.				55.0	50.0		49.0		6.0	
	Cash	181.5		98.0						279.5	6.0
	Goodwill					9.4		9.4		9.4	
	Investment	218.5						218.5		218.5	
<b>Liabilities</b>	Debt		200.0		14.0						14.0
	Tax payable			1.5	6.9					1.5	6.9
	Def tax liab						2.4	0.0			
							4.5	4.5			
							3.0	2.7			
							9.9	7.2			
<b>Equity</b>	Share capital		200.0		100.0						100.0
	General res.				25.0						25.0
	Retained earn.				61.0						61.0
	Revenue				50.0						50.0
	Cost of sales			35.0							35.0
	Depreciation exp.			6.0							6.0
	Tax expenses (30%)			4.5	1.8						4.5
	BC valuation reserve						6.3	6.3			
	Net profit										6.3

40

Inventory + land + equipment:  
The amount of the P&L (profit loss) should be transferred to equity, than we have stand alone balance sheet.:

Journal entries:

		<b>Business combination valuation entries</b>		
		Dr	8	
		Cr	2.4	
		Cr	5.6	
		Dr	15	
		Cr	4.5	
		Cr	10.5	
		Dr	49	
		Cr	40	
		Cr	2.7	
		Dr	1	
		Cr	0.3	
		Cr	7	
		Dr	9.4	
		Cr	9.4	

Pre-recognition entries  
 General reserve 100  
 Investment 50  
 Business combination valuation reserve 50  
 Investment 28.5  
 Related earnings 25  
 General reserve 25

### Trial exam 3.4 (a):

#### Question 4

At 1 January 2016, company PXV acquired all the shares of company SXV. At that date the carrying amount of the inventory of SXV was \$100 while the fair value of the inventory amounted to \$200. Half of the inventory of SXV was sold in 2016 for a total amount of \$300. The remaining items were sold during 2017 for \$400. The tax rate is 30%.

- a. With respect to the inventory, which adjustments should PXV make to the amounts in the separate financial statements of SXV to prepare the consolidated financial statements as at 31 December 2016? The answer should include the amount of each account affected and whether it is an increase or decline of the amount. You are not required to show your calculations.

Impact fair value adjustment inventory one year after acquisition date

- PXV acquired all shares of SXV at 1 January 2016
- Value inventory at acquisition date:
  - Carrying amount: 100
  - Fair value: 200
- Half inventory sold in 2016 for 300
- Tax rate 30%

*Question:* impact fair value adjustment on consolidated financial statements at 31 December 2016?

	BS PXV		BS SXV		Adjustments		Consolidated BS	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Inventory			100.0		100.0		200.0	
<b>Liabilities</b>								
Def tax liab						30.0		30.0
BC valuation reserve						70.0		

#### Impact at acquisition date:

Inventory carrying amount was 100, the fair value is 200, so at the consolidated we want to see 200. So we need to make 100 debit adjustment.

There is an fair value adjustment, so we need an

deferred tax effect of 30%. The remaining goes to the reserve.

**Impact at 31/12/16:**

	PXV		SXV		Adjustments at acquisition*		Adjustments 31 Dec 2016	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Inventory			50.0		100.0		50.0	
Def tax liab						30.0		15.0
<b>P/L</b>								
Revenue				300.0				
Cost of sales			50.0				50.0	
Tax expenses (30%)				75.0				15.0
BC valuation reserve						70.0		70.0

47 \* Only for comparison purposes

No impact on revenue; sales price not affected

Cost of Sales 50.0 higher due to FV adjustment

Higher costs → lower taxes

Adjustment remaining 50 \* 30% adjustment

Impact:

- Inventory 50 higher
- Deferred tax liab 15
- Cost of sales 50 higher
- Tax expenses 15 lower

**Question 2**  
At 1 October 2017, Company P acquired 100% of the shares of Company S for \$500,000. Before the transaction, Company P and Company S were not controlled by the same party. The balance sheets of Company P and Company S as at 1 October 2017 (just before the acquisition) were:

Assets	Balance Sheet Company P - 1 October 2017		Equity & Liabilities	
Cash	600,000		Share capital	500,000
			Retained earnings	100,000
<b>Total</b>	<b>600,000</b>		<b>Total</b>	<b>600,000</b>

Assets	Balance Sheet Company S - 1 October 2017		Equity & Liabilities	
Cash	50,000		Share capital	100,000
Inventory	50,000		Retained earnings	100,000
Plant	200,000		Debt	100,000
<b>Total</b>	<b>300,000</b>		<b>Total</b>	<b>300,000</b>

In addition, the following is known about Company S as at 1 October 2017:

- The fair value of the customer contracts amounts to \$50,000.
- There is an unrecorded internally generated brand. The costs to develop the brand are estimated at \$10,000. The fair value of the brand is estimated at \$20,000.
- The fair value of the inventory is \$60,000.
- The fair value of the plant is \$300,000. The plant was originally acquired for \$400,000.
- The fair value of the debt is \$90,000.
- There is a contingent liability, but Company S did not recognize this contingent liability because it is not probable that an outflow of resources embodying economic benefits will be required to settle the obligation. The fair value of the contingent liability is \$20,000.

The tax rate is 30%. Company P applies straight line depreciation and books its depreciation expenses monthly.

At the end of the year half of the inventory is there, it was 100, so 50. Half of the inventory was sold, they got 300. The cost of sales was 50% of 100, so 50. Tax expense is 300-50 x 30%.

At the consolidated:

Fair value inventory is 200, 50% is left, so that's 100. So need adjustment of 50. Inventory 200, 50% is sold, so COS is 100, so we need an adjustment of 50. We have adjustment in tax, 200 \* 0.30 = 60, so adjustment of 15.

Fair value adjustment does not affect the sales

Inventory is sold, we include the fair value impact, sold 200 \* 50% = 100, so adjustment of 50

Tax expenses adjustment of 15, because higher costs corresponds to lower taxes

## Lecture 3

### Trial Exam 4.2

The transaction is between P and the shareholders of S, S itself is not involved so it stays the same.

Question: Prepare consolidated balance sheet right after transaction

#### Step 1: Fair value net assets acquired

Cash	50
Inventory	60
Plant	300
Brand	<u>20</u>

Customer contacts	50
Total fair value assets acquired:	480
Debt	90 -
Contingent liability	20 -
Fair value net assets acquired	370

### Step 2 Tax impact fair value adjustments

Fair value adjustment → higher carrying amount → higher expenses in consolidated financial statements (FS) → lower profit before tax

Tax authorities often do not accept fair value adjustment for calculation tax payment → profit before tax for consolidated FS is lower than for tax purposes → tax payment is higher than 'profit before tax in FS x tax rate'

Solution in future FS: journal entry:

Deferred tax liability (BS)	XXX	
Deferred tax adjustment (P/L)		XXX

At acquisition date: create deferred tax liability: 'fair value adjustment x tax rate'

### Tax impact fair value adjustments (tax rate 30%)

• Inventory (FA adjustment: 10 (increase asset))	3
• Plant (FA adjustment: 100 (increase asset))	30
• Brand (FA adjustment: 20 (increase asset))	6
• Customer contracts (FA adjustment: 50 (increase asset))	15
• Contingent liability (FA adjustment: 20 (increase liability))	- 6
• Debt (FA adjustment: 10 (decrease liability))	3
• Total tax impact (deferred tax liability to be created)	51

*Note:* Because consolidated uses fair value, you get a lower profit than the profit used for tax. It means that you get a mismatch. Because you pay a lot of taxes compared to profit, using fair value. You solve it by creating a DTL at the moment of acquisition, and then later on you release the DTL in the P&L. That means that we have a benefit in the P&L, that compensate for the relatively high payment.

Due to contingent liability, next year commercial purposes you have lower expenses than for tax purposes. An increase in an asset leads to a DTL, increase in liability results in a DTA

### Step 3 Fair value net assets acquired including tax impact

Fair value net assets acquired	370
Tax impact fair value adjustments (liability)	51-
Fair value net assets acquired including tax impact	319

### Step 4 Value investment

Consideration transferred to acquire shares		500
Fair value of previous held equity interests	0	
Value non-controlling interest		0
Total value investment		500

### Step 5 Goodwill

Value investment	500
Fair value net assets acquired (including tax impact)	319-
Goodwill	181

	BS P		BS S		Adjustments		Consolidated BS	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Cash	100		50				150	
Inventory			50		10		60	
Plant			400			100	300	
Accum depr.				200	200			0
Brand					20		20	
Customer contract					50		50	
Goodwill					181		181	
Investment	500					500		
<b>Liabilities</b>								
Debt				100	10			90
Contingent liability						20		20
Def tax liab					6	3		51
<b>Equity</b>								
Share capital		500		100	100	3		500
Retained earn.		100		100	100	7		100
<b>BC valuation reserve</b>					300	7		
					14	70		
						14		
						35		
						181		
						7		

### Step 6 Prepare consolidated balance sheet

These are the net amounts of the FA adjustment – the deferred tax liability (see step 2)

XXXXXX Business combination valuation entries  
X Pre-acquisition entries



Q4.2(d): Assume now that the plant value of \$300 is a provisional fair value. On 29 June 2018, Company P received the final value from the independent appraisal. The final fair value at acquisition date was \$250. The plant had a further 5-year economic useful life from the acquisition date onwards. The residual value after 5 years is expected to be \$100. What is the carrying amount of the plant in the consolidated interim financial statements as at 30 June 2018?

**Provisional fair value:** It takes a while to determine all the fair values, so then you are allowed to make an estimate (provisional) fair values.

- Provisional fair value 300
- Final fair value 250

If final value is known within one year after acquisition date, numbers are adjusted as if final fair value was known at acquisition date → goodwill also changes.

Carrying amount 30/6 based on fair value 250:

Fair value	250	
Depreciation $9/12 * ((250-100)/5)$ oct-jun)	<u>22.5</u>	(9 months of depreciation expenses,
Carrying amount	227.5	

These 9 months of depreciation expenses adjusted in:

- Previous year -> retained earnings
- This year P/L0

### Exercise 21.6 (1)

Assumption: tax effects regarding change in value of initial investment of 20% can be ignored

#### Exercise 21.6

#### PARENT HOLDS PREVIOUSLY ACQUIRED INVESTMENT, CONSOLIDATION WORKSHEET

★★ On 1 December 2009, Reticulum Ltd acquired 20% of the shares of Dorado Ltd for £10 000. These were classified as a financial investment by Reticulum Ltd with changes in fair value being recognised in other comprehensive income. At 30 June 2013, these were recorded at a fair value of £20 400. Reticulum Ltd acquired the remaining 80% of the share capital of Dorado Ltd for £81 600 on 1 July 2013 when the equity of Dorado Ltd consisted of:

Share capital – 50 000 shares	£50 000
Retained earnings	30 000

All identifiable assets and liabilities of Dorado Ltd were recorded at amounts equal to fair value, except as follows:

	Carrying amount	Fair value
Inventory	£20 000	£25 000
Plant (cost £80 000)	60 000	70 000

The plant is expected to have a further useful life of 5 years. All the inventory on hand at 1 July 2013 was sold by 31 December 2013.

The income tax rate is 30%.

At 30 June 2015, the information below was obtained from both entities.

#### Required

1. Prepare the consolidation worksheet entries for the preparation of consolidated financial statements for Reticulum Ltd and its subsidiary, Dorado Ltd, as at 1 July 2013.

### Transaction related journal entries

1. Recognize previously held equity interest at fair value & gain/loss in P/L if applicable  
Investment already recognized at FV, however gain/loss not yet recorded in P/L

Financial asset reserve	10.4	
Finance income		10.4

2. Purchase additional shares Dorado

Investment	81.6	
Cash		81.6

### Step 1 Fair value net assets acquired

#### Fair value assets acquired

Inventory	25	
Plant	70	
Cash	20	
Brands		5
Total fair value assets acquired:		120

#### Fair value liabilities assumed

Debt	20	
Total fair value liabilities assumed:		20

Fair value net assets acquired: 100

### Step 2 Tax impact fair value adjustments

#### Tax impact fair value adjustments (tax rate 30%)

Inventory (FA adjustment 5):	1.5	
Plant (FA adjustment 10):	3.0	
Brands (FA adjustment 5):	1.5	
		6.0

### Step 3 Fair value net assets acquired including tax impact

1. Before transaction (Separate) balance sheet Reticulum			
Cash	179.6	Share cap.	50
Investment	20.4	Retained earnings	50
		Financial asset reserve	10.4
		Debt	89.6
<b>Total</b>	<b>200</b>	<b>Total</b>	<b>200</b>

3. After transaction (Separate) balance sheet Reticulum			
Cash	98	Share cap.	50
Investment	102	Retained earnings	50
		Earnings of the year	10.4
		Debt	89.6
<b>Total</b>	<b>200</b>	<b>Total</b>	<b>200</b>

(Separate) balance sheet Dorado			
Inventory	20	Share capital	50
Plant	80	Retained earnings	30
Accum. depr	-20	Debt*	20
Cash*	20		
<b>Total</b>	<b>100</b>	<b>Total</b>	<b>100</b>

Fair value net assets acquired:		100
Tax impact fair value adjustments:	<del>6</del>	
Fair value net assets acquired including tax impact:		94

#### Step 4 Value investment

	BS Reticulum		BS Dorado		Adjustments		Consolidated BS		
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	
<b>Assets</b>									
Inventory			20.0		5.0		25.0		Consideration transferred to acquire shares: 81.6
Brand					5.0		5.0		Fair value of previous held equity interests: 20.4
Plant			80.0			10.0	70.0		Value non-controlling interest: 0.0
Accum depr.				20.0	20.0			0.0	Total fair value investment: 102.0
Cash	98.0		20.0				118.0		
Goodwill					8.0		8.0		
Investment	102.0					102.0			
<b>Liabilities</b>									
Debt		89.6		20.0			109.6		
Def tax liab						1.5	6.0		
						1.5			
						3.0			
						6.0			
<b>Equity</b>									
Share capital		50.0		50.0	50.0		50.0		
Retained earn.		60.4		30.0	30.0		60.4		
BC valuation reserve					22.0				
						3.5			
						3.5			
						7.0			
						8.0			
						22.0			

XXXXX Business combination valuation entries  
X Pre-acquisition entries

Including 10.4 earnings of the year

	102.0	
Fair value net assets acquired (including tax impact):		94.0 -
Goodwill:		8.0

#### Step 6 Consolidated balance sheet

## In journal entry format

### Exercise 21.6 (2)

Q2. Prepare the consolidation worksheet entries and the consolidation worksheet for the preparation of consolidated financial statements for Reticulum Ltd and its subsidiary,

Dorado Ltd, as at 30 June 2015.

#### Business combination valuation entries

Inventory(25-20)	Dr	5	
Deferred tax liability (25-20)*30%	Cr		1.5
Business combination valuation reserve (5-1.5)	Cr		3.5
Brand (5-0)	Dr	5	
Deferred tax liability (5-0)*30%	Cr		1.5
Business combination valuation reserve (5-1.5)	Cr		3.5
Accumulated depreciation – plant (remove amount)	Dr	20	
Plant (80-70)	Cr		10
Deferred tax liability (70-60)*30%	Cr		3
Business combination valuation reserve (20-10-3)	Cr		7
Goodwill	Dr	8.0	
Business combination valuation reserve	Cr		8.0
Pre-acquisition entries			
Share capital	Dr	50	
Retained earnings	Dr	30	
Business combination valuation reserve	Dr	22	
Investment	Cr		102

For the year ending 30 June 2015	Reticulum Ltd	Dorado Ltd
Profit before tax	£ 50 000	£ 40 000
Income tax expense	(20 000)	(15 000)
Profit	30 000	25 000
Retained earnings (1/7/14)	50 000	35 000
	80 000	60 000
Transfer to general reserve (approved by parent)	(20 000)	(5 000)
Retained earnings (30/6/15)	£ 60 000	£ 55 000

#### Statement of Financial Position 30 June 2015

Cash	£ 13 000	£ 14 000
Accounts receivable	30 000	25 000
Inventory	70 000	50 000
Investment in Dorado Ltd	102 000	—
Plant	200 000	80 000
Accumulated depreciation	(85 000)	(44 000)
Total assets	£330 000	£125 000
Provisions	65 000	10 000
Payables	20 000	5 000
Total liabilities	£ 85 000	£ 15 000
Share capital	150 000	50 000
General reserve	35 000	5 000
Retained earnings	60 000	55 000
Total equity	245 000	110 000
Total liabilities and equity	£330 000	£125 000

## Balance sheet two years after acquisition

- All inventory is sold in 2013
- Brand is amortized in 5 years
- Plant is depreciated based on remaining useful life of 5 years

INVENTORY		Reticulum		Dorado		Adjustments at acquisition*		Adjustments		Consolidated	
		Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>	Inventory	70.0		50.0		5.0		0.0		120.0	
	Brand										
	Accum amort.										
	Plant	200.0		80.0							
	Accum depr.		85.0		44.0						
	Cash	13.0		14.0							
	Accounts rec.	30.0		25.0							
	Goodwill										
	Investment	102.0									
<b>Liab.</b>	Provisions		65.0		10.0						
	Def tax liab										
<b>Equity</b>	Share capital		20.0		5.0						
	Gen. res. 2014		150.0		50.0						
	Ret. earn. 2014		15.0		0.0						
			50.0		35.0						
<b>P/L</b>	Profit before tax		50.0		40.0						
	Tax expense	20.0		15.0							
	BC valuation reserve					3.5		3.5			

27

\* Only for comparison purposes

BRAND		Reticulum		Dorado		Adjustments at acquisition*		Adjustments		Consolidated	
		Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>	Inventory	70.0		50.0		5.0		5.0		120.0	
	Brand										
	Accum amort.										
	Plant	200.0		80.0							
	Accum depr.		85.0		44.0						
	Cash	13.0		14.0							
	Accounts rec.	30.0		25.0							
	Goodwill										
	Investment	102.0									
<b>Liab.</b>	Provisions		65.0		10.0						
	Def tax liab										
<b>Equity</b>	Share capital		20.0		5.0						
	Gen. res. 2014		150.0		50.0						
	Ret. earn. 2014		15.0		0.0						
			50.0		35.0						
<b>P/L</b>	Profit before tax		50.0		40.0						
	Tax expense	20.0		15.0							
	BC valuation reserve					3.5		3.5			

28

\* Only for comparison purposes

PLANT		Reticulum		Dorado		Adjustments at acquisition*		Adjustments		Consolidated	
		Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>	Inventory	70.0		50.0							
	Brand										
	Accum amort.										
	Plant	200.0		80.0		20.0	10.0	10.0	270.0		
	Accum depr.		85.0		44.0		16.0		113.0		
	Cash	13.0		14.0							
	Accounts rec.	30.0		25.0							
	Goodwill										
	Investment	102.0									
<b>Liab.</b>	Provisions		65.0		10.0						
	Def tax liab										
	Payables		20.0		5.0						
<b>Equity</b>	Share capital		150.0		50.0						
	Gen. res. 2014		15.0		0.0						
	Ret. earn. 2014		50.0		35.0						
<b>P/L</b>	Profit before tax		50.0		40.0						
	Tax expense	20.0		15.0							
	BC valuation reserve					7.0		7.0			

29

\* Only for comparison purposes

		Reticulum		Dorado		Adjustments at acquisition*		Adjustments		Consolidated	
		Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>	Inventory	70.0		50.0		5.0		5.0		120.0	
	Brand										
	Accum amort.										
	Plant	200.0		80.0		20.0	10.0	10.0	270.0		
	Accum depr.		85.0		44.0		16.0		113.0		
	Cash	13.0		14.0							
	Accounts rec.	30.0		25.0							
	Goodwill					8.0		8.0			
	Investment	102.0				102.0		102.0			
<b>Liab.</b>	Provisions		65.0		10.0						
	Def tax liab										
	Payables		20.0		5.0						
<b>Equity</b>	Share capital		150.0		50.0						
	Gen. res		35.0		5.0						
	Ret. earn.		30.0		30.0						
<b>P/L</b>	Profit before tax		50.0		40.0						
	Tax expense	20.0		15.0							
	BC valuation reserve					22.0		22.0			

30

\* Only for comparison purposes

## Balance sheet

		Consolidated		Allocation profit		Consolidated BS	
		Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>	Inventory	120.0				120.0	
	Brand		5.0				5.0
	Accum amort.				2.0		2.0
	Plant	270.0				270.0	
	Accum depr.		113.0				113.0
	Cash	27.0				27.0	
	Accounts rec.	55.0				55.0	
	Goodwill	8.0				8.0	
	Investment						
<b>Liab.</b>	Provisions		75.0				75.0
	Def tax liab		2.7				2.7
	Payables		25.0				25.0
<b>Equity</b>	Share capital		150.0				150.0
	Gen. res		40.0				40.0
	Ret. earn.		24.4				24.4
<b>P/L</b>	Profit before tax		87.0				87.0
	Tax expense	34.1					34.1
					52.9		52.9
							52.9

Net profit

## Consolidation table (full)

		Reticulum		Dorado		Adjustments at acquisition*		Adjustments		Consolidated	
		Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>	Inventory	70.0		50.0		5.0		5.0		120.0	
	Brand										
	Accum amort.										
	Plant	200.0		80.0		20.0	10.0	10.0	270.0		
	Accum depr.		85.0		44.0		16.0		113.0		
	Cash	13.0		14.0							
	Accounts rec.	30.0		25.0							
	Goodwill					8.0		8.0			
	Investment	102.0				102.0		102.0			
<b>Liab.</b>	Provisions		65.0		10.0						
	Def tax liab										
	Payables		20.0		5.0						
<b>Equity</b>	Share capital		150.0		50.0						
	Gen. res		35.0		5.0						
	Ret. earn.		30.0		30.0						
<b>P/L</b>	Profit before tax		50.0		40.0						
	Tax expense	20.0		15.0							
	BC valuation reserve					22.0		22.0			

XXXXX BC valuation entries  
X Pre-acquisition entries

\* Only for comparison purposes

Consolidated BS (summary + allocation profit)

In journal entry format

<b>Business combination valuation entries</b>			
Retained earnings (5 x 0.70)	Dr	3.5	
Business combination valuation reserve	Cr		3.5
<b>Brand</b>			
Accumulated amortization - brand	Dr	5.0	
Deferred tax liability	Cr		2.0
Profit before tax	Dr	1.0	
Tax expenses	Cr		0.3
Retained earnings	Dr	0.7	
Business combination valuation reserve	Cr		3.5
<b>Plant</b>			
Accumulated depreciation - plant	Dr	16	
Deferred tax liability	Cr		1.8
Depreciation expense	Dr	2	
Income tax expense	Cr		0.6
Retained earnings	Dr	1.4	
Business combination valuation reserve	Cr		7
<b>Goodwill</b>			
Business combination valuation reserve	Dr	8.0	
	Cr		8.0

<b>Pre-acquisition entries</b>			
Share capital	Dr	50	
Retained earnings	Dr	30	
Business combination valuation reserve	Dr	22	
Investment	Cr		102



at end (transfer price 0.9; original cost 0.7);

Hence, Mia sold part of the items to a third party which Mia bought for 2.1 ( $3.0 - 0.9$ )

Molly bought these originally from a third party for 1.8 ( $2.5 - 0.7$ )

Assume: Mia sold items for 4.0 (this assumption does not affect outcome)

2. Mia sold to Molly in current period (transfer price 2.5; original cost 1.7);  
 Molly has part of the items in inventory at end (transfer price 0.5; original cost 0.3);  
 Hence, Molly sold part of the items to a third party which Molly bought for 2.0 (2.5-0.5)  
 Mia bought these originally from a third party for 1.4 (1.7-0.3)

	Molly		Mia		Adjustments		Consolidated	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Inventory	0.5					0.2	0.3	
Deferred tax asset					0.06		0.06	
.....								
<b>Liabilities</b>								
Deferred tax liability								
Tax payable		0.9		0.24				1.14
.....								
<b>Equity</b>								
<b>P&amp;L</b>								
Revenue		5.0		2.5	2.5			5.0
Cost of sales	2.0		1.7		2.3		1.4	
Tax expense	0.9		0.24		0.06		1.08	
<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>Net income: 2.1</span> <span>Net income: 0.56</span> <span>Adjustment net income: 0.14</span> <span>Net income: 2.52</span> </div>								

Assume: Molly sold items for 5.0 (this assumption does not affect outcome)

	Molly		Mia		Adjustments		Consolidated	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Inventory			1.2		0.4		0.8	
Deferred tax asset					0.12		0.12	
.....								
<b>Liabilities</b>								
Deferred tax liability								
Tax payable		0.12						0.12
.....								
<b>Equity</b>								
<b>P&amp;L</b>								
Revenue		1.2			1.2			0.0
Cost of sales	0.8				0.8		0.0	
Tax expense	0.12				0.12		0.0	
<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>Net income: 0.28</span> <span>Adjustment net income: 0.28</span> <span>Net income: 0.0</span> </div>								

This amount is added to retained earnings

	Molly		Mia		Adjustments		Consolidated	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Inventory								
Deferred tax asset								
.....								
<b>Liabilities</b>								
Deferred tax liability								
Tax payable				0.24				0.36
.....								
<b>Equity</b>								
Retained earnings 1/1		0.28				0.28		
<b>P&amp;L</b>								
Revenue				2.0		0.0		2.0
Cost of sales	1.2				0.4		0.8	
Tax expense	0.24				0.12		0.36	
<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>Net income: 0.56</span> <span>Adjustment net income: 0.28</span> <span>Net income: 0.84</span> </div>								

Amounts from previous period

This amount is added to retained earnings

3. Molly sold to Mia in previous period (transfer price 1.2; original cost 0.8);  
 Mia sold all items in current period.  
 Assume: Mia sold items for 2.0 (this assumption does not affect outcome)

Financial statements previous year

Financial statements current year

4. Mia sold to Molly in previous period (transfer price 2.0; original cost 1.4);  
 Molly sold all items in current period.  
 Assume: Molly sold items for 3.0 (this assumption does not affect outcome)

Financial statements previous year

Financial statements current year

*Additional:* intragroup sale of equipment previously regarded as inventory:

On 1 July 2016, Molly Ltd sold an item of machinery to Mia Ltd for \$6000. This item had cost Molly Ltd \$4000. Molly Ltd regarded this item as inventory whereas Mia Ltd intends to use it as a non-current asset. Mia Ltd charges depreciation at the rate of 10% p.a. on cost.

	Molly		Mia		Adjustments		Consolidated	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Machinery			6.0			2.0	4.0	
Accumulated depreciation				0.3	0.1			0.2
Deferred tax asset			0.09		0.57		0.66	
<b>Liabilities</b>								
Deferred tax liability								
Tax payable		0.6						0.6
<b>Equity</b>								
<b>P&amp;L</b>								
Revenue		6.0			6.0			0.0
Cost of sales	4.0				4.0		0.0	
Depreciation expenses			0.3		0.1		0.2	
Tax expense	0.6			0.09	0.57		0.06	

$\frac{1}{2} \text{ year} \times 6.0 \times 10\%$        $\frac{1}{2} \text{ year} \times 4.0 \times 10\%$

Cost to Molly: \$4000 (treated as

inventory at Molly)

Mia intends to use as non-current asset (PPE), depreciation at 10% p.a. on cost

Depreciation  $\frac{1}{2} \text{ year} \times 6000 \times 10\% = 0.3$

Depreciation  $\frac{1}{2} \text{ year} \times 4000 \times 10\% = 0.2$

	Molly		Mia		Adjustments		Consolidated	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Machinery			6.0			2.0	4.0	
Accumulated depreciation				0.67	0.13			0.8
Deferred tax asset			0.2		0.64		0.84	
<b>Liabilities</b>								
Deferred tax liability								
Tax payable		0.6						0.6
<b>Equity</b>								
<b>P&amp;L</b>								
Gain on sale of machinery		2.4			2.4			0.0
Depreciation expenses		0.4		0.67		0.27		0.8
Tax expense	0.6			0.2	0.64		0.24	

$4.0/5 \times \frac{1}{2} \text{ year}$       Sale price - Carrying amount  $6.0 - (4.0 - 0.4) = 2.4$        $6.0/4.5 \times \frac{1}{2} \text{ year}$        $4.0/5 \times 1 \text{ year}$

*Additional:* intragroup sale of equipment previously regarded as non-current asset:

On 1 July 2016, Molly Ltd sold a depreciable asset to Mia Ltd for \$6000. Molly Ltd had acquired the machinery

on 1 January 2016 for \$4000. Molly Ltd had charged 6 months of depreciation expenses before the sale. The useful life of the asset ends on 31 December 2020 and the residual value is \$0. Both companies apply straight-line depreciation.

Molly bought it on 1 Jan 2016 for \$4000 (PPE)

	Molly		Mia		Adjustments		Consolidated	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Inventory	2.0				0.6		1.4	
Deferred tax asset					0.18		0.18	
<b>Liabilities</b>								
Deferred tax liability								
Tax payable				0.18				0.18
<b>Equity</b>								
<b>P&amp;L</b>								
Revenue				2.0	2.0			0.0
Cost of sales			1.4		1.4		0.0	
Tax expense		0.18			0.18		0.0	

Net income: 0.42      Adjustment net income: 0.42      Net income: 0.0  
This amount is added to retained earnings

	Molly		Mia		Adjustments		Consolidated	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Inventory								
Deferred tax asset								
<b>Liabilities</b>								
Deferred tax liability								
Tax payable		0.3			0.18			0.48
<b>Equity</b>								
Retained earnings 1/1							0.42	
<b>P&amp;L</b>								
Revenue		3.0				0.0		3.0
Cost of sales	2.0				0.6		1.4	
Tax expense	0.3				0.18		0.48	

Net income: 0.7      Adjustment net income: 0.42      Net income: 1.12  
Amounts from previous period      This amount is added to retained earnings

Depreciated 6 months before sale

$$\text{Sale price} - \text{Carrying amount} = 6.0 - (4.0 - 0.4) = 2.4$$

$$\text{Depreciation at Mia: } 6000 / 4.5 \times \frac{1}{2} \text{ year} = 0.67$$

$$\text{Depreciation at Molly (pre-sale): } 4000 / 5 \times \frac{1}{2} \text{ year} = 0.4$$

e. Dividends

Assumptions: Investment is recorded at cost

	Molly		Mia		Adjustments		Consolidated	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Investment in Mia								
<b>Liabilities</b>								
Deferred tax liability								
Tax payable								
.....								
<b>Equity</b>								
Dividends paid			63.0			63.0	0.0	
<b>P&amp;L</b>								
Dividend revenue		63.0			63.0		0.0	
Tax expense	0.0						0.0	

Part of equity: Will be deducted from retained earnings at end of the year

Assumption: dividend receipt is not taxed at parent

# Lecture 4: Integrated Reporting

## Refresher trial

### exam 3.4(b),

Impact fair value adjustment inventory two years after acquisition date

#### Question 4

At 1 January 2016, company PXV acquired all the shares of company SXV. At that date the carrying amount of the inventory of SXV was \$100 while the fair value of the inventory amounted to \$200. Half of the inventory of SXV was sold in 2016 for a total amount of \$300. The remaining items were sold during 2017 for \$400. The tax rate is 30%.

b. With respect to the inventory, which adjustments should PXV make to the amounts in the separate financial statements of SXV to prepare the consolidated financial statements as at 31 December 2017? The answer should include the amount of each account affected and whether it is an increase or decline of the amount. You are not required to show your calculations.

#### Impact at acquisition date

See also Lecture 2

	BS PXV		BS SXV		Adjustments		Consolidated BS	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Inventory			100.0		100.0		200.0	
<b>Liabilities</b>								
Def tax liab						30.0		30.0
BC valuation reserve						70.0		

#### Impact at 31/12/16

See also Lecture 2

	PXV		SXV		Adjustments at acquisition*		Adjustments 31 Dec 2016		Consolidated 31 Dec 2016	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>										
Inventory			50.0		100.0		50.0		100.0	
Def tax liab						30.0		15.0		15.0
<b>P/L</b>										
Revenue								0.0		300.0
Cost of sales			50.0				50.0			100.0
Tax expenses (30%)			75.0				15.0			60.0
BC valuation reserve						70.0		70.0		

\* Only for comparison purposes

#### Summarized:

PXV acquired all shares of SXV at 1 January 2016. Value inventory at acquisition date:

- Carrying amount: 100
- Fair value: 200

Half inventory sold in 2016 for 300  
Remaining items were sold in 2017 for 400

Tax rate 30%

Question: impact fair value adjustment

on consolidated financial statements at 31 December 2017?



#### Notes on separate statement

- At the end of 2016, there is still inventory of 50, because half of it is not sold.
- There is revenue of 300, cost of sales is 50 (because half of it), tax expense is 250 \* 0.3

Notes on consolidated statement

- Fair value inventory is 200, half of it (100) is in inventory and the other 100 is in 'cost of sales'.

Notes on separate statement

- Everything is sold on the end of 2017, so no inventory

Impact:

- Retained earnings 35 lower
- Cost of sales 50 higher
- Tax expenses 15 lower

→ BC valuation reserve 70

Fair value adjustments

Dr Investment 30  
Cr Financial asset reserve 30  
in retained earnings

**Question 2**

At 1 July 2016, company P acquired 90% of the shares of S for \$900,000 cash. P had acquired 10% of the shares of S two years earlier for \$60,000. This investment, classified as a financial asset, was recorded at a fair value of \$90,000 on 1 July 2016. The changes in fair value had all been taken to other comprehensive income. The balance sheets of P and S as at 1 July 2016 (just before the acquisition) were:

Balance Sheet P - 1 July 2016			
Assets		Liabilities & Equity	
Cash	900,000	Share capital	500,000
Investment	90,000	Retained earnings	460,000
		Financial asset reserve	30,000
<b>Total</b>	<b>990,000</b>	<b>Total</b>	<b>990,000</b>

Balance Sheet S - 1 July 2016			
Assets		Liabilities & Equity	
Cash	50,000	Share capital	100,000
Inventory	50,000	Retained earnings	200,000
Plant	400,000	Debt	200,000
<b>Total</b>	<b>500,000</b>	<b>Total</b>	<b>500,000</b>

In addition, the following is known about company S as at 1 July 2016:

- There is an unrecorded internally generated brand. The costs to develop the brand are estimated at \$10,000. The fair value of the brand is estimated at \$50,000. The remaining useful life is 10 years and the expected residual value is \$0.
- The fair value of the inventory is \$80,000.
- The fair value of the plant is \$500,000. The plant was originally acquired for \$500,000. The remaining useful life is 8 years and the expected residual value is \$0.
- The fair value of the debt is \$200,000.

The tax rate is 30%. However, P does not have to pay taxes on changes in the fair value of investments in other entities. Straight line depreciation is applied.

**Refresher trial exam 2.2 →**

Notes:

P acquires 90% share capital S (consideration 900). They already had 10%, so after transaction: P owns 100% of S.

At fair value through OCI: change in FV is booked through Other Comprehensive Income instead of P/L and recorded as financial asset reserve

Journal entry prior years:

Purchase

Dr Investment 60  
Cr Cash 60

Impact at 31/12/17									
	PXV	SXV	Adjustments at acquisition*		Adjustments 31 Dec 2017		Consolidated 31 Dec 2017		
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	
<b>Assets</b>									
Inventory			0.0	199.0	0.0		0.0		
Def tax liab						30.0			0.0
Retained earnings							35.0		140.0
<b>P/L</b>									
Revenue									400.0
Cost of sales		50.0					50.0		100.0
Tax expenses (30%)		105.0					15.0		90.0
BC valuation reserve						70.0		70.0	

Transaction related journal entries

1. Recognize previously held equity interest at fair value & gain/loss in P/L Investment already recognized at FV, however gain/loss not yet recorded in P/L

Financial asset reserve	30
Finance income	30

2. Purchase additional shares S

Investment	900
Cash	900

### Step 1 Fair value net assets acquired

Inventory	80	
Plant	500	
Cash	<u>50</u>	
Brands		50
Total assets:	680	

Liabilities (Debt) 200 -

Net assets acquired: 480

### Step 2 Tax impact fair value adjustments (30%)

Inventory (FA adjustment 30):	
9	<u>30</u>
Plant (FA adjustment 100):	30
Brands (FA adjustment 50):	<u>15</u>
	54

1. Before transaction (Separate) balance sheet P				3. After transaction (Separate) balance sheet P			
Cash	900	Share cap.	500	Cash	0	Share cap.	500
Investment	90	Retained earnings	460	Investment	990	Retained earnings	460
		Financial asset reserve	30			Earnings of the year	30
<i>Total</i>	<i>990</i>	<i>Total</i>	<i>990</i>	<i>Total</i>	<i>990</i>	<i>Total</i>	<i>990</i>

### Step 3 Net assets including tax impact

480 (fair value net assets) - 54 (tax impact) = 426

### Step 4 Value investment

Consideration transferred to acquire shares:	900
Fair value previous interest:	<u>90</u>
Non-controlling interest:	0
Total FV investment:	990

### Step 5 Goodwill

Value investment:	990
Net assets (incl. tax impact):	<u>426</u>
Goodwill:	564

## Step 6 Consolidated balance sheet

	BS P		BS S		Adjustments		Consolidated BS	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Inventory			50		30		80	
Brand					50		50	
Plant			500		0		500	
Accum depr.				100	100			0
Cash	0		50				50	
Goodwill					564		564	
Investment	990					990		
<b>Liabilities</b>								
Debt				200				200
Def tax liab					9			54
					15			
					30			
					54			
<b>Equity</b>								
Share capital	500		100		100			500
Retained earn.	490		200		200			

BC valuation reserve Including 30 earnings of the year 690

XXXX Business combination valuation entries  
X Pre-acquisition entries

Company S		
	Debit	Credit
Cash	315,000	
Inventory	20,000	
Plant	375,000	
Debt		200,000
Revenue		600,000
Cost of sales	225,000	
Depreciation expenses	25,000	
Other expenses	50,000	
Tax expenses	90,000	

In 2016, the separate financial statements of P were only affected by the acquisition of S. S prepared the following separate trial balance regarding the period 1 July – 31 December 2016.

### Part 2 of trial exam 2.2

Financial statements end fiscal year

- All inventory sold in 2016
- Brand amortized in 10 years
- Plant depreciated over remaining life of 8y

### Consolidated P/L P-group 2016

Revenue:	600,000
Cost of sales:	255,000
Depreciation:	31,250
Amortization:	2,500
Other expenses:	50,000

$460,000 + 212,875$

Total

Consolidated BS P-group 31 December 2016			
Cash	315,000	Share capital	500,000
Inventory	20,000	Retained earnings	672,875
Plant	468,750	Debt	200,000
Goodwill	564,000		
Brand	47,500	DTL	42,375
<b>Total</b>	<b>1,415,250</b>	<b>Total</b>	<b>1,415,250</b>

	P		S		Adjustments at acquisition*		Adjustments		Consolidated	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>										
Inventory				30	30				80	
Brand				50	50				50	
Plant				500	0				500	
Accum amort.				125	0				0	2.5
Accum depr.		500		100	93.75				500	31.25
Cash	0		315						315	
Goodwill					564				564	
Investment	990					990		990		
<b>Liab.</b>										
Def tax liab					9					42.375
Debt				200	15				200	
<b>Equity</b>										
Share capital	500		100	100	30				100	28.125
Ret. earn.	460		200	200	54				200	460
<b>P/L</b>										
Revenue				600						600
Cost of sales			225		30				255	
Depr exp plant			25		6.25				31.25	
Amort exp brand					2.5				2.5	
Other expenses			50						50	
Financial income	30									30
Tax expense			90						9	
BC valuation reserve						690			690	1.875
<b>Total</b>										
					21				21	
					35				35	
					70				70	
					564				564	
					690				690	
										212.875

\* Only for comparison purposes

expenses:	337,750
Financial income:	30,000
Profit before tax:	291,250
Tax:	78,375
Profit after tax:	212,875

## Heineken 2017

- Business combinations: are accounted for using the acquisition method at the acquisition date (date control is transferred).
- Goodwill measured as: FV consideration transferred + FV previously-held equity interest + NCI value – net FV of identifiable assets & liabilities assumed.
- Negative excess → bargain purchase gain in profit or loss.

## Non-controlling interest (NCI)

NCI = share of net assets not belonging to parent.

→ If you e.g. have 90% shares, you will take the full assets into account, because you have control you have a say over all the assets. On the balance sheet, you record the assets (Debit) at 100%, but record share capital (credit) of the parent at 90%, and then 10% NCI.

## Example 23.3 Non-controlling interest (NCI) – Partial goodwill

### Notes:

- Norilsk Ltd (Parent), Rudny Ltd (Subsidiary).
- Consideration: \$290,160 for 90% share capital.
- Norilsk acquires 90%, shareholders Rudny have 10%.

Balance sheets after transaction for Norilsk results in adding 'Investment' for 290,160 and subtracting that amount from 'cash'.

### CONSOLIDATION WORKSHEET ENTRIES INCLUDING NCI

★ On 1 July 2016, Norilsk Ltd acquired 90% of the capital of Rudny Ltd for \$290 160. The equity of Rudny Ltd at this date consisted of:

Share capital	\$ 200 000
Retained earnings	80 000

The carrying amounts and fair values of the assets and liabilities recorded by Rudny Ltd at 1 July 2016 were as follows:

	Carrying amount	Fair value
Fittings	\$ 20 000	\$ 20 000
Land	90 000	100 000
Inventory	10 000	12 000
Machinery (net)	200 000	220 000
Liabilities	40 000	40 000

The machinery and fittings have a further 10-year life, benefits to be received evenly over this period. Differences between carrying amounts and fair values are recognised on consolidation. Norilsk Ltd uses the partial goodwill method.

The tax rate is 30%. All inventory on hand at 1 July 2016 is sold by 30 June 2017.

### Required

1. What are the entries for the consolidation worksheet if prepared immediately after 1 July 2016?
2. What are the entries for the consolidation worksheet if prepared at 30 June 2017? Assume a profit for Rudny Ltd for the 2016–17 period of \$20 000.
3. If the non-controlling interest had a fair value of \$31 800 on 1 July 2016, and the full goodwill method had been used, what entries in parts 1 and 2 above would change? Prepare the changed entries.

### Step 1 Fair value net assets Rudny

Fittings	20,000
Land	100,000
Inventory	12,000
Machinery	220,000
Total assets	352,000
Liabilities (Debt)	40,000 –
FV net assets:	312,000

### Step 2 Tax impact fair value adjustments (30%)

Land (FA adjustment 10,000):	3,000
Inventory (FA adjustment 2,000):	600
Machinery (FA adjustment 20,000):	6,000
Total tax impact FV adjustment:	9,600

### Step 3 Net assets incl. tax impact

$$312,000 - 9,600 = 302,400$$

### Step 4 Value investment (partial goodwill)

Consideration:	290,160
FV previous interest:	0

Assets	BS Norilsk		BS Rudny		Adjustments		NCI		Consolidated BS	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
Fittings			20.0						20.0	
Accum deprec				0.0						0.0
Land			90.0		10.0				100.0	
Inventory			10.0		2.0				12.0	
Machinery			200.0		20.0				220.0	
Accum depr.				0.0		0.0				0.0
Cash	109.84		0.0						109.84	
Goodwill					18.0				18.0	
Investment	290.16					290.16				
<b>Liabilities</b>										
Debt				40.0						40.0
Def tax liab					3.0					9.6
<b>Equity</b>										
Share capital	200.0		200.0	180.0	6.0		20.0		200.0	
Retained earn.	200.0		80.0	72.0	9.6		8.0		200.0	
NCI							30.24			30.24

BC valuation reserve: 90% \* 200 = 180.0, 90% \* 22.4 = 20.16  
 XXX Business combination valuation entries: 3.0, 0.6, 6.0, 9.6  
 X Elimination investment / recognition goodwill: 7.0, 1.4, 14.0, 22.4  
 NCI share of equity at 1 July 2016: 10% \* 200 = 20.0, 10% \* 80 = 8.0, 10% \* 22.4 = 2.24

<b>Business combination valuation entries</b>			
Land	Dr	10	
Deferred tax liability	Cr		3
Business combination valuation reserve	Cr		7
Machinery	Dr	20	
Deferred tax liability	Cr		6
Business combination valuation reserve	Cr		14
Inventory	Dr	2	
Deferred Tax Liability	Cr		0.6
Business combination valuation reserve	Cr		1.4
<b>Elimination investment / recognition goodwill</b>			
Share capital	Dr	180	
Retained earnings (1/7/16)	Dr	72	
Business combination valuation reserve	Dr	20.16	
Goodwill	Dr	18	
Investment in Rudny Ltd	Cr		290.16
<b>NCI share of equity at 1 July 2016</b>			
Share capital	Dr	20	
Retained earnings (1/7/16)	Dr	8	
Business combination valuation reserve	Dr	2.24	
NCI	Cr		30.24

Value NCI (10% of 302,400)  
30,240

Total value investment:	320,400
-------------------------	---------

### Step 5 Goodwill (partial)

Total value investment:	320,400
FV net assets (incl. tax):	—302,400
Goodwill:	18,000

Goodwill related to investment parent:

Consideration paid for 90%	290,160
90% fair value net assets acquired	272,160 (90% of 320,400)
Goodwill	18,000

Goodwill related to non-controlling interest:

Value NCI (10% fair value net assets)	30,240
10% fair value net assets acquired	—30,240
Goodwill	0

### Step 6 Consolidated balance sheet

Partial goodwill method entry format  
The value of the NCI is based on the fair value of the assets acquired and liabilities







Example: Value creation model – Ahold Delhaize

Inputs: 16 brands, 7,765 stores, 388k associates, €500m bond issued.

Outputs: 52.4% healthy own-brand sales, 3.5% online growth, 78% engagement, 2.6 Mt food donated.

Outcomes: customers make healthier choices, engaged workforce, reduced food waste, strong returns to shareholders.

**Question 3**

Company PT owns all of the share capital of Company SB. On 1 March 2016, PT sold a depreciable asset to SB for \$42,000 cash. PT had acquired the asset on 1 July 2014 for \$60,000. PT had charged 20 months of depreciation expenses before the sale. The useful life of the asset ends on 30 June 2019 and the residual value is \$ 0. Both companies apply straight-line depreciation.

- a. Prepare the consolidation worksheet adjusting entries, in journal entry format, for the preparation of the consolidated financial statements as at 31 December 2016. Assume an income tax rate of 25% and that all income on sale of assets is taxable and expenses are tax deductible. You are not required to show your calculations.

## Lecture 5: Foreign currency & Sustainability reporting

### Refresher Trial exam 2-3

#### Depreciation PT until sale

Purchase price: 60,000  
Remaining useful life (in months): 60  
Residual value: 0  
Depreciation per month:  $(60-0)/60 = 1,000$   
Depreciation 2016 (2 months): 2,000  
Accumulated depreciation before sale (20 months): 20,000  
Accumulated depreciation end of 2016: 0

#### Depreciation SB as of sale

Purchase price: 42,000  
Remaining useful life (in months): 40  
Residual value: 0  
Depreciation per month:  $(42-0)/40 = 1,050$   
Depreciation 2016 (10 months): 10,500  
Accumulated depreciation end 2016 (10 months): 10,500

### Journal entries related to transaction

#### PT

Cash	42,000		
Accumulated depreciation	20,000		
Machinery		60,000	
Gain on sale machinery		2,000	

#### SB

Machinery	42,000		
Cash		42,000	

### Adjustments

### Consolidation worksheet adjusting entries (journal format):

Equipment	18,000	
Deferred tax asset	375	
Gain on sale equipment	2,000	
Accumulated depreciation		
19,500		
Depreciation expense		
500		
Tax expenses		375

	PT		SB		Adjustments		Consolidated	
	Dr	Cr	Dr	Cr	Dr	Cr	Dr	Cr
<b>Assets</b>								
Machinery			42.0		18.0		60.0	
Accumulated depreciation				10.5		19.5		30.0
Deferred tax asset						0.375		
<b>Liabilities</b>								
Deferred tax liability							3.0	
Tax payable								
.....								
<b>Equity</b>								
<b>P&amp;L</b>								
Gain on sale of machinery		2.0			2.0			0.0
Depreciation expenses	2.0		10.5			0.5	12.0	
Tax expense	0.0			2.625		0.375		3.0

60.0/60 x 30 months

60.0/60 x 12 months



- Differences go to Other Comprehensive Income, presented in translation reserve.
- Cumulative translation reserve reclassified upon disposal or liquidation.

Financial Statements:

- Consolidated Income Statement: has an impact but you can not see it directly
- Net finance income/expense: 'Net foreign exchange gain/(loss)'
- Consolidated Statement of Other Comprehensive Income: 'Currency translation differences'

## Exercise 24.2 TRANSLATION OF FINANCIAL STATEMENTS INTO FUNCTIONAL CURRENCY

\*\* Faber Ltd, a company incorporated in Singapore, acquired all the issued shares of Lantau Ltd, a Hong Kong company, on 1 July 2015. The trial balance of Lantau Ltd at 30 June 2016 was:

	HK\$ Dr	HK\$ Cr
Share capital		800 000
Retained earnings (1/7/15)		240 000
General reserve		100 000
Payables		160 000
Deferred tax liability		120 000
Current tax liability		20 000
Provisions		80 000
Sales		610 000
Proceeds on sale of land		250 000
Accumulated depreciation – plant		340 000
Plant	920 000	
Land	400 000	
Cash	240 000	
Accounts receivable	300 000	
Inventory at 1 July 2015	60 000	
Purchases	260 000	
Depreciation – plant	156 000	
Carrying amount of land sold	200 000	
Income tax expense	50 000	
Other expenses	134 000	
	<u>2 720 000</u>	<u>2 720 000</u>

### Additional information

1. Exchange rates based on equivalence to HK\$1 were:

	S\$
1 July 2015	0.2
8 October 2015	0.25
1 December 2015	0.28
1 January 2016	0.3
2 April 2016	0.27
30 June 2016	0.22
Average during last quarter 2015–16	0.24
Average 2015–16	0.26

- Inventory was acquired evenly throughout the year. The closing inventory of HK\$60 000 was acquired during the last quarter of the year.
- Sales and other expenses occurred evenly throughout the year.
- The Hong Kong tax rate is 20%.
- The land on hand at the beginning of the year was sold on 8 October 2015. The land on hand at the end of the year was acquired on 1 December 2015.
- Movements in plant over 2015–16 were:

	HK\$600 000
Plant at 1 July 2015	
Acquisitions – 8 October 2015	200 000
– 2 April 2016	120 000
Plant at 30 June 2016	920 000

Depreciation on plant is measured at 20% per annum on cost. Where assets are acquired during a month, a full month's depreciation is charged.

- The functional currency of the Hong Kong operation is the Singaporean dollar.

### Required

- Prepare the financial statements of Lantau Ltd in Singaporean dollars at 30 June 2016.
- Verify the translation adjustment.

## Exercise 24.2

### Step 1: Reconstruct the opening balance (as at 1 July 2015)

The first step is to identify the carrying amounts of non-monetary items (e.g. plant, accumulated depreciation, land, inventory) at the beginning of the financial year.

#### Why?

Because under IAS 21, non-monetary items must be translated at the **historical exchange rate** (the rate at the date of acquisition). To apply this correctly, you need to separate:

- Items that were already on the balance sheet at 1 July 2015 (opening balances, translated at their historical rates), and
- New transactions during the year (acquisitions, disposals, depreciation), which are translated using the rate at the date of those transactions.

This reconstruction ensures that the translation into the functional currency (S\$) reflects the correct exchange rates for each component.

Relevant balance sheet information per 1 July 2015

Plant =	600.000
Accumulated depreciation =	(184.000)
Land =	200.000
Inventory =	60.000

## Step 2: Build the income statement and balance sheet in HK\$

## Step 3: Translation into Singapore dollars (S\$)

Once you've prepared the HK\$ income statement and balance sheet, you apply the translation rules from [IAS 21](#):

Type of item	Translation rate	Explanation
Non-monetary items (Plant, Land, Inventory, Accumulated Depreciation, Share Capital, Reserves)	Historical rate	Use the rate from when the asset was acquired or the equity was contributed.
Monetary items (Cash, Receivables, Payables, Tax liabilities)	Closing rate	Translate at the rate on the reporting date (30 June 2016).
Income & expenses	Average or transaction-date rate	Reflects the exchange rate at the time the revenue or cost was incurred.
Equity (Retained earnings 1 July 2015)	Historical rate	Because it represents accumulated results of prior years.

### Balance sheet 30 June 2016 in HK\$

Plant		Share capital	800,000
• At acquisition	600,000	General reserve	100,000
• 8 October	200,000	Ret earn. 1/1	240,000
• 2 April	<u>120,000</u>	Profit period	60,000
	920,000	Payables	160,000
Accum.depr.		Deferred tax liab.	120,000
• At acquisition	184,000	Current tax liab.	20,000
• Full year	120,000	Provisions	80,000
• 8 October	30,000		
• 2 April	<u>6,000</u>		
	(340,000)		
Land	400,000		
Inventory	60,000		
Cash	240,000		
Accounts rec.	300,000		
<b>Total</b>	<b>1,580,000</b>	<b>Total</b>	<b>1,580,000</b>

### Description – Income statement

		In HK\$
<b>Sales</b>		610,000
<b>Cost of sales</b>		
Beginning inventory	60,000	
Purchases	<u>280,000</u>	
Goods available for sale	320,000	
Ending inventory	<u>(60,000)</u>	
Cost of sales		(260,000)
<b>Depreciation expenses</b>		
Of plant at time acquisition	600,000/5 * 12/12 = 120,000	
Of purchase 8 October	200,000/5 * 9/12 = 30,000	
Of purchase 2 April	120,000/5 * 3/12 = 6,000	(156,000)
<b>Other expenses</b>		(134,000)
<b>Sale of land</b>		
Proceeds of land sold	250,000	
Carrying amount of land sold	<u>200,000</u>	
Gain on sale		50,000
<b>Profit before tax</b>		110,000
<b>Tax expenses</b>		(50,000)
<b>Net profit</b>		60,000

## Balance sheet 30 June 2016

	In HK\$	Rate	In S\$		In HK\$	Rate	In S\$
Plant				Share capital	800,000	0.20	160,000
• At acquisition	600,000	0.20	120,000	General reserve	100,000	0.20	20,000
• 8 October	200,000	0.25	50,000	Ret earn. 1/1	240,000	0.20	48,000
• 2 April	120,000	0.27	32,400	Profit period	60,000		66,080
Accum.depr.				Payables	160,000	0.22	35,200
• At acquisition	(184,000)	0.20	(36,800)	Deferred tax liab.	120,000	0.22	26,400
• Full year	(120,000)	0.20	(24,000)	Current tax liab.	20,000	0.22	4,400
• 8 October	(30,000)	0.25	(7,500)	Provisions	80,000	0.22	17,600
• 2 April	(6,000)	0.27	(1,620)				
Land	400,000	0.28	112,000				
Inventory	60,000	0.24	14,400				
Cash	240,000	0.22	52,800				
Accounts rec.	300,000	0.22	66,000				
<b>Total</b>	<b>1,580,000</b>		<b>377,680</b>	<b>Total</b>	<b>1,580,000</b>		<b>377,680</b>

Calculated as residual

## Income statement

Translation from **local currency** to **functional currency**. Lantau Ltd operates in Hong Kong, and its functional currency is the Singapore dollar (S\$). It keeps its accounting records in HK\$ (local currency), but for consolidation in the group's books, it must first convert everything into its functional currency (S\$).

Non-monetary: Historical rate  
 Monetary: Closing rate  
 Equity: Historical rate

"FX translation reserve" ensures total assets = total equity + liabilities after translation. It captures exchange-rate differences that arise when the group consolidates a foreign subsidiary.

The FX differences that arise during the year are treated as exchange gains or losses in profit or loss (they affect net income).

### Additional: Translation from functional currency to presentation currency

Average rate as of 8 October 2015 0.23

Average rate as of 2 April 2015

0.25

Now, Lantau's figures (already in functional currency S\$) are being translated again into the presentation currency of the parent company (for example, Heineken consolidating everything in €).

When we translate the functional currency statements into the presentation currency, the company hasn't actually made or lost money, it's just expressing the same results in another currency.

### From local to functional

	In HK\$	Rate		
<b>Sales</b>	610,000	0.26		158,600
<b>Cost of sales</b>				
Beginning inventory	60,000	0.20	12,000	
Purchases	260,000	0.26	67,600	
Goods available for sale	320,000		79,600	
Ending inventory	60,000	0.24	14,400	
Cost of sales	(260,000)			(65,200)
<b>Depreciation expenses</b>				
Of plant at time acquisition	120,000	0.20	24,000	
Of purchase 8 October	30,000	0.25	7,500	
Of purchase 2 April	6,000	0.27	1,620	(33,120)
<b>Other expenses</b>	(134,000)	0.26		(34,840)
<b>Sale of land</b>				
Proceeds of land sold	250,000	0.25	62,500	
Carrying amount of land sold	200,000	0.20	40,000	
Gain on sale	50,000			22,500
<b>FX translation gain/(loss)</b>				Residual 47,940
<b>Profit before tax</b>	110,000			31,140
<b>Tax expenses</b>	(50,000)	0.26		(13,000)
<b>Net profit</b>	60,000			From balance sheet 66,080

Rate at date of transaction  
 Depreciation: Rate used to translate the related non-monetary items

Residual

From balance sheet

Therefore, these exchange rate movements go into **Other Comprehensive Income (OCI)** and accumulate in the **Translation Reserve (FCTR)**.

- Sales, expenses, and profit are retranslated at average rates or transaction-date rates.
- The resulting exchange differences no longer go into the income statement.
- The outcome is that total comprehensive income changes due to the translation reserve in equity.

Summarized:

**From functional to presentation**

Equity: Historical rate  
Other: Closing rate

From income statement

Residual

Balance sheet 30 June 2016							
	In HK\$	Rate	In S\$	In HK\$	Rate	In S\$	
Plant				Share capital	800,000	0.20	160,000
• At acquisition	600,000	0.22	132,000	General reserve	100,000	0.20	20,000
• 8 October	200,000	0.22	44,000	Ret earn. 1/1	240,000	0.20	48,000
• 2 April	120,000	0.22	26,400	Profit period	60,000		18,460
Accum. depr.				<b>FX translation reserve</b>			17,540
• At acquisition	(184,000)	0.22	(40,480)	Payables	160,000	0.22	35,200
• Full year	(120,000)	0.22	(26,400)	Deferred tax liab.	120,000	0.22	26,400
• 8 October	(30,000)	0.22	(6,600)	Current tax liab.	20,000	0.22	4,400
• 2 April	(6,000)	0.22	(1,320)	Provisions	80,000	0.22	17,600
Land	400,000	0.22	88,000	<b>Total</b>	1,580,000		347,600
Inventory	60,000	0.22	13,200				
Cash	240,000	0.22	52,800				
Accounts rec.	300,000	0.22	66,000				
<b>Total</b>	1,580,000		347,600				

**From functional to presentation**

Rate at date of transaction  
Depreciation expenses: average rate

	In HK\$	Rate	
<b>Sales</b>	610,000	0.26	158,600
<b>Cost of sales</b>			
Beginning inventory	60,000	0.20	12,000
Purchases	260,000	0.26	67,600
Goods available for sale	320,000		79,600
Ending inventory	60,000	0.24	14,400
Cost of sales	(260,000)		(65,200)
<b>Depreciation expenses</b>			
Of plant at time acquisition	120,000	0.26	31,200
Of purchase 8 October	30,000	0.23	6,900
Of purchase 2 April	6,000	0.25	1,500
<b>Other expenses</b>	(134,000)	0.26	(34,840)
<b>Sale of land</b>			
Proceeds of land sold	250,000	0.25	62,500
Carrying amount of land sold	200,000	0.25	50,000
Gain on sale	50,000		12,500
<b>Profit before tax</b>	110,000		31,460
<b>Tax expenses</b>	(50,000)	0.26	(13,000)
<b>Net profit</b>	60,000		18,460

Aspect	Local → Functional currency	Functional → Presentation currency
<b>Purpose</b>	To measure the subsidiary's performance in its <i>economic environment</i>	To express the subsidiary's results in the <i>group's reporting currency</i>
<b>When applied</b>	During initial consolidation of a foreign operation that keeps books in a different currency	During preparation of consolidated financial statements
<b>IAS 21 rule</b>	Exchange differences <b>go to Profit or Loss</b>	Exchange differences <b>go to Other Comprehensive Income (OCI)</b>
<b>Why</b>	Reflects <i>real economic exposure</i> : the company earns/spends in another currency	Only for <i>presentation</i> : no real cash flow or performance impact
<b>Effect on performance</b>	Changes profit and loss (FX gain/loss in P&L)	Does <i>not</i> affect profit – affects equity (translation reserve)
<b>Type of translation</b>	"Functional currency translation"	"Presentation translation"
<b>Example</b>	Lantau Ltd translates HK\$ transactions into S\$ to reflect actual economic conditions	Group translates S\$ financials into € (presentation currency) for reporting

<b>Aspect</b>	<b>Local → Functional currency</b>	<b>Functional → Presentation currency</b>
<b>Resulting difference shown as...</b>	"Exchange gain/loss" in P&L	"Foreign currency translation reserve (FCTR)" in equity (OCI)

## Introduction to International Sustainability Standards Board (ISSB)

- Established by the IFRS Foundation in November 2021
- Aim: develop a global baseline of sustainability disclosures for financial markets
- In June 2023, the IFRS Foundation issued two standards:

IFRS S1 – General Requirements for Disclosure of Sustainability-related Financial Information

IFRS S2 – Climate-related Disclosures

- Effective date: 1 January 2024
- Application: depends on national endorsement, no mandatory adoption yet in Europe

### IFRS S1 (General Requirements)

- Entities must disclose information about sustainability-related risks and opportunities.
- This information should be useful for primary users of general-purpose financial reports, mainly investors, lenders, and creditors.
- Focus: how sustainability matters affect enterprise value, access to finance, and cost of capital.
- Not all stakeholders are covered, only those relevant to investment decisions.

IFRS S1 sets the general principles (what to report, how to structure it, and for whom) for sustainability disclosures; topic-specific guidance appears in other standards (like S2).

### IFRS S2 (Climate-related Disclosures)

- Require disclosure of information about an entity's climate-related risks and opportunities, useful for investors' decision-making.

Content pillars:

- Governance: oversight and control of climate issues
- Strategy: how the entity manages climate-related risks and opportunities
- Risk management: identification, assessment, and monitoring processes
- Metrics and targets: performance indicators and progress measurement

IFRS S2 is theme-specific: it applies the general S1 principles but only to climate information.

## EU Taxonomy Regulation

Purpose: Provide investors with information about the environmental performance of companies. Encourage green finance by increasing transparency.

Environmental objectives: Climate change mitigation, Climate change adaptation, Sustainable use and protection of water and marine resources, Transition to a circular economy, Pollution prevention and control, Protection and restoration of biodiversity and ecosystems.

The EU Taxonomy defines which activities can be considered “sustainable”, it’s the classification system underlying the EU’s sustainability reporting framework.

How the EU Taxonomy Works

Two key questions:

1. Is the company engaged in Taxonomy-eligible activities (activities defined in the regulation)?
2. If yes, are those activities Taxonomy-aligned (i.e., substantially contributing to at least one objective, doing no significant harm to others, and respecting human/labour rights)?

Disclosure requirements:

- % of revenue, OPEX, and CAPEX related to eligible and non-eligible activities.
- Within eligible activities: % of Taxonomy-aligned activities.

This is a quantitative disclosure system, companies must show how much of their business qualifies as environmentally sustainable.

### **Corporate Sustainability Reporting Directive (CSRD)**

- Adopted by the European Parliament in 2022.
- Part of the European Green Deal, aiming EU resource-efficient and competitive low-carbon economy.
- Standard-setting delegated to EFRAG (European Financial Reporting Advisory Group).
- EFRAG develops the European Sustainability Reporting Standards (ESRS).
- Requires limited assurance (auditor review).

Applies (from 2024 reporting year) to large public-interest entities meeting  $\geq 2$  criteria:

Assets > €25 million, Revenue > €50 million, Employees > 250

CSRD = EU’s legally binding sustainability reporting directive, replacing and expanding the old NFRD.

### **ESRS 1 (General Requirements):**

Defines mandatory concepts and principles (materiality, stakeholders, reporting boundaries).

### **ESRS 2 (General Disclosures):**

Lists cross-cutting disclosure requirements applicable to all sustainability topics, such as: Company overview and business model; Time horizons and value-chain information; Materiality assessment process

ESRS 1 and 2 are the foundation layer, they apply to all topics (environmental, social, and governance).

**Stakeholders:** those who can affect or be affected by the undertaking:

1. Affected stakeholders: people or groups impacted by the company's operations (positively or negatively).

2. Users of sustainability statements:

- Primary users: investors, lenders, creditors.
- Other users: business partners, unions, NGOs, governments, analysts, academics.

CSRD / ESRS consider a broader stakeholder view than IFRS S1/S2, which focus only on investors.

### Double Materiality (Impact & Financial)

Concept: CSRD introduces the idea that something is "material" if it is significant from either an impact perspective or a financial perspective.

- **Impact materiality:** A matter is material if it reflects the company's actual or potential positive/negative impacts on people or the environment across its value chain.
- **Financial materiality:** A matter is material if it has or could have a material financial effect on the company (affecting its development, performance, cash flows, or cost of capital).

Summary: → IFRS S1/S2 = single materiality (focus on investors).  
→ CSRD / ESRS = double materiality (investor + societal impact).

Each specific sustainability topic under ESRS follows the same four-pillar structure (aligns with IFRS S2 and TCFD):

Pillar	Content
<b>Governance</b>	How the company oversees sustainability risks and opportunities
<b>Strategy</b>	How the business model and strategy interact with impacts, risks, and opportunities
<b>Impact / Risk / Opportunity Management</b>	Processes for identifying, assessing, and managing these issues
<b>Metrics and Targets</b>	Quantitative indicators and goals for performance measurement

### How Climate Change Affects IFRS Financial Statements

- Property, Plant & Equipment: Should assets be impaired? Should useful lives be adjusted?
- Goodwill: Impairment tests – lower terminal values due to climate risks?
- Provisions: Onerous contracts, decommissioning, environmental liabilities?
- Financial Instruments: Expected credit losses, sustainability-linked loans?
- Disclosures: Key assumptions, estimates, going-concern implications?

Summary:

Topic	Standard / Directive	Focus	Who uses it	Key concept
<b>IFRS S1/S2</b>	Global (IFRS Foundation / ISSB)	Investor-oriented sustainability & climate disclosures	Investors, lenders, creditors	Single materiality
<b>EU Taxonomy</b>	EU Regulation	Classification of "green" economic activities	Investors, regulators	Eligibility & alignment
<b>CSRD / ESRS</b>	EU Directive & Standards	Broad sustainability reporting, legally required	All stakeholders	Double materiality

## Lecture 6: Financial Instruments

### Trial exam 1-4

- The *local currency* is where the foreign operation is based (USD).
- The *functional currency* is where the entity primarily operates (EUR or USD).
- The *presentation currency* is the one used in the financial statements (EUR).

Translation is required only when local ≠ functional currency.

No adjustment is needed for consolidation when local and functional currencies are the same.

### Balance Sheet Translation

### Income Statement Translation (Rate at date of transaction)

#### From local to functional

Non-monetary: Historical rate  
 Monetary: Closing rate  
 Equity: Historical rate

#### Balance sheet 31 December 2016

	In US\$	Rate	In EUR		In US\$	Rate	In EUR
Equipment	200,000	0.90	180,000	Share capital	200,000	0.90	180,000
Accum.depr.	(25,000)	0.90	(22,500)	Ret earnings 1/1	0		0
Accounts rec.	40,000	1.10	44,000	Profit period	125,000	1.40	140,000
Inventory	50,000	1.05	52,500	Debt	50,000	1.10	55,000
Cash	120,000	1.10	132,000	Accounts pay.	10,000	1.10	11,000
<b>Total</b>	<b>385,000</b>		<b>386,000</b>	<b>Total</b>	<b>385,000</b>		<b>386,000</b>

Calculated as residual

### Financial Instruments (IFRS 9 topics)

A financial instrument is any contract giving rise to a

	In US\$	Rate	In EUR
<b>Sales</b>	400,000	1.00	400,000
<b>Cost of sales</b>			
Beginning inventory	0		0
Purchases	250,000	1.00	250,000
Goods available for sale	250,000		250,000
Ending inventory	(50,000)	1.05	(52,500)
Cost of goods sold	200,000		197,500
<b>Depreciation expenses</b>	(25,000)	0.90	(22,500)
<b>Other expenses</b>	(50,000)	1.00	(50,000)
<b>Profit before FX effect</b>	125,000		130,000
<b>FX translation gain/(loss)</b>			10,000
<b>Net profit</b>	125,000		140,000

Residual

From balance sheet

#### Question 4

USfirm is a company located in the United States. NLfirm, a Dutch company, formed USfirm on 1 January 2016 with an investment of \$200,000. The functional and presentation currency of NLfirm is EUR. Because USfirm sells all its products in Europe, the functional currency of USfirm is EUR. However, USfirm uses the US\$ as its local currency.

The trial balance of USfirm in US\$ as at 31 December 2016 is:

	US\$ Debit	US\$ Credit
Share capital		200,000
Retained earnings		0
Debt		50,000
Accounts payable		10,000
Sales		400,000
Accumulated depreciation – equipment		25,000
Equipment	200,000	
Accounts receivable	40,000	
Inventory	50,000	
Cash	120,000	
Cost of goods sold	200,000	
Depreciation expenses	25,000	
Other expenses	50,000	

Assume a tax rate of 0%. In addition, the following information is available:

- The equipment was acquired on 1 January 2016. The yearly depreciation is \$25,000.
- All sales and expenses occurred evenly throughout the period.
- The inventory on hand at the beginning of the year amounted to \$0.
- The inventory on hand at the end of the year was acquired during December 2016.
- Exchange rates were (\$1 = EUR)

1 January 2015	0.80
Average for December 2015	0.85
31 December 2015	0.90
1 January 2016	0.90
Average for 2016	1.00
Average for December 2016	1.05
31 December 2016	1.10

financial asset of one entity, and a financial liability or equity instrument of another. (IAS 32.11)

Examples:

- Financial assets: cash, equity of another entity, contractual rights to receive cash.
- Financial liabilities: contractual obligations to deliver cash.
- Equity: residual interest after liabilities are deducted.

Examples of a Financial Instrument:

- Loan provided to another entity
- Accounts receivable
- Investment in shares of another entity (equity instrument of another party, financial asset for you)
- Interest rate swap (right to receive cash for you, right to pay cash for other party)
- Debt

But, NOT tax payable (since not contractual obligation between entities)

### Classification of Financial Assets

Flowchart for IFRS 9 asset classification:

1. **Cash Flow Test** (SPPI) – Are cash flows *solely payments of principal and interest*?
  - If yes → move to Business Model assessment.
2. **Business Model Assessment**
  - (1) Hold to collect → **Amortized Cost**
  - (2) Hold to collect and sell → **FVOCI** (with recycling)
  - Other → **FVTPL** (Fair Value Through P&L)
3. **Equity instruments**
  - If *held for trading* → FVTPL
  - Else, can elect **FVOCI** (no recycling) option.

Examples:

- Amortized cost → government/corporate bonds, receivables
- FVOCI → government/corporate bonds
- FVTPL → share portfolio, derivatives

### Classification of Financial Liabilities

1. Held for trading (incl. derivatives)?
  - Yes → **FVTPL**
  - No → check fair value option
2. If Fair Value option chosen to reduce inconsistency → **FVTPL**
3. Otherwise → **Amortized cost**

Examples:

- Amortized cost → trade creditors, issued bonds
- FVTPL → trading liabilities, derivative positions

	Assets =	Liabilities	+	Equity
	Cash	Bonds payable	Share capital	Retained Earnings/ Net income
Start	1000		1000	0
Bonds issue	+500	+500		
Transact. cost	-12	-12		
1 July 2016	1488	488	1000	0
Interest 16/17	-30	+2.1		Interest exp: $488.0 * 6.58\%$ -32.1
30 June 2017	1458	490.1	1000	-32.1
Interest 17/18	-30	+2.2		Interest exp: $490.1 * 6.58\%$ -32.2
30 June 2018	1428	492.3	1000	-64.3
Interest 18/19	-30	+2.4		Interest exp: $492.3 * 6.58\%$ -32.4
30 June 2019	1398	494.7	1000	-96.7
Interest 19/20	-30	+2.5		Interest exp: $494.7 * 6.58\%$ -32.5
30 June 2020	1368	497.3	1000	-129.3
Interest 20/21	-30	+2.7		Interest exp: $497.3 * 6.58\%$ -32.7
30 June 2021	1338	500	1000	-162.0
Repayment	-500	-500		
1 July 2021	838	0	1000	-162
	Total cash flow = $838 - 1000 = 162$		Total expenses: $5 * 30 + 12 = 162$	

### Exercise 7.8 – Amortized Cost

Case: Company B issues a bond on 1 July 2016

- Face value: 500
- Transaction costs: 12
- Interest: 6% annually, payable June 30
- Market interest rate: 6%
- Maturity: 30 June 2021

**Effective interest rate (EIR)** = rate discounting expected cash flows to the amortized cost (IFRS 9A).

**Initial recognition:** fair value – transaction costs = 488 (500–12).

EIR is the rate that discounts future cash flows (interest + principal) to equal 488.

Sum PV = 488 → **Effective interest = 6.58%**

Note: understanding is required, not actual calculation in exam.

### Journal Entries (6.58%)

- Bond issued at 488 (500 – 12).
- Interest expense =  $488 \times 6.58\% = 32.1$  in first year. (add the  $32.1 - 30 = 2.1$  to bonds payable)  
=  $490.1 \times 6.58\% = 32.2$  in second year
- Each year's interest slightly rises as amortized cost increases.
- At maturity, debt = 500, total expenses = 162 ( $5 \times 30 + 12$ ).

### Amortized Costs (Extended Example)

New scenario:

- Nominal rate 6%
- Market rate 10% (bond issued at discount)
- Transaction costs: 12
- Maturity: 30 June 2021

Key point: The *effective rate* is higher than 6%, reflecting discount and costs → will be computed next.

Fair value computation table for a 5-year bond with:

Nominal rate = 6%, Market rate = 10%, Annual interest = 30 (6% of 500), Maturity = 500

	1-Jul-16	30-Jun-17	30-Jun-18	30-Jun-19	30-Jun-20	30-Jun-21
Discount rate/Cash payment	10%	30	30	30	30	530

	1-Jul-16	30-Jun-17	30-Jun-18	30-Jun-19	30-Jun-20	30-Jun-21
Discount factor		0.91	0.83	0.75	0.68	0.62
Discounted cash flows		27.3	24.8	22.5	20.5	329.1

Fair value = 424.2

Subtract transaction costs (12) → Amortized cost = 412.2

To match 412.2, the effective interest rate (EIR) must be 10.72%.

Conceptually: the EIR equals the internal rate that equates discounted outflows (interest + redemption) with the initial amortized cost.

Discount factor is calculated by  $\frac{1}{(1+r)^n}$  e.g. year 1:  $1 / (1.10)^1 = 0.91$

## Bonds Amortized Cost (Journal Entries)

Date	Cash	Debt	Retained Earnings / Net Income	Debt
<b>Start</b>	1,000	–	1,000 (Equity)	
<b>Bond issue</b>	+424.2 cash	424.2		
<b>Transaction cost</b>	–12			–12
<b>Interest 2017</b>	–30 cash	412.2	$412.2 \times 10.72\% = 44.2$	14.2
<b>Interest 2018</b>	–30 cash	426.4	$426.4 \times 10.72\% = 45.7$	15.7
<b>Interest 2019</b>	–30 cash	442.1	47.4	17.4
<b>Interest 2020</b>	–30 cash	459.4	49.2	19.2
<b>Interest 2021</b>	–30 cash	478.7	51.3	21.3
<b>Repayment</b>	–500 cash	–500		

**Total expense:**  $(500 - 424.2) + (30 \times 5) + 12 = 237.8$

This reflects the full cost of borrowing given the discount.

## Impairment of Financial Assets

### Expected Credit Loss (ECL) Example

Scenario:

- Loan to another company: 100
- Maturity: 5 years

Probabilities of default (PD):

- At start: 1% within 1 year, 5% within 5 years
- End of Year 1: PD = 10% (1 yr), 30% (remaining)
- After Year 2: interest payments cancelled, debt covenants breached, PD = 60%

*Question:* How to treat expected credit losses under IFRS 9?

### General Approach

1. Stage 1 – 12-month ECL
  - Initially recognized assets
  - Low risk
  - Interest calculated on *gross carrying amount*
2. Stage 2 – Lifetime ECL
  - Significant increase in credit risk
  - Lifetime losses recognized

- o Interest still on gross carrying amount
3. Stage 3 – Credit-Impaired
- o Actual evidence of loss
  - o Lifetime ECL
  - o Interest now based on *amortized cost (net of allowance)*

### Simplified Approach

Used for trade receivables: always *lifetime ECL*; no need to track credit risk changes.

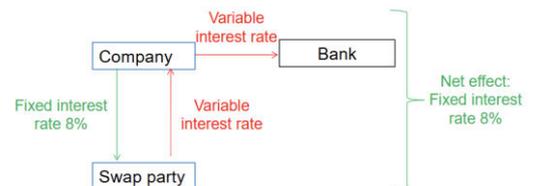
### Hedge Accounting

Example: Heineken 2024 – Hedge Accounting

- Derivative financial instruments are recognized initially at fair value.
- Subsequent accounting depends on hedge designation: Cash flow hedge, Fair value hedge, Net investment hedge
- Positive fair values → assets; negative → liabilities.

#### Example: Cash Flow Hedge

- Changes in FV recognized in Other Comprehensive Income (OCI) if hedge is effective.
- Ineffective portion → P&L as net finance income/expense.



Example: **Borrowings**: borrowings at FV include adjustments for *hedged risks*.

### Cash Flow Hedge Example

Scenario setup:

- Date: 1 January FY1
- Loan with bank
- Face value: 100
- Maturity: 2 years
- Variable interest rate
- Interest paid each 31 December
- No transaction costs

To hedge the interest rate risk, the company enters a **swap contract**:

- Company pays fixed 8% interest.
- Receives variable rate from swap counterparty.

Expected variable (market) rates:                      Actual rates:

- 1 Jan FY1: 8%
- 31 Dec FY1: 10% (expectation for FY2)
- FY1: 8%
- FY2: 10%

**Fair value of debt at 1 Jan FY1 (discounted at 8%):**

Year	Interest	Discount factor	PV 8%
1	8	0.93	7.4
2	108	0.86	92.6

**Balance Sheet at 31 Dec FY1 with hedge**

<u>Asset</u>	<u>Liabilities</u>
Cash 192	Share capital 100
Swap 1.8	Retained earnings -8
	Hedging reserve 1.8
	Debt 100
Total = 193.8	Total = 193.8

**Year                      Interest    Discount factor    PV 8%**

---

Total FV = 100.0

**Fair value of swap at 1 Jan FY1:**

- Payments: fixed 8% = -8
- Receipts: variable 8% = +8
- Net = 0, so FV = 0

**Balance Sheet at 1 Jan FY1**

<u>Asset</u>	<u>Liabilities</u>
Cash 200	Share capital 100
Swap 0	Debt 100

Both debt and swap initially at par (no FV change).

Total = 200

Total = 200

**Fair Value of Swap at 31 Dec FY1**

- Payments: fixed -8
- Receipts: variable +10
- Net = +2
- Discounted by 10% ( $2 \cdot 0.9$ ) = 1.8
- Fair value = +1.8

At FY2 end: no future cash flows → FV = 0.

So, swap gains €1.8 in Year 1 and loses it back in Year 2.

**Without Hedge Accounting (FY1):**

Interest expenses -8.0, Financial income (FV swap) 1.8

So, net income (assuming no taxes) -6.2

Explanation: The hedge *economically stabilizes* interest at 8%, but without hedge accounting, volatility remains in net income.

**With Hedge Accounting (FY1):**

Interest expenses -8.0, Financial income (FV swap) 0

So, net income (assuming no taxes) -8

Reason: FV change in swap (+1.8) is recorded in Hedging Reserve (OCI), not in P&L.

**Balance Sheet at 31 Dec FY1 without hedge**

<u>Asset</u>	<u>Liabilities</u>
Cash 192	Share capital 100
Swap 1.8	Retained earnings -6.2
	Debt 100
Total = 193.8	Total = 193.8

### Without Hedge Accounting (FY2)

Interest expense	-8.0
FV swap change	-1.8
Net income	-9.8

Explanation: The hedge offsets actual interest changes economically, but accounting still shows volatility.

### Balance Sheet (31 Dec FY2) without hedge:

Assets		Liabilities	
Cash	184	Share capital	100
Swap	0	Retained earnings	-16
		Debt	100
<b>Total</b>	<b>184</b>	<b>Total</b>	<b>184</b>

### With Hedge Accounting (FY2)

FV swap returns to 0; the 1.8 gain from Year 1 is reversed out of the Hedging Reserve.

Journal entry: Dr Hedging reserve 1.8, Cr Swap 1.8

Interest expense	-8.0
Financial income (swap)	0.0
Net income	-8.0

Key takeaway: Hedge accounting successfully stabilizes *reported profit*, avoiding artificial P&L swings.

### Balance Sheet (31 Dec FY2) with hedge:

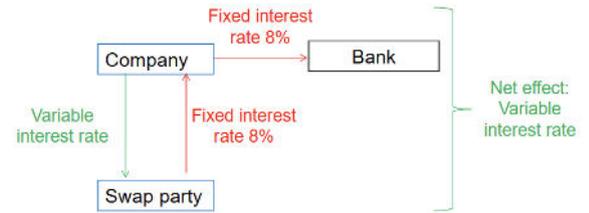
Asset		Liability & Equity	
Cash	184	Share capital	100
Swap	0	Retained earnings	-16
Debt	100	Hedging reserve	0
<b>Total</b>	<b>184</b>	<b>Total</b>	<b>184</b>

### Cash Flow Hedge: Overall Impact

- Key principle: When a cash flow hedge is *fully effective*:
- Changes in fair value of the hedging instrument are recognized in Other Comprehensive Income (OCI), within equity (hedging reserve).
- The *P&L* is not affected until the hedged cash flows actually occur.

	Without Hedge Accounting	With Hedge Accounting
	Interest -8.0	Interest -8.0
<b>FY1</b>	Change FV swap <u>+1.8</u>	Change FV swap <u>0.0</u>
	<b>Total -6.2</b>	<b>Total -8.0</b>
	Interest -8.0	Interest -8.0
<b>FY2</b>	Change FV swap <u>-1.8</u>	Change FV swap <u>0.0</u>
	<b>Total -9.8</b>	<b>Total -8.0</b>
<b>Total</b>	<b>-16.0</b>	<b>-16.0</b>

Interpretation: Hedge accounting doesn't change total profit over time, but it removes volatility per year, producing smoother income.



### Fair Value Hedge Example

Scenario:

- Date: 1 January FY1
- Fixed interest rate 8%
- Loan agreement with bank:
- Interest paid 31 December each year
- Face value: 100
- Transaction costs: 0
- Maturity: 2 years

The company enters into a *swap* that converts fixed interest payments into variable ones.

### Market Interest Rates

Expected variable rate (at 1 Jan FY1) for FY1 and FY2: 8%

Expected at 31 Dec FY1 (for FY2): 10%

Actual variable rate FY1: 8% and FY2: 10%

### Fair Value of Debt at 1 Jan FY1

At start, the fair value equals par value (100):

Year	Interest	Discount 8%	PV
1	8	0.93	7.4
2	108	0.86	92.6

**Total FV = 100**

### Fair Value of Swap at 1 Jan FY1

The swap initially has *no fair value* (because both fixed and variable rates = 8%).

### Balance Sheet 1 Jan FY1

Assets		Liabilities	
Cash	200	Share capital	100
		Debt	100
Total	200	Total	200

Starting balance before any changes in rates or swaps.

### Swap Fair Value at 31 Dec FY1

With rates rising to 10%:

Year	Payments (variable)	Receipts (fixed)	Net	PV (10%)	FV
1	-10	+8	-2	×0.91	-1.8

**Fair value = -1.8**

At 31 Dec FY2: FV = 0 (no future cash flows left).

Thus, in FY1, the swap *loses 1.8* in fair value.

#### Debt Fair Value at 31 Dec FY1

As market rates rise to 10%, the debt's value falls:

Year	Interest 8%	Principal 100	PV @10%	FV
1	8	100	0.91	<b>98.2</b>

So, the bond's fair value decreases by 1.8 (from 100 → 98.2).

At FY2 end: FV = 100 (final repayment).

#### Without Hedge Accounting (FY1)

Interest expense	-8.0
FV change (swap)	-1.8
Net income	-9.8

Key idea: Swap loss (-1.8) enters P&L immediately, but debt remains at amortized cost (not revalued).

→ Profit volatility not aligned with actual risk exposure.

#### Balance Sheet:

<u>Assets</u>	<u>Liabilities</u>
Cash 192	Share capital 100
	Retained earnings -9.8
	Swap 1.8
	Debt 100
Total 192	Total 192

#### With Hedge Accounting (FY1)

Now, the *hedged item (debt)* and *hedging instrument (swap)* are both measured at fair value.

Interest expense	-8.0
FV change swap	-1.8
FV adjustment debt	+1.8
Net income	-8.0

Journal Entries: Dr Swap 1.8, Cr Financial income (swap) 1.8  
Dr Debt 1.8, Cr Financial income (debt) 1.8

**Balance Sheet:**

<u>Assets</u>	<u>Liabilities</u>
Cash 192	Share capital 100
	Retained earnings -8
	Swap 1.8
	Debt 98.2
Total 192	Total 192

The P&L impact now reflects the variable rate environment.

Without Hedge Accounting (FY2)

Interest expense	-10.0
FV change (swap)	+1.8
Net income	-8.2

Interpretation: Even though interest rises, the P&L fluctuates inconsistently with rate movements – *not aligned with real risk profile.*

**Balance Sheet:**

<u>Assets</u>	<u>Liabilities</u>
Cash 182	Share capital 100
	Retained earnings -18
	Swap 0
	Debt 100
Total 182	Total 182

With Hedge Accounting (FY2)

Interest expense	-10.0
FV change swap	+1.8
FV change debt	-1.8
Net income	-10.0

Journal Entries:

Dr Swap 1.8  
Cr Financial income (swap) 1.8  
  
Dr Financial income (debt) 1.8  
Cr Debt 1.8

**Balance Sheet:**

<u>Assets</u>	<u>Liabilities</u>
Cash 182	Share capital 100
	Retained earnings -18
	Swap 0
	Debt 100
Total 182	Total 182

Hedge accounting results in stable net income, reflecting the economic reality of the hedge.

### Impact of Hedge Accounting

	<b>Without Hedge Accounting</b>	<b>With Hedge Accounting</b>
	Interest -8.0	Interest -8.0
<b>FY1</b>	Change FV swap -1.8	Change FV debt +1.8
	<b>Total -9.8</b>	Change FV swap -1.8
		<b>Total -8.0</b>
	Interest -10.0	Interest -10.0
<b>FY2</b>	Change FV swap +1.8	Change FV debt -1.8
	<b>Total -8.2</b>	Change FV swap +1.8
		<b>Total -10.0</b>
<b>Total</b>	-18.0	-18.0

Interpretation: Under *fair value hedge accounting*, both hedged item and hedging instrument are measured at *fair value*, changes go directly into *P&L*. Removes mismatch, aligns accounting with economic hedge.

# Lecture 7: Associates & Joint Arrangements

## Refresher: Hedge Accounting

### Question:

Which statement is true if *cash flow hedge accounting* is applied and the hedge is fully effective?

→ Changes go to OCI/equity.  (Correct – cash flow hedges affect OCI.)

### Explanation:

In a *cash flow hedge*, the *effective* portion of the hedge is recorded in *Other Comprehensive Income (OCI)*, not directly in the P/L.

### Question:

Which statement is true if *fair value hedge accounting* is applied?

→ Changes in hedge instrument fair value recorded in P/L.  (Correct – affects both hedged item and hedge instrument.)

### Explanation:

For *fair value hedges*, both the hedging instrument and the hedged item's fair value changes go through the *profit and loss statement*.

On 31 December 2015, FFF agreed with a bank on a loan with the following characteristics:

- Face value: \$100,000
- Maturity: 2 years
- Variable interest rate
- Interest payment each year afterwards on 31 December
- Transaction costs: 0

In addition, the company enters at that date into an interest rate swap contract that swaps the variable interest rate into a fixed interest rate of 5%. The company applies hedge accounting. All the required criteria regarding hedge accounting are met. On 31 December 2015, the variable interest rate was 5%. As at 31 December 2016, the variable interest rate was 6%.

- b. Prepare the journal entry to account for the change in fair value of the interest rate swap in the 2016 financial statements.

## Trial Exam 3–6(b)

Scenario for hedge accounting:

- Date: 31 Dec 2015
- Loan: \$100,000, variable rate, 2 years maturity
- Interest payment: annually on 31 Dec
- Interest rate swap: converts variable to fixed 5%
- Variable rate at 2016 year-end: 6%

Task: Prepare the journal entry to record the fair value change of the interest rate swap in 2016.

Fair value swap as of 31 Dec 2015:

Year	Payments (fixed)	Receipts (var)	Total	Discount factor	Discounted value
1–2	-5,000	+5,000	0	Y1: 0.952 Y2: 0.907	0

→ Fair value = 0 (no change initially).

Note: discount factor formula Y2:  $1/(1 + 5\%)^2$

Fair value swap as of 31 Dec 2016:

Year	Payments (fixed)	Receipts (var)	Total	Discount factor	Discounted value
2017	-5,000	+6,000	+1,000	0.943	943.40

→ Fair value of swap = 943.40

Note: discount factor formula  $1/(1 + 6\%)^1$

Journal entry (31/12/2016):

Swap:	943.40	
Hedging reserve (OCI):		943.40

### Trial Exam 4-6

Company FR loans money to Company GK: \$100,000 at 5% interest, repayable in 2 years. FR aims to collect contractual cash flows, prefers *not* to apply fair value accounting.

#### Question 6

Company FR provided a loan to Company GK. Company GK has to repay the loan in two years. The yearly interest is 5%. Company FR's objective is to collect the contractual cash flows coming two years. If possible, Company FR prefers not to apply fair value accounting to this loan.

- Discuss how Company FR should account for this investment under IFRS 9.

Flowchart for IFRS 9 asset classification:

1. **Cash Flow Test** (SPPI) – Are cash flows *solely payments of principal and interest*?
  - If yes → move to Business Model assessment.
2. **Business Model Assessment**
  - (1) Hold to collect → **Amortized Cost**
  - (2) Hold to collect and sell → **FVOCI** (with recycling)
  - Other → **FVTPL** (Fair Value Through P&L)
3. **Equity instruments**
  - If *held for trading* → FVTPL
  - Else, can elect **FVOCI** (no recycling) option.

So in this case,

- Debt instrument passes SPPI test.
- Business model: hold-to-collect.
- No FV option.

→ **Measurement**: *Amortized cost*.

## **Associates & Joint Arrangements.**

### **Heineken 2024: Associates (Explanation)**

- Associates: entities where Heineken has **significant influence (20–50%)**, not control.
- Accounted for using the **equity method**, initially recognized at cost.
- Consolidated results include Heineken's share of net profit/loss of associates & JVs.
- **Unrealised gains/losses** on intercompany transactions are eliminated to the extent of Heineken's interest.

Extract from Heineken's 2024 income statement showing:

**Share of profit/loss of associates and joint ventures** = reported under *Net finance expenses*.

Heineken 2024 balance sheet extract:

**Investments in associates and joint ventures**: €3,500 million (non-current assets).

### **Significant Influence**

Definition (IAS 28.3, 28.6): The **power to participate** in policy decisions, not control.

- Presumed with **20% or more voting rights**.
- Indicators: Board representation, Policy participation, Material transactions, Managerial interchange,
  - Technical information sharing

### **Exercise C.2**

### Scenario summary:

- Sarah Ltd invests \$50,000 for 30% share of Madison Ltd.

Madison Ltd balance sheet:

Inventory: 50	Share capital: 30
Cash: 150	Retained earnings: 120
	Debt: 50

### Goodwill Derivation

Cost of investment:	50,000
Sarah's share of net assets (30% x 150,000) =	45,000
Goodwill = 50,000 – 45,000 =	5,000

### Journal Entries Assuming No Consolidation

Focus: How associates are treated if no consolidation occurs.

**Separate financial statements:** Equity method (IAS 28), unless exceptions apply.

**In case of consolidation:** Either *cost value* or *equity method* (IFRS 9 / IAS 27). Since 1 Jan 2016, IAS 27 allows both.

**This exercise:** Associates are recorded at **cost** in separate financials. In **consolidated statements**, the **equity method** applies.

### Journal Entry (Acquisition)

Investment in associate	50,000
Cash	50,000

Under IFRS, goodwill is *not recorded separately* for associates.

### Journal Entry (Dividend Payment 2014: 80,000)

Dividend declared: 30% × 80,000 = 24,000 (Sarah's share).

Cash	24,000
Investment in associate	24,000

**Explanation:** Dividends reduce the **carrying value** of the investment. They are **not recognized as income** under the equity method.

### Journal Entry (Net Profit 2014: 50,000)

Calculation: 30% × 50,000 = 15,000

Investment in associate	15,000
Share of profit of associates (P/L)	15,000

Fair value of net assets acquired:  
Total assets: 200,000  
– total liabilities: 50,000  
= Net assets = 150,000)

*Explanation:* Increase in associate's equity → investor recognizes share of profit as income.

### Journal Entries 2015

Dividend (30% × 15,000) = 4,500

Cash	4,500	
Investment in associate		4,500

Share of net profit (30% × 45,000) = 13,500

Investment in associate	13,500	
Share of profit of associates (P/L)		13,500

### Journal Entries 2016

Dividend (30% × 10,000) = 3,000

Cash	3,000	
Investment in associate		3,000

Share of profit (30% × 40,000) = 12,000

Investment in associate	12,000	
Share of profit of associates (P/L)		12,000

### Consolidated Financial Statements: Cost Method

Assume Sarah prepares consolidated statements using *cost method*.

#### Acquisition:

Investment in associate	50,000	
Cash		50,000

Dividend payment (2014: 80,000):

Cash	24,000	
Dividend revenue (P/L)		24,000

- Dividends recorded as **income** (different from equity method).
- No entry for net profit of associate since recorded at cost.

### Why Consolidation Adjustments Are Required

Question: Why adjust if the associate isn't consolidated?

Answer: Even though associates aren't consolidated, *Sarah recorded Madison at cost*, but in *consolidated financial statements*, Madison must be recorded using the *equity method*. Hence, *adjustments* are required to convert from cost → equity method.

## Balance Sheets 2014 (At Cost vs. Equity Method)

The slide compares two approaches:

Aspect	At Cost	Equity Method
Dividend income	Recognized as P/L income	Adjusted via investment value
Investment value	Constant	Adjusted for share of profit and dividends
End 2014 investment	50,000	41,000
Share of profit (P/L)	None	+15,000

**Main idea:** Equity method reflects *economic reality* (profits increase investment; dividends reduce it.)

## Consolidation Adjustments (2014)

Adjustments to align cost → equity method:

Adjustment	Debit	Credit	Explanation
Dividend revenue	24,000	—	Remove revenue recognized under cost method
Investment in associate	—	24,000	Reduce for dividend paid
Investment in associate	15,000	—	Increase for share of profit
Share of profit of associates (P/L)	—	15,000	Recognize share of profit

### Balance Sheets 2015 (At Cost vs. Equity Method)

**At cost:** Dividends recognized as income (4.5).

**Equity method:** Investment increases with share of profit (13.5). Dividends reduce investment instead of appearing in P/L.

*Note:* Differences from 2014 must also be adjusted for in consolidation (added at retained earnings).

### Consolidation Adjustments (2015)

Dividend revenues	4,500	
Investment in associate		4,500
Investment in associate	13,500	
Share of profit of associates (P/L)		13,500
Retained earnings	9,000	
Investment in associate		9,000

*Explanation:*

The last adjustment fixes prior-year differences (since the cost and equity method diverged earlier).

### Balance Sheets 2016 (At Cost vs. Equity Method)

**At cost:** Investment = 50; dividend income 3.

**Equity method:** Investment = 59; share of profit 12.

Both begin with same opening balance.

Key difference:

- Under the equity method, profits increase the investment; dividends reduce it.
- At cost, dividends are taken as income.

### Consolidation Adjustments (2016)

Dividend revenues	3,000	
Investment in associate		3,000
Investment in associate	12,000	
Share of profit of associates (P/L)		12,000

No retained earnings adjustment this year (opening balances align).

Summary table: After adjustments, the investment at equity = 59 (vs. 50 at cost).

## Heineken 2017 – Associates

Heineken's policy excerpt:

The consolidated financial statements include Heineken's share of the *profit or loss and other comprehensive income* of associates and JVs, *after adjustments to align accounting policies*.

*Interpretation:* Under IAS 28, investors must also recognize their share of an associate's OCI (e.g., revaluation gains).

### Exercise C.3

Scenario:

- Jasmine Ltd pays \$170,000 (consideration) to the shareholders of Hayley Ltd.
- In return, Jasmine receives 40% of Hayley's share capital.
- The remaining 60% continues to be held by the other shareholders.
- Share capital = 100; retained earnings = 100.

Hayley Ltd becomes an associate of Jasmine Ltd because Jasmine now holds significant influence (40%) but not control.

### Approach

In separate financial statements: equity method (IAS 28).

IAS 28.10: Adjust carrying amount for changes in:

- Investor's share of profit/loss and
- Other comprehensive income of the investee. This includes *revaluations* of PPE, etc.

Jasmine must adjust its investment in Hayley not only for Hayley's net income and dividends but also for changes in equity that arise from revaluation gains or other OCI items.

### Goodwill Derivation

Cost of investment:	170,000
Jasmine's share (40% of Hayley's net assets: \$400,000) =	160,000
Goodwill =	10,000

### Journal Entry 1 – Acquisition

Investment in associate	170,000
Cash	170,000

Goodwill is not recorded separately under IFRS for associates.

### Journal Entry 2 – Net Profit (Total Profit = 39,000)

Investment in associate (40% × 39,000) =	15,600
Share of profit of associates (P/L)	15,600

Jasmine's share of Hayley's profit increases the investment value and is recognized in Jasmine's income statement

### Journal Entry 3 – Dividend (Total Dividend = 15,000)

Cash (40% × 15,000) =	6,000
Investment in associate	6,000

Dividends are not income but reduce the carrying amount of the investment (consistent with IAS 28 equity method).

### Balance Sheet Before and After Revaluation of Land of 100,000

→

Initial investment	170.0		
Share in net profit	15.6		
Dividend	-6.0		
	179.6		

Other Associate	179.6	Share cap.	100
		Ret. earnings	115.6
		Liabilities	....

Land	200	Share cap.	300
Other	.....	Asset revaluation	0
		General reserve	15
		Ret. Earnings	109
		Liabilities	....

40% fair value net assets	169.6	Total net assets	424
Goodwill	10	40% of net assets	169.6
Total investment in associates	179.6		

Other Associate	219.6	Share cap.	100
		Ret. Earnings	115.6
		Asset revaluation	40
		Liabilities	....

Land (200)	300	Share cap.	300
Other	.....	Asset revaluation	100
		General reserve	15
		Ret. Earnings	109
		Liabilities	....

40% fair value net assets	169.6	209.6
Goodwill	10	10
Total investment in associates	179.6	219.6

Total net assets	524
40% of net assets	209.6

Investment in associate (40% * 100,000)	40,000
Asset revaluation surplus	40,000
Increase in investment in associate because net assets Hayley also increased	
Increase in asset revaluation surplus	

### Exercise C.4

When a parent transacts with its associate (e.g., selling goods), the unrealized portion of profit (still held by the associate) must be eliminated proportionally to the investor's ownership share.

#### Description & Approach (Chelsea Ltd & Imogen Ltd)

- Imogen Ltd owns 20% of Chelsea Ltd.
- Other shareholders hold 80%.
- **Upstream:** from associate → investor.
- **Downstream:** from investor → associate.

**IAS 28.28 Key Principle:** Profits from such intercompany sales are recognized **only to the extent of the unrelated investors' interests**. Investor's share of unrealized gains/losses is eliminated.

*Example:* Upstream = sale of assets by associate → investor.  
Investor's share in unrealized gains/losses must be adjusted.

**Journal Entry: Dividend** of 15,000 declared in June 2015 (before fiscal year 2015–2016):

Cash	6,000	
Investment in associate (20% × (10,000 + 20,000))		6,000

Earlier (2014/15) declaration entry:

Dividend receivable	3,000	
Investment in associate		3,000

At the time of receipt:

Cash	3,000	
Dividend receivable		3,000

*Note:* The timing difference in dividend recognition affects classification between fiscal years.

#### Journal Entry: Net Profit

Share of profit in Imogen (20% × 100,000) = 20,000

Then adjust for **upstream/downstream sales:**

- Upstream sale Jan 2016 → adjustment
- Downstream sale Feb 2016 → adjustment
- Upstream sale from previous year → adjustment

Final recognized profit = **Share of profit – Adjustments.**

### **Adjustment: Upstream Sale (January 2016)**

- Chelsea sold inventory to Imogen for 15,000 (cost 10,000).
- Profit = 5,000 before tax; after 30% tax → 3,500.

Inventory unsold at period-end → profit is **unrealized**.

#### **Adjustment:**

Reduction in Imogen's share of profit =  $20\% \times 3,500 = 700$

*Meaning:* The 700 unrealized portion must be eliminated because the goods remain unsold.

### Adjustment: Downstream Sale (February 2016)

- Imogen sold inventory to Chelsea, Profit before tax: 1,500 → after-tax: 3,500

50% of inventory unsold → unrealized portion =  $50\% \times 3,500 = 1,750$ .

Adjustment (20% share):  $20\% \times 1,750 = 350$ .

**IAS 28:** It is strange to adjust investor's profit for associate's revenue, but IAS 28 prescribes this.

### Adjustment: Upstream Sale (Previous Period)

Transaction in prior year:

- Chelsea sold inventory to Imogen for 18,000 (cost 12,000).
- Profit before tax = 6,000 → after-tax 4,200.

Inventory remained unsold by Imogen → unrealized.

Adjustments:

- Previous period: Reduce share of profit →  $20\% \times 4,200 = 840$  (deducted).
- Current period: Inventory sold → add back  $20\% \times 4,200 = 840$ .

This ensures profit is only recognized when realized.

### Summary: Journal Entry for Net Profit

Share of Imogen's net profit:  $20\% \times 100,000 = 20,000$

Adjustments:

- Upstream Jan 2016: -700
- Downstream Feb 2016: -350
- Upstream previous period (reversal): +840

Total adjustment: -210

Final recognition:

Investment in associate	19,790
Share of profit or loss of associates	19,790

### IFRS 11 Joint Arrangements:

- HEINEKEN classifies interests as joint operations or joint ventures, depending on rights and obligations.
- Joint control: unanimous consent required from all parties for key decisions.
- Heineken's joint arrangements are structured as limited companies → rights to net

assets → classified as joint ventures.

### Joint Ventures (Definition)

Joint ventures = arrangements where Heineken has joint control and rights to the net assets, rather than rights to individual assets and liabilities.

- Accounted for using the *equity method*.
- Reinforces the difference between joint ventures (equity accounting) and joint operations (proportionate share).

### Exercise D.1

- Two companies, Horsley Ltd and Benington Ltd, each own 50% of Tiverton Ltd.
- Both supply parts to manufacture cars for Tiverton.
- Annual business plan and director appointments require **joint approval** (3 from each side).

Question: Is this a *joint arrangement*? If yes, is it a *joint venture* or *joint operation*?

### Joint Arrangement? (Definition & First Test)

Definition (IFRS 11.4–11.7):

A *joint arrangement* is an arrangement where two or more parties have joint control.

Key characteristics:

- Bound by a contractual agreement.
- Joint control: requires unanimous consent for key decisions.

Test: 1. Are the parties bound by a contract? → Yes (Tiverton's constitution).

2. Do they have joint Control? Lets test:

An investor controls an investee when:

1. It has power over the investee;
2. It is exposed to variable returns from its involvement with the investee;
3. It has the ability to use power to affect those returns.

Power:

- Do Horsley and Benington have existing rights? Yes, they hold 100% voting rights ordinary shares.
- Do they have the current ability to use these rights? Legal ability? Yes. Practical ability? Yes.
- Can Horsley and Benington use their rights to direct the relevant activities? Yes, they can influence activities that significantly affect Tiverton's returns

Conclusion: They possess power.

**Exposure to Variable Returns?** Yes, Both parties are exposed to variable returns through dividends.

**Ability to affect returns:** Both parties can use their power to influence Tiverton's returns.

→ Therefore, Horsley and Benington together have control over Tiverton.

**Conclusion:** Tiverton qualifies as a joint arrangement under IFRS 11.

### Joint Venture or Joint Operation?

**Joint operation:** Parties have rights to assets and obligations for liabilities (IFRS 11.15).

**Joint venture:** Parties have rights to the net assets of the arrangement (no direct rights to individual assets or obligations for liabilities).

### Flowchart: Determining Joint Operation vs Joint Venture

#### 1. Legal form test:

- If the legal form gives rights to assets and obligations for liabilities → **Joint operation.**
- Otherwise, proceed to the next step.

#### 2. Contractual terms test:

- If the contract specifies rights to assets and obligations for liabilities → **Joint operation.**
- If not, continue.

#### 3. Facts and circumstances test:

- If the arrangement's design provides parties with substantially all economic benefits from the assets, and the parties settle liabilities through their purchases → **Joint operation.**
- Otherwise → **Joint venture.**

### Joint Venture or Joint Operation? (IFRS 11 Guidance)

**IFRS 11 guidance (paras B31–B32):**

- When activities are *primarily designed to provide output to the parties*, the arrangement is likely a joint operation.
- This is because the parties access the output and prevent sales to third parties.
- The liabilities incurred are *satisfied* through the parties' payments for the output.
- If cash flows from the parties sustain the arrangement, the parties have *obligations for liabilities*.

#### **Conclusion:**

Hence, **Tiverton is a joint operation**, its design and cash flow structure align with IFRS 11's description.

Since Tiverton's activities provide outputs directly to the parties (who bear the liabilities), it is classified as a joint operation.