

Current challenges in impairment testing

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Valuation & Business Modelling

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Building a better
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Headlines from recent press: oil and gas companies are in turbulent times

February 12, 2015

“... to **cut UK jobs** and **sell \$5bn** of assets”

February 3, 2015

“... in **\$8.9bn writedown** of assets after oil price fall”



January 26, 2015

“... halves profit forecast on **\$1bn writedown**”

THE WALL STREET JOURNAL
WSJ

February 3, 2015

“... **slashes capital spending** by 20%”

January 16, 2015

“... to take **\$2.7bn write-off**”

February 24, 2015

“Oil and gas industry in '**bleak**' 2014, finds survey”



January 21, 2015

“... **cuts US shale operation** as oil price falls”

What is an impairment?

Impairment defined

- International Financial Reporting Standards, IAS 36
- Impairments tested at “cash-generating unit” (CGU) level
 - *“The smallest group of assets that independently generates cash flows”*
- Write-down in the value of an asset on an entity’s balance sheet to its recoverable amount, if headroom over the carrying amount is negative
 - Headroom: *“recoverable amount less carrying amount of the CGU”*
 - Carrying amount of the CGU: *“net operating assets”*
 - Consistency between carrying amount and recoverable amount
- Assets shouldn’t be carried at more than their recoverable amount, i.e., the higher of:
 - Value-in-use: *“the present value of the future cash flows”*
 - Fair value less cost of disposal: *“price of an orderly transaction between market participants”*
- Impairments aimed at keeping the balance sheet honest

Understanding the starting point for a potential impairment

Scenario 1: Historical cost

- CGU is the company; internally developed reserves

CGU assets	£	Basis
Oil and gas properties	100	Historical cost
Exploration intangibles	10	Historical cost
Total assets	110	Historical cost

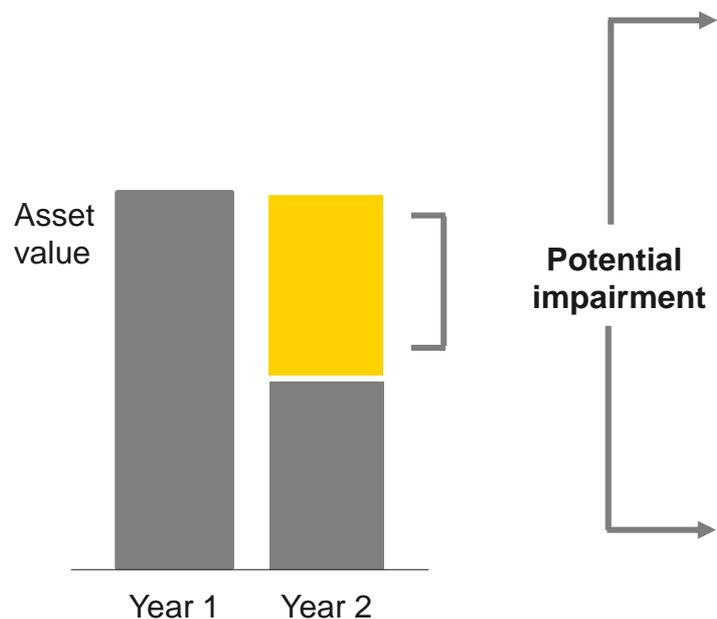
Scenario 2: Fair value

- Same company as in scenario 1, **but**:
 - Acquired and consolidated on acquirer's balance sheet

CGU assets	£	Basis
Oil and gas properties	150	Fair value
Exploration intangibles	15	Fair value
Goodwill	10	Purchase price less fair value of assets
Total assets	175	Purchase price



Example indicators that trigger potential impairment



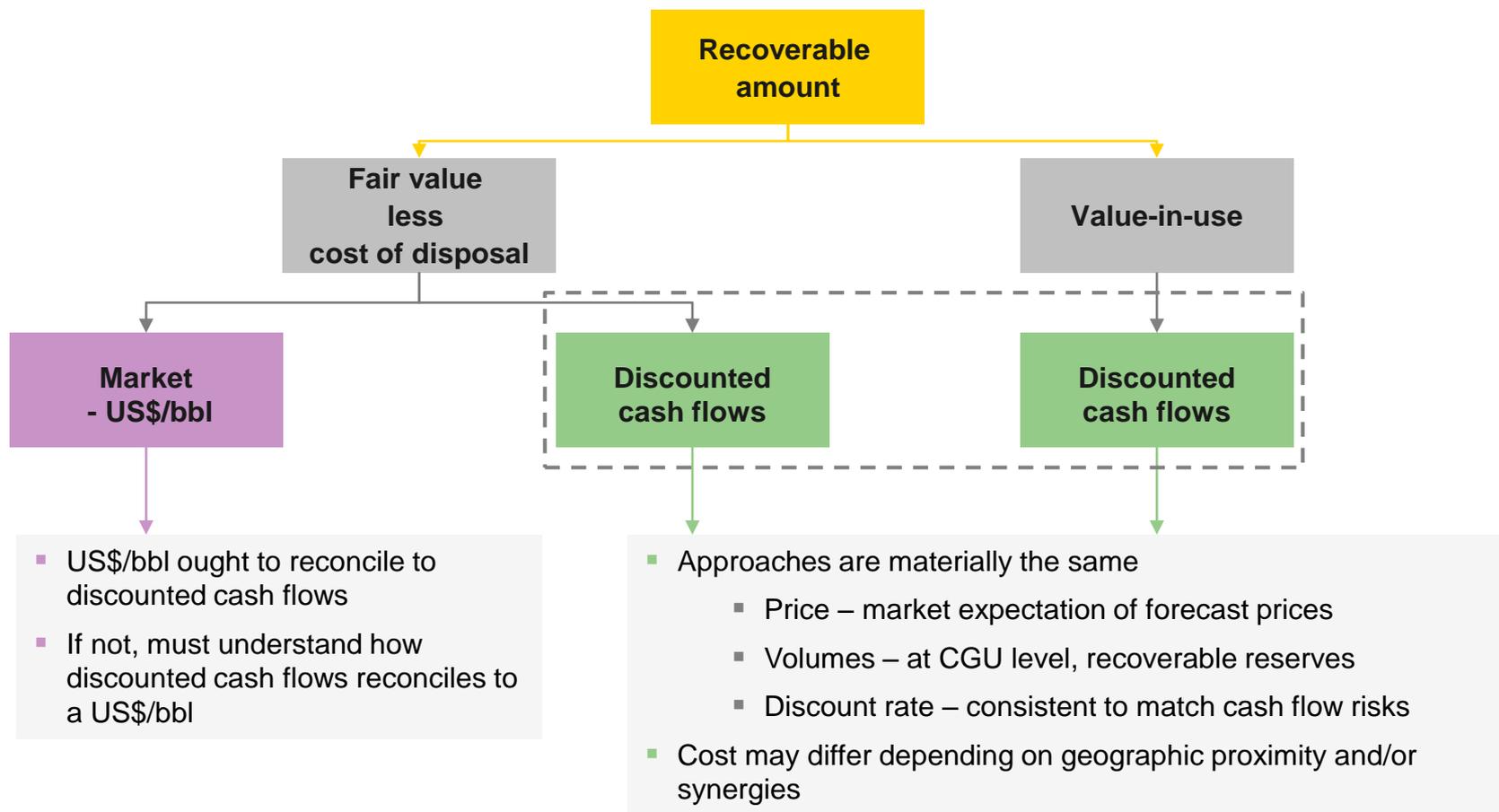
Internal impairment indicators

- Obsolescence
 - Physical damage
- Asset performance
 - Discontinuance, restructuring or disposal
- Deferral of capital investment

External impairment indicators

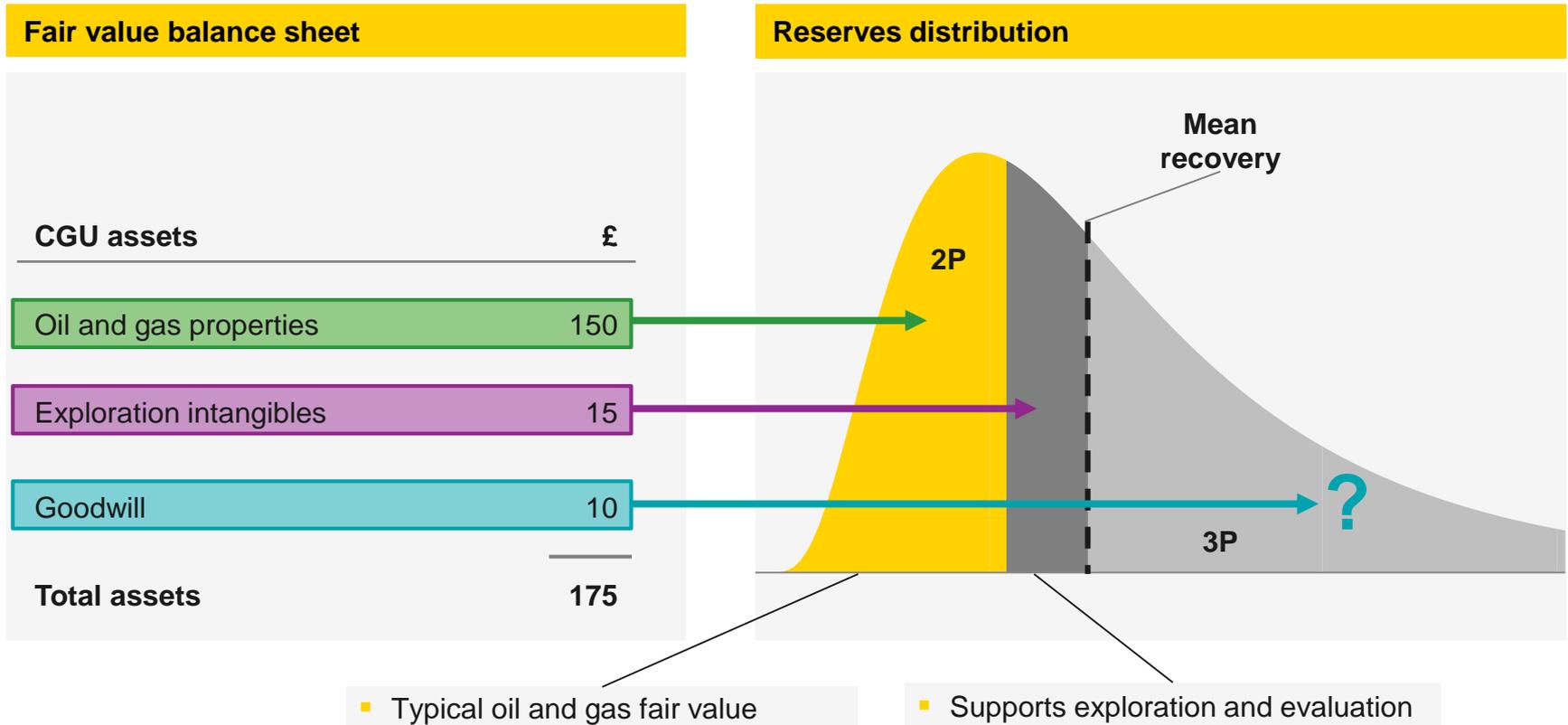
- Market value
 - Market capitalisation deficit (if listed)
 - Oil price decline
- Competitive landscape
 - New entrants
 - Technology shift
- Political/macroeconomic
 - Expropriation
 - Labour
 - Fiscal regime
- “Acts of God”
- Terrorism

IAS 36: Recoverable amount estimation



Please note that impairment testing materially differs under US GAAP

Reconciling the fair value balance sheet to the reserves distribution



A fundamental look at valuation: income or market approach?

Income approach – discounted cash flows (DCF)

- Two components, each with potential pitfalls:
 1. Cash flows
 - Real vs. nominal
 - Post-tax vs. pre-tax, tax to buyer or seller (market participant?)
 - Risk adjusted for project status
 2. Discount rates
 - Real vs. nominal
 - Differences between fair value less cost of disposal and value-in-use?
 - Impact of yield compression
 - Economic factors such as country risk – not straightforward
 - Currency denomination
 - Comparison to client's investment appraisal framework and hurdle rates
- What about the decommissioning value?
 - Cat is still out of the bag

Market approach – where has the market gone?

- Liquidity in private transactions of assets
- US\$/boe – be wary of those transaction data points!
 - Eg., oil price expectations at the transaction date and other synergy value priced in

Practical challenges

- Market approach
 - Less credible when transactions are few and far between for comparable assets
- Income approach
 - DCF most common approach at CGU level
 - DCF (*where possible*) at **post-tax level**; then “back solve” using pre-tax cash flows to determine **pre-tax discount rate** for disclosure purposes
 - For finite lived assets: possible **material differences** under different methods:
 - Grossing up post-tax discount rate
 - Using pre-tax cash flows and iterating to calculate the implied discount rate (IRR)

Impact of impairment on fair value and historical cost balance sheets

Balance sheet example: CGU assets recoverable amount valued at £90

	Scenario 1: Historical cost			Scenario 2: Fair value		
	Pre impairment	Post impairment	Headroom/ (impairment)	Pre impairment	Post impairment	Headroom/ (impairment)
CGU assets						
Oil and gas properties	100	90	(10)	150	90	(60)
Exploration intangibles	10	-	(10)	15	-	(15)
Goodwill				10	-	(10)
Total assets	110	90	(20)	175	90	(85)

Balance sheet example: CGU assets recoverable amount valued at £140

	Scenario 1: Historical cost			Scenario 2: Fair value		
	Pre impairment	Post impairment	Headroom	Pre impairment	Post impairment	Headroom/ (impairment)
CGU assets						
Oil and gas properties	100	100		150	140	(10)
Exploration intangibles	10	10		15	-	(15)
Goodwill				10	-	(10)
Total assets	110	110	30	175	140	(35)

- **Same assets to trigger different impairment magnitude – depends on “headroom”**
 - Can be materially different
 - Impact on company’s share price (if listed)?! – active communication and stakeholder management is key

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