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# Valuation of Stressed Assets

January 2019

The Institute of Cost Accountants of India

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Section 1

# Background

# Key characteristics of distressed businesses

## Cause

### Management

- Loss of key staff
- Incompetence/ weak governance
- Increasing tension between directors, shareholders, lenders
- Failed merger/ acquisition

### Operational

- Production/ product quality issues
- Unhappy customers/ loss of key customers
- Poor financial control
- Supply chain mismanagement
- Stock pile up/ working capital blockage
- Litigation

### Funding

- Over leveraging
- Inappropriate financing

### External

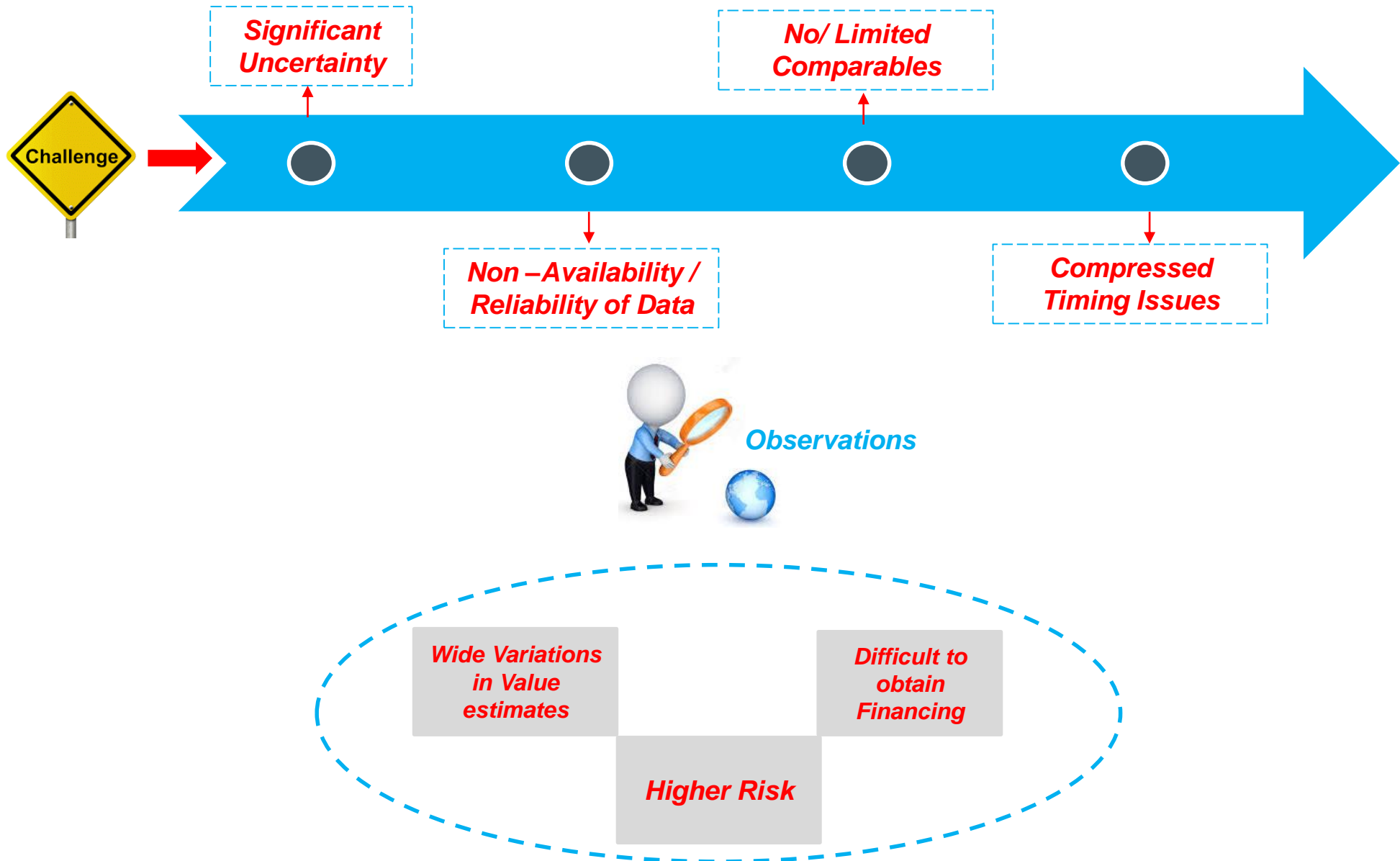
- Macroeconomic pressures
- Changing markets
- Increasing competition

## Effect

### Financial Symptoms

- Deteriorating financial performance
- Worsening cash flow
- Financial shock
- Default / covenant breach

# Valuation of distressed businesses

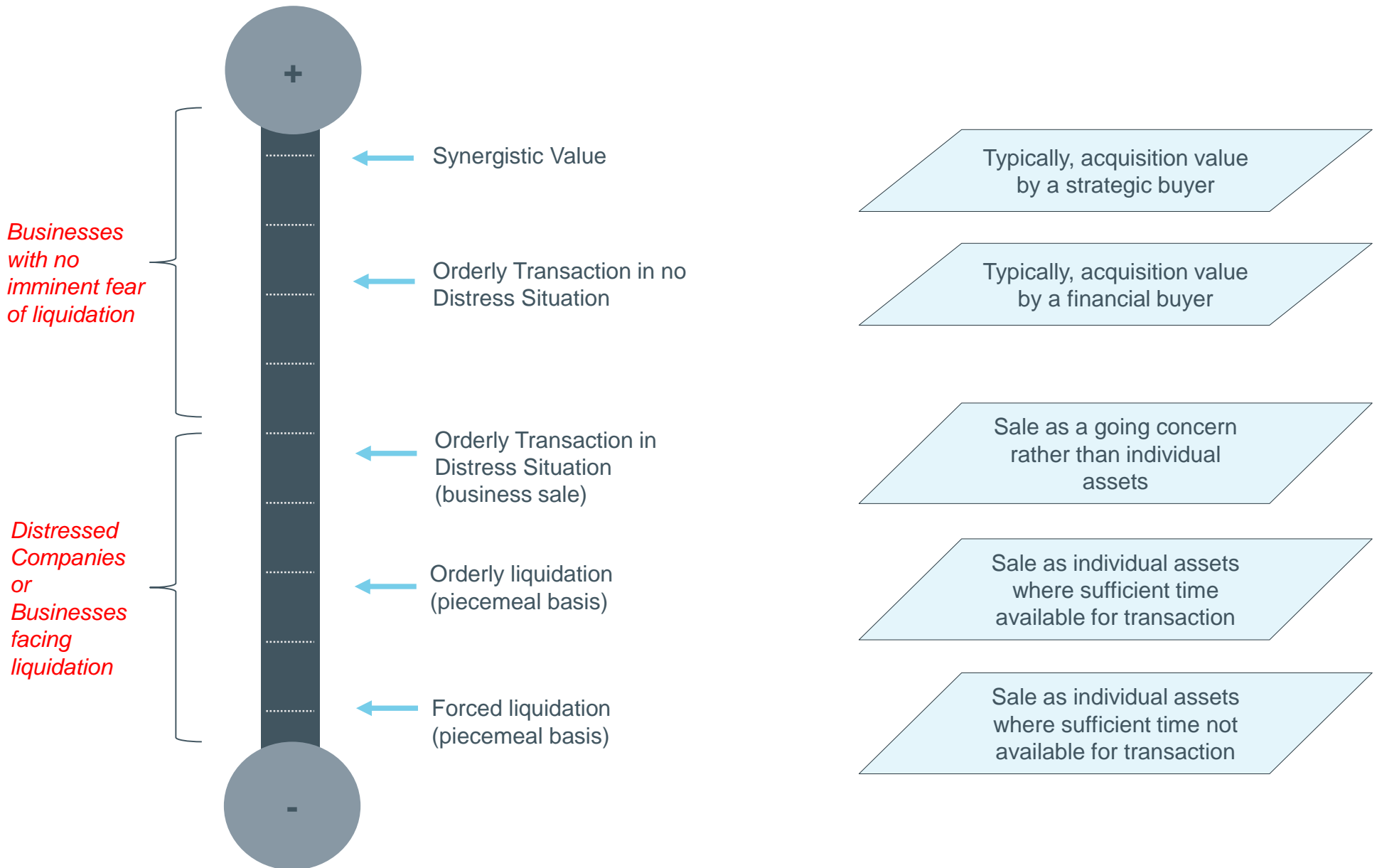


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Section 2

# Standard of Value

# Standards of Value



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# Liquidation Value (1/2)

## Liquidation Value as per IBC

- » As per section 35 (1) of the Insolvency and Bankruptcy Code, 2016 (“IBC”), “Liquidation Value is the **estimated realizable value of the assets** of the corporate debtor if the corporate debtor were to be liquidated on the insolvency commencement date”.
- » Further, section 35 (2) of IBC requires the valuer to determine liquidation value using **internationally accepted valuation standards**.

## Liquidation Value as per other standards

- » According to the International Valuation Standards (“IVS”) 104, “Liquidation Value is the amount that would be realized when an asset or group of assets are sold on a **piecemeal basis**, that is without consideration of benefits (or detriments) associated with a going-concern business”.
- » According to the Indian Banks’ Association (IBA), “Liquidation Value describes the situation where a group of assets employed together in a business are offered for sale **separately**, usually following a closure of the business”.



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# Liquidation Value (2/2)

## Orderly Liquidation

- » An orderly liquidation-based value is the one that could be realized in a liquidation sale, given a **reasonable period of time** to find a purchaser (or purchasers), with the seller being compelled to sell on an “as-is, where-is basis”;
- » The reasonable period of time to find a purchaser (or purchasers) depends upon asset type and market conditions.

## Forced Sale

- » Forced sale describes a premise where a seller is under **compulsion to sell** and that, as consequence, a proper marketing period is not possible.
- » The price that could be obtained in these circumstances will depend upon a number of factors such as available time for disposal, market depth, etc. It may also reflect the consequences for the seller on failing to sell within the period available.

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# Fair Value (1/2)

## Fair Value as per IBC

- » As per section 35 (1) of the Insolvency and Bankruptcy Code, 2016 (“IBC”), “Fair value” is the estimated **realizable value** if the assets were to be exchanged between a willing buyer and seller on an arm’s length basis, as on the **insolvency commencement date**.

## Fair Value as per other standards

- » According to the International Valuation Standards (“IVS”) 104, “Fair Value is the estimated amount for which an **asset or liability should exchange** on the valuation date between a willing buyer and a willing seller in an arm’s length transaction, **after proper marketing** and where the parties had each acted knowledgeably, prudently and without compulsion”.
- » According to International Financial Reporting Standards (IFRS) 13, “Fair Value as the price that would be **received to sell an asset or paid** to transfer a liability in an **orderly transaction** between market participants at the measurement date”.

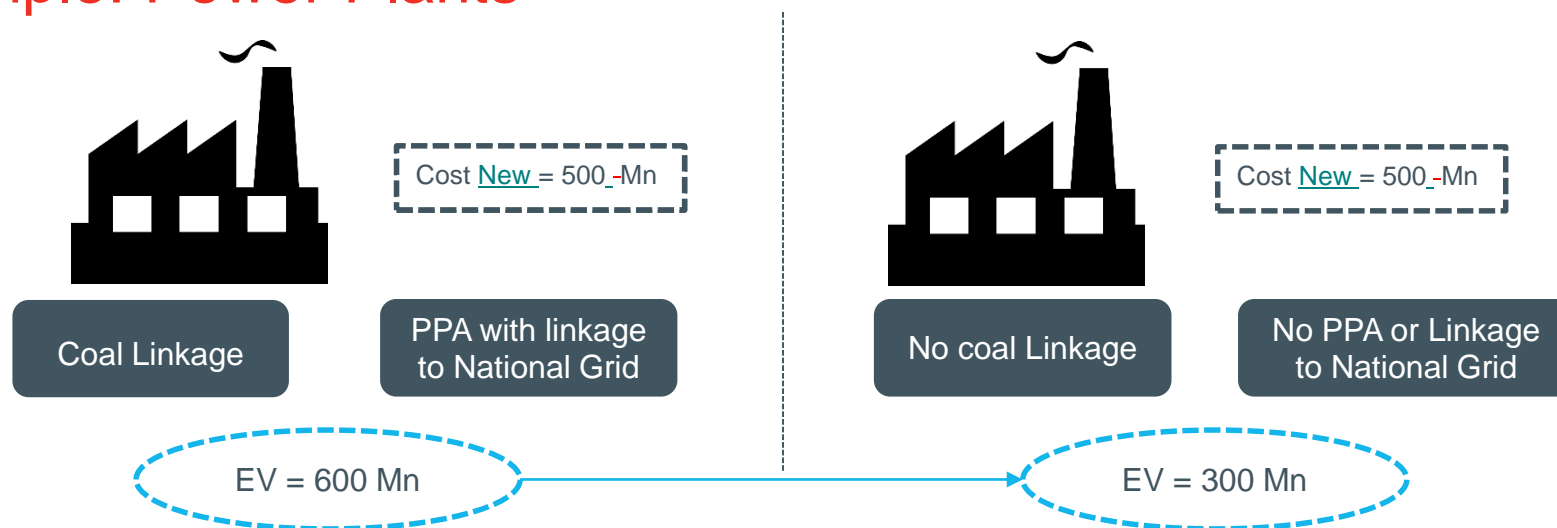
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# Fair Value (2/2)

## Fair Value

- » It is the estimated amount, expressed in terms of money, that may reasonably be expected for a property in an exchange between a willing buyer and a willing seller, with equity to both, neither under any compulsion to buy or sell, and both fully aware of all relevant facts, as of a specific date, and **assuming that the earnings support the value reported.**
  
- » As per International Valuation Standards, to estimate the fair value of fixed assets, it is mandatory to check the existence of **economic obsolescence (EO)**, and suitably adjust the estimated Depreciated Replacement Cost (“DRC”) of the fixed assets with applicable EO (if any) to arrive at the fair value. To estimate economic obsolescence, enterprise value of Company on the standalone basis is estimated using Income Approach through discounted cash flow method only if projected financial information (PFI) is made available for the analysis.

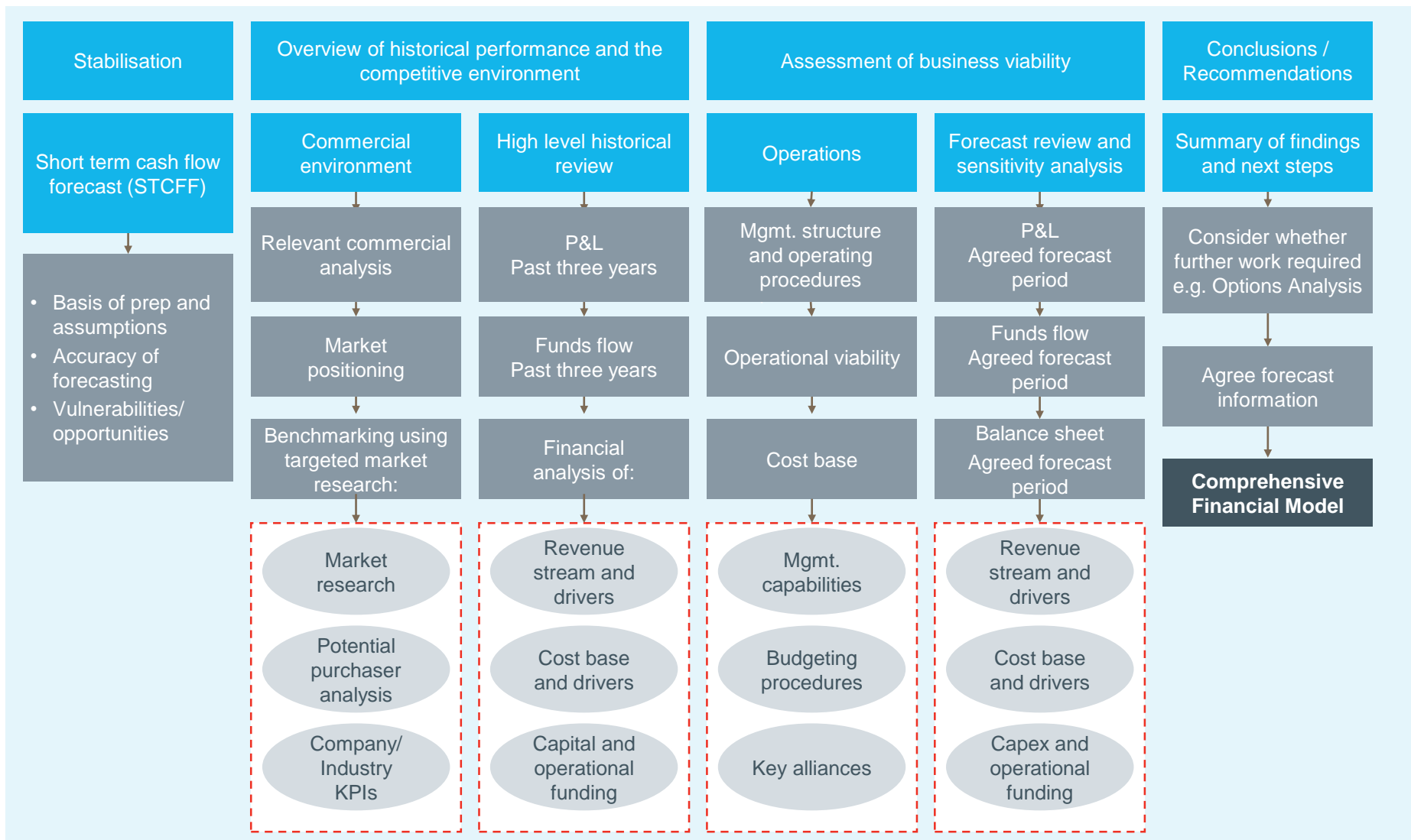
# Example: Power Plants



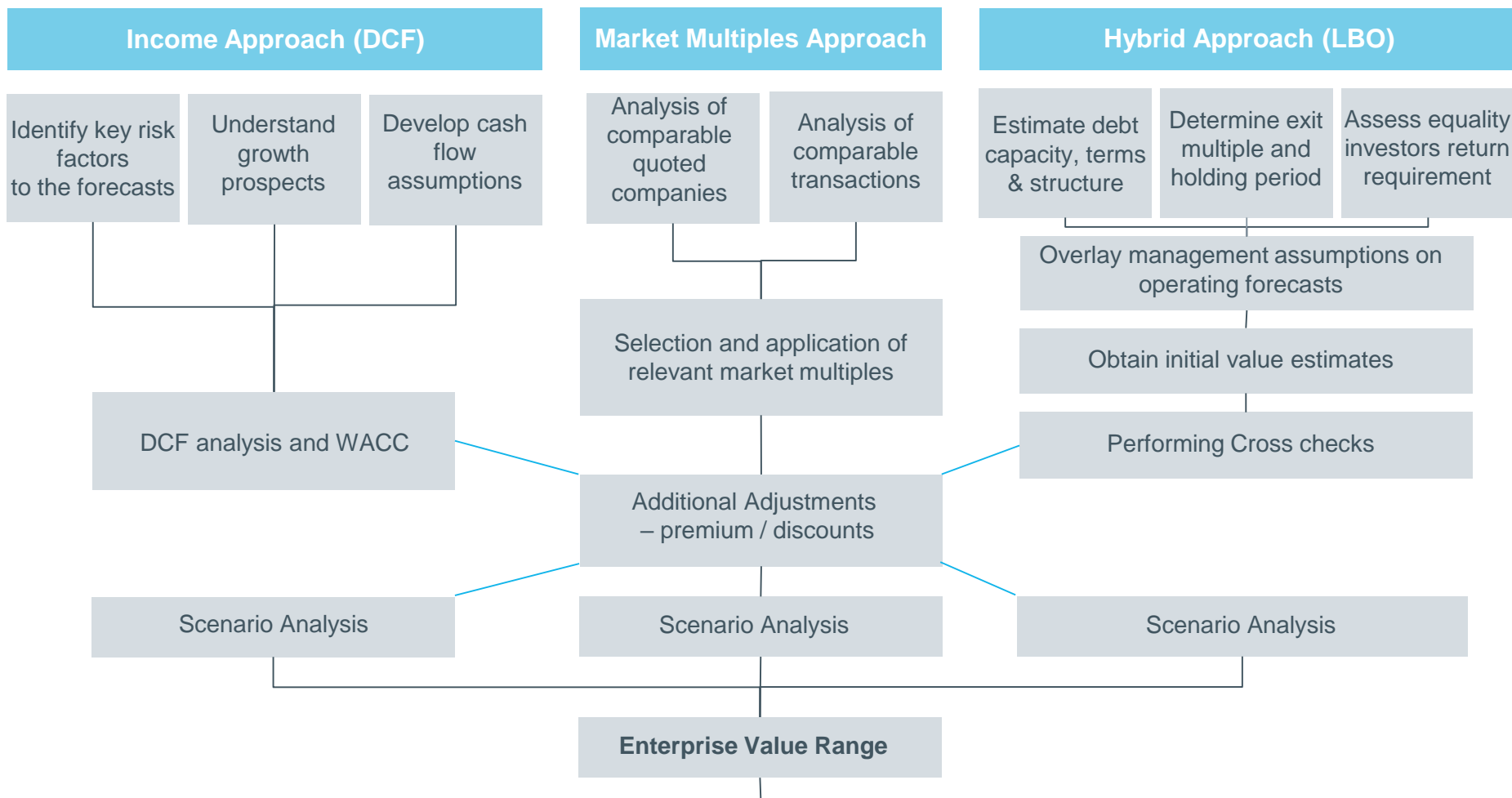
- 1 There are two plants (Plant 1 & Plant 2) engaged in the generation & distribution of electricity. Plant 1 has a coal linkage agreement for supply of coal at lower than market prices and also transmits electricity directly into the national grid and has a PPA for 100% generation, whereas Plant 2 has neither of the above.
- 2 The two plants can be erected at the same cost (500 Mn) & have the same DRC (400 Mn). However, the EV of two plants will differ significantly due to the following reasons:
  - Coal linkage agreement will provide access to cheaper coal to Plant 1. This will lead to cheaper costs of production for Plant 1 as compared to Plant 2, resulting in higher net cash flows and EV.
  - PPA with direct linkage to national grid provides the Plant 1 with an option to generate electricity continuously as the demand is not a constraint. This provides higher revenues & benefits of economies to scale to Plant 1. Higher revenue & lower costs will lead to higher EV for Plant 1.
- 3 Plant 1's EV (600 Mn) turns out to be higher than its DRC (400 Mn), and hence, there will be no economic obsolescence. In case of Plant 2, the EV (300 Mn) is lower than DRC (400 Mn) resulting in an economic obsolescence (400 Mn – 300Mn = 100 Mn) and lower fixed asset value.

**Hence, Fair Value could be lower than the estimated DRC in situations of economic obsolescence.**

# Understanding Financial Position and Performance: Comprehensive Financial Model



# Estimation of Enterprise Value

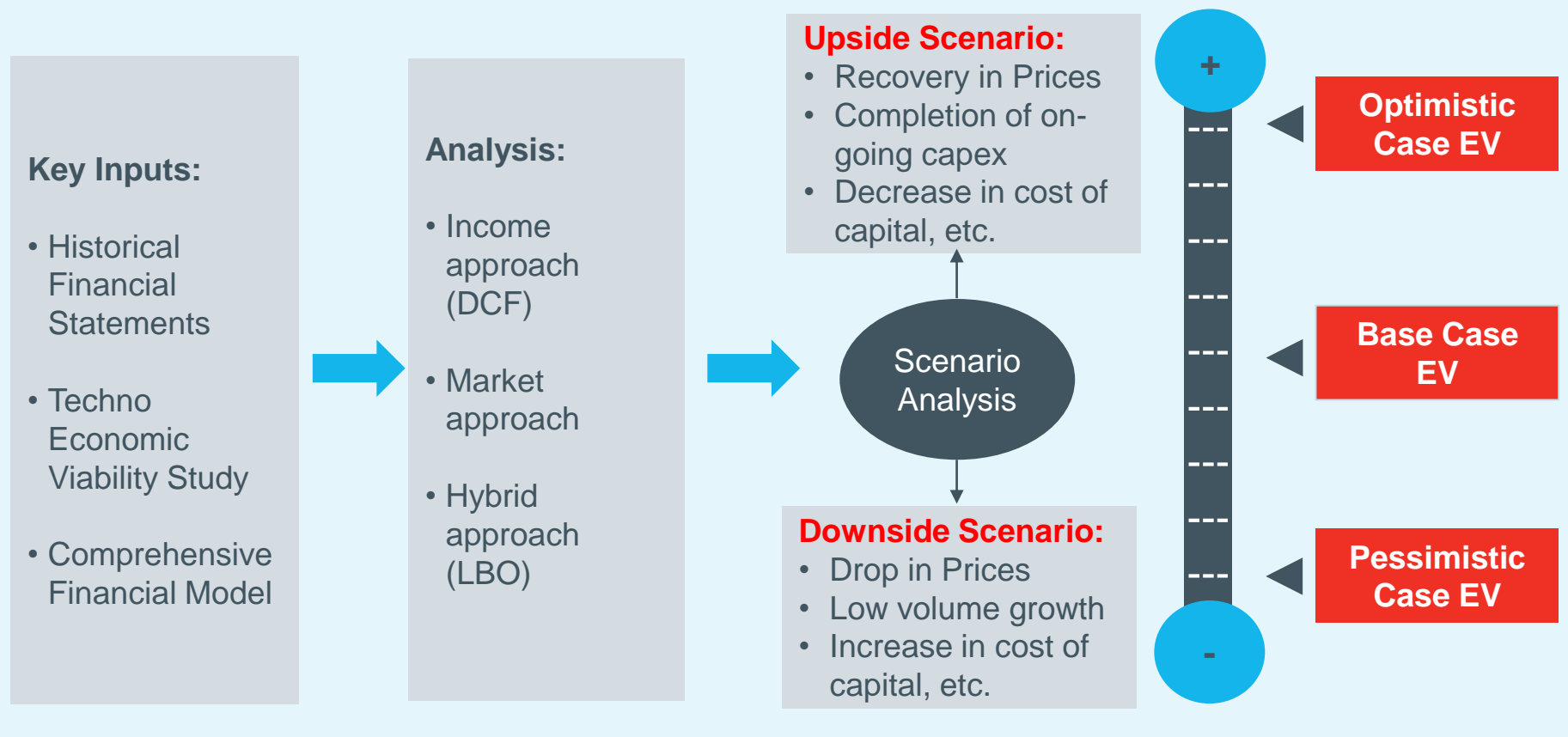


Enterprise Value Range is generally computed using a combination of Income, Market Approach, and Hybrid Approach depending upon availability of reasonable information. A scenario analysis is typically carried out to test the sensitivity of the key business drivers and to estimate the risk assumed in the underlying value

# Enterprise Value Analysis

**Enterprise Value (“EV”)** can be defined as the value of the entire business representing the total value attributable to both debt holders and equity shareholders.

## Steps in Enterprise Value analysis



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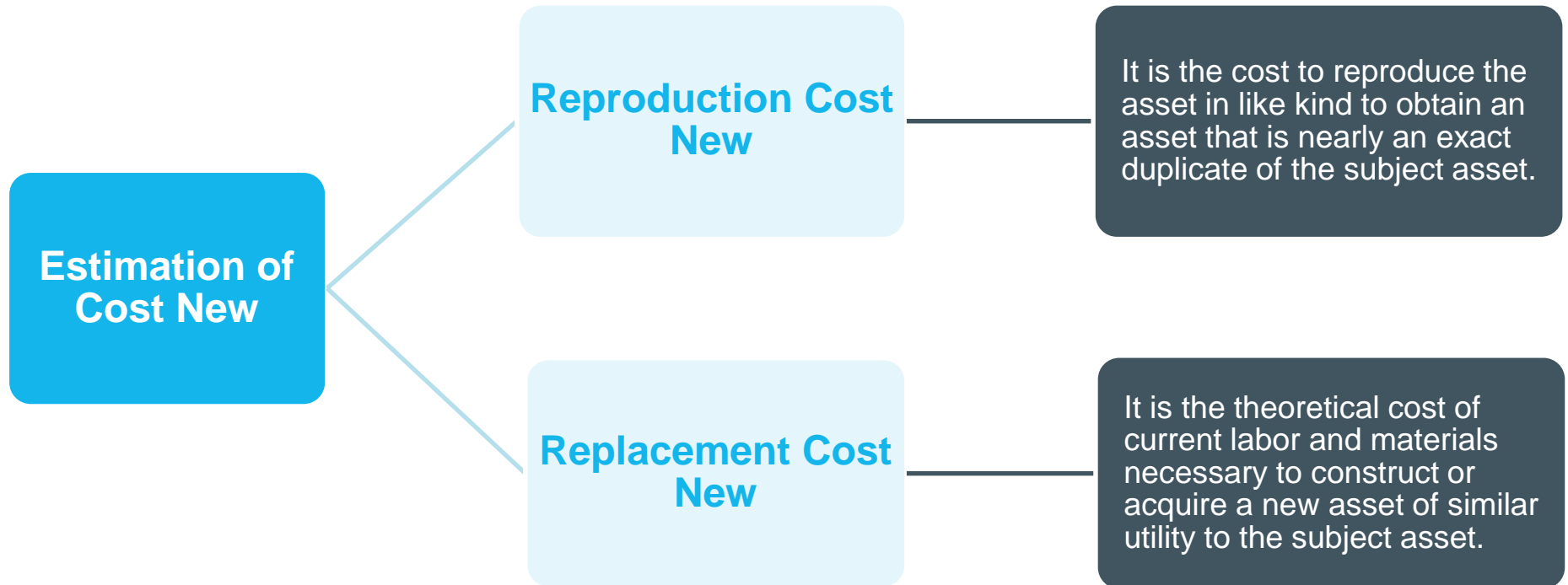
Section 3.1

# Valuation of Tangible assets



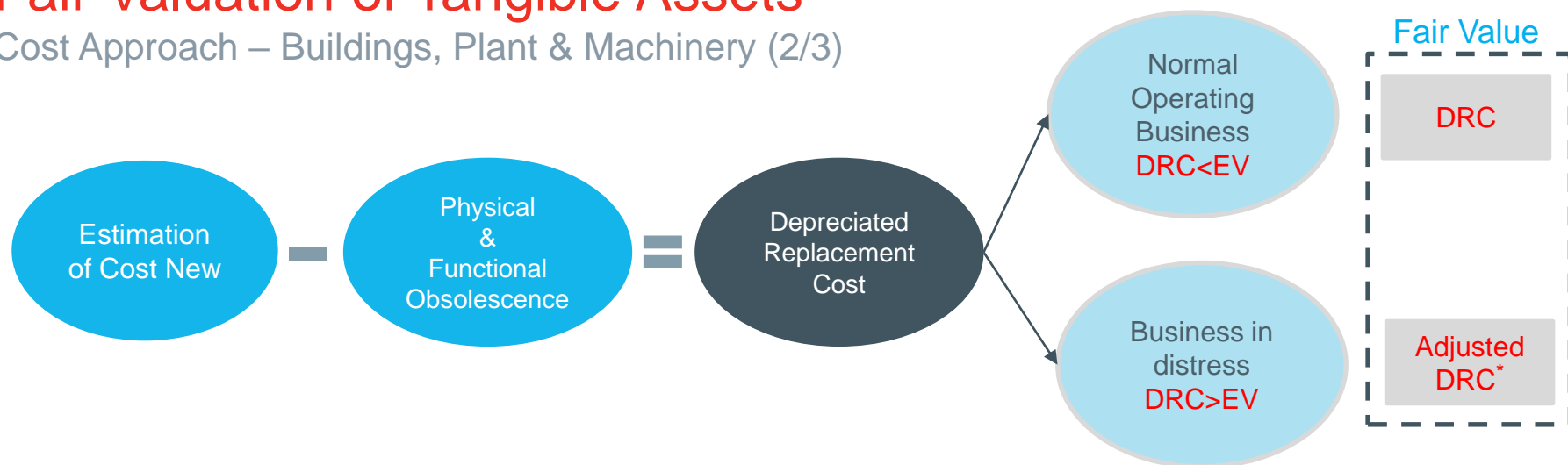
# Cost New Estimation

Cost Approach – Buildings, Plant & Machinery (1/3)



# Fair Valuation of Tangible Assets

Cost Approach – Buildings, Plant & Machinery (2/3)



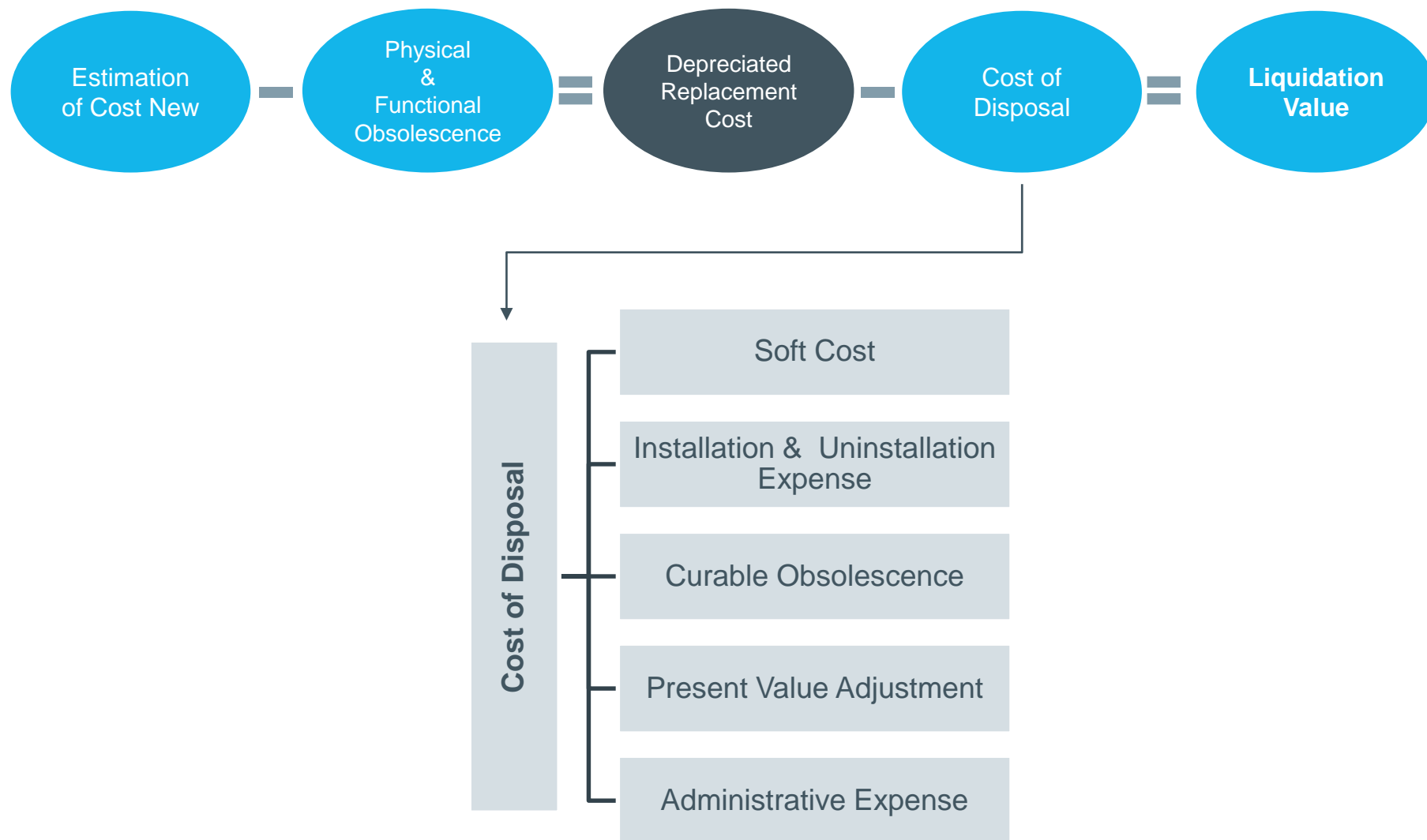
\* Adjustment for Economic Obsolescence

## Estimation of Fair Value

- The cost new of an asset is estimated by reproduction and/or replacement cost method. This cost new is further adjusted for physical deterioration and functional obsolescence, in addition to Economic Obsolescence (EO), as applicable. The value concluded after such adjustments, can be referred to as fair value (*i.e. Fair Value = DRC – EO*).
- Economic Obsolescence is derived using the Income Approach and/or the Market Approach and compared with the DRC of the business / plants on a going concern basis and concluding on the lower of the two values. ***In other words, if the DRC of a certain plant is higher than its EV, its fair value cannot be more than the value of the future cash flows it can generate.***

# Tangible Assets - Liquidation Value Estimation

Cost Approach – Buildings, Plant & Machinery(3/3)

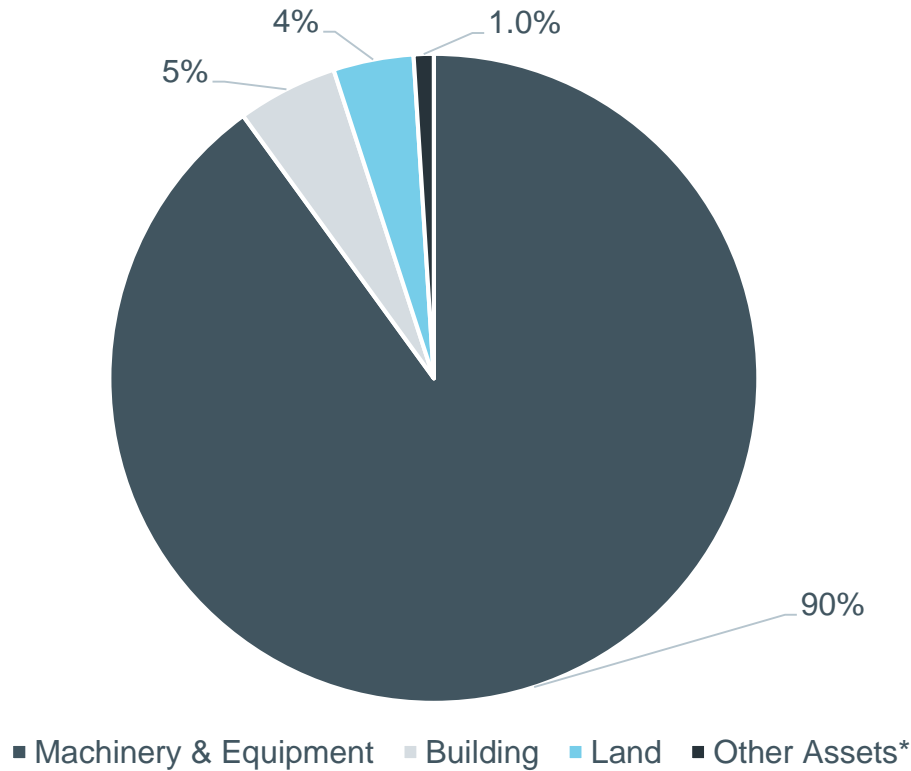


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Section 3.2

# Case Study - Liquidation valuation of a Steel Plant

# Investment Cost Break-up (1/8)



## Types of Tangible Assets

- 1) Machinery & Equipment
- 2) Building
- 3) Land
- 4) Other Assets

\* Other assets includes - Computer & IT Equipment, Furniture & Fixture, Office Equipment, Vehicles

# Cost Benchmarking (2/8)

## Benchmark Cost Range for Flat Product

*INR 6,500 Crs. per MTPA*

## Estimated Cost New

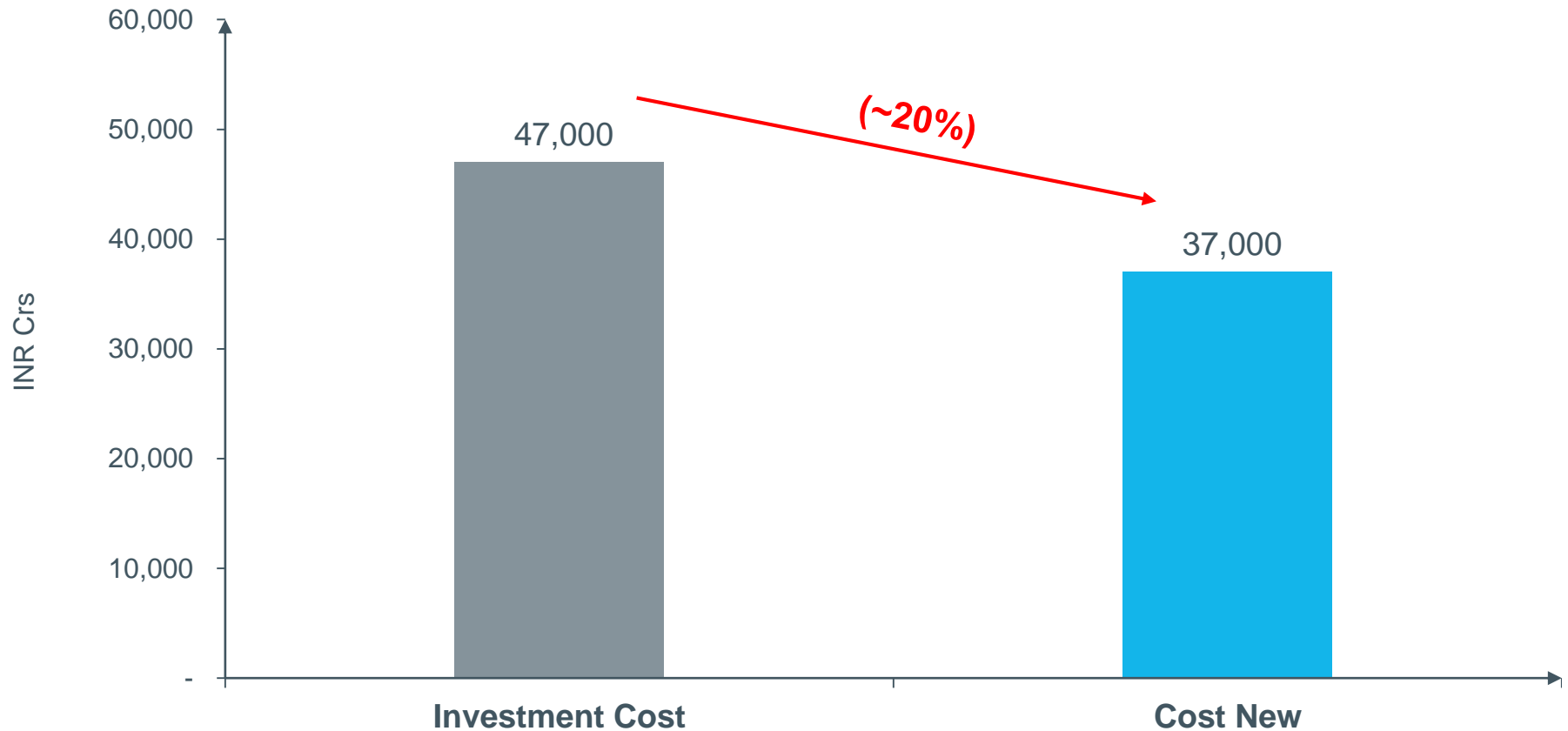
*~ INR 6,300 Crs. per MTPA*

## Units beyond benchmark cost

### Major Units

- Raw Material Handling
- Beneficiation plant
- Pellet plant
- Sinter plant
- Blast Furnace
- Direct Reduced Iron (DRI)
- Steel Melt Shop
- Casters
- Mill - Hot/Cold Strip Mill
- Utilities & Other Assets
- Captive Power Plant
- Pipe Mill
- Cold Rolling Mill Complex

## Investment vs Cost New - Machinery & Equipment (3/8)

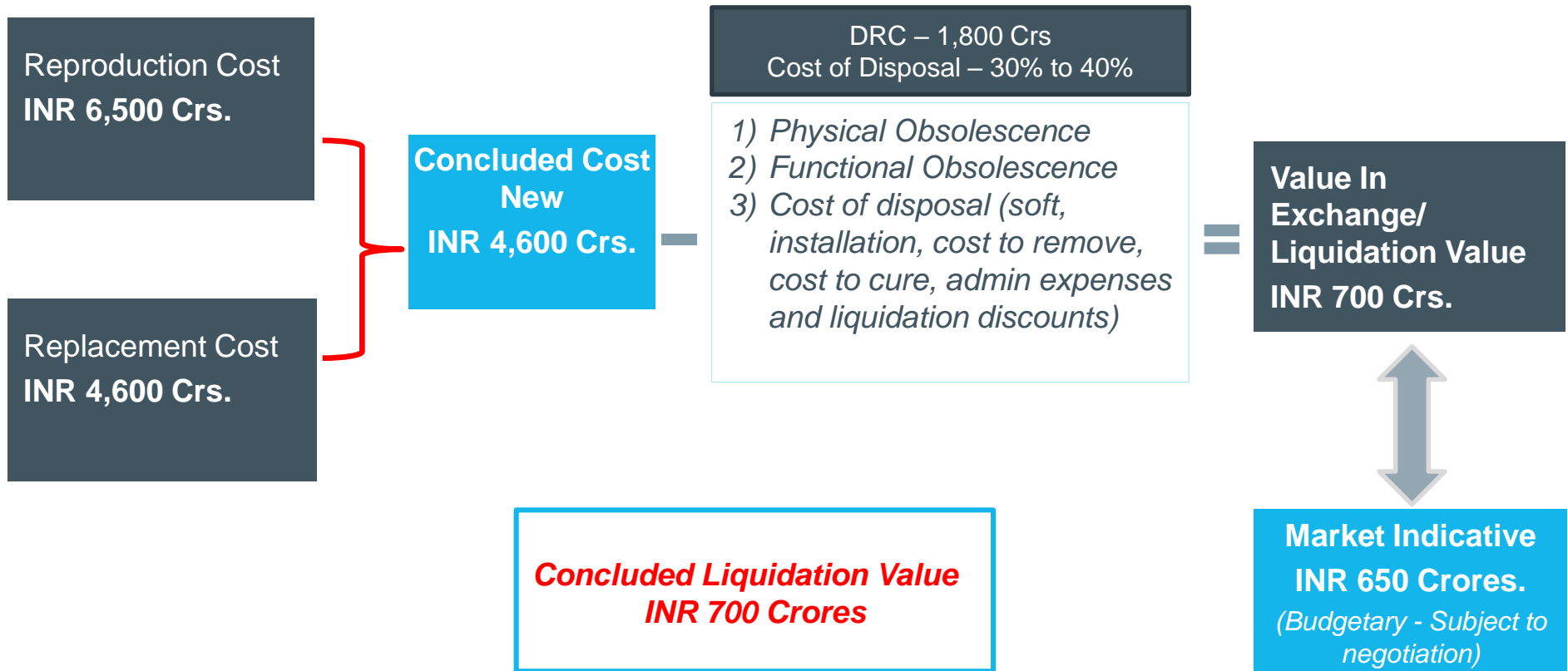


### Reasons for difference in value:

- Delay in plant commissioning
- Capitalization of forex exchange fluctuation
- Other unknown factors

# Sample Check by Market Approach (4/8)

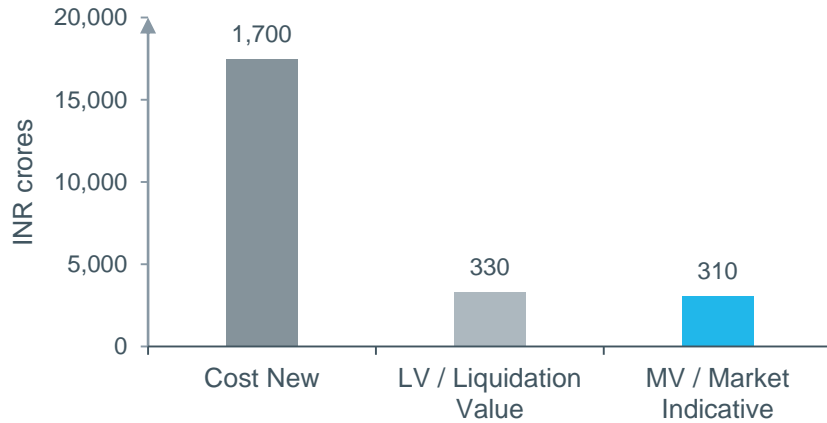
## Sample Working – Hot Strip Mill



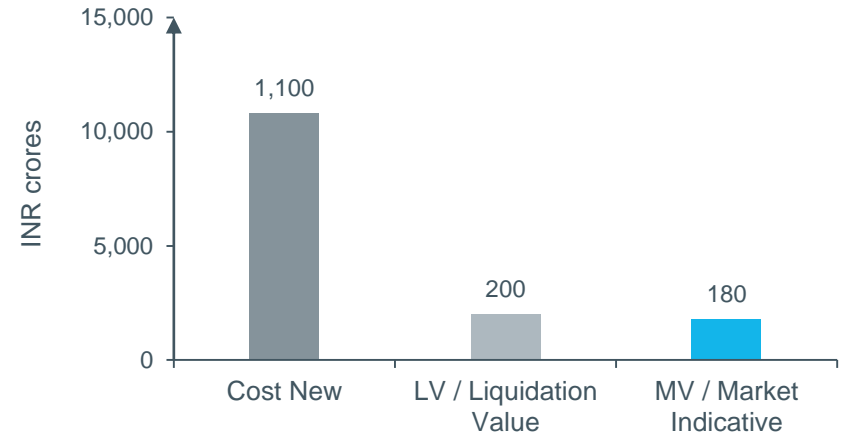


# Other Sample Checks by Market Approach (5/8)

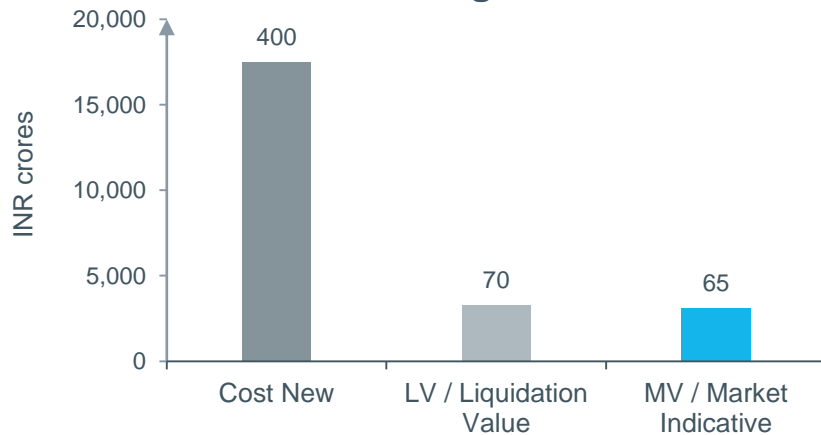
## Beneficiation Plant



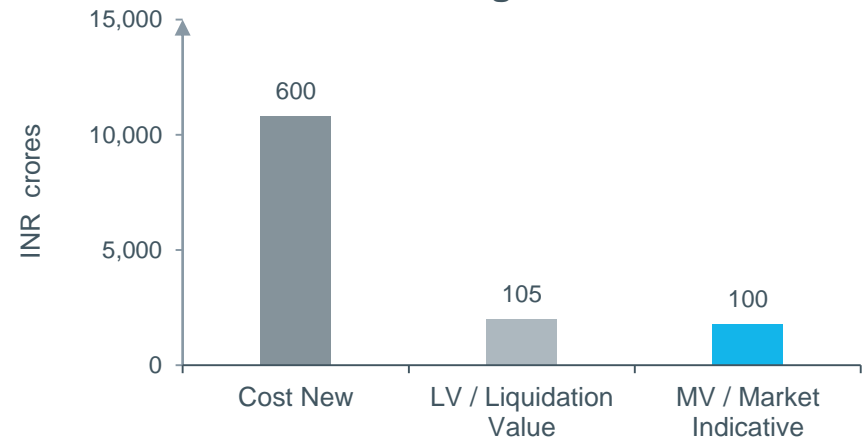
## Blast Furnace



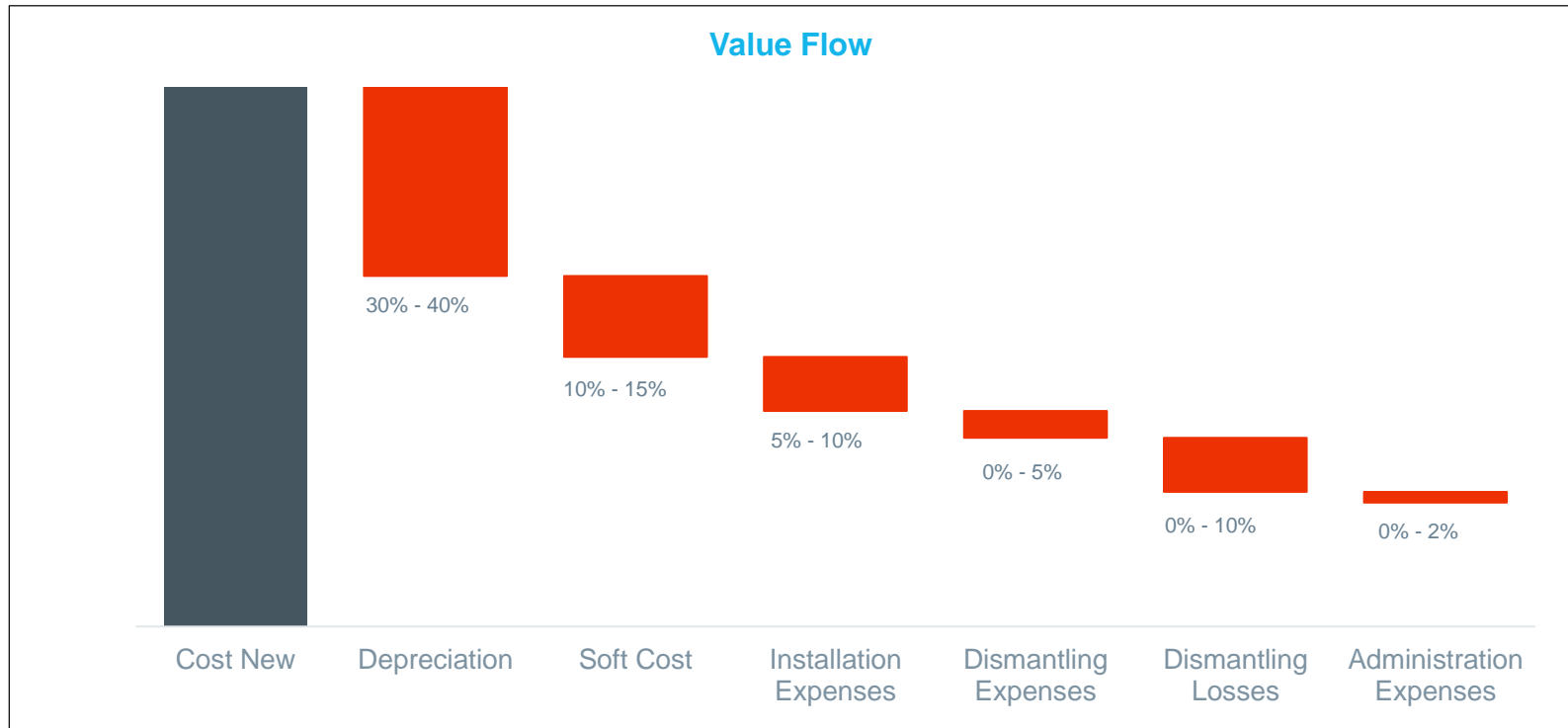
## Galvanizing Line



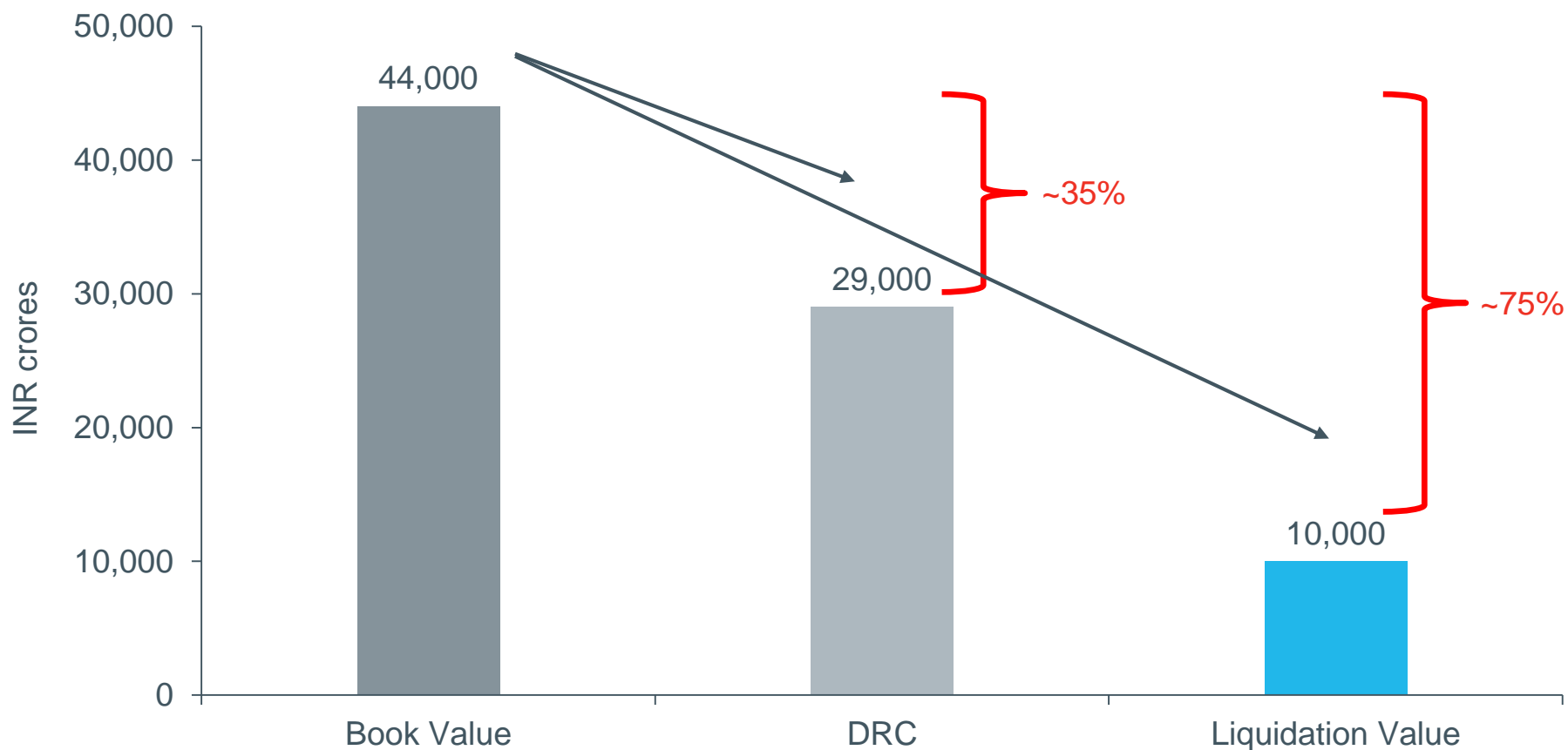
## Cold Rolling Mill



# Other Sample Checks by Market Approach (6/8)



## Value Comparison – Machinery & Equipment (7/8)

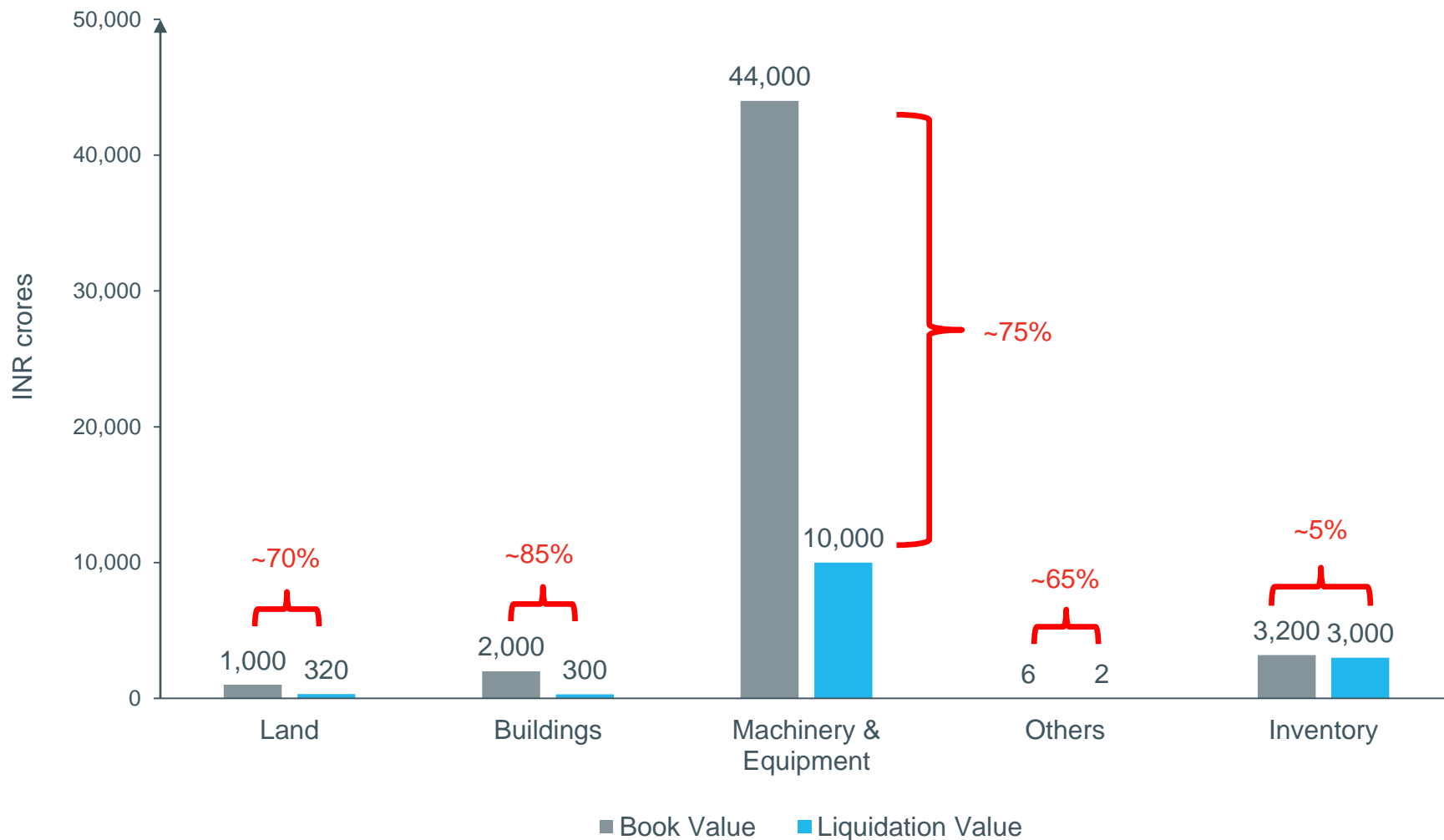


### Key Points:

- Depreciated Replacement Cost is ~35% less than the Book value of asset in case of Machinery
- Liquidation value is ~75% less than the Book value of asset in case of Machinery

# Fixed Asset Summary (8/8)

## Comparison of Book Value and Liquidation Value



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Section 3.3

# Valuation of Other Assets

# Trade Receivables

## Other Assets (1/3)

Provisioning criteria	Category	Adjustment factor
Expected Credit Loss analysis	0 < Due < 365	Category-wise provision matrix in line with the ECL analysis of comparable companies.
All dues over 365 days	Due > 365	(i) 100.0 percent provision due to uncertainty associated with recovery from these customers.  (ii) Percentage provision in line with the ECL analysis of comparable companies.
Cases of Bad debt	Overall	100.0 percent provision considered for bad debts outstanding under both liquidation and going concern scenario.
Ongoing Legal Cases & NCLT cases	Overall	100.0 percent provision considered due to uncertainty associated with recovery from these customers.
Debtors with less than INR 0.1 Mn balance	Various Categories	(i) Recoverability from the debtors amounting to less than INR 1 lac considered to be Nil giving cognizance to the time and efforts required for such recovery in case of liquidation scenario.  (ii) Recoverability from the debtors amounting to less than INR 1 lac considered as realizable in case of going concern scenario.

### Illustrative ECL analysis

Age brackets (in days)	0-30	31-60	61-90	91-120	121-150	151-365	>365
Third Party	0.0%	0.0%	1%	3%	4%	20%	100.0%
Related Party	0.0%	0.0%	2%	6%	7%	40%	100.0%

*Note: For the purposes of illustration, we have used the provision matrix of a listed comparable company.*

# Inventories

## Other Assets (2/3)

### Inventories

Asset Class	Typical Approach	Remarks
Raw Material & Raw Material-In-Transit	Net Realizable Value (NRV)	<ul style="list-style-type: none"><li>For Raw Material, the value of raw material items are based on net realizable value/ current rates prevailing in the market, adjusted for any raw material stored in non-saleable condition.</li></ul>
Work in Progress (WIP)	Net Realizable Value	<ul style="list-style-type: none"><li>For Work in progress, the value of WIP inventory is based on the net realizable value/ current rates prevailing in the market of the respective item, which is adjusted with cost-to-complete and the profit margins.</li></ul>
Finished Goods	Net Realizable Value	<ul style="list-style-type: none"><li>For Finished Goods, the value of finished goods is based on the net realizable value/ current rates prevailing in the market, which is adjusted with the profit margins.</li></ul>
Stores & Spares	Net Realizable Value	<ul style="list-style-type: none"><li>For Stores &amp; Spares items, the value of stores and spares is based on recoverable value of the stores and spares keeping in view the nature of each item and its marketability.</li></ul>
Scrap	Cost Approach – Book Value	<ul style="list-style-type: none"><li>For Scrap, the book value is tested for consistency with the applicable scrap rate prevailing in the market at the time, and accordingly adjusted keeping in view the nature of each item and its marketability.</li></ul>

#### Key Points:

- Under Liquidation Scenario, freight/ transportation cost as a percentage of sales is considered based on high level industry benchmarking to calculate the higher end of Liquidation Value.
- Further, a discount of 5-10 percent is considered (wherever applicable) to calculate the lower end of Liquidation Value.

# Investments

## Other Assets (3/3)

### Income Approach

The value is developed on the basis of capitalization of the net earnings that would be generated if a specific stream of income can be attributed to an asset or a group of assets.

Income Capitalisation  
Discounted Cash Flow

This is mainly the primary approach in valuing the investment interest.

### Market Approach

The value of the appraised asset is estimated through an analysis of recent sales/ transactions of comparable items.

Comparison Method

This is the secondary approach in our analysis and may be applied as a reasonability test in case of 'Value in Use' premise.

### Cost Approach

The value is determined through fair market value of all the assets and liabilities present on the balance sheet of the subject entity and calculating the net book value.

Net Asset Value Method

Incase of the identified assets of investment interest are non-operating in nature, this approach may be applied.



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Appendix 2

# About Duff & Phelps

# Duff & Phelps



Duff & Phelps is the global advisor that protects, restores and maximizes value for clients in the areas of valuation, corporate finance, investigations, disputes, cyber security, compliance and regulatory matters, and other governance-related issues. We work with clients across diverse sectors, mitigating risk to assets, operations and people.

MORE THAN  
**15,000**  
ENGAGEMENTS  
PERFORMED IN  
2017

**6,500**  
CLIENTS  
INCLUDING  
OVER  
**50%** OF THE  
**S&P 500**



**3,500+**  
TOTAL  
PROFESSIONALS  
GLOBALLY

THE  
AMERICAS  
**2,000+**  
PROFESSIONALS

EUROPE AND  
MIDDLE EAST  
**1000+**  
PROFESSIONALS

ASIA  
PACIFIC  
**500+**  
PROFESSIONALS

# One Company

ACROSS 28 COUNTRIES WORLDWIDE



## THE AMERICAS

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Atlanta	Houston	Reston
Austin	Los Angeles	St. Louis
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Buenos Aires	Milwaukee	Seattle
Cayman Islands	Minneapolis	Secaucus
Chicago	Morristown	Silicon Valley
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Denver	New York	Toronto
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Bilbao	Madrid
Birmingham	Manchester
Channel Islands	Milan
Dubai	Moscow

Munich
Padua
Paris
Pesaro
Porto
Rome
Turin
Warsaw

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Beijing	Shenzhen
Guangzhou	Singapore
Hanoi	Sydney
Ho Chi Minh City	Taipei
Hong Kong	Tokyo
Hyderabad	
Mumbai	
New Delhi	

# About Us

## WE SERVE

**73%** of Fortune 100 companies

**84%** of Am Law 100 law firms

**72%** of the 25 largest Euro STOXX companies

**72%** of the 25 largest private equity firms in the PEI 300

**68%** of the 25 largest hedge funds in the Alpha Hedge Fund 100

**70%** of top-tier private equity firms in 2017

## WE RANK

**#1** U.S. Fairness Opinion Provider<sup>1</sup>

**#1** Global Fairness Opinion Provider<sup>1</sup>

**#4** U.S. Middle Market M&A Advisor over the past 5 years<sup>2</sup>

**#1** Forensic Consultant in North America<sup>3</sup>

**#1** IP Litigation Consulting Firm in the U.S.<sup>4</sup>

**Largest independent** valuation advisory firm

## WE WON

**Best** Cyber Security Services Provider – The National Law Journal (NLJ) 2018

**Best** Cyber Security Services Provider – HedgeWeek 2018

**Best** Litigation Dispute Advisory Services Consultant – NLJ 2018

**Best** Corporate Investigations Provider – NLJ 2018

**Best** Data Security Provider – NLJ 2018

**Best** Managed IT Services Provider – NLJ 2018

**Best** Global Risk and Investigations Consultant – NLJ 2018

**Thought Leader** in Digital Forensics, Arbitration and Investigations – Who's Who Legal 2018

Forrester **Wave Leader** Customer Data Breach Notification and Response Services – 2017

1. Source: Published in Thomson Reuters' "Mergers & Acquisitions Review - Full Year 2017."  
2. Source: Thomson Financial Securities Data (U.S. deals \$75M < \$225M, including deals without a disclosed value). Full years 2013 through 2017.

3. Source: Who's Who Legal 2018: Forensic and Litigation Consulting.  
4. Source: 2018 IAM

# Enhancing Value Across a Range of Expertise

## VALUATION ADVISORY

Valuation and consulting for financial reporting, tax, investment and risk management purposes

- Valuation Services
- Alternative Asset Advisory
- Real Estate Advisory
- Tax Services
- Transfer Pricing
- Fixed Asset Management and Insurance Solutions



## CORPORATE FINANCE

Objective guidance to management teams and stakeholders throughout restructuring, financing and M&A transactions, including independent transaction opinions

- M&A Advisory
- Fairness Opinions
- Solvency Opinions
- Transaction Advisory
- ESOP and ERISA Advisory
- Commercially Reasonable Debt Opinions
- Distressed M&A and Special Situations



## GOVERNANCE, RISK, INVESTIGATIONS AND DISPUTES

Combined Duff & Phelps and Kroll risk management and mitigation, disputes and other advisory services

- Business Intelligence and Investigations
- Disputes
- Cross-Border Restructuring
- Cyber Risk
- Legal Management Consulting
- Security Risk Management
- Operating Diligence and Compliance Risk Management
- Regulatory (for financial services)



# Services Across the Transaction Lifecycle

## ASSESSMENT OF STRATEGIC ALTERNATIVES

### Transaction Consulting

- Transaction identification
- Buy-side / Sell-side advisory
- Industry and market scoping studies
- Financial projections and transaction modeling

## INVESTMENT

### Transaction Pursuit

- Financial due diligence
- Business valuation
- Fairness opinions
- Accretion/Dilution analyses
- Carve-out analyses
- Solvency opinions
- Strategic tax planning

### Change of Control Acquisition

- Purchase price allocation
- Valuation and structuring of contingent consideration, earn-outs and stock-based compensation
- Valuation of guarantees and indemnifications
- Tax valuations

## REPORTING AND OPERATING PERFORMANCE IMPROVEMENT

### Financial and Tax Reporting

- Goodwill and intangible asset impairment testing
- Transfer pricing
- Tax legal entity valuations
- Unclaimed property reporting

### Cash Flow Improvement

- Property tax consulting
- Real property cost segregation
- Real estate consulting
- Business incentives advisory

### Financing

- Private placement of debt and equity
- ESOP and ERISA advisory
- Collateral valuation

### Financial Distress

- Restructuring advisory
- Fresh start accounting

## EXIT PLANNING AND SALE

### Exit Preparation

- Sell-side M&A advisory
- Sell-side due diligence

### Post Sale

- Dispute analysis/litigation support
- Post acquisition disputes
- Shareholder disputes
- Expert witness testimony

# Our Services

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Purchase Price Allocation  
Goodwill and Asset Impairment  
Tax Valuation  
Intellectual Property Valuation  
Transfer Pricing  
Business Valuation  
Fresh Start Accounting  
Complex Securities Valuation  
Strategic Value Advisory  
Machinery and Equipment Valuation

### Alternative Asset Advisory

Portfolio Valuation  
Complex Asset Solutions  
Secondary Market Advisory Services

### Real Estate Advisory

Real Estate Valuation and Consulting  
Real Estate Restructuring  
Loan Services/Debt Advisory  
Lease Renegotiation  
Right of Way Appraisal  
Cost Segregation  
Property Asset Management and Optimization  
Transaction Due Diligence

### Fixed Asset Management and Insurance Solutions

Property Insurance Appraisal  
Fixed Asset Inventory and Reconciliation  
IT Fixed Asset Inventory Services  
Fixed Asset Componentization  
Property Record Outsourcing

## CORPORATE FINANCE

### M&A Advisory

Fairness and Solvency Opinions  
ESOP and ERISA Advisory  
Transaction Advisory Services  
Financial Sponsors Group  
Distressed M&A and Special Situations  
Private Capital Markets

### Transaction Opinions

Fairness Opinions  
Solvency Opinions  
ESOP and ERISA Advisory  
Commercially Reasonable Debt Opinions

### Restructuring Advisory

Corporate Restructuring  
Debt Advisory  
Distressed M&A and Special Situations

## COMPLIANCE AND REGULATORY CONSULTING

Securities Enforcement and Examinations  
Compliance Consulting  
Regulatory Consulting  
Risk and Management Company Solutions  
Hosted Regulatory Solution  
Regulatory Tax Advisory  
Business Services  
Cybersecurity Services  
Placement and Staffing Services

## DISPUTES AND INVESTIGATIONS

Arbitration  
Commercial Disputes and Litigation  
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Intellectual Property Disputes and Advisory Services  
Securities Litigation  
Monitoring and Receivership Services  
Restructuring, Bankruptcy and Insolvency Litigation

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Global Data Risk  
Information Lifecycle Management  
Innovation Asset Management  
Legal Operations  
Managed Services

## TAX SERVICES

Property Tax Services  
Site Selection and Incentives Advisory  
Unclaimed Property and Tax Risk Advisory  
Tax Litigation  
Sales and Use Tax Services



# Regulatory Affiliations

Duff & Phelps advises the world's leading standard setting bodies on valuation issues and best practices.



U.S. Securities and  
Exchange Commission

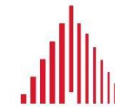


International  
Accounting Standards  
Board

International Accounting  
Standards Board



Financial Accounting  
Standards Board



Appraisal  
Institute™  
*Professionals Providing  
Real Estate Solutions*

Appraisal  
Institute



American Institute  
of CPAs



International Valuation  
Standards Council



The  
Appraisal  
Foundation

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Foundation

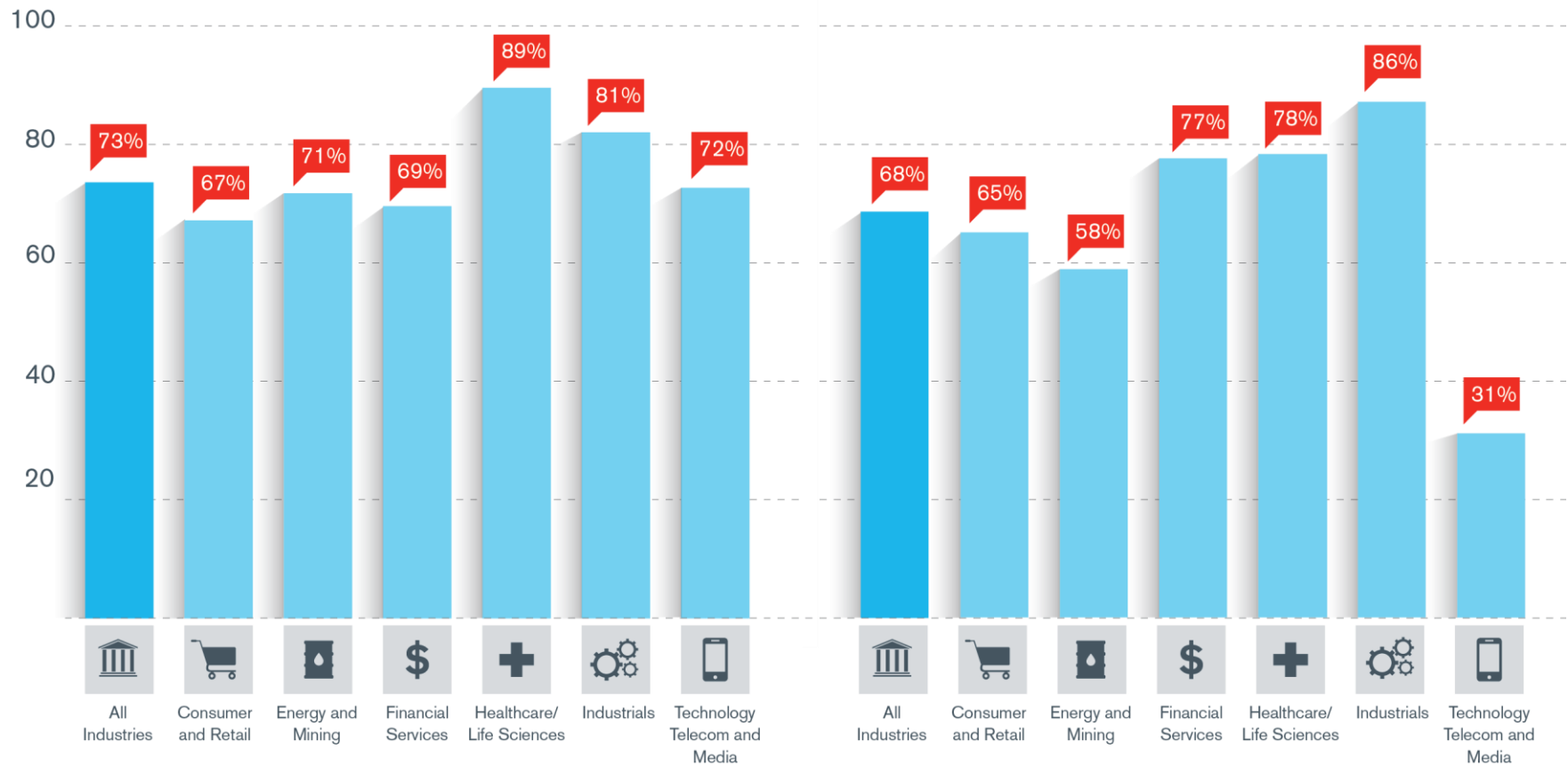


Institute of Management  
Accountants

# Industry Expertise

Serving **Over 70%** of Fortune 100 Companies

Serving **Nearly 70%** of Euro STOXX 100 Companies



# Merchant Banking Services

Duff & Phelps India Private Limited is a SEBI Registered Category I Merchant Bank.

We can provide Fairness Opinions as well as valuation services in compliance with any of the following policies/ Acts:

## Merchant Banking services provided by Duff & Phelps

### Companies Act 2013 Compliance Requirements

Investing in other companies using share swaps

Preferential issue of shares

Providing exit to minority shareholders

Issuing sweat equity or shares for non-cash consideration

### Income Tax Act Compliance Requirements

Indirect transfer of assets from foreign companies (compliance with Section 9 of IT Act)

Transactions in unquoted shares, required to comply with Section 56 of the IT Act – ESOP Valuations

### SEBI Compliance Requirements

Merger or demerger transaction

Delisting of public companies

Transactions in REIT and InvIT assets

Share acquisition of infrequently traded listed entity

Buyback or capital reduction

### FEMA/ RBI Compliance Requirements

Issue or transfer of shares between resident and non-resident shareholders

Issue of shares to person(s) resident outside India