# **Brand Finance®**





# GIFT\*\* 2018

Global Intangible Finance Tracker (GIFT™) 2018
— an annual review of the world's intangible value
October 2018

## **Foreword - Brand Finance.**



**David Haigh**CEO, Brand Finance

Each year, Brand Finance plc analyses the fluctuating value of intangible assets on world stock markets.

Once again the Global Intangible Finance Tracker (GIFT™) highlights important trends which have developed over the last 16 years:

- 1. The absolute scale of global intangible assets and the high percentage of global enterprise value represented by intangible assets
- 2. The volatility of intangible asset values caused by changes in investor sentiment over time
- 3. The confusion created by some intangible assets appearing in balance sheets while most do not
- 4. The failure of IFRS 3 to adequately report the current real value of both internally generated and acquired intangibles

The phenomenon of 'undisclosed intangibles' has arisen because accounting standards do not recognise intangible assets unless there has been a transaction to support intangible asset values in the balance sheet.

To many accountants, the Historical Cost Convention is a prudent measure to prevent creative accounting and the distortion of reported asset values. But the ban on intangible assets appearing in balance sheets unless there has been a separate purchase for the asset in question, or a fair value allocation of an acquisition purchase price, means that many highly valuable intangible assets never appear on balance sheets.

This seems bizarre to most ordinary, non-accounting managers. They point to the fact that while Smirnoff appears in Diageo's balance sheet, Baileys does not. The value of Cadbury's brands was not apparent in its balance sheet and probably not reflected in the share price prior to Kraft's unsolicited and ultimately successful contested takeover of that once great British company.

There are many other examples of this unfortunate phenomenon, which has led to the call for a new approach to financial reporting, with fair values of all assets determined and reported by management each year. Annual fair value reporting would be a significant help to managers, investors and other interested parties.

There is a growing demand, strongly supported by Brand Finance plc, that it is time for a new form of financial reporting, whereby boards should be required to disclose their opinion of the fair value of the underlying values of all key intangible assets under their control. We believe that this exercise should be conducted annually and include explanatory notes as to the nature of each intangible asset, the key assumptions made in arriving at the values disclosed and a commentary about the health and management of each material intangible assets. They could then be held properly accountable.

We believe that too many great brands have been bought and transferred offshore as a result of the ongoing reporting problem.

We hope that this GIFT™ report will start a reporting revolution which is long overdue. Instead of meaningless balance sheet numbers we want to see living balance sheets with values that the board really considers appropriate and useful for customers, staff, investors, partners, regulators, tax authorities and other stakeholders.

We urgently need a more imaginative approach towards a regular revaluation and reporting of intangible assets. If we could achieve a more meaningful reporting approach we believe that it would lead to better informed management, higher investment in innovation and intangible asset value creation, stronger balance sheets, better defence against asset strippers and generally serve the needs of all stakeholders.

In our opinion it is time for CEOs, CFOs and CMOs to start a long overdue reporting revolution.

# **Foreword - Brand Finance Spain.**



**Teresa de Lemus**Managing Director,
Brand Finance Spain

Brand Finance's 12th annual Global Intangible Finance Tracker (GIFT™) has revealed that 52% of the world's business value is intangible and almost 80% of that is totally undisclosed. In our view this has profound effects on companies' ability to manage their assets and for investors to make informed decisions on where to put their money.

The conceptual framework for financial accounting, outlined by IASB, states that the objective of financial accounts is to provide information to enable "potential investors, lenders and other creditors [make] decisions about providing resources to the entity". When an investor is not clear which assets a company owns and how much they are worth, it seems clear that they do not have enough information to make decisions about how the companies they invest in should maintain or improve those assets. If you do not know how a company should invest in its assets, how can you expect to appraise your investments before investing in them?

In Spain, the figure for all intangibles is 36% of total business value with slightly over 40% undisclosed (15% of the total). This is less than the global average and partly shows that the dominant sectors in Spain tend to be more dependent on tangible assets.

However, with all companies there is an opportunity to build value through better management of your brands. One need only look at Shell to see how companies in traditionally highly tangible sectors can improve the value of their business through the better management of their intellectual property, especially brands.

Given the value of all publicly listed Spanish companies has not yet reached its pre-crisis peaks, it seems evident that better managing those intangible assets – in particular technology and marketing IP – will grow Spanish companies faster in the new digital economy.

According to a 2016 Brand Finance study, 68% of equity analysts believe that internally generated brands should be valued every year and published in financial accounts. Currently, only acquired intangibles can be valued and reported on the balance sheet. Similarly, most internal brand and marketing managers continually ask how to invest their budgets. The only way to do that profitably is to identify where value is being created and exploited.

These concerns correspond with the concerns of potential acquirers: how can you be sure you are paying the right price, if you do not know what you are buying? In the UK, the construction giant Carillion's demise was the country's biggest trading liquidation in history. It happened as a result of what seemed like overpayment for various acquisitions. Most of the purchase price was allocated to goodwill rather than specific assets and so it was not clear until too late that too much had been paid. We believe these issues can be avoided if you understand the value of the assets held by an acquisition target

It is not only investors and managers that are interested in intangibles, tax authorities are taking note too. In 2006, GSK paid more than US\$3 billion in double taxation because the company could not prove where it held the value of its brands. However, the famous recent cases, for example those concerning Amazon, Coca-Cola, and Starbucks, are just the tip of the iceberg. There are many more audits being conducted, investigating the location of ownership of intangible assets and the payments for their use within groups.

Companies need to understand the existence, location, and value of their intangible assets and improve reporting in order to support financial stakeholders, enhance internal management, and avoid tax risk. At the moment, standards setters are not helping them achieve any of that.

# **Foreword - Corporate Excellence.**



**Ángel Alloza**CEO, Corporate Excellence

Each day we are closer to a scenario that, years ago, seemed unattainable; one where companies manage with excellence their assets and intangible resources. There is still a long way to go, but we can already appreciate a clear interest within different business strata, from management committees and boards of directors to investors. It's no wonder; once again the Global Intangible Financial Tracker's results point out that around 50% of business value in organizations belongs to intangible assets, reaching up to 80-85% in specific sectors.

Organizations have become aware of the importance of managing these resources due to the fact that, among other things, they need to be part of a society that is increasingly demanding and concerned about its future. Citizens and consumers expect businesses to hold an active part in the world they live in and to make a positive impact in it.

Companies are social actors that play an essential role in society, and that role they play must reflect itself in their actions. But all this can only be achieved if intangible assets are efficiently managed. Along these lines, Larry Fink (CEO, BlackRock) launched his petition in early 2018, when he appealed to investors and business leaders to focus on encouraging and implementing these resources. Organizations that don't understand this change will inevitably be left behind.

Year after year we see an increase in the presence of intangible resources as opposed to tangibles when we talk of an organization's total value, as this study clearly indicates. And research shows that, for executive directors, reputation and brand protection are the main risks or factors that affect company growth. Thus, investing in intangibles is a safe investment in the future. Specifically, reputation and brands are the most relevant resources and non-financial assents due to their direct impact on a business; today we have studies backed by empirical evidence that prove that improving reputation by five points increases purchases by 6,4%.

Without a doubt, an organization's value will depend on its support of adequate management of their intangible resources. And this paradigm shift is especially relevant when we speak about the future of reporting. It's precisely data that gives us the validity and justification to undertake actions related to reputation, brands or corporate social responsibility, to make better informed decisions and to prove their impact in a business. Comprehensive, cross-wise and holistic perspectives of a company must follow the same line and promote a reporting culture that shows the degree to which acquired commitments are fulfilled.

And here is where technology and data analysis will be a key element to generate dashboards where financial information coexists with non-financial one. Indicators such as brand strength, reputation, employee commitment, client satisfaction and tendency to recommend are destined to complement organizations' dashboards, mainly due to the fact that the protection and creation of future values lies within them.

Investors require this information, more holistic, comprehensive and integrated, but, above all, closer to the reality of any business project; it's also required by regulators, clients, employees and society as a whole. Thus, in the next few years we will see how reporting, recognizing the value of intangibles to business and the impact and positive contribution of organizations to the environments they operate within, become increasingly relevant.

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# **About Brand Finance.**

Brand Finance is the world's leading independent brand valuation and strategy consultancy.

Brand Finance was set up in 1996 with the aim of 'bridging the gap between marketing and finance'. For more than 20 years, we have helped companies and organisations of all types to connect their brands to the bottom line.

We pride ourselves on four key strengths:

- Independence
- Technical Credibility
- Transparency
- Expertise.

Brand Finance puts thousands of the world's biggest brands to the test every year, evaluating which are the strongest and most valuable.

For more information, please visit our website:

www.brandfinance.com



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## **Definitions.**

Intangible assets can be grouped into three broad categories — rights, relationships and intellectual property:

- **1 Rights.** Leases, distribution agreements, employment contracts, covenants, financing arrangements, supply contracts, licences, certifications, franchises.
- **2 Relationships.** Trained and assembled workforce, customer and distribution relationships.
- **3 Intellectual property.** Patents; copyrights; trademarks; proprietary technology (for example, formulas, recipes, specifications, formulations, training programmes, marketing strategies, artistic techniques,

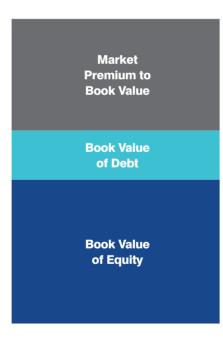
customer lists, demographic studies, product test results); business knowledge — such as suppliers' lead times, cost and pricing data, trade secrets and knowhow.

Internally generated intangibles cannot be disclosed on the balance sheet, but are often significant in value, and should be understood and managed appropriately. Under IFRS 3, only intangible assets that have been acquired can be separately disclosed on the acquiring company's consolidated balance sheet (disclosed intangible assets).

The following diagram illustrates how intangible value is made up of both disclosed and undisclosed value.

#### Breakdown of corporate assets, including intangibles

Enterprise Value



Undisclosed
Intangible
Assets

Disclosed
Intangible
Assets

Tangible
Assets

**'Undisclosed intangible assets'**, are often more valuable than the disclosed intangibles. The category includes 'internally generated goodwill', and it accounts for the difference between the fair market value of a business and the value of its identifiable tangible and intangible assets.

Although not an intangible asset in a strict sense — that is, a controlled 'resource' expected to provide future

economic benefits (see below) — this residual goodwill value is treated as an intangible asset in a business combination on the acquiring company's balance sheet. Current accounting practice does not allow for internally generated intangible assets to be disclosed on a balance sheet. Under current IFRS only the value of acquired intangible assets can be recognised.

In accounting terms, an asset is defined as a resource that is controlled by the entity in question and which is expected to provide future economic benefits to it. The International Accounting Standards Board's definition of an intangible asset requires it to be non-monetary, without physical substance and 'identifiable'.

In order to be 'identifiable' it must either be separable (capable of being separated from the entity and sold, transferred or licensed) or it must arise from contractual or legal rights (irrespective of whether those rights are themselves 'separable'). Therefore, intangible assets that may be recognised on a balance sheet under IFRS are only a fraction of what are often considered to be 'intangible assets' in a broader sense.

However, the picture has improved since 2001, when IFRS 3 in Europe, and FAS 141 in the US, started to require companies to break down the value of the intangibles they acquire as a result of a takeover into

five different categories — including customer- and market related intangibles — rather than lumping them together under the catch-all term 'goodwill' as they had in the past. But because only acquired intangibles, and not those internally generated, can be recorded on the balance sheet, this results in a lopsided view of a company's value. What is more, the value of those assets can only stay the same or be revised downwards in each subsequent year, thus failing to reflect the additional value that the new stewardship ought to be creating.

Clearly, therefore, whatever the requirements of accounting standards, companies should regularly measure all their tangible and intangible assets (including internally-generated intangibles such as brands and patents) and liabilities, not just those that have to be reported on the balance sheet. And the higher the proportion of 'undisclosed value' on balance sheets, the more critical that robust valuation becomes.

#### Categories of intangible asset under IFRS 3

| Marketing-Related   | Customer-Related   | Contract-Based   | Technology-Based  | Artistic-Related   |
|---|--|--|---|--|
| Intangible Assets   | Intangible Assets  | Intangible Assets  | Intangible Assets   | Intangible Assets  |
| Trademarks, tradenames  Service marks, collective marks, certification marks  Trade dress (unique colour, shape, or package design)  Newspapers  Internet Domain Names  Mastheads  Non-competition agreements | Customer lists  Order or production backlog  Customer contracts & related customer relationships  Non-contractual customer relationships | Licensing, royalty, standstill agreements  Advertising, construction, management, service or supply contracts  Lease agreements  Construction permits  Permits  Franchise agreements  Operating and broadcast rights  Use rights such as drilling, water, air, mineral, timber cutting & route authorities  Servicing contracts such as mortgage servicing contracts  Employment contracts | Patented technology  Computer software and mask works  Unpatented technology  Databases  Trade secrets, such as secret formulas, processes, recipes | Plays, operas and ballets  Books, magazines, newspapers and other literary works  Musical works such as compositions, song lyrics and advertising jingles  Pictures and photographs  Video and audiovisual material, including films, music, videos etc. |

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# Reporting: Background.

In 2001, FAS 141 introduced the requirement for US companies to capitalize acquired intangibles following an acquisition. Intangible assets should be separately disclosed on the acquiring company's consolidated balance sheet. In 2004, IFRS 3 introduced the same requirement as a global standard.

In 2005, all listed companies in EU member countries adopted IFRS.

At present, approximately 90 nations have fully conformed with IFRS, with further 30 countries and reporting jurisdictions either permitting or requiring IFRS compliance for domestically listed companies.

The adoption of IFRS accounting standards means that the value of disclosed intangible assets is likely to increase in the future. Strong advocates of 'fair value reporting' believe that the requirements should go further and that all of a company's tangible and intangible assets and liabilities should regularly be measured at fair value and reported on the balance sheet, including internally generated intangibles such as brands and patents, so long as valuation methods and corporate governance are sufficiently rigorous.

Some go as far as to suggest that 'internally generated goodwill' should be reported on the balance sheet at fair value, meaning that management would effectively be required to report its own estimate of the value of the business at each year end together with supporting assumptions.

However, the current rules state that internally generated intangible assets generally should not be recognised on the balance sheet. Under IFRS, certain intangible assets should be recognised, but only if they are in the "development" (as opposed to "research") phase, with conditions on, for example, technical feasibility and the intention and ability to complete and use the asset. "Internally generated goodwill", as well as internally generated "brands, mastheads, publishing titles, customer lists and items similar in substance", may not be recognised.

# IFRS: Allocating the cost of a business combination

At the date of acquisition, an acquirer must measure the cost of the business combination by recognising the target's identifiable assets (tangible and intangible), liabilities and contingent liabilities at their fair value. Any difference between the total of the net assets acquired and the cost of acquisition is treated as goodwill (or gain on a bargain purchase).

Goodwill: After initial recognition of goodwill, IFRS 3 requires that goodwill be recorded at cost less accumulated impairment charges. Whereas previously (under IAS 22) goodwill was amortised over its useful economic life (presumed not to exceed 20 years), it is now subject to impairment testing at least once a year. Amortisation is no longer permitted.

Gain on a bargain purchase: Gain on a bargain purchase arises where the purchase price is determined to be less than the fair value of the net assets acquired. It must be recognised immediately as a profit in the profit and loss account. However, before concluding that "negative goodwill" has arisen, IFRS 3 says that an acquirer should "reassess" the identification and measurement of the acquired identifiable assets and liabilities.

#### **Impairment of assets**

A revised IAS 36 'Impairment of Assets' was issued at the same time as IFRS 3, on 31 March 2004. Previously an impairment test was only required if a 'triggering event' indicated that impairment might have occurred.

Under the revised rules, an annual impairment test is still required for certain assets, namely:

- Goodwill
- Intangible assets with an indefinite useful economic life and intangible assets not yet available for use.

Brands are one major class of intangible assets that are often considered to have indefinite useful economic lives. Where acquired brands are recognised on the balance sheet post-acquisition, it is important to establish a robust and supportable valuation model using best practice valuation techniques that can be consistently applied at each annual impairment review.

The revised IAS 36 also introduces new disclosure requirements, the principal one being the disclosure of the key assumptions used in the calculation. Increased disclosure is required where a reasonably possible change in a key assumption would result in actual impairment.

#### **Impact on managers and investors**

#### a) Management

Perhaps the most important impact of new reporting standards has been on management accountability. Greater transparency, rigorous impairment testing and additional disclosure should mean more scrutiny both internally and externally. The requirement for the acquiring company to attempt to explain at least a part of what was previously lumped into "goodwill" should help analysts to analyse deals more closely and gauge whether management have paid a sensible price.

The new standards are also having a significant impact on the way companies plan their acquisitions. When considering an acquisition, a detailed analysis of all the target company's potential assets and liabilities is recommended to assess the impact on the consolidated group balance sheet and P&L post-acquisition.

Companies need to pay close attention to the likely classification and useful economic lives of the identifiable intangible assets in the target company's business. This will have a direct impact on the future earnings of the acquiring group. In addition to amortisation charges for intangible assets with definite useful economic lives, impairment tests on assets with indefinite useful economic lives may lead to one-off impairment charges, particularly if the acquired business falls short of expectations post-acquisition.

The requirement for separate balance sheet recognition of intangible assets, together with impairment testing of those assets and also goodwill, is expected to



result in an increase in the involvement of independent specialist valuers to assist with valuations and on appropriate disclosure.

#### b) Investors

The requirement for companies to attempt to identify what intangible assets they are acquiring as part of a corporate transaction may provide evidence as to whether a group has paid too much in a deal. Subsequent impairment tests may also shed light on whether the price paid was a good one for the acquiring company's shareholders.

Regular impairment testing is likely to result in a greater volatility in financial results. Significant one-off impairment charges may indicate that a company has overpaid for an acquisition and have the potential to damage the credibility of management in the eyes of the investor community.

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# Maximise the value of your intangibles, minimise your tax compliance risk.



**Alex Haigh**Director, Brand Finance

By highlighting over US\$50 trillion worth of tax base assets at stake, Brand Finance's Global Intangible Finance Tracker (GIFT<sup>TM</sup>) 2018 exposes the need for tax payers and tax authorities to pay attention to where valuable intangible assets are owned and what can be charged for their use.

#### **Accounting for intangible value**

At Brand Finance, we started to study the value of companies' intangible assets in 2001 principally to show the glaring inaccuracies of financial statements globally due to the underreporting of intangible asset values. Although already a key issue when we began, the impact of our findings on tax and transfer pricing policy was not as clear nor deliberate then as it is now.

The study's impact on tax planning has become particularly prescient in light of newly coordinated international action on the prevention of erosion of countries' corporate tax incomes – the OECD's Base Erosion and Profit Shifting (BEPS) initiative.

By highlighting the enormous value of intangible assets and the lack of due diligence performed in accounting for them, we have come to use the GIFT<sup>TM</sup> 2018 study to expose the need to identify where value is created and exploited internally, by large corporates, and taxed, by authorities.

The total value of assets on global stock markets at the end of the financial year surpassed US\$100 trillion for the first time in history to reach US\$109.3 trillion. At the start of our study 17 years ago, that figure was only US\$30.9 trillion. The value has grown 254% over the 17 years, an equivalent growth rate of 8.22% per year.

Of the US\$30.9 trillion in 2001, US\$14.5 trillion was disclosed on companies' balance sheets and US\$16.4 trillion was not. Today, US\$65.6 trillion is internally understood and disclosed on balance sheets while US\$43.7 trillion is not.

Between 2001 and 2007, the proportion of value explained by balance sheets was on average 50% of total value, with 50% of value unexplained and undisclosed. Following the financial crisis, there was greater clarity on the value of businesses since the "new normal" proportion of undisclosed value became 37% - excluding 2008 which most would consider an extraordinary year.

One would think that this reduction in undisclosed value was a sign that reporting of business assets was improving and to some extent they would be right: the proportion of disclosed intangible assets and goodwill increased to around 20% of total value in 2011 and unexplained value was only 29% at that point.

However, since 2011 we have seen a downward trend and now explained value is at a nadir – disclosed intangible assets (including goodwill) make up only 12% of global enterprise value, a number almost equivalent to the 11% we saw all the way back in 2001.

While the quality of financial reporting does not necessarily mean poor quality of internal reporting and management accounting, a lack of external oversight often correlates with a lack of internal understanding. Where there is a lack of understanding of what is owned and operated by the company, management's ability to direct investment, price functions, and enhance those assets' values is obviously made more difficult.

# Managing and pricing the use of intangibles internally

'Transfer pricing' refers to the practice of pricing transactions between companies within a commonly controlled group. The concept is originally a management accounting one, used by companies to ensure that individual divisions profit maximise in the absence of a true market for what they buy and sell – this true market not existing since the common control gives incentives to buy internally.

Most everyday transactions, such as selling raw materials in a production process, are obvious and simple as there is an easily recordable transaction and, generally, a market price comparable. However, there are many transactions which are more complicated to recognise, understand and account for. Charging for the use of brands and intellectual property (IP) is one of those types of transactions.

Brands and other IP are assets that one party owns and another uses. In any third party transaction, the user would usually be expected to pay the owner for the privilege of use. Internally, the use by one group company of IP owned by another group company would

therefore be a transaction just like any other and is usually covered by a licence agreement.

# How does this relate to brand and intellectual property management?

A profit-seeking brand owner and its profit-seeking brand user counterpart would both aim to maximise the return they receive from the deal partly through forceful negotiation but also through the professional management of processes for developing, protecting and exploiting the value inherent in its brand.

Virgin, which owns its brand in a subsidiary called *Virgin Enterprises*, is a particularly clear case in point. Virgin does not own majority stakes in most of its companies. Instead, it operates a minority stake and brand licence model where management identify opportunities that will maximise royalties to the brand-owning company while also developing and enhancing the brand to promote its other enterprises. It expects its licensees to invest in substantial amounts of advertising, PR and other types of promotion but keeps strategic control of the brand's positioning and direction firmly under the remit of Virgin Enterprises.

The company audits any brand-related investments or partnerships, prevents improper use by licensees or counterfeiting by unscrupulous third parties, and manages its valuable intellectual property much like one would manage a real estate portfolio. By doing that, Virgin has become one of the world's most recognised brands and one of the most valuable licencing operations in the world.

Surprisingly, this sort of commercial management is often not present within group companies despite the fact that brands are on average between 10% and 20% of a company's enterprise value and intangible assets generally are between 40% and 50% collectively.

As a result, companies are often unable to say where their brands are owned or by whom; which is both complicated by new BEPS rules on "economic" versus "legal" ownership requirements and essential for managing a complicated portfolio of trademark registrations across a global business.

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This lack of understanding means that subsidiaries are often unclear on how they can use their brands. This can be as basic a point as what colours should be used for a business card or as important a question as which brand should be used on the launch of a new business.

This frequently means that a company's portfolio of brands becomes confused, slowing down business and reducing the efficacy of attempts to focus around a business strategy or create corporate change.

Most people now accept that brands hold significant value, principally as a result of the demand that they generate through customers' perceptions of their quality and reputation. Where brands or brand portfolios are managed in a confusing way, the ability of those perceptions to drive business performance is hindered.

As a simple example of this, consider what would happen to milk sales in a supermarket if the "Dairy" sign was on the wrong side of the shop floor.

It could be argued that formally granting a licence between different parts of the same company – where ultimately the same set of shareholders will benefit from the licence exploitation – is bureaucratic and unnecessary. However, every part of an organisation should be expected to contribute as effectively as possible to the overall results of the group. Formalising the relationship between those who own the brand and those who use it acts as an incentive to maximise the use of the licensed brand rights and to ensure that the rights and obligations on both sides are more fully understood and adhered to.

# What relevance does this have for tax?

As far back as 2001, the UN noticed the relevance and importance of allocating appropriate value to activities within as well as between multinationals. In that year, the Ad Hoc Group of Experts on International Cooperation in Tax Matters identified that over 60% of international trade was carried out within multinationals, so an actual majority of trade was seen to be between connected parties.

The transfer pricing of goods, services and assets is therefore a hugely important concept for understanding what value is generated where and therefore how it should be taxed.

On one side, transfer pricing is important because it can be used by corporations to minimise or avoid their taxable income in high tax countries thereby reducing the tax base of countries already struggling with tax income reduced by the so-called Great Recession.

There are many examples of companies using corporate vehicles or opaque accounting practices seemingly for the sole purpose of reducing tax. One need only look at the recent example of the IRS' objection to Amazon's sale of its EU trademark rights to a Luxembourg subsidiary to see tax authorities' fear of this happening.

On the other side, it is important because transfer pricing can expose multinationals to significant amounts of double tax. For example, in 2006, GSK was forced to pay US\$3.1 billion in double taxation of its income when arbitration between US and UK tax authorities could not agree on the amount of value created in building the Zantac and other brands in each of their representative countries.

The key challenge when it comes to intangibles stems from the underlying "separate and independent" principle adopted by Article 7 and Article 9 of the OECD's Model Tax Convention – the model for OECD country bilateral tax treaties. These articles essentially state that profits accruing to a branch or company within a group should be equivalent to what you would expect to accrue to an independent party.

This principle has also been incorporated into the UN's

Model Tax Convention and the default tax conventions of many countries, such as the US. Collectively, these model conventions act as the basis for the clear majority of bilateral tax treaties meaning almost all countries tax inter-company income under this principle.

This means that the functions performed, assets owned and risks borne by group companies should command payments commensurate to what one would expect a third party to receive in an arm's length transaction.

Herein lies the challenge: how does a tax manager establish where value would be created or charged for in an arm's length transaction between independent parties when the parties have not been acting independently or at arm's length for many years?

# So how do you set the correct rate of return for the use of a brand?

Action point 8 of the OECD's BEPS initiative relates to intangibles. Intangibles are identified as one of the highest risk issues in transfer pricing as a result of: the lack of comparable transactions due to the unique nature of such assets; the difficulty of separating earnings specifically related to the IP from the earnings derived from the rest of the business; and the difficulty of determining ownership over their value.

#### Lack of comparables

The OECD specifies that taxpayers should use the "most appropriate" method for determining a transfer price. This can be any method provided it is agreed that it is the most appropriate. However, as a guide, it specifies five methods that can be used. In practice, only two can be used for the transfer pricing of intangibles which are:

- The "Comparable Uncontrolled Price" (CUP)
  method which determines a price based on
  similar agreements usually with an adjustment to
  make the fee seen in the market transaction more
  comparable and;
- The "Profit Split" method which determines the price by identifying the profits made from the transaction and attempting to split these profits according to each party's contribution.

Establishing comparability in transfer pricing is notoriously hard. Companies operate in slightly different geographies, sell slightly different products, at different times, and with brands that have different strengths in the minds of consumers. Databases for agreements are small, often out of date, skewed towards particular regions (in particular the US) and contain limited information on the underlying businesses to the transactions. This causes significant issues when using comparables to defend a transfer price. In the UK's landmark 1997 case, DSG retail v HMRC, every single one of the comparables put forward was rejected for various reasons that made them non-comparable. This inevitably means that most documentation will require a combination of the CUP method and the Profit Split method.

Some practitioners consider the Profit Split method to comprise solely of what is known as the "25% Rule" or "Rule of Thumb" which assumes that most IP licensing negotiations start with an assumption that a licensee will pay between 25% and 40% of their earnings before interest and tax on licenced IP. This 'rule' is widely discarded by tax courts due to incomparability and is therefore at best a useful corroborative check after a more fundamental review of the impact of the functions performed, assets owned and risks borne of each party to a transaction.

#### Determining the value of IP earnings

The Amazon.com, Inc. v. Commissioner 148 T.C. 8 (2017) case confirmed what most intangible asset valuers and transfer pricing consultants already knew: that the best method for determining the value that a brand owner should receive is a royalty on sales. Where a valuation is necessary, this precipitates a discounted cash flow method known as the "Royalty Relief" approach whereby the value of a brand is determined by the present value of hypothetical intercompany royalty payments.

The challenge with this method comes in determining that royalty. Since brands and other IP are unique both in strength and in application, it is generally necessary to at least make comparability adjustments to market rates. In the case of Amazon, it was necessary to review the business model since profits were kept deliberately low through reinvestment in order to drive higher revenues.

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The brand was therefore valuable for driving growth rather than for driving profitability and therefore it was determined that the final rate on sales must be lower than comparable market agreements since sales were higher and growing faster than in those transactions.

However, rather than making arbitrary changes to non-comparable "comparables", it is generally preferable – given the paucity of even vaguely comparable transactions – to assess the overall earnings from a brand from first principles. This is also beneficial from a commercial perspective since it can also be used as a tool to help management use their brands to maximise earnings and therefore their business' value.

In various cases we at Brand Finance have established value via the statistical analysis of brand attractiveness data to understand brands' impact on demand (and some costs), comparing what earnings would be under a "generic" brand and identifying the difference to estimate the yearly uplift. This is a challenging approach but it tends towards a more satisfactory approach when faced with strong, unique and large global brands.

A related challenge occurs here when considering the case of rebrands. Head office might decide to rebrand in order to reduce central costs or to create a strong global brand but in the short run this may actually destroy brand value in the rebranded company. The net effect may be neutral or negative and so many tax authorities will argue that a charge to a brand outside their country is unacceptable (since there is a perfectly good brand that could be used and would keep value in their own country).

The case of Suzuki Maruti in India highlights this issue. When Suzuki acquired Maruti it decided to cobrand under 'Suzuki Maruti' and charge for the use of the Suzuki brand. Indian authorities argued that the effect of this cobranding was that Suzuki was actually building its own value in India by associating itself with Maruti which was a strong brand. They argued that Suzuki should actually pay Maruti for the privilege – a reverse royalty.

The result ended with no royalty chargeable but the case highlights the fact that taxpayers need to be careful when charging royalties to rebranded subsidiaries either by waiting to charge or by charging a ratcheted royalty dependent on performance.

#### Determining ownership and the right to make a charge

The new BEPS rules – as well as the domestic rules now being adopted by many states – outline that while legal ownership is the starting point, the ability to charge a share of profit rate of return is more dependent on economic ownership of the asset. Legal ownership refers to contractual rights whereas economic ownership refers to rights created through Development, Enhancement, Maintenance, Protection, and Exploitation (DEMPE) functions that create value in the IP. The idea is that, since a group relationship is not exactly equivalent to a licensor-licensee one, group subsidiaries sometimes spend time and energy adding value to IP that a normal licensee would not be expected to do.

The OECD therefore believes that assets should be owned by (and therefore charged from) the parties that generate the value since, in the absence of tax considerations, that is where they would legally be registered and owned in many cases.

Often, tax authorities take this principle and assume it is equivalent to where money is being spent on marketing and advertising. However, when thinking again of Virgin, one can see why this argument does not hold up to scrutiny. As we have seen, Virgin is involved in strategic decision-making and legal protection but does not spend much itself. Despite this, it is still able to charge high royalties to a large number of parties.

Granted, there are examples of companies where central spend is high – if you consider the amounts spent by

Nike on global celebrity endorsements you will see how this can be the case – but typically licensors do not spend much and instead expect licensees to spend large amounts on promotion in their markets, albeit under strict rules.

Therefore, to determine where economic ownership lies, one must establish what constitutes 'strategic' spend and activities and what constitutes 'tactical' spend and activities, and split these. Preferably this will have been completed before an audit, because it is easier to state ownership is central when strategic spend or activities (that will often occur in subsidiaries) have already been compensated for.

Taking a different type of IP as an example: if a new type of Mars bar were created in Mars's UK subsidiary and the group decided it wanted to sell it around the world, it is easier for the centre to claim ownership and charge a share of profit from the centre when it has already paid the routine payments for the R&D facilities that created that product. Otherwise, the UK would be the party that owns it and can charge for it.

In the case of a rebranded enterprise, it should be made clear that as well as making the change in brand there should also be a scaling back of strategic activities to the centre. In practice, this is generally easy since a primary reason of rebranding is often to reduce headcount and cost in marketing and brand functions.

#### Conclusion

The management of brand and other IP is often ad hoc at best in large, complicated multinational enterprises. This is very understandable at least partly because of four core issues: investors do not demand scrutiny since they do not see the assets' value on balance sheets; management knowledge of how brands and other IP impact businesses mean information is often limited; brand managers have historically lacked the knowledge to explain the importance of the assets they manage; and tax authorities did not care much until very recently.

If the Brand Finance GIFTTM study highlights the issue of companies not understanding their IP well, the new BEPS rules highlight its importance. Tax authorities are

getting more and more aggressive coming after big companies they deem to be exploiting the principles of transfer pricing to avoid tax. The transfer pricing of companies' brands is one of their biggest areas of contention.

This highlights the need for companies to confront the complicated issue of charging for brands. The steps to confront it are as follows:

- Identify where all intellectual property is legally owned and registered and identify where new IP is likely to be developed.
- 2. Identify where each piece of intellectual property is being used.
- Review marketing and IP related functions performed, assets owned and risks borne by each group company to establish where "DEMPE" activities are being performed.
- Analyse customer and other research to determine the likely impact of the brand's reputation on demand drivers and cost pressures, and translate this into an earnings figure.
- Review comparable licencing transactions and licencing best practice in your industry in order to identify what are common DEMPE obligations for licensor and licensee and to find comparable rates.
- 6. Decide on the appropriate royalty rate and determine whether any compensation should be paid for value-adding activities by brand users that would not usually be expected of a licensee.
- 7. Repeat the process for all other IP, markets and group companies and document in country by country reports.

Although a large task, with the prospect of large audits on the horizon for many companies, the diligence of this approach should avoid the threat of double tax that can rise up in to the billions. While financial accountants still avoid thinking about the huge value of IP that companies control, it is clear managers and tax planners cannot.

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# Risky Business: The Accounting Treatment of Goodwill.



**Annabel Brown**Senior Analyst,
Brand Finance

When one company is bought by another, a fair value exercise (FVE) must take place to allocate the consideration paid to net tangible assets and identifiable intangible assets. Any remaining unallocated value is classified as goodwill. Since 2001, the IASB has adopted the policy that goodwill identified on acquisition of a company will subsequently be accounted for through impairments and not annual amortisation. This policy contends that goodwill does not necessarily decrease in value as time goes on.

However, it can also allow persistent high levels of goodwill on company balance sheets, the reported value of which is dependent on management judgment. Where neither managers nor auditors feel an impairment is due, no impairment charge is taken against the carrying amount of the goodwill asset. In extreme cases, persistent non-impairment can inflate the balance sheet, leaving investors, employees and entire economies vulnerable.

#### **Real impairment vs reality**

The Brand Finance GIFT<sup>TM</sup> study compares this distribution of asset value. We identify the value of listed companies' tangible net assets, disclosed goodwill and other disclosed intangibles (such as brand value) present on their balance sheets. The sum of these three disclosed items is then compared with the companies' market enterprise values. The balancing figure is allocated to undisclosed intangible value.

This undisclosed value is the excess of market value over book value created through changing share price. Share prices fluctuate due to changing expectations of future earnings, which are driven by signals on future performance, such as innovative technology, popularity of the brand, and announcements of new contractual agreements, which are examples defined under IAS 38 as intangible assets. When undisclosed intangible value is negative, book value exceeds market value, indicating real economic impairment.

The Brand Finance GIFT™ 2018 study found 1,215 publicly traded companies domiciled in countries which use IFRS and had negative undisclosed intangible value for both financial years 2017 and 2016. In our view, this indicates the need for impairment of goodwill. However, 70% of these companies had either no reduction or an increase in disclosed goodwill over these two years, which can be treated as a proxy for non-impairment.

One would expect that companies with a more significant value of goodwill, if exercising prudence, would be more likely to impair when economic goodwill impairment is indicated. We tested this hypothesis. Surprisingly, we found very little relation between the ratio of goodwill to market enterprise value and propensity to impair. 69% of companies with the ratio at 10% or less did not impair, compared with 70% of companies with the ratio at more than 100%.

When a firm has been acquiring aggressively, and thus has accrued significant amounts of goodwill, it would not be unusual to have high levels of goodwill relative to market enterprise value. However, if those acquisitions are strategically weak, and the benefits of expected synergies are not realised, then goodwill would be a high proportion of market

value over a longer term. This would indicate an inflated balance sheet as the expected earnings that determine goodwill do not prove true in time.

Goodwill recognised in a business combination is an asset representing the future economic benefits arising from other assets acquired in a business combination that are not individually identified and separately recognised. The future economic benefit may result from synergy between the identifiable assets acquired or from assets that, individually, do not qualify for recognition in the financial statements.

**IAS 38** 

When this goodwill is not impaired, the balance sheet and retained earnings are likely overstated, reducing the reliability of financial statements. Even if the initial recognition of goodwill is accurate, subsequent non-impairment can be misleading and harmful to investors. Management are incentivised not to impair; it reflects badly on the incumbent CEO as it suggests they may have overpaid for an acquisition. Often it is new executives that initiate impairment; for example on the day that GE introduced Larry Culp as CEO, the company announced a US\$23 billion goodwill impairment.

# The construction mammoth and the elephant in the balance sheet

Last January, news headlines resounded with the announcement of the UK's biggest trading liquidation to date. Carillion's bankruptcy destroyed jobs and further destabilised confidence in the UK economy. But the downfall was not a complete surprise to the hedge-funds that made £200 million by short-selling shares in Carillion. A review of Carillion's performance in the Brand Finance GIFT™ 2018 study also indicates that downfall was more inevitable than shocking. A closer examination of historic disclosure of goodwill illuminates a worrying indicator that Carillion's collapse may have been years in the making. What remains in



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the construction mammoth's wake is a stark cautionary tale about heavy M&A and the improper accounting of goodwill.

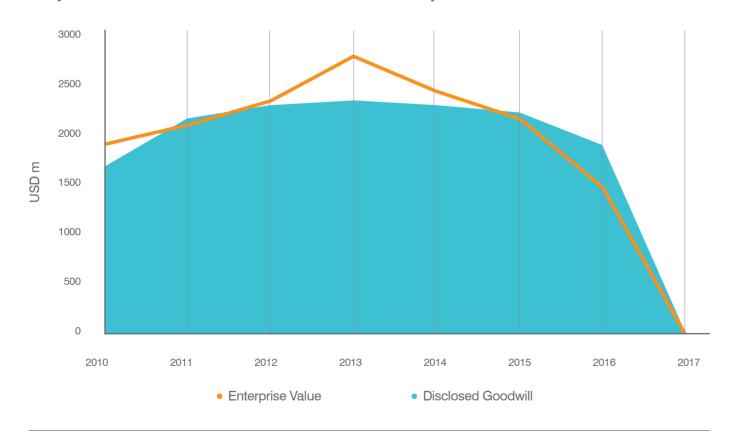
Many critics cite Carillion's subsidiary Eaga as the main problematic treatment of group acquired goodwill. While it was substantial at £329 million, Eaga contributed to just 19% of Carillion's disclosed goodwill. Since 2011, disclosed goodwill accounted for at least 84% of Carillion's market enterprise value, and in the years 2012, 2016, and 2017, book value of goodwill even exceeded the total market worth of the company (see Graph 1). Consider that the average share of market enterprise value disclosed as goodwill for the global set of trading companies between 2011-2017 was a mere 6% and join the critics of KPMG that wonder why goodwill was not impaired.

KPMG conducted a sensitivity analysis on the earnings forecasts and valuation assumptions for the relevant CGUs and concluded that no impairment was necessary. However, a sensitivity analysis is only

reliable when the forecasts are approximately correct. Eaga, which was rebranded to Carillion Energy Services ("CES"), had suffered a decrease in revenue of 95% in the five years after acquisition. This decrease in performance should have indicated that future earnings may be lower than originally expected, which would imply goodwill should be impaired. However, in this five-year period, no impairment was charged against the goodwill that arose on acquisition.

To be fit for purpose, a balance sheet must present a true and fair view of the reporting entity's financial position. This relies heavily on auditors' diligence surrounding the figures provided by management. This diligence is often lacking. In the case of Carillion, despite a weakened financial outlook, no impairment charges were elicited by management or the auditors. As goodwill impairment is an expense against retained earnings, it can eliminate the reserves from which dividends are paid. Because of non-impairment, Carillion was able to pay out a record amount of £78 million in dividends in 2016.

**Graph 1. Carillion Historic Goodwill vs. Market Enterprise Value** 





#### Prudence. Prudence. Prudence.

If, unlike so far assumed in this article, goodwill on acquisition is inaccurate, then either:

- the high value of goodwill demonstrates that management overpaid for the target company, or
- management did not overpay, but the allocation of intangible value is inaccurate, and the value of other specific intangible assets acquired, such as brand, are underestimated.

Under both scenarios, it would be understandable for the carrying amount of goodwill to then be improperly impaired, given that CEOs don't like to admit to having overpaid for an acquisition. However, both scenarios could be avoided if specific intangible assets are more accurately valued.

Goodwill is neither transparent nor understandable. Other intangibles, such as brands and software are easier for investors to interpret. For example, a major scandal would signal that brand value should be impaired. Goodwill on the other hand is more obscure, making impairment less obvious.

On the acquisition of Eaga, Carillion rebranded it to CES. Had the FVE accounted for the brand value of Eaga, such a rebrand would have likely resulted in the impairment of this brand value immediately. However, the only intangible asset separated in the FVE was customer contracts and lists, which were recognised at £29.4 million, and amortised completely over 4 years. This value is just 9% of what was recognised as goodwill.

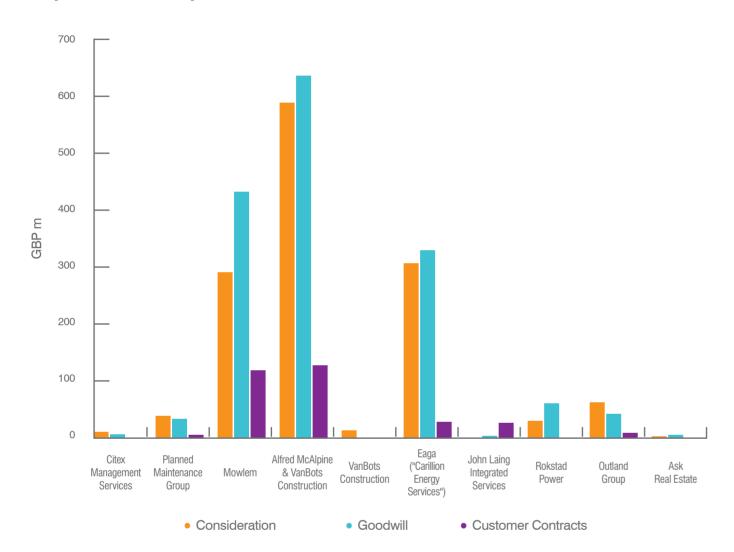
#### **Brands can live forever**

Managers are incentivised to allocate as much intangible value to goodwill as possible, to minimise amortisation expenses. Granted, the allocation of purchase price to specific assets instead of goodwill can sometimes result in lower earnings due to amortisation charges. But if the useful economic life is determined by expert independent parties, this amortisation should be more accurate of economic amortisation and impairment than under the current model.

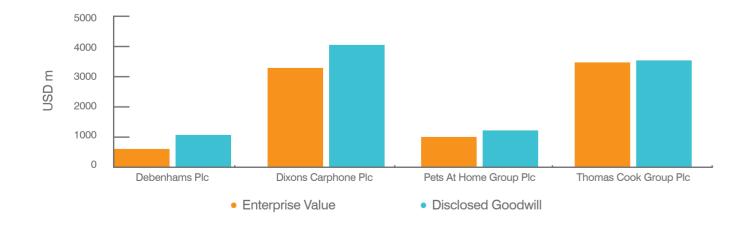
In addition, in some cases, intangible assets can have an indefinite useful economic life; the implications of which are three-fold. Firstly, the original fair value attributed to the intangible asset will be higher since their longer life will make them more valuable. Secondly, there will be no amortisation charges required against these assets

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**Graph 2. Carillion Acquisition FVE Breakdown** 



**Graph 3. Enterprise Value vs. Disclosed Goodwill 2017** 



as with goodwill, only impairment testing is required.
 Thirdly, goodwill on acquisition will be suppressed.
 Unlike with goodwill, specific intangible assets, such as brands, are more transparent – they are implicitly more understandable. Therefore, an auditor is held more accountable to external indicators of impairment.

#### Fair value to all

One could argue that reallocating goodwill to other intangible assets is too costly to justify and serves no use since impairment is still not charged. However, an accurate understanding of specific intangibles is useful, relevant and increasingly material. To ensure that designation of useful economic life and fair market value are accurate, an objective and transparent valuation is required. In 2016, Brand Finance partnered with the Institute of Practitioners in Advertising (IPA) to survey equity analyst and CFO opinions on this matter. We found that the majority (58% of analysts and 46% of CFOs) think that independent third-party intangible asset valuers should prepare the valuations of intangible assets included in financial accounts. While this would increase the reliability of intangible assets, there would likely remain some goodwill.

If goodwill is accurate – only reflective of excess earnings due to synergies, and these future earnings are achieved – then as earnings grow post-acquisition, a constant level of goodwill should represent a decreasing proportion of business value.

As demonstrated in Graph 1, this was not the case with Carillion. It is reasonable to assume that the original recognition of goodwill was not just representative of synergies. A glance at the FVE details of Carillion's most recent acquisitions in Graph 2 demonstrates the exaggerated amount allocated to goodwill.

Carillion managers can be forgiven for overpaying for target companies, as the future is unpredictable. However, in subsequent years, where financial performance did not meet with initial expectations, there should have been impairment to goodwill. The current accounting policy allows goodwill impairment tests to be subjective, and this case study shows that a lack of clarity in the reporting of a business's assets can obscure the true performance of that business, exposing investors to risk that need not be inevitable.

#### Who's next?

Of course, Carillion is not alone. Graph 3 shows a handful of UK-based companies with goodwill exceeding market enterprise value. Restructuring at Debenhams, 92 planned store closures at Dixons, upward pressure on payroll costs at Pets at Home, and the recent 25% plunge in shares at Thomas Cook; 2018 has been a tough year so far for these companies. As evidenced by disproportionately high levels of goodwill booked for 2017, management expected higher earnings than the market did.

In fact, investors do not seem convinced that high levels of goodwill suggest higher future earnings. On the contrary, there is a vast body of research which shows that where goodwill announced following FVE is higher than expected, market participants react negatively. This implies two things. Firstly, that investors are not fooled by high levels of goodwill – they recognise it may mean management overpaid for an acquisition. Secondly, it demonstrates that information provided through FVE disclosure is used by investors. In line with the FASB objectives, if financial information is used, it must be useful. To be useful, these FVE disclosures must be accurate.

There are many valuable learnings from the collapse of Carillion. We see the improper accounting treatment of intangible assets as the most critical. In an increasingly intangible global economy, it is vital that the financial reporting standards keep up with the tide. Ensuring that post-acquisition FVE information is based on objective, accurate valuations will help with corporate transparency, reduce risk, and boost investor confidence. Assuming this will result in lower levels of disclosed goodwill, this will help to reduce the impact of management reluctance to impair. Logically, it would make sense for intangible valuations to be conducted preacquisition too, to assist with corporate governance, reduce the occurrence of reckless M&A, and lower the risk of subsequent corporate collapse. In an age where confidence in audit quality is waning, higher standards for FVE accounting are vital.

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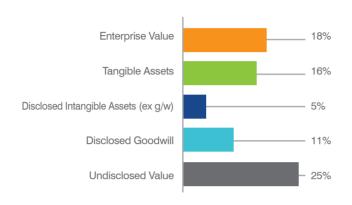
#### **Global trends**

Global enterprise value, understood as the total worth of the world's publicly traded companies, has surpassed US\$100 trillion for the first time in history and stood at US\$109.3 trillion at the beginning of the current financial year.

Looking behind that number, the importance and prevalence of intangible assets grows at a significant pace as the global economy continues to embrace the digital revolution. Indeed, it is now recognised that intangibles have become one of the growth engines of the economy, a trend that looks set to gather momentum for some years. The Brand Finance Global Intangible Finance Tracker (GIFT™) has found that 52% of the overall enterprise value of all publicly traded companies worldwide resides in intangibles, whose total worth has reached US\$57.3 trillion – more than ever before.

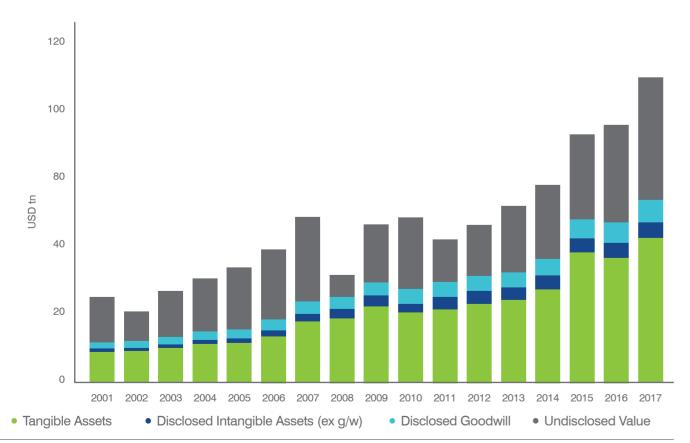
Worryingly, however, the vast majority of those intangible assets remain unaccounted for on balance

#### **Global Enterprise Value Change (%) 2016-2017**

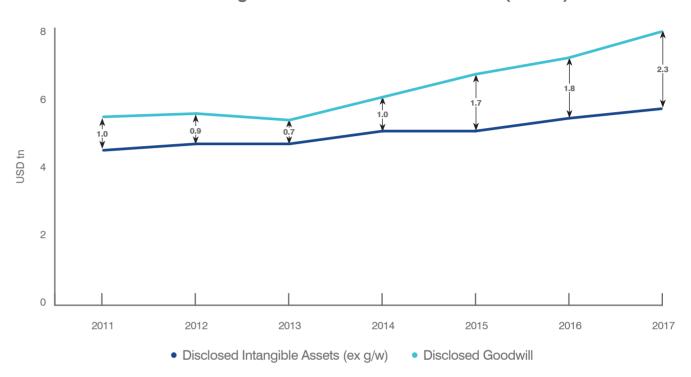


sheets. Brand Finance GIFT™ has valued the world's undisclosed intangibles at US\$43.7 trillion, which constitutes 40% of global enterprise value. Undisclosed intangibles are the only asset category to have increased their share of global enterprise value this year, reaching the highest proportion since the time of the global financial crisis. Their overall worth has grown by

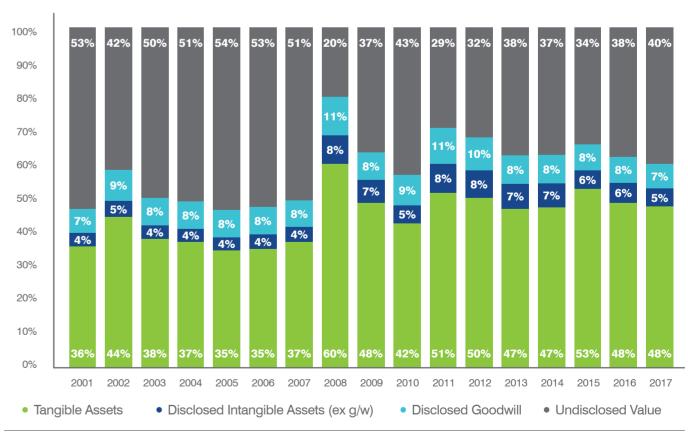
#### Global Enterprise Value - Absolute Breakdown (USD tn)



#### Goodwill and Disclosed Intangible Assets - Absolute Difference (USD tn) 2011-2017



#### Global Enterprise Value - Relative Breakdown (%)



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25% year on year - five times faster than the value of disclosed intangible assets (up 5%) and outpacing the overall global enterprise value growth (up 18%).

The past year has also seen a decline in the granularity of intangible asset reporting as the gap between the so-called goodwill and disclosed intangible assets – accounted for in detail on balance sheets – has widened dramatically.

Companies now list US\$2.3 trillion more goodwill than disclosed intangible assets, compared to US\$1.8 trillion last year and only US\$1.0 trillion at the beginning of the decade.

#### **Sector trends**

Sectors possessing high levels of patents, technology and marketing intellectual property are invariably those with a larger proportion of intangible assets within their overall enterprise value.

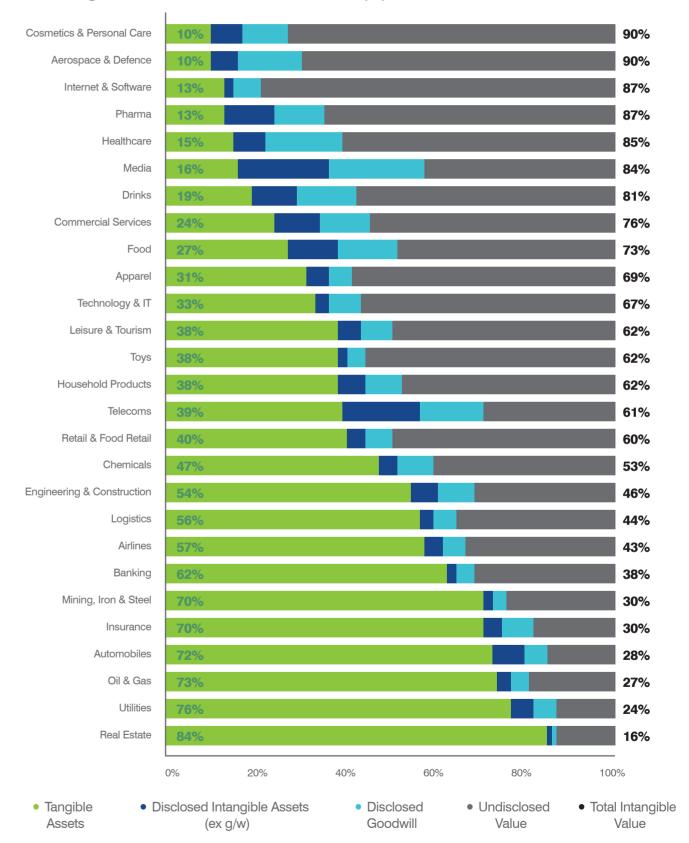
Therefore, industries such as Aerospace & Defence, Cosmetics & Personal Care, Internet & Software, Pharma, and Media are heavily reliant on their ability to innovate, develop patents and leverage technology.

The Cosmetics & Personal Care sector, which is dependent to a large degree on brand recognition and the need to continually roll-out new marketing and advertising, has the highest percentage of its enterprise value attributable to intangibles – 90.0%. Naturally, the leading companies within the sector have high levels of intangibles, notably Procter & Gamble (97%), Unilever (96%) and L'Oréal (88%).

The Aerospace & Defence sector is not far behind on the intangible spectrum (89.5%). Spearheaded by companies like Boeing, United Technologies, Safran, and Lockheed Martin, this industry group is technology and patent-heavy, even though airplanes and rockets are intuitively associated with the tangible realm.

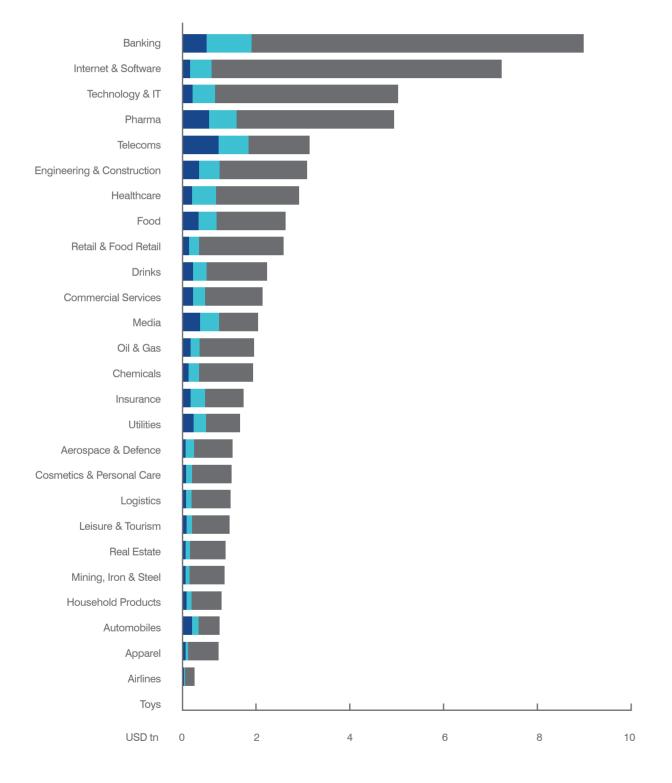
While these sectors include high levels of intangibles, in absolute terms, the value-rich banking sector has the greatest number, US\$8.5 trillion. That said, intangibles account for just 38.3% of the sector's combined enterprise value.

#### Most Intangible Sectors - Relative Breakdown (%)



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#### **Most Intangible Sectors - Absolute Breakdown (USD tn)**

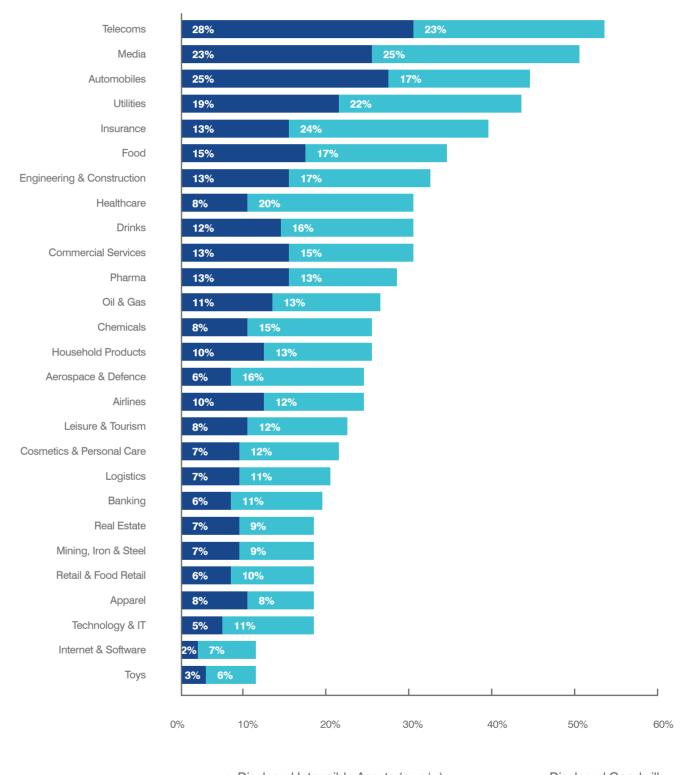


Disclosed Intangible Assets (ex g/w)

Disclosed Goodwill

• Undisclosed Intangible Value

# Most Intangible Sectors - Best Disclosure Disclosed Intangibles (including g/w) / Total Intangible Value (%)

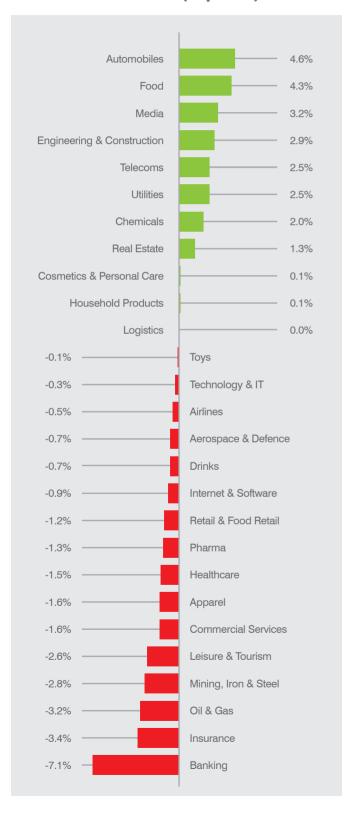


• Disclosed Intangible Assets (ex g/w)

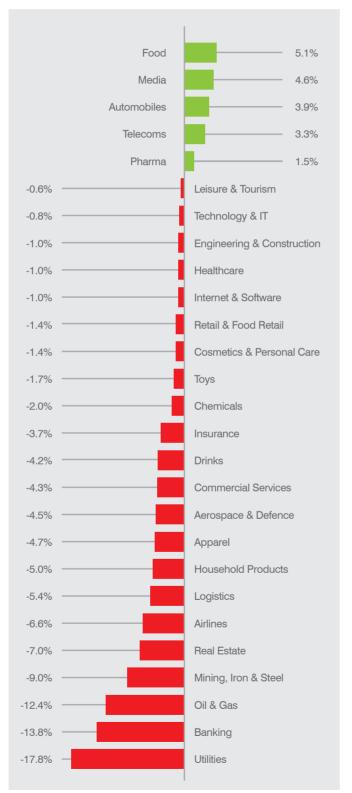
Disclosed Goodwill

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## Most Intangible Sectors - Change in Disclosure 2016-2017 (% points)



## Most Intangible Sectors - Change in Disclosure 2013-2017 (% points)



The story is very different for Internet & Software, which has a high percentage of enterprise value attributable to intangibles (86.8%) and also the second highest absolute total at US\$6.8 trillion. Internet & Software, however, is among those sectors which account for a very low value of their intangibles, reporting just 9.1% of its overall total intangible value in goodwill and disclosed assets.

By contrast, Telecoms is the best group for disclosure, standing at 51.8% of the total intangible value. It is no surprise that AT&T, the leading company from the sector, discloses 70.6% of total intangibles, amounting to US\$220 billion – more than any other corporation in the world. Other telecommunications giants, Verizon, Softbank, and Deutsche Telekom all figure highly among the top 20 companies worldwide in terms of intangible reporting.

Generally, the sectors with the highest proportion or worth of intangibles in enterprise value are not the best at disclosing the detail. As mentioned, Internet & Software lags behind most industries, while Cosmetics & Personal Care (18.8%), Aerospace & Defence (22.5%), and Banking (17.2%) are all below the all sector average of 25.3%. At the top end, the industries leading the way along with Telecoms are Media (48.4%), Automobiles (42.7%), and Utilities (41.3%).

Of some concern is that over the past year, less than half of the 27 sectors under review (11), have improved their levels of granular disclosure, with Automobiles and Food showing rises of 4.6 and 4.3 percentage points respectively. Some sectors have reported marked declines. The financial services groups, Banking and Insurance, have fallen the most – by 7.1 and 3.4 percentage points respectively.

Over a five-year period, only five sectors have improved their reporting, most notably Food (5.1), Media (4.6), and Automobiles (3.9). The declines in granular disclosure have been the highest in the Utilities (17.8), Banking (13.8), and Oil & Gas (12.4) sectors.



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#### **Country trends**

Belgium has the highest percentage of disclosed intangibles versus total enterprise value (39.8%). The composition of Anheuser-Busch InBev's balance sheet has clearly impacted the national figures, demonstrating how a large, globally active company can influence the financial reporting practice in a given country. AB InBev has the second-highest value of disclosed intangibles worldwide, totalling US\$187 billion.

The large European economies, France, Italy, the UK, Germany and Spain are just behind Belgium among the countries with the highest relative levels of disclosed intangibles to enterprise value, all between 28.2% and 21.5%.

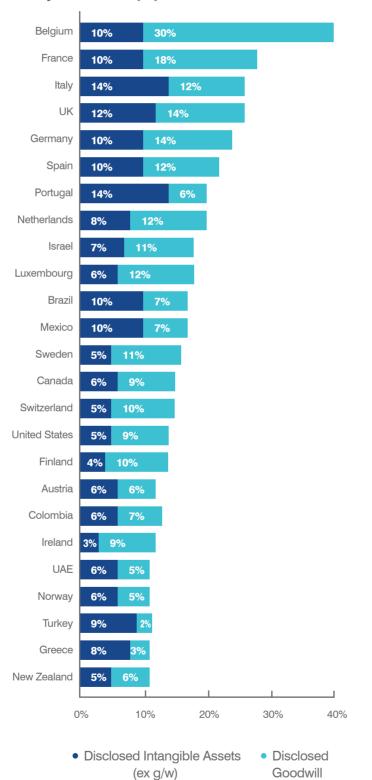
In absolute terms, the US boasts more intangible value than any other country in the world (US\$28.3 trillion), but 78.3% remains undisclosed. In effect, intangibles reported on balance sheets account for only 14.3% of total enterprise value in the US. This is reinforced by the fact that the leading companies from the Banking & Financial Services and Internet & Software sectors, both with high undisclosed intangible value, are headquartered in the US.

After the US, China has the next highest value of intangibles, at US\$5.7 trillion, with 90.3% undisclosed. Companies like Alibaba and Tencent have very high levels of intangibles (93% and 91% of enterprise value respectively). These companies share the intangible characteristics of their US competitors from the Internet & Software sector.

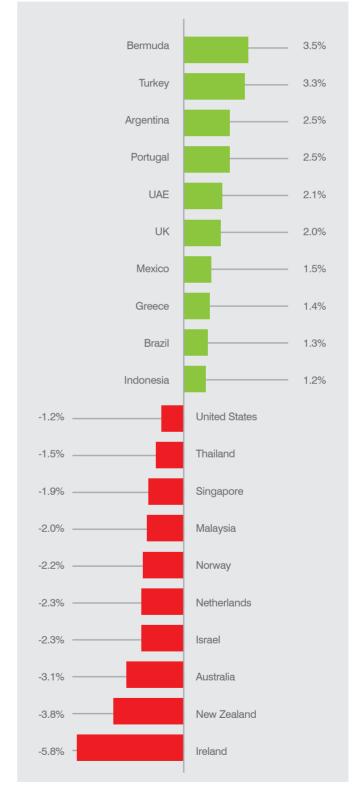
The largest improvement in granular financial reporting in the past year and over five years, measured in percentage point change in the proportion of net disclosed intangible assets to enterprise value, has come from developing and smaller economies. Bermuda (3.5 pp), Turkey (3.3) and Portugal (2.5) have all grown their disclosures at a faster rate over the past year, along with Argentina (2.5), the UAE (2.1) and the UK (2.0). Similarly, Turkey has grown by 4.6 pp over five years, far more than most other countries.

Conversely, some countries have regressed in their granular reporting of intangibles. Over the past year, Ireland has fallen by 5.8 percentage points, followed by New Zealand (3.8) and Australia (3.1). Over five years, Kuwait has seen an 11.4 percentage point deterioration, while the decrease in the granularity of reporting across Denmark (7.8), Norway (6.7) and Sweden (6.2) has highlighted a possible regional trend in the north of Europe.

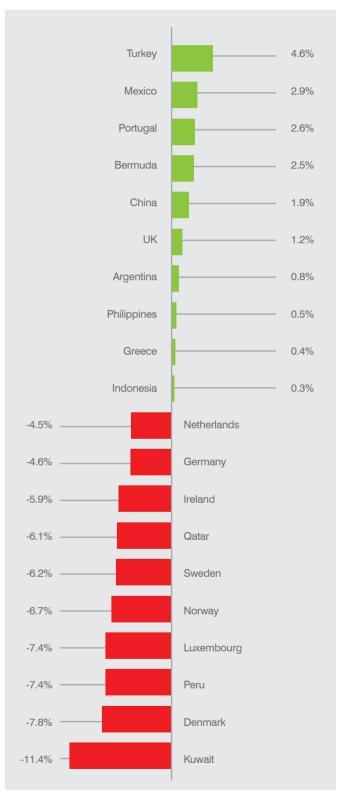
# Most Intangible Countries - Best Disclosure Disclosed Intangibles (including g/w) / Enterprise Value (%)



# Most Intangible Countries - Change in Disclosure 2016-2017 (% points)



## Most Intangible Countries - Change in Disclosure 2013-2017 (% points)



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#### **Company trends**

The nature of the Internet & Software and Technology & IT sectors, heavily reliant on intangible assets – from patents to brands, shapes the top of the ranking of the world's most intangible companies.

The top seven companies come from these sectors, each of them representative of the zeitgeist – Amazon, Microsoft, Apple, Alphabet (Google), Alibaba, Facebook and Tencent. Although accounting for a high percentage of their enterprise values, the vast majority of these companies' intangibles remain undisclosed.

Of Amazon's US\$827 billion of intangibles, US\$810 billion are undisclosed. Amazon's acquisition of Whole Foods is an example of how companies tend to allocate the majority of their newly-amassed intangible value to goodwill, as the move added around US\$10 billion of goodwill value to Amazon's balance sheet. At the same time, the value of all the company's net disclosed intangible assets amounts to US\$3 billion only.

Despite Amazon's market position and prominence in this report, they are absent from the top 100 list of companies by disclosed intangibles.

Telecoms feature prominently in the top 20 for transparent reporting, with four companies, led by AT&T and Verizon as well as Japan's Softbank and Germany's Deutsche Telekom.

AT&T's disclosed intangibles amount to US\$220 billion, representing 62% of its enterprise value and 71% of the company's overall intangibles.

AT&T also dominate in terms of reporting net disclosed intangibles (US\$114 billion). The US company, like other Telecom providers, depends on securing contracts and high levels of customer engagement.

In other sectors, there are huge gaps between the leaders and the companies pursuing them. In Aerospace & Defence, for instance, United Technologies' net disclosed intangibles, at US\$16 billion, are more than double the total for Rolls Royce, in an industry that relies substantially on technology in its pursuit of value.



Likewise, in the Automobiles sector, Volkswagen's net disclosed total of US\$48 billion dwarfs its competitors, while in Chemicals, DowDuPont's net disclosed figure is five times its nearest rival.

The Drinks sector has a runaway leader in AB InBev, which disloses three times the value of net intangibles than its nearest rivals, partly due to the company's trail of acquisitions and joint ventures. Strong marketing practices are key to both AB InBev and the industry as a whole.

The Cosmetics & Personal Care industry's leader in granular intangible reporting is Procter & Gamble (more than US\$24 billion), a company that can attribute half of its enterprise value to marketing.

In other sectors, such as Oil & Gas and Pharma, the leading companies have similar levels of net disclosed intangibles.

#### **Top Companies by Illustrative Value by Asset Class (USD bn)** Amazon.com Inc Microsoft Corp Apple Inc Marketing Anheuser-Busch InBev Alphabet Inc Alibaba Group Holding Facebook Inc Tencent Holdings Ltd JPMorgan Chase & Co Nestle SA-REG 100 200 250 300 400 50 150 350 AT&T Inc Verizon Communications Inc Contractual Home Depot Inc Cisco Systems Inc United Parcel Service Amazon.com Inc The Boeing Co Softbank Group Corp Mcdonald's Corp Unitedhealth Group Inc 100 150 200 250 300 350 400 JPMorgan Chase & Co Amazon.com Inc Microsoft Corp Apple Inc Wells Fargo & Co Alphabet Inc Berkshire Hathaway Inc Alibaba Group Holding Visa Inc Facebook Inc 100 150 200 250 300 350 Amazon.com Inc Microsoft Corp Apple Inc Alphabet Inc Alibaba Group Holding Facebook Inc Tencent Holdings Ltd Unitedhealth Group Inc Johnson & Johnson Amgen Inc 50 100 150 200 250 300 350

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# **Top Companies by Total Intangible Value.**

| Rank<br>2018 | Rank<br>2017 | Rank<br>+/- | Company                           | Sector                                  | Total<br>Intangible<br>Value<br>(USD bn) | Total<br>Intangible<br>Value/<br>Enterprise<br>Value (%) | Tangible<br>Net<br>Asset<br>Value<br>(USD bn) | Net<br>Disclosed<br>Intangibles<br>(USD bn) | Disclosed<br>Goodwill<br>(USD bn) | Undisclosed<br>Intangible<br>Value<br>(USD bn) | Enterprise<br>Value<br>(USD bn) |
|--------------|--------------|-------------|-----------------------------------|---|--|--|---|---|-----------------------------------|--|---------------------------------|
| 1            | 3            | 2           | Amazon.com Inc                    | Internet & Software                     | 827                                      | 96%  | 34  | 3   | 13                                | 810  | 861                             |
| 2            | 2            | 0           | Microsoft Corp                    | Internet & Software                     | 686                                      | 95%  | 89  | 10  | 35                                | 641  | 775                             |
| 3            | 1            | -2          | Apple Inc                         | Technology & IT                         | 648                                      | 85%  | 264   | 2   | 6                                 | 640  | 913                             |
| 4            | 4            | 0           | Alphabet Inc                      | Internet & Software                     | 576                                      | 80%  | 239   | 3   | 17                                | 556  | 815                             |
| 5            | 12           | 7           | Alibaba Group Holding             | Internet & Software                     | 478                                      | 93%  | 46  | 2   | 18                                | 458  | 524                             |
| 6            | 6            | 0           | Facebook Inc                      | Internet & Software                     | 470                                      | 89%  | 101   | 2   | 18                                | 450  | 572                             |
| 7            | 11           | 4           | Tencent Holdings Ltd              | Internet & Software                     | 443                                      | 91%  | 44  | 3   | 4                                 | 437  | 486                             |
| 8            | 9            | 1           | Johnson & Johnson                 | Pharma                                  | 351                                      | 101%   | -5  | 53  | 32                                | 265  | 346                             |
| 9            | 5            | -4          | AT&T Inc                          | Telecoms                                | 311                                      | 88%  | 42  | 114   | 105                               | 91   | 353                             |
| 10           | 7            | -3          | Anheuser-Busch InBev              | Drinks                                  | 308                                      | 101%   | -2  | 46  | 141                               | 121  | 306                             |
| 11           | 18           | 7           | Visa Inc                          | Banking                                 | 290                                      | 102%   | -7  | 28  | 15                                | 248  | 284                             |
| 12           | 8            | -4          | Verizon Communications Inc        | Telecoms                                | 277                                      | 87%  | 42  | 99  | 29                                | 150  | 319                             |
| 13           | 25           | 12          | Unitedhealth Group Inc            | Healthcare                              | 259                                      | 100%   | 1   | 8   | 55                                | 196  | 259                             |
| 14           | 13           | -1          | Pfizer Inc                        | Pharma                                  | 246                                      | 102%   | -5  | 49  | 56                                | 142  | 242                             |
| 15           | 16           | 1           | Berkshire Hathaway Inc            | Insurance                               | 243                                      | 93%  | 377   | 38  | 81                                | 123  | 619                             |
| 16           | 27           | 11          | Home Depot Inc                    | Retail & Food Retail                    | 230                                      | 91%  | 22  | -   | 2                                 | 228  | 252                             |
| 17           | 17           | 0           | Nestle SA-REG                     | Food                                    | 219                                      | 88%  | 31  | 21  | 31                                | 167  | 249                             |
| 18           | 41           | 23          | Intel Corp                        | Technology & IT                         | 213                                      | 85%  | 37  | 13  | 24                                | 176  | 250                             |
| 19           | 44           | 25          | Mastercard Inc                    | Banking                                 | 209                                      | 101%   | -0  | 1   | 3                                 | 204  | 208                             |
| 20           | 14           | -6          | The Procter & Gamble Co           | Cosmetics & Personal Care               | 207                                      | 97%  | 6   | 24  | 45                                | 139  | 213                             |
| 21           | 46           | 25          | The Boeing Co                     | Aerospace & Defence                     | 206                                      | 102%   | -4  | 3   | 6                                 | 198  | 201                             |
| 22           | 15           | -7          | Comcast Corp                      | Media                                   | 196                                      | 92%  | 18  | 78  | 37                                | 81   | 214                             |
| 23           | 37           | 14          | Abbvie Inc                        | Pharma                                  | 195                                      | 107%   | -12   | 28  | 16                                | 152  | 183                             |
| 24           | 38           | 14          | British American Tobacco Plc      | Food                                    | 188                                      | 109%   | -16   | 100   | 60                                | 29   | 172                             |
| 25           | 24           | -1          | Oracle Corp                       | Internet & Software                     | 187                                      | 102%   | 2   | 8   | 43                                | 136  | 189                             |
| 26           | 21           | -5          | The Coca-Cola Co                  | Drinks                                  | 183                                      | 85%  | 33  | 7   | 9                                 | 166  | 215                             |
| 27           | New          | -           | Netflix Inc                       | Internet & Software                     | 182                                      | 101%   | -2  | 10  | -                                 | 172  | 180                             |
| 28           | 22           | -6          | Novartis AG-REG                   | Pharma                                  | 178                                      | 83%  | 38  | 30  | 32                                | 116  | 215                             |
| 29           | New          |             | Roche Holding AG                  | Pharma                                  | 175                                      | 91%  | 18  | 9   | 10                                | 156  | 193                             |
| 30           | 32           | 2           | Unilever                          | Cosmetics & Personal Care               | 175                                      | 96%  | 7   | 14  | 20                                | 141  | 182                             |
| 31           | 53           | 22          | LVMH                              | Apparel                                 | 171                                      | 95%  | 8   | 16  | 20                                | 135  | 179                             |
| 32           | 23           | -9          | Pepsico Inc                       | Drinks                                  | 168                                      | 97%  | 5   | 14  | 15                                | 139  | 173                             |
| 33           | 67           | 34          | Cisco Systems Inc                 | Telecoms                                | 165                                      | 92%  | 41  | 3   | 30                                | 133  | 206                             |
| 34           | 31           | -3          | Merck & Co Inc                    | Pharma                                  | 163                                      | 90%  | 18  | 14  | 18                                | 131  | 181                             |
| 35           | 10           | -25         | General Electric Co               | Engineering & Construction              | 161                                      | 82%  | 36  | 20  | 84                                | 57   | 197                             |
| 36           | 26           | -10         | Intl Business Machines Corp       | Technology & IT                         |  | 97%  | 5   | 4   | 37                                | 114  | 159                             |
| 37           | 29           | -8          | Exxon Mobil Corp                  | Oil & Gas                               | 154<br>153                               | 40%  | 231   | 4   | -                                 | 153  | 385                             |
| 38           | 30           | -8          | The Walt Disney Co                | Media                                   | 151                                      | 83%  | 32  | 7   | 31                                | 113  | 183                             |
| 36<br>39     | 20           | -8<br>-19   | Philip Morris International       | Food                                    | 148                                      | 95%  | 7   | 2   | 8                                 | 138  | 155                             |
| 40           | 28           | -12         | Charter Communications Inc        | Media                                   | 147                                      | 95%  | 9   | 79  | 30                                | 38   | 156                             |
| 40           | New          | -12         | Nvidia Corp                       | Technology & IT                         | 147                                      | 95%  | 12  | 0   | 1                                 | 145  | 158                             |
|              | New          |             | DowDuPont Inc                     | Chemicals                               |  |  | 34  |   | 60                                |  | 180                             |
| 42           |              | -           |                                   | 1 | 146                                      | 81%  |   | 33  |                                   | 53   |                                 |
| 43           | New          | -2          | Fannie Mae<br>SAP Se              | Banking Internet & Software             | 145                                      | 4%   | 3,294   | 4   | -                                 | 145  | 3,439                           |
| 44           | 42           |             |                                   | Telecoms                                | 142                                      | 98%  |   |   | 26                                | 113  | 145                             |
| 45<br>46     | 35           | -10         | Softbank Group Corp               | Retail & Food Retail                    | 137                                      | 62%  | 83  | 62  | 38                                | 37   | 220                             |
| 46           | 50           | 4           | Mcdonald's Corp                   |   | 137                                      | 87%  | 21  | - 04  | 2                                 | 134  | 158                             |
| 47           | 39           | -8          | Glaxosmithkline Plc               | Pharma                                  | 133                                      | 107%   | -9  | 24  | 8                                 | 101  | 124                             |
| 48           | 52           | 4           | Amgen Inc                         | Pharma                                  | 131                                      | 103%   | -4  | 9   | 15                                | 108  | 127                             |
| 49<br>50     | 40<br>96     | -9<br>46    | Medtronic Plc Abbott Laboratories | Healthcare<br>Healthcare                | 128<br>123                               | 97%  | 3   | 23  | 39                                | 78   | 132<br>127                      |

| Rank<br>2018     | Rank<br>2017 | Rank<br>+/- | Company                      | Sector                         | Total<br>Intangible<br>Value<br>(USD bn) | Total<br>Intangible<br>Value/<br>Enterprise<br>Value (%) | Tangible<br>Net<br>Asset<br>Value<br>(USD bn) | Net<br>Disclosed<br>Intangibles<br>(USD bn) | Disclosed<br>Goodwill<br>(USD bn) | Undisclosed<br>Intangible<br>Value<br>(USD bn) | Enterprise<br>Value<br>(USD bn) |
|------------------|--------------|-------------|------------------------------|--------------------------------|--|--|---|---|-----------------------------------|--|---------------------------------|
| 51               | 59           | 8           | Taiwan Semiconductor         | Technology & IT                | 122                                      | 69%  | 71  | 0   | 0                                 | 122  | 193                             |
| 52               | 47           | -5          | 3M Co                        | Engineering & Construction     | 121                                      | 93%  | 9   | 3   | 11                                | 107  | 130                             |
| 53               | New          | -           | Adobe Systems Inc            | Internet & Software            | 117                                      | 98%  | 7   | 0   | 6                                 | 111  | 124                             |
| 54               | 73           | 19          | L'Oréal                      | Cosmetics & Personal Care      | 117                                      | 88%  | 18  | 3   | 11                                | 103  | 135                             |
| 55               | 57           | 2           | Broadcom Inc                 | Technology & IT                | 116                                      | 95%  | 6   | 11  | 25                                | 81   | 122                             |
| 56               | New          | -           | Kweichow Moutai Co Ltd       | Drinks                         | 116                                      | 88%  | 27  | 0   | -                                 | 116  | 143                             |
| 57               | 62           | 5           | Honeywell International Inc  | Technology & IT                | 115                                      | 97%  | 3   | 4   | 18                                | 92   | 118                             |
| 58               | 61           | 3           | Astrazeneca Plc              | Pharma                         | 114                                      | 108%   | -8  | 26  | 12                                | 76   | 106                             |
| 59               | 34           | -25         | The Kraft Heinz Co           | Food                           | 114                                      | 107%   | -7  | 59  | 45                                | 10   | 106                             |
| 60               | 56           | -4          | United Technologies Corp     | Aerospace & Defence            | 113                                      | 93%  | 9   | 16  | 28                                | 70   | 122                             |
| 61               | New          | -           | Royal Dutch Shell Plc        | Oil & Gas                      | 113                                      | 32%  | 244   | 11  | 14                                | 89   | 357                             |
| 62               | 49           | -13         | Deutsche Telekom AG-REG      | Telecoms                       | 110                                      | 76%  | 35  | 61  | 15                                | 35   | 145                             |
| 63               | 36           | -27         | Altria Group Inc             | Food                           | 110                                      | 92%  | 9   | 12  | 5                                 | 92   | 119                             |
| 64               | 80           | 16          | Nike Inc                     | Apparel                        | 109                                      | 92%  | 11  | 0   | 0                                 | 109  | 120                             |
| 65               | New          |             | Ping An Insurance Group Co   | Insurance                      | 107                                      | 32%  | 230   | 9   |                                   | 97   | 336                             |
| 66               | 55           | -11         | Siemens AG-REG               | Engineering & Construction     | 107                                      | 80%  | 27  | 13  | 33                                | 61   | 134                             |
| 67               | 83           | 16          | Texas Instruments Inc        | Technology & IT                | 106                                      | 95%  | 5   | 1   | 4                                 | 101  | 111                             |
| 68               | 64           | -4          | United Parcel Service        | Logistics                      | 103                                      | 88%  | 14  | 2   | 4                                 | 98   | 118                             |
| 69               | 68           | -1          | Lockheed Martin Corp         | Aerospace & Defence            | 101                                      | 103%   | -3  | 4   | 11                                | 87   | 98                              |
| 70               | 75           | 5           | Novo Nordisk                 | Pharma                         | 101                                      | 94%  | 8   | 1   | -                                 | 101  | 109                             |
| 71               | 86           | 15          | Thermo Fisher Scientific Inc | Healthcare                     | 100                                      | 96%  | 4   | 17  | 25                                | 58   | 104                             |
| 72               | 93           | 21          | Accenture Plc                | Technology & IT                | 98                                       | 96%  | 7   | 1   | 5                                 | 93   | 105                             |
| 73               | New          | -           | Salesforce.com Inc           | Internet & Software            | 97                                       | 97%  | 7   | 1   | 7                                 | 89   | 104                             |
| 74               | New          | -           | Christian Dior Se            | Apparel                        | 96                                       | 91%  | 10  | 19  | 15                                | 61   | 105                             |
| 75               | New          | -           | Chevron Corp                 | Oil & Gas                      | 94                                       | 34%  | 180   | -   | 5                                 | 90   | 274                             |
| 76               | 81           | 5           | Diageo Plc                   | Drinks                         | 92                                       | 89%  | 11  | 13  | 4                                 | 75   | 103                             |
| 77               | 45           | -32         | Allergan Plc                 | Pharma                         | 91                                       | 109%   | -8  | 55  | 50                                | -14  | 83                              |
| 78               | 85           | 7           | Naspers Ltd                  | Media                          | 90                                       | 86%  | 14  | 1   | 2                                 | 86   | 104                             |
| 79               | New          | -           | Freddie Mac                  | Banking                        | 90                                       | 4%   | 1,957   | _   | _                                 | 90   | 2,046                           |
| 80               | New          | -           | Booking Holdings Inc         | Internet & Software            | 90                                       | 94%  | 13  | 2   | 3                                 | 85   | 103                             |
| 81               | 89           | 8           | Gilead Sciences Inc          | Pharma                         | 90                                       | 101%   | 2   | 17  | 4                                 | 69   | 92                              |
| 82               | 66           | -16         | Bayer AG-REG                 | Pharma                         | 89                                       | 84%  | 17  | 14  | 18                                | 57   | 106                             |
| 83               | 76           | -7          | Eli Lilly & Co               | Pharma                         | 89                                       | 87%  | 13  | 4   | 4                                 | 80   | 102                             |
| 84               | 60           | -24         | Schlumberger Ltd             | Oil & Gas                      | 89                                       | 84%  | 17  | 9   | 25                                | 54   | 102                             |
| 85               | New          | -2-4        | Paypal Holdings Inc          | Commercial Services            | 87                                       | 90%  | 13  | 0   | 4                                 | 82   | 100                             |
| oo<br>86         | 97           | 11          | Union Pacific Corp           |                                | 86                                       | 68%  | 41  | J   | -                                 | 86   | 126                             |
| 87               | 65           | -22         | CVS Health Corp              | Logistics Retail & Food Retail | 85                                       | 90%  | 10  | 14  | 38                                | 33   | 95                              |
| o <i>r</i><br>88 | 63           | -25         | Industria De Diseno Textil   | Retail & Food Retail           | 84                                       | 85%  | 22  | 1   | 0                                 | 83   | 106                             |
| 89               | New          | -25         | Tata Consultancy Svcs Ltd    | Technology & IT                | 84                                       | 87%  | 19  | 0   | 1                                 | 83   | 103                             |
|                  |              |             | Blackrock Inc                | Banking                        |  |  | 15  | 17  | 13                                | 53   | 99                              |
| 90<br>91         | New          | -           | Twenty-First Century Fox     | Media                          | 83                                       | 98%<br>85%   | 15  | 7   | 13                                | 64   | 99                              |
|                  |              | - 12        | Bristol-Myers Squibb Co      | Pharma                         |  |  |   |   | 7                                 |  |                                 |
| 92               | 79<br>Now    | -13         | Asml Holding Nv              | Technology & IT                | 82                                       | 95%  | 7   | 1   | 5                                 | 74   | 88                              |
| 93               | New          | -           | Vinci Sa                     | Engineering & Construction     |  | 92%  | -4  | 32  | 10                                | 74<br>37                                       | 76                              |
| 94               |              | -           |                              | 0 0                            | 80                                       | 105%   |   |   |                                   |  |                                 |
| 95<br>oe         | 88<br>Now    | -7          | Danaher Corp BP Plc          | Healthcare                     | 79                                       | 100%   | -0  | 12  | 25                                | 43   | 79                              |
| 96               | New          | -           |                              | Oil & Gas                      | 79                                       | 41%  | 112   | 18  | 12                                | 50   | 192                             |
| 97               | 90<br>Now    | -7          | Reckitt Benckiser Group Plc  | Household Products             | 79                                       | 110%   | -7  | 24  | 16                                | 39   | 72                              |
| 98<br>99         | New<br>77    | -           | Caterpillar Inc              | Engineering & Construction     | 79                                       | 91%  | 8   | 2   | 6                                 | 70   | 87                              |
|                  |              | -22         | Starbucks Corp               | Retail & Food Retail           | 77                                       | 92%  | 7   | 0   | 2                                 | 75   | 84                              |

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# **Top Companies by Disclosed Intangible Value.**

| Rank<br>2018 | Rank<br>2017 | Rank<br>+/- | Company                      | Sector                     | Disclosed<br>Intangible<br>Value<br>(USD bn) | Disclosed<br>Intangible<br>Value/Total<br>Intangible<br>Value | Tangible<br>Net<br>Asset<br>Value<br>(USD bn) | Net<br>Disclosed<br>Intangibles<br>(USD bn) | Disclosed<br>Goodwill<br>(USD bn) | Undisclosed<br>Intangible<br>Value<br>(USD bn) | Enterprise<br>Value<br>(USD bn) |
|--------------|--------------|-------------|------------------------------|----------------------------|--|---|---|---|-----------------------------------|--|---------------------------------|
| 1            | 1            | 0           | AT&T Inc                     | Telecoms                   | 220  | 71%   | 42  | 114   | 105                               | 91   | 353                             |
| 2            | 2            | 0           | Anheuser-Busch Inbev Sa      | Drinks                     | 187  | 61%   | -2  | 46  | 141                               | 121  | 306                             |
| 3            | New          | -           | British American Tobacco Plc | Food                       | 159  | 85%   | -16   | 100   | 60                                | 29   | 172                             |
| 4            | 3            | -1          | Verizon Communications Inc   | Telecoms                   | 128  | 46%   | 42  | 99  | 29                                | 150  | 319                             |
| 5            | 4            | -1          | Berkshire Hathaway Inc       | Insurance                  | 119  | 49%   | 377   | 38  | 81                                | 123  | 619                             |
| 6            | 5            | -1          | Comcast Corp                 | Media                      | 115  | 59%   | 18  | 78  | 37                                | 81   | 214                             |
| 7            | 6            | -1          | Charter Communications Inc   | Media                      | 109  | 74%   | 9   | 79  | 30                                | 38   | 156                             |
| 8            | 8            | 0           | Pfizer Inc                   | Pharma                     | 105  | 42%   | -5  | 49  | 56                                | 142  | 242                             |
| 9            | 7            | -2          | Allergan Pic                 | Pharma                     | 105  | 115%  | -8  | 55  | 50                                | -14  | 83                              |
| 10           | 9            | -1          | The Kraft Heinz Co           | Food                       | 104  | 92%   | -7  | 59  | 45                                | 10   | 106                             |
| 11           | 11           | 0           | General Electric Co          | Engineering & Construction | 104  | 65%   | 36  | 20  | 84                                | 57   | 197                             |
| 12           | 10           | -2          | Softbank Group Corp          | Telecoms                   | 100  | 73%   | 83  | 62  | 38                                | 37   | 220                             |
| 13           | New          | -           | DowDuPont Inc                | Chemicals                  | 93   | 64%   | 34  | 33  | 60                                | 53   | 180                             |
| 14           | 29           | 15          | Johnson & Johnson            | Pharma                     | 85   | 24%   | -5  | 53  | 32                                | 265  | 346                             |
| 15           | 15           | 0           | Volkswagen AG                | Automobiles                | 76   | 275%  | 60  | 48  | 28                                | -49  | 88                              |
| 16           | 17           | 1           | Deutsche Telekom AG-REG      | Telecoms                   | 76   | 68%   | 35  | 61  | 15                                | 35   | 145                             |
| 17           | 12           | -5          | Bank Of America Corp         | Banking                    | 71   | 103%  | 274   | 2   | 69                                | 55   | 400                             |
| 18           | 13           | -5          | The Procter & Gamble Co      | Cosmetics & Personal Care  | 69   | 33%   | 6   | 24  | 45                                | 139  | 213                             |
| 19           | 20           | 1           | Unitedhealth Group Inc       | Healthcare                 | 63   | 24%   | 1   | 8   | 55                                | 196  | 259                             |
| 20           | 14           | -6          | Medtronic Plc                | Healthcare                 | 62   | 48%   | 3   | 23  | 39                                | 67   | 132                             |
| 21           | 18           | -3          | Novartis AG-REG              | Pharma                     | 62   | 35%   | 38  | 30  | 32                                | 116  | 215                             |
| 22           | 21           | -1          | Altice Europe Nv             | Media                      | 56   | 88%   | -18   | 29  | 27                                | 8  | 46                              |
| 23           | 25           | 2           | Telefonica Sa                | Telecoms                   | 54   | 71%   | 35  | 22  | 32                                | 22   | 111                             |
| 24           | 23           | -1          | Shire Plc                    | Pharma                     | 53   | 84%   | 3   | 33  | 20                                | 10   | 66                              |
| 25           | 26           | 1           | CVS Health Corp              | Retail & Food Retail       | 52   | 61%   | 10  | 14  | 38                                | 33   | 95                              |
| 26           | 24           | -2          | Nestle SA-REG                | Food                       | 52   | 24%   | 31  | 21  | 31                                | 167  | 249                             |
| 27           | 28           | 1           | Oracle Corp                  | Internet & Software        | 51   | 27%   | 2   | 8   | 43                                | 136  | 189                             |
| 28           | 27           | -1          | Sprint Corp                  | Telecoms                   | 50   | 109%  | 8   | 44  | 7                                 | -4   | 54                              |
| 29           | 35           | 6           | Orange                       | Telecoms                   | 50   | 77%   | 17  | 17  | 33                                | 15   | 82                              |
| 30           | 19           | -11         | Vodafone Group Plc           | Telecoms                   | 49   | 158%  | 66  | 21  | 29                                | -18  | 97                              |
| 31           | 30           | -1          | Jpmorgan Chase & Co          | Banking                    | 48   | 102%  | -184  | 1   | 48                                | 502  | 366                             |
| 32           | 16           | -16         | Teva Pharmaceutical Ind Ltd  | Pharma                     | 46   | 87%   | 3   | 18  | 28                                | 7  | 56                              |
| 33           | 52           | 19          | Siemens AG-REG               | Engineering & Construction | 46   | 43%   | 27  | 13  | 33                                | 61   | 134                             |
| 34           | New          | -           | Abbott Laboratories          | Healthcare                 | 45   | 37%   | 4   | 21  | 24                                | 78   | 127                             |
| 35           | 31           | -4          | Microsoft Corp               | Internet & Software        | 45   | 7%  | 89  | 10  | 35                                | 641  | 775                             |
| 36           | 41           | 5           | Telecom Italia SpA           | Telecoms                   | 44   | 131%  | 17  | 9   | 35                                | -10  | 51                              |
| 37           | 36           | -1          | United Technologies Corp     | Aerospace & Defence        | 44   | 39%   | 9   | 16  | 28                                | 70   | 122                             |
| 38           | 34           | -4          | Abbvie Inc                   | Pharma                     | 43   | 22%   | -12   | 28  | 16                                | 152  | 183                             |
| 39           | 86           | 47          | Centurylink Inc              | Telecoms                   | 43   | 109%  | 17  | 13  | 30                                | -4   | 57                              |
| 40           | 37           | -3          | Visa Inc                     | Banking                    | 43   | 15%   | -7  | 28  | 15                                | 248  | 284                             |
| 41           | 44           | 3           | Vinci Sa                     | Engineering & Construction | 43   | 54%   | -4  | 32  | 10                                | 37   | 76                              |
| 42           | 48           | 6           | Thermo Fisher Scientific Inc | Healthcare                 | 42   | 42%   | 4   | 17  | 25                                | 58   | 104                             |
| 43           | 43           | 0           | Express Scripts Holding Co   | Pharma                     | 42   | 61%   | -10   | 10  | 31                                | 27   | 58                              |
| 44           | 38           | -6          | Intl Business Machines Corp  | Technology & IT            | 41   | 26%   | 5   | 4   | 37                                | 114  | 159                             |
| 45           | New          | -           | Reckitt Benckiser Group Plc  | Household Products         | 40   | 51%   | -7  | 24  | 16                                | 39   | 72                              |
| 46           | 42           | -4          | Mondelez International Inc   | Food                       | 40   | 55%   | 4   | 19  | 21                                | 33   | 77                              |
| 47           | 53           | 6           | Exor Nv                      | Banking                    | 39   | 87%   | 27  | 22  | 17                                | 6  | 72                              |
| 48           | 50           | 2           | The Walt Disney Co           | Media                      | 38   | 25%   | 32  | 7   | 31                                | 113  | 183                             |
| 49           | 39           | -10         | Astrazeneca Plc              | Pharma                     | 38   | 33%   | -8  | 26  | 12                                | 76   | 106                             |
| 50           | 62           | 12          | T-Mobile Us Inc              | Telecoms                   | 37   | 57%   | 16  | 36  | 2                                 | 28   | 82                              |

| Rank<br>2018     | Rank<br>2017 | Rank<br>+/- | Company                      | Sector                     | Disclosed<br>Intangible<br>Value<br>(USD bn) | Disclosed<br>Intangible<br>Value/Total<br>Intangible<br>Value | Tangible<br>Net<br>Asset<br>Value<br>(USD bn) | Net<br>Disclosed<br>Intangibles<br>(USD bn) | Disclosed<br>Goodwill<br>(USD bn) | Undisclosed<br>Intangible<br>Value<br>(USD bn) | Enterprise<br>Value<br>(USD bn) |
|------------------|--------------|-------------|------------------------------|----------------------------|--|---|---|---|-----------------------------------|--|---------------------------------|
| 51               | 89           | 38          | Intel Corp                   | Technology & IT            | 37   | 17%   | 37  | 13  | 24                                | 176  | 250                             |
| 52               | 45           | -7          | Danaher Corp                 | Healthcare                 | 37   | 46%   | -0  | 12  | 25                                | 43   | 79                              |
| 53               | 55           | 2           | Enel SpA                     | Utilities                  | 37   | 68%   | 78  | 20  | 17                                | 18   | 132                             |
| 54               | 80           | 26          | LVMH                         | Apparel                    | 36   | 21%   | 8   | 16  | 20                                | 135  | 179                             |
| 55               | 40           | -15         | Broadcom Inc                 | Technology & IT            | 36   | 31%   | 6   | 11  | 25                                | 81   | 122                             |
| 56               | 56           | 0           | Banco Santander Sa           | Banking                    | 34   | 111%  | 133   | 4   | 31                                | -30  | 137                             |
| 57               | 49           | -8          | Schlumberger Ltd             | Oil & Gas                  | 34   | 39%   | 17  | 9   | 25                                | 54   | 105                             |
| 58               | 76           | 18          | Fresenius Se & Co            | Healthcare                 | 34   | 56%   | 13  | 4   | 30                                | 27   | 74                              |
| 59               | 64           | 5           | Unilever                     | Cosmetics & Personal Care  | 34   | 20%   | 7   | 14  | 20                                | 141  | 182                             |
| 60               | 65           | 5           | Christian Dior Se            | Apparel                    | 34   | 36%   | 10  | 19  | 15                                | 61   | 105                             |
| 61               | 59           | -2          | Atlantia SpA                 | Commercial Services        | 33   | 72%   | -4  | 28  | 5                                 | 13   | 42                              |
| 62               | 47           | -15         | Merck & Co Inc               | Pharma                     | 32   | 20%   | 18  | 14  | 18                                | 131  | 181                             |
| 63               | 63           | 0           | Cisco Systems Inc            | Telecoms                   | 32   | 20%   | 41  | 3   | 30                                | 133  | 206                             |
| 64               | 74           | 10          | Wells Fargo & Co             | Banking                    | 32   | 121%  | -122  | 6   | 27                                | 358  | 268                             |
| 65               | 54           | -11         | Bayer AG-REG                 | Pharma                     | 32   | 36%   | 17  | 14  | 18                                | 57   | 106                             |
| 66               | 57           | -9          | Glaxosmithkline Plc          | Pharma                     | 32   | 24%   | -9  | 24  | 8                                 | 101  | 124                             |
| 67               | 51           | -16         | Valeant Pharmaceuticals      | Pharma                     | 31   | 88%   | -2  | 15  | 16                                | 4  | 33                              |
| 68               | 58           | -10         | Blackrock Inc                | Banking                    | 31   | 37%   | 15  | 17  | 13                                | 53   | 99                              |
| 69               | New          | -           | Enbridge Inc                 | Engineering & Construction | 30   | 70%   | 74  | 3   | 28                                | 13   | 117                             |
| 70               | New          | -           | Danone                       | Food                       | 30   | 48%   | 5   | 8   | 22                                | 33   | 68                              |
| 71               | 67           | -4          | Fiat Chrysler Automobiles    | Automobiles                | 30   | 85%   | 1   | 14  | 16                                | 5  | 36                              |
| 72               | 60           | -12         | BP Plc                       | Oil & Gas                  | 30   | 38%   | 112   | 18  | 12                                | 50   | 192                             |
| 73               | New          | -           | Bollore                      | Banking                    | 30   | 96%   | 13  | 12  | 17                                | 1  | 44                              |
| 74               | New          | -           | Financiere De L'odet         | Banking                    | 30   | 95%   | 10  | 12  | 17                                | 2  | 42                              |
| 75               | 66           | -9          | SAP Se                       | Internet & Software        | 29   | 20%   | 3   | 4   | 26                                | 113  | 145                             |
| 76               | 79           | 3           | Engie                        | Utilities                  | 29   | 132%  | 48  | 8   | 21                                | -7   | 70                              |
| 77               | 69           | -8          | Pepsico Inc                  | Drinks                     | 29   | 17%   | 5   | 14  | 15                                | 139  | 173                             |
| 78               | 77           | -1          | Anthem Inc                   | Healthcare                 | 28   | 47%   | 4   | 8   | 19                                | 31   | 62                              |
| 79               | 71           | -8          | Cme Group Inc                | Banking                    | 27   | 44%   | 5   | 20  | 8                                 | 34   | 67                              |
| 80               | 70           | -10         | Citigroup Inc                | Banking                    | 27   | 187%  | 234   | 5   | 22                                | -12  | 249                             |
| 81               | 82           | 1           | Nippon Telegraph & Telephone | Telecoms                   | 27   | 75%   | 114   | 15  | 12                                | 9  | 149                             |
| 82               | 61           | -21         | Liberty Expedia Hold         | Internet & Software        | 27   | 100%  | -8  | 11  | 15                                | 0  | 19                              |
| 83               | 73           | -10         | Imperial Brands Plc          | Food                       | 26   | 50%   | -3  | 10  | 16                                | 26   | 50                              |
| 84               | 68           | -16         | Johnson Controls Internation | Automobiles                | 26   | 70%   | 8   | 7   | 20                                | 11   | 45                              |
| 85               | 75           | -10         | Merck KGaA                   | Pharma                     | 26   | 52%   | 3   | 10  | 16                                | 24   | 53                              |
| 86               | New          |             | Baker Hughes                 | Oil & Gas                  | 26   | 107%  | 14  | 6   | 20                                | -2   | 38                              |
| 87               | New          | -           | Altice Usa Inc               | Media                      | 26   | 78%   | -1  | 18  | 8                                 | 7  | 32                              |
| 88               | 88           | 0           | Mylan Nv                     | Pharma                     | 25   | 79%   | 2   | 15  | 10                                | 7  | 35                              |
| 89               | New          | -           | Iberdrola Sa                 | Utilities                  | 25   | 89%   | 65  | 16  | 10                                | 3  | 94                              |
| 90               | 97           | 7           | Kinder Morgan Inc            | Engineering & Construction | 25   | 80%   | 47  | 3   | 22                                | 6  | 79                              |
| 91               | 90           | -1          | Schneider Electric Se        | Technology & IT            | 25   | 50%   | 4   | 5   | 20                                | 25   | 54                              |
| 92               | 85           | -7          | Newell Brands Inc            | Household Products         | 25   | 106%  | 0   | 14  | 11                                | -1   | 23                              |
| 93               | New          | -           | CCCC                         | Engineering & Construction | 25   | 106%  | 27  | 24  | 1                                 | -1   | 50                              |
| 94               | 84           | -10         | Liberty Media Corp           | Media                      | 25   | 84%   | -1  | 11  | 14                                | 5  | 29                              |
| 95               | 91           | -4          | AXA Sa                       | Insurance                  | 25   | 2088%   | 95  | 6   | 19                                | -23  | 96                              |
| 96               | 87           | -9          | Royal Dutch Shell Plc        | Oil & Gas                  | 24   | 21%   | 244   | 11  | 14                                | 89   | 357                             |
| 97               | New          | -9          | Dish Network Corp            | Media                      | 24   | 74%   | -2  | 24  | 0                                 | 9  | 30                              |
| 9 <i>1</i><br>98 | 98           | 0           | Abertis Infraestructuras Sa  | Commercial Services        | 24   | 58%   | -1  | 18  | 5                                 | 17   | 40                              |
| 99               | New          | -           | Hsbc Holdings Plc            | Banking                    | 23   | 173%  | -18   | 10  | 14                                | 185  | 191                             |
| 100              | 81           | -19         | Amgen Inc                    | Pharma                     | 23   | 18%   | -4  | 9   | 15                                | 108  | 127                             |

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# **Top Companies by Disclosed Intangible Value by Sector (USD m).**

| Aerospace & Defence              |        |
|----------------------------------|--------|
| United Technologies Corp         | 15,883 |
| Rolls-Royce Holdings Plc         | 7,463  |
| Safran Sa                        | 6,301  |
| Lockheed Martin Corp             | 3,797  |
| Bombardier Inc                   | 3,701  |
| Airlines                         |        |
| Delta Air Lines Inc              | 4,847  |
| United Continental Holdings      | 3,539  |
| Intl Consolidated Airline        | 3,211  |
| American Airlines Group Inc      | 2,203  |
| Latam Airlines Group Sa          | 1,617  |
| Apparel                          |        |
| Christian Dior Se                | 19,329 |
| LVMH Moet Hennessy Louis Vuitton | 16,487 |
| Vf Corp                          | 2,090  |
| Adidas AG                        | 1,759  |
| Far Eastern New Century Corp     | 1,633  |
|                                  |        |

| Automobiles                  |        |
|------------------------------|--------|
| Volkswagen AG                | 48,060 |
| Daimler AG                   | 15,172 |
| Fiat Chrysler Automobiles NV | 13,876 |
| Bayerische Motoren Werke AG  | 10,921 |
| Peugeot SA                   | 9,517  |
| Banking                      |        |
| Visa Inc                     | 27,848 |
| Exor NV                      | 22,470 |
| CME Group Inc                | 19,522 |
| Blackrock Inc                | 17,389 |
| Brookfield Asset Management  | 14,242 |
| Chemicals                    |        |
| DowDuPont Inc                | 33,274 |
| The Sherwin-Williams Co      | 6,002  |
| BASF SE                      | 5,099  |
| Ecolab Inc                   | 4,018  |
| Solvay SA                    | 3,534  |
|                              |        |

| Commercial Services               |        |
|-----------------------------------|--------|
| Atlantia SpA                      | 27,501 |
| Abertis Infraestructuras SA       | 18,376 |
| Transurban Group                  | 14,484 |
| DP World Ltd                      | 6,450  |
| OHL México SAB de CV              | 5,324  |
| <b>Cosmetics &amp; Personal C</b> | are    |
| The Procter & Gamble Co           | 24,187 |
| Unilever                          | 13,849 |
| Coty Inc                          | 8,425  |
| L'Oréal                           | 3,101  |
| Essity Aktiebolag                 | 2,619  |
| Drinks                            |        |
| Anheuser-Busch InBev              | 45,874 |
| Molson Coors Brewing Co           | 14,297 |
| PepsiCo Inc                       | 13,838 |
| Pernod Ricard SA                  | 13,288 |
| Diageo Plc                        | 12,804 |

| Engineering & Construction       | า      |
|----------------------------------|--------|
| Vinci Sa                         | 32,407 |
| China Communications Const       | 23,934 |
| General Electric Co              | 20,273 |
| Power Construction Corp of China | 14,916 |
| Eiffage                          | 13,661 |
| Food                             |        |
| British American Tobacco Plc     | 99,588 |
| The Kraft Heinz Co               | 59,449 |
| Nestle Sa-Reg                    | 21,174 |
| Mondelez International Inc       | 18,639 |
| Altria Group Inc                 | 12,400 |
| Healthcare                       |        |
| Medtronic Plc                    | 23,407 |
| Abbott Laboratories              | 21,473 |
| Thermo Fisher Scientific Inc     | 16,684 |
| Danaher Corp                     | 11,667 |
| UnitedHealth Group Inc           | 8,489  |

| Reckitt Benckiser Group Plc    | 24,324 |
|--------------------------------|--------|
| Newell Brands Inc              | 14,236 |
| Sony Corp                      | 5,248  |
| Henkel AG & Co Kgaa Vorzug     | 4,499  |
| Whirlpool Corp                 | 2,591  |
| Insurance                      |        |
| Berkshire Hathaway Inc         | 38,168 |
| Ping An Insurance Group Co-H   | 9,372  |
| Chubb Ltd                      | 6,839  |
| AXA Sa                         | 6,084  |
| Zurich Insurance Group AG      | 5,787  |
| Internet & Software            |        |
| Liberty Expedia Hold           | 11,266 |
| Netflix Inc                    | 10,371 |
| Microsoft Corp                 | 10,106 |
| Oracle Corp                    | 7,679  |
| Fidelity National Info Service | 6,040  |
|                                |        |

**Household Products** 

| Leisure & Tourism             |        |  |  |
|-------------------------------|--------|--|--|
| Marriott International        | 8,805  |  |  |
| Hilton Worldwide Holdings Inc | 6,232  |  |  |
| MGM Resorts International     | 3,878  |  |  |
| Accor Sa                      | 2,767  |  |  |
| International Game Technolog  | 2,273  |  |  |
| Logistics                     |        |  |  |
| Taiwan High Speed Rail Corp   | 13,928 |  |  |
| Ap Moller-Maersk              | 3,642  |  |  |
| Westrock Co                   | 3,329  |  |  |
| Ball Corp                     | 2,462  |  |  |
| Cosan Logistica Sa            | 2,271  |  |  |
| Media                         |        |  |  |
| Charter Communications Inc    | 79,270 |  |  |
| Comcast Corp                  | 78,143 |  |  |
| Altice Europe Nv              | 29,457 |  |  |
| Dish Network Corp             | 23,753 |  |  |
| Altice Usa Inc                | 18,087 |  |  |

| Mining, Iron & Steel    |        |
|-------------------------|--------|
| Vale Sa                 | 4,378  |
| Posco                   | 4,312  |
| China Molybdenum Co Ltd | 3,243  |
| Rio Tinto Ltd           | 3,119  |
| Rio Tinto Plc           | 2,726  |
| Oil & Gas               |        |
| BP Plc                  | 18,355 |
| Reliance Industries Ltd | 15,049 |
| Total Sa                | 13,160 |
| Royal Dutch Shell Plc   | 10,518 |
| Schlumberger Ltd        | 9,354  |
| Pharma                  |        |
| Allergan Plc            | 54,648 |
| Johnson & Johnson       | 53,228 |
| Pfizer Inc              | 48,740 |
| Shire Plc               | 33,046 |
| Novartis AG-REG         | 29,997 |
|                         |        |

| Real Estate                     |        |  |  |  |  |  |
|---------------------------------|--------|--|--|--|--|--|
| American Tower Corp             | 11,783 |  |  |  |  |  |
| Crown Castle Intl Corp          | 5,962  |  |  |  |  |  |
| Equinix Inc                     | 2,385  |  |  |  |  |  |
| Realogy Holdings Corp           | 2,327  |  |  |  |  |  |
| Shanghai Industrial Hldg Ltd    | 2,255  |  |  |  |  |  |
| Retail & Food Retail            |        |  |  |  |  |  |
| CVS Health Corp                 | 13,630 |  |  |  |  |  |
| Kering                          | 13,415 |  |  |  |  |  |
| Restaurant Brands International | 11,062 |  |  |  |  |  |
| Qurate Retail Inc               | 5,144  |  |  |  |  |  |
| Dufry AG-REG 4,036              |        |  |  |  |  |  |
| Technology & IT                 |        |  |  |  |  |  |
| Intel Corp                      | 12,745 |  |  |  |  |  |
| Broadcom Inc                    | 10,832 |  |  |  |  |  |
| Sk Holdings Co Ltd              | 10,729 |  |  |  |  |  |
| Samsung Electronics Co Ltd      | 8,486  |  |  |  |  |  |
| ADT Inc                         | 7,857  |  |  |  |  |  |

| Telecoms                           |         |
|------------------------------------|---------|
| AT&T Inc                           | 114,276 |
| Verizon Communications Inc         | 98,664  |
| Softbank Group Corp                | 62,408  |
| Deutsche Telekom AG                | 60,849  |
| Sprint Corp                        | 43,905  |
| Toys                               |         |
| Mattel Inc                         | 639     |
| Funko Inc                          | 251     |
| Hasbro Inc                         | 217     |
| Spin Master                        | 145     |
| Tomy Company Ltd                   | 121     |
| Utilities                          |         |
| Enel SpA                           | 20,106  |
| Iberdrola Sa                       | 15,888  |
| EDF                                | 10,695  |
| Brookfield Infrastructure Partners | 9,894   |
| Engie                              | 7,819   |
|                                    |         |



# **M&A Activity.**

#### Global M&A Activity 2009-2017

|                     | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017   |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Deal Value (USD bn) | 1,355 | 1,674 | 1,957 | 1,778 | 1,843 | 2,061 | 1,691 | 2,104 | 2,474  |
| Growth              |       | 24%   | 17%   | -9%   | 4%    | 12%   | -18%  | 24%   | 18%    |
| Deal Volume         | 4,603 | 5,945 | 6,513 | 6,096 | 6,183 | 5,631 | 7,944 | 8,536 | 10,171 |
| Growth              |       | 29%   | 10%   | -6%   | 1%    | -9%   | 41%   | 7%    | 19%    |

#### **Number of Completed Transactions in 2017**

|               | Acquiring Region | Africa | Asia Pacific | Europe | Middle East | N. America | S. America |
|---------------|------------------|--------|--------------|--------|-------------|------------|------------|
| Target Region | Total            | 82     | 3849         | 1835   | 24          | 2873       | 148        |
| Africa        | 81               | 35     | 11           | 14     | 0           | 8          | 1          |
| Asia Pacific  | 2984             | 4      | 2509         | 61     | 1           | 71         | 31         |
| Europe        | 1202             | 12     | 157          | 719    | 1           | 198        | 6          |
| Middle East   | 15               | 0      | 3            | 1      | 8           | 1          | 1          |
| N. America    | 1443             | 1      | 126          | 161    | 0           | 1060       | 7          |
| S. America    | 211              | 1      | 63           | 18     | 0           | 33         | 57         |

#### **Value of Completed Transactions in 2017 (USD bn)**

|               | Acquiring Region | Africa | Asia Pacific | Europe | Middle East | N. America | S. America |
|---------------|------------------|--------|--------------|--------|-------------|------------|------------|
| Target Region | Total            | 11     | 552          | 442    | 16          | 1,136      | 33         |
| Africa        | 7                | 2      | 0            | 1      | -           | 3          | 0          |
| Asia Pacific  | 390              | 0      | 295          | 13     | 0           | 17         | 3          |
| Europe        | 378              | 4      | 35           | 172    | 0           | 117        | 2          |
| Middle East   | 19               | -      | 0            | 4      | 15          | 0          | 0          |
| N. America    | 1,008            | 2      | 48           | 156    | -           | 755        | 3          |
| S. America    | 61               | 0      | 18           | 3      | -           | 7          | 19         |

Global Mergers & Acquisitions (M&A) in 2017 grew by 18% in terms of deal value and 19% by number of deals, taking the total value to around US\$ 2.4 trillion, the highest level since the financial crisis of 2008.

Intangibles are an integral part of Mergers & Acquisitions and a big slice of the purchase price is attributable to goodwill and intangibles.

The United States, in terms of acquiring transactions, saw an increase of 119%, with the total value amounting to US\$ 1,882 billion from 2,212 transactions. The US ended the year optimistic for further activity in 2018 due to the Corporate Tax Bill reform taking place.

China had the second highest total, an increase of 60% to US\$ 383 billion from 1,575 deals. Market watchers noted that China's outbound volume dropped by 10%, partly

due to a new capital controls regime in China and greater scrutiny of Chinese activity in the US by the current administration. This may have also contributed to the high number of Asia-Asia transactions (2,509. China was also a significant target in M&A, with US\$ 175 billion of deals.

The most active sector was Real Estate, over 2,700 deals totalling US\$ 305 billion. Engineering & Construction (US\$ 277 billion/889 deals), Banking (US\$ 230 billion/838 deals) were next in line. Across the continents, intra-regional deals were prominent, notably in Asia (84%), North America (73%) and Europe (60%), but cross-border deals were still in evidence.

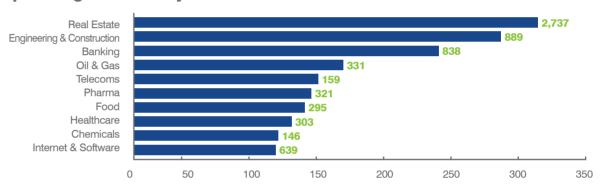
The threat of disruption from the likes of Amazon, Facebook and Netflix, all of whom are broadening their business profile and pushing into new sectors, also spurred on some institutions to acquire greater strength in depth. For

example, with Amazon eyeing the Pharma sector, CVS Health, the biggest drugstore name in the US, agreed to buy healthcare insurance company Aetna for US\$ 69 billion.

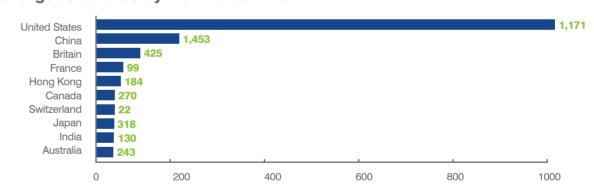
Similarly, in response to Amazon's growing influence on retail (the company bought Whole Foods for US\$ 13.7 billion), Australia's Westfield was sold to France's Unibail-Rodamco for US\$ 24.7 billion. And with Facebook and Netflix moving into sports rights, a stake in 21st Century Fox was sold to Disney for US\$ 66 billion.

Although the market was slow for "mega deals", largely due to regulatory uncertainty, the biggest agreed deal in 2017, a US\$ 130 billion hostile bid for Qualcomm by Broadcom, underlined that companies were still making acquisitions to boost growth and access new markets, also taking advantage of the low cost of capital.

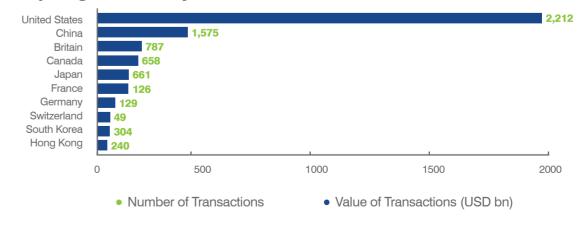
Top 10 Target Sectors by M&A Value in 2017



#### Top 10 Target Countries by M&A Value in 2017



#### Top 10 Acquiring Countries by M&A Value in 2017



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# **Consulting Services.**

#### 1. Valuation: What are my intangible assets worth?

Valuations may be conducted for technical purposes and to set a baseline against which potential strategic brand scenarios can be evaluated.

- + Branded Business Valuation
- + Trademark Valuation
- + Intangible Asset Valuation
- + Brand Contribution

#### 4. Transactions: Is it a good deal? Can I leverage my intangible assets?

4. TANNSPOTIONS Transaction services help buyers, sellers, and owners of branded businesses get a better deal by leveraging the value of their intangibles.

- + M&A Due Diligence
- + Franchising & Licensing
- + Tax & Transfer Pricing
- + Expert Witness

#### 2. Analytics: How can I improve marketing effectiveness?

Analytical services help to uncover drivers of demand and insights. Identifying the factors which drive consumer behaviour allows an understanding of how brands create bottom-line impact.

- Market Research Analytics +
- Return on Marketing Investment +
  - Brand Audits +
  - Brand Scorecard Tracking +

#### 3. Strategy: How can I increase the value of my branded business?

Strategic marketing services enable brands to be leveraged to grow businesses. Scenario modelling will identify the best opportunities, ensuring resources are allocated to those activities which have the most impact on brand and business value.

- Brand Governance +
- Brand Architecture & Portfolio Management +
  - Brand Transition +
  - Brand Positioning & Extension +



We help marketers to connect their brands to business performance by evaluating the return on investment (ROI) of brand-based decisions and strategies.



**Brand &** 

**Business Value** 

We provide financiers and We help brand owners auditors with an independent assessment on all forms of brand and intangible asset valuations.



and fiscal authorities to understand the implications of different tax, transfer pricing, and brand ownership arrangements.



We help clients to enforce and exploit their intellectual property rights by providing independent expert advice in- and outside of the courtroom.





- + Technical Research
- + Standard Setting
- + Training and Development
- + Forums and Events
- + Professional Membership

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#### Contact us.

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