#### RESEARCH ARTICLE



# Does the dual-class share structure help stock markets attract issuers? Empirical lessons from global financial centres

Fa Chen\*† (D)

The Dickson Poon School of Law, King's College London, London, UK; Faculty of Law, University of Cambridge, Cambridgeshire, UK

\*Author e-mail: fc463@cam.ac.uk

(Accepted 25 July 2022)

#### Abstract

Financial globalisation has given issuers more freedom to carry out jurisdiction shopping. As a policy response, a growing number of stock markets have introduced the dual-class share structure to enhance global competitiveness. However, does the dual-class share structure help stock markets attract issuers? It is a question rarely examined empirically in existing scholarly work. This paper explores the practices of three jurisdictions with global financial centres, ie the US, China and Hong Kong, to narrow the research gap. Based on hand-collected data, it explains the infrequent listings with the dual-class share structure in China and Hong Kong in the post-reform era in two ways: low demand due to the use of substitutes; and limited allowance caused by the harsh ex ante regulation, and is the first comparative quantitative study in this field. Drawing on the empirical lessons, this paper recommends that China relax its ex ante regulation and suggests the wider community consider the necessity of introducing the dual-class share structure and the balance they aim to achieve between investor protection and market openness.

Keywords: capital markets; dual-class share structure; low demand; limited allowance; investor protection

#### Introduction

Issuers seeking to go public may take many factors into consideration when choosing listing venues that best suit their private needs, such as the geographical link of their businesses with a particular market, the market valuation at the initial public offering (IPO) stage, and the regulatory space for founders to maintain control. Financial globalisation has given issuers more freedom to carry out jurisdiction shopping and has thus intensified stock market competition. Against this backdrop, the dualclass share structure (DCSS) has obtained growing acceptance in the global listing community over recent years, such as in Hong Kong (2018), Singapore (2018), and China (2019). Also, the UK authority has recently removed the DCSS taboo on the London Stock Exchange (LSE) Premium Main Market to sharpen its competitive edge in the post-Brexit era.

<sup>&</sup>lt;sup>†</sup>The author gratefully appreciates the insightful comments from the three anonymous referees and owes thanks also to Professor Eilís Ferran for her comments on an earlier version of this paper. The usual disclaimers apply.

<sup>&</sup>lt;sup>1</sup>P Espinasse IPO: A Global Guide (Hong Kong: Hong Kong University Press, 2nd edn, 2015) pp 14–22.

<sup>&</sup>lt;sup>2</sup>HKEX Main Board Listing Rules, Ch 8A.

<sup>&</sup>lt;sup>3</sup>Singapore Main Board Rules, r 210(10).

<sup>&</sup>lt;sup>4</sup>SSE STAR Board Listing Rules, Ch 4(5); SZSE ChiNext Board Listing Rules, Ch 4(4).

<sup>&</sup>lt;sup>5</sup>HM Treasury 'UK Listing Review', available at https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/file/966133/UK\_Listing\_Review\_3\_March.pdf.

<sup>©</sup> The Author(s), 2022. Published by Cambridge University Press on behalf of The Society of Legal Scholars. This is an Open Access article, distributed under the terms of the Creative Commons Attribution licence (http://creativecommons.org/licenses/by/4.0/), which permits unrestricted re-use, distribution and reproduction, provided the original article is properly cited.

The DCSS is not novel in the global listing community, which has historically experienced varied positions in many jurisdictions. Whilst empirical legal studies examining the impact of voting mechanism alteration, ie conversion from one-share-one-vote (OSOV) to DCSS or the other way round, on corporate value change on a jurisdiction-specific basis have generated an enormous body of literature, the impact of the DCSS on inter-jurisdictional market competition is rarely explored empirically. Has the supply-front reform of introducing the DCSS helped the involved stock markets attract issuers to reshape the landscape of market competition? If so, to what extent? If not, what are the reasons?

The research gap arises probably from the difficulty in finding suitable jurisdictions, in which policy differences and changes concerning the DCSS may serve as a determinant of inter-jurisdictional market competition. Also, cross-country data collection may have presented considerable challenges. Attempting to narrow the research gap, this paper, based on hand-collected data, seeks insights by examining the efficacy of the DCSS in helping the Chinese and Hong Kong stock markets attract Chinese issuers, compared to that in the US. The US, China and Hong Kong stand out as good choices for such an empirical study because they have global financial centres with five of the top ten stock exchanges, which compete with each other for Chinese issuers. Moreover, both China and Hong Kong have recently removed the long-standing DCSS taboo to respond to competitive pressure from the US, and thus the policy changes have provided a context for detecting the impact of the DCSS on inter-jurisdictional market competition.

The remainder of this paper is structured as follows: Section 1 discusses the reasons for the removal of the DCSS taboo in the Chinese and Hong Kong stock markets. Certain concerns are drawn from both a theoretical analysis of the DCSS's benefits for market development and an empirical study of US-listed Chinese DCSS issuers covering two decades (2000–2019) to reflect competitive pressure as a driver of the Chinese and Hong Kong policy changes. Section 2 explores the landscape of listings with a DCSS in the Chinese and Hong Kong stock markets in the post-reform era and finds the infrequent dual-class listings. Sections 3 and 4 propose and test two hypotheses, ie low demand and limited allowance, to explain the infrequent dual-class listings in China and Hong Kong. Section 5 considers policy implications for both the involved jurisdictions and beyond. The paper ends with concluding remarks.

# 1. The introduction of the dual-class share structure in China and Hong Kong to attract Chinese issuers

On 30 April 2018, Hong Kong enacted new listing rules to revisit the DCSS in its stock market. This was followed by the establishment of the Shanghai Stock Exchange Sci-tech Innovation Board (SSE STAR Board) on 13 June 2019 with the introduction of the DCSS and then the removal of the DCSS taboo on the Shenzhen Stock Exchange ChiNext Board (SZSE ChiNext Board) on 12 June 2020. This section deciphers the aforesaid Chinese and Hong Kong stock market reforms from both theoretical and empirical perspectives.

<sup>&</sup>lt;sup>6</sup>For a summary of scholarly studies on the impact of voting mechanism conversion on corporate value change, see R Adams and D Ferreira 'One share-one vote: the empirical evidence' (2008) 12 Review of Finance 51; B Reddy 'More than meets the eye: reassessing the empirical evidence on US dual-class stock' (2021) 23 University of Pennsylvania Journal of Business Law 955.

<sup>&</sup>lt;sup>7</sup>In 2017, the NYSE, NASDAQ, Shanghai Stock Exchange, Shenzhen Stock Exchange and Hong Kong Stock Exchange ranked 1st, 2nd, 4th, 8th and 6th in market capitalisation, and ranked 2nd, 1st, 4th, 3rd and 8th in share trading volume. Source: The World Federation of Exchanges 'WFE Stock Market Ranking (2017)'.

<sup>&</sup>lt;sup>8</sup>HKEX 'Consultation Conclusions: A Listing Regime for Companies from Emerging and Innovative Sectors', at para 17, available at <a href="https://www.hkex.com.hk/-/media/HKEX-Market/News/Market-Consultations/2016-Present/February-2018-Emerging-and-Innovative-Sectors/Conclusions-(April-2018)/cp201802cc.pdf">https://www.hkex.com.hk/-/media/HKEX-Market/News/Market-Consultations/2016-Present/February-2018-Emerging-and-Innovative-Sectors/Conclusions-(April-2018)/cp201802cc.pdf</a>; HKEX Main Board Listing Rules, Ch 8A.

<sup>&</sup>lt;sup>9</sup>SSE STAR Board Listing Rules, Ch 4(5).

<sup>&</sup>lt;sup>10</sup>SZSE ChiNext Board Listing Rules, Ch 4(4).

### (a) The benefits of the DCSS

Equity ownership generally represents an entitlement to residual cash flows and votes.<sup>11</sup> In many jurisdictions, publicly traded companies must ensure that all shares carry one vote per share, thereby granting shareholders the same proportion of voting rights provided they hold the same amount of shares. This is generally known as the proportionality concept or the OSOV principle.<sup>12</sup> Through aligning voting power with cash-flow rights, the OSOV principle allows shareholders to voice their viewpoints proportionally to their equity ownership<sup>13</sup> so as to ensure shareholder democracy and then to encourage investment.<sup>14</sup> In contrast, DCSS companies issue different classes of shares with disparate voting power.<sup>15</sup> Through holding superior voting shares, corporate founders can thus become controlling shareholders with disproportionate equity ownership.<sup>16</sup>

Issuers seeking to go public may have had several rounds of equity financing that have largely diluted founders' shareholding. <sup>17</sup> Consequently, out of the concern for losing control, founders may be reluctant to float their companies unless they are granted safeguards to maintain managerial autonomy. <sup>18</sup> Owing to its function of combining the advantages of public fundraising in the stock market with the maintenance of corporate control, the DCSS is attractive to founders. <sup>19</sup> Accordingly, from the standpoint of stock markets, as founders often have a decisive say on choosing the listing venue, permitting the DCSS can enhance their attractiveness to prospective issuers. <sup>20</sup>

Besides, the DCSS can counteract market short-termism to foster entrepreneurship. Investors may have an economic incentive to get immediate investment returns<sup>21</sup> and pursue takeover premiums with disruptive changes to incumbent management,<sup>22</sup> as observed by empirical research that a diminishingly shortened period of shareholding is emerging for short-term returns.<sup>23</sup> Given this, permitting founders to maintain control to a certain degree can utilise their idiosyncratic visions for corporate long-term value creation without paying attention to temporary stock price fluctuation and hostile

<sup>&</sup>lt;sup>11</sup>S Cox and D Roden 'The source of value of voting rights and related dividend promises' (2002) 8 Journal of Corporate Finance 337 at 337.

<sup>&</sup>lt;sup>12</sup>S Grossman and O Hart 'One share-one vote and the market for corporate control' (1988) 20 Journal of Financial Economics 175 at 175

<sup>&</sup>lt;sup>13</sup>B Black and R Kraakman 'A self-enforcing model of corporate law' (1996) 109 Harvard Law Review 1911 at 1933. In this paper, investors are interpreted narrowly to mean shareholders only; accordingly, investor protection means the protection of shareholders' interests.

<sup>&</sup>lt;sup>14</sup>S Wei and A Young 'Dual share plan in context: making sense of Hong Kong's decision not to embrace Alibaba's listing' (2015) 26 International Company and Commercial Law Review 4 at 9.

<sup>&</sup>lt;sup>15</sup>Share classes can be multiple, not necessarily just two. Eg, US-listed Snap employs three classes of shares: see Snap's Annual Report filed on the SEC on 5 February 2021, available at https://www.sec.gov/ix?doc=/Archives/edgar/data/1564408/000156459021004377/snap-10k\_20201231.htm.

<sup>&</sup>lt;sup>16</sup>J Ang and W Megginson 'Restricted voting shares, ownership structure and the market value of dual-class firms' (1989) 12 The Journal of Financial Research 301 at 304.

<sup>&</sup>lt;sup>17</sup>HKEX 'Consultation Conclusions to Concept Paper on Weighted Voting Rights', at pp 19–20, available at https://www.hkex.com.hk/-/media/HKEX-Market/News/Market-Consultations/2011-to-2015/August-2014-Weighted-Voting-Rights/Conclusions/cp2014082cc.pdf.

<sup>&</sup>lt;sup>18</sup>B Reddy 'Finding the British Google: relaxing the prohibition of dual-class stock from the premium-tier of the London Stock Exchange' (2020) 79 Cambridge Law Journal 315 at 324.

<sup>&</sup>lt;sup>19</sup>S Nüesch 'Dual-class shares, external financing needs, and firm performance' (2016) 20 The Journal of Management & Governance 525 at 526.

<sup>&</sup>lt;sup>20</sup>M Ventoruzzo 'The disappearing taboo of multiple voting shares: regulatory responses to the migration of Chrysler-Fiat' (2015) ECGI Working Paper Series in Law, No 288/2015, at 9–10, available at <a href="https://papers.csm.com/sol3/papers.cfm?">https://papers.csm.com/sol3/papers.cfm?</a> abstract id=2574236.

 $<sup>^{21}\</sup>mathrm{M}$  Moore and E Walker-Arnott 'A fresh look at stock market short-termism' (2014) 41 Journal of Law and Society 416 at 424–427.

<sup>&</sup>lt;sup>22</sup>It is claimed that a successful takeover is often associated with bid premiums as a 'bribe' to decrease shareholders' resistance: see S Sudarsanam et al 'Rational expectations, analysts' forecasts of earnings and sources of value gains for takeover targets' (2002) 26 Journal of Banking and Finance 153 at 174.

<sup>&</sup>lt;sup>23</sup>P Bolton and F Samama 'Loyalty shares: rewarding long-term investors' (2013) 25 Journal of Applied Corporate Finance 86 at 87.

takeover challenge.<sup>24</sup> This is particularly meaningful to many Chinese technology sector companies, which had a relatively short operating history and negative net profits at the time of listing.<sup>25</sup>

Financial globalisation has enabled issuers to conduct jurisdictional arbitrage. As such, the benefits of the DCSS in boosting market development account for their ever-expanding acceptance in the global listing community. Also, China and Hong Kong have removed the DCSS taboo to make their bourses more capable of competing with their US counterparts. The following subsection employs an empirical perspective to understand inter-jurisdictional market competition as a driver of the Chinese and Hong Kong policy changes.

# (b) Competitive pressure as a driver: an empirical analysis of Chinese companies' US listings

Chinese companies' US listings commenced in 1992 when China Brilliance Automotive Inc went public on the NYSE. <sup>26</sup> Thereafter, hundreds of Chinese issuers floated in the US. From 2000 to 2019, 244 Chinese issuers were listed on either the NYSE or NASDAQ; of these, 98 adopted a DCSS or variant, accounting for 40.2% of the total US-listed Chinese issuers in number (see Figure 1). Moreover, three companies (stock symbols: NETS, SOHU and SINA) have witnessed the US listing of their spin-offs (stock symbols: DAO, SOGO and WB respectively), all of which have issued dual-class shares.

To make further comparisons between the US-listed Chinese DCSS issuers and their OSOV counterparts, this paper excludes six companies (stock symbols: SINA, CCM, NOAH, VIPS, HEBT and ATHM) because they have converted their voting mechanisms from the OSOV to DCSS or the other way round. As such, the comparison subjects are 97 US-listed Chinese DCSS issuers and their 141 OSOV counterparts. Some empirical findings are as follows.

As at 31 December 2019, 18 out of the 97 DCSS issuers (18.6%) were delisted, compared to 79 delisted companies out of the 141 OSOV counterparts (56.0%). As for the 79 DCSS companies and 62 OSOV companies that remained quoted, the total market capitalisation of the former was US \$898.9 billion, while the latter was US\$117.6 billion (see Table 1). Thus, the lower delisting rate and much larger market capitalisation can reflect the financial dominance of DCSS issuers in the land-scape of Chinese companies' US listings, compared to their OSOV counterparts.

Moreover, the total market capitalisation of the 79 US-listed Chinese companies with a DCSS or variant (US\$898.9 billion) equated to 10.6% of the combined market capitalisation of all the 3,584 companies listed in the Chinese stock market or 18.4% of the combined market capitalisation of all the HKEX-listed companies at the end of 2019.<sup>27</sup> Perhaps more noteworthy is the manner in which the US-listed Chinese business giants dominate the technology scene, consistently developing technologies, boosting innovations and expanding business territories. This is the background against which moves by Chinese and Hong Kong policymakers to introduce the DCSS to enhance the attractiveness of their global financial centres to Chinese issuers are to be considered.

# 2. The use of the dual-class share structure in the post-reform Chinese and Hong Kong stock markets

Given that over 40% of Chinese companies listed in the US used a DCSS or variant in 2000–2019, market expectations would be that the Chinese and Hong Kong stock market reforms of introducing

<sup>&</sup>lt;sup>24</sup>H Cronqvist and M Nilsson 'Agency costs of controlling minority shareholders' (2003) 38 Journal of Financial and Quantitative Analysis 695 at 700.

<sup>&</sup>lt;sup>25</sup>L Lin Venture Capital Law in China (Cambridge: Cambridge University Press, 2021) p 248.

<sup>&</sup>lt;sup>26</sup>N Lardy 'The role of foreign trade and investment in China's economic transformation' (1995) 144 The China Quarterly 1065 at 1069.

<sup>&</sup>lt;sup>27</sup>On 31 December 2019, the market capitalisations of the SSE and SZSE were RMB 35.55 trillion and RMB 23.74 trillion respectively, while the market capitalisation of the HKEX was HK\$38.2 trillion. See Shanghai Stock Exchange Statistics Annual 2020, Shenzhen Stock Exchange Fact Book 2019, and HKEX Fact Book 2019. The exchange rates from US\$ to RMB and from US\$ to HK\$ used in this paper are 7:1 and 7.8:1 respectively.

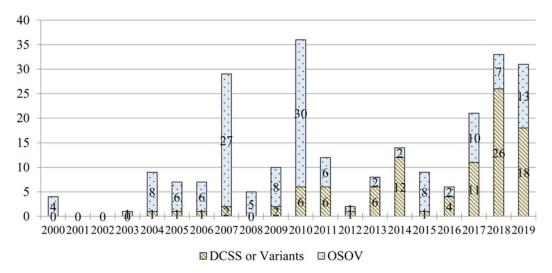


Figure 1. The use of a DCSS or variant by US-listed Chinese companies in 2000–2019
Figure drawn by the author. Data as of 31 December 2019. Data are collected from the NYSE, NASDAQ and SEC. Companies that have gone public via a reverse acquisition are excluded. Chinese SOEs, dual-listed companies and blank check companies are excluded. Delisted companies are counted. Companies that have converted their voting mechanisms from the OSOV to DCSS or the other way round are classified according to their initial voting arrangements.

Table 1. Comparison between US-listed Chinese DCSS and OSOV companies

|   | DCSS Companies | OSOV Companies | Excluded |
|---|----------------|----------------|----------|
| Total number                                | 97             | 141            | 6        |
| Number of delisted companies                | 18             | 79             | _        |
| Number of remained listed companies         | 79             | 62             | _        |
| Rate of delisting (%)                       | 18.6           | 56.0           | _        |
| Market capitalisation of companies remained |                |                |          |
| listed in total (US\$ billion)              | 898.9          | 117.6          | _        |
| Market capitalisation of companies remained |                |                |          |
| listed on average (US\$ billion)            | 11.4           | 1.9            | -        |

Note: Table drawn by the author. Data as of 31 December 2019. Data are collected from the NASDAQ and YCharts Database.

the DCSS on the supply side would have attracted many Chinese companies to go public in China or Hong Kong with the issuance of dual-class shares. However, the market practice has shown a different picture.

At the end of 2021, 371 Chinese companies were quoted on the SSE STAR Board with only four of them acting as DCSS issuers.<sup>28</sup> In parallel, from the removal of the DCSS taboo on the SZSE ChiNext Board on 12 June 2020 to 31 December 2021, 279 Chinese issuers floated on the SZSE ChiNext Board with the use of a DCSS by none of them. As for the landscape of Hong Kong, from 30 April 2018 to 31 December 2021, 322 Chinese companies went public on the HKEX Main Board; of these, only six used a DCSS.<sup>29</sup>

<sup>&</sup>lt;sup>28</sup>The four companies are UCloud Technology (stock code: 688158), Jing-jin Electric Technologies (stock code: 688280), Huiyu Pharmaceutical (stock code: 688553) and Ninebot (stock code: 689009).

<sup>&</sup>lt;sup>29</sup>The six companies are Xiaomi (stock code: 1810), Meituan (stock code: 3690), Kuaishou (stock code: 1024), Bairong (stock code: 6608), Linklogis (stock code: 9959) and Sense Time (stock code: 0020).

|                    | Period                | Number of<br>Chinese DCSS<br>Issuers | Number of Total<br>Chinese Issuers | Dual-class<br>Rate |
|--------------------|-----------------------|--------------------------------------|------------------------------------|--------------------|
| HKEX Main Board    | 30/04/2018-31/12/2021 | 6                                    | 322                                | 1.9%               |
| SSE STAR Board     | 13/06/2019-31/12/2021 | 4                                    | 371                                | 1.1%               |
| SZSE ChiNext Board | 12/06/2020-31/12/2021 | 0                                    | 279                                | 0.0%               |
| NYSE & NASDAQ      | 30/04/2018-31/12/2021 | 74                                   | 120                                | 61.7%              |
|                    | 13/06/2019-31/12/2021 | 47                                   | 82                                 | 57.3%              |
|                    | 12/06/2020-31/12/2021 | 31                                   | 56                                 | 55.4%              |

Table 2. Comparison of listings with a DCSS in China, the US and Hong Kong

Table drawn by the author. Data are collected from the HKEX, SSE, SZSE, NYSE and NASDAQ. Companies that have transferred from the Hong Kong Growth Enterprise Market to the HKEX Main Board are excluded. Dual-listed companies are excluded.

The fact that DCSS use is not popular in the Chinese and Hong Kong stock markets is more striking when compared to the continued prevalence of Chinese issuers' US dual-class listings in the same period. From 13 June 2019 to 31 December 2021, 82 Chinese companies went public in the US with the adoption of a DCSS by 47 of them, while from 30 April 2018 to the end of 2021, 120 Chinese companies floated in the US with the use of a DCSS by 74 of them (see Table 2).

The US practice has revealed the competitive advantage of admitting the DCSS in accommodating Chinese issuers, whereas the infrequent dual-class listings in China and Hong Kong in the post-reform era indicate that the benefits of the DCSS in enhancing stock market attractiveness are merely a myth. The diametrical efficacy of the DCSS seems perplexing. The following sections propose and verify two hypotheses, ie low demand and limited allowance, to explain the unpopularity of listing with a DCSS in the Chinese and Hong Kong stock markets in the post-reform epoch.

## 3. The low demand hypothesis, methodology and evidence

In light of the cost-benefit analysis, when making a decision, a rational person compares the potential costs and benefits associated with the project decision to determine whether it makes sense.<sup>30</sup> This means that for it to be legally possible to adopt a DCSS is only the starting point – if founders are actually to exercise this option, the benefits of doing so must exceed the costs. For founders, generally, the benefits of conducting a dual-class listing lie in two aspects, ie the private benefits of control and listing premiums. If the two aspects are incompatible, rational persons would make a trade-off to maximise their interests, as revealed by scholarly studies that some companies have ceased DCSS usage in exchange for investment opportunities and value enhancement.<sup>31</sup>

Given that the DCSS was newly introduced in the Chinese and Hong Kong stock markets, it is not surprising that investors may fear the potential risks of buying into dual-class companies, and the market fear may impinge negatively on the market valuation of a dual-class listing. Therefore, if substitutes are available, DCSS usage may not be in high demand. Instead, rational issuers are likely to give more weight to higher share price and employ the proportionality doctrine to signify good

<sup>&</sup>lt;sup>30</sup>C Sunstein 'Cognition and cost-benefit analysis' (2000) 29 Journal of Legal Studies 1059 at 1077; T Stobierski 'How to do a cost-benefit analysis & why it's important' (Harvard Business School Online's Business Insights Blog, 5 September 2019), available at https://online.hbs.edu/blog/post/cost-benefit-analysis.

<sup>&</sup>lt;sup>31</sup>B Maury and A Pajuste 'Private benefits of control and dual-class share unifications' (2011) 32 Managerial and Decision Economics 355 at 356.

corporate governance to the stock market pricing mechanism.<sup>32</sup> Put differently, the low viability of the DCSS in the Chinese and Hong Kong stock markets may be attributed to the use of substitutive instruments.

To test the low demand hypothesis, this paper first examines the availability of substitutive control-enhancing instruments under the Chinese and Hong Kong legal frameworks and then investigates whether and the extent to which the use of substitutes may have accounted for the unpopularity of DCSS usage. To enrich comparative legal analyses, some facets of securities regulation and market practice in the Anglo-American stock markets will also be discussed, while relevant implications will be considered later in Section 5.

# (a) The use of PSSs and SVAs as substitutes for the DCSS in China and Hong Kong: a theoretical perspective

Under the Chinese and Hong Kong regulatory frameworks, substitutive control-enhancing instruments typically include the pyramid shareholding structure (PSS) and shareholder voting agreement (SVA).

A PSS employs a multi-firm hierarchy to leverage founder control, in which a high-tier company holds a large portion of the shares of a low-tier company, which in turn holds the shares of a lower-tier company, and as such, the major shareholder of the high-tier company can have a disproportionate say on the corporate affairs of companies at low tiers. As illustrated in Figure 2 below, assuming the adoption of the OSOV principle and that the founder holds 51% of the equity stake in Company C, which itself owns 51% of the shares in Company B, which in turn owns 51% of Company A, through the corporate chain, the founder has 51% of the voting power in Company B by holding 26% of the equity ownership (51% \* 51%). The divergence between cash-flow and voting rights can be further amplified at the bottom tier, as shown that Company A is 51% controlled by the founder who holds only 13% of the equity stake (51% \* 51% \* 51%).

The PSS enables the founder to divest his equity stake in Company A while not losing control. For this to be effective, the critical condition is that the founder has the majority voting rights but not entire equity interests in companies at each tier of the PSS.<sup>35</sup> Apart from that, the creation of a PSS may be subject to other limits, depending on how the PSS is constructed. Generally speaking, the founder could establish a PSS before or after the listing of the operating entity in either an upwards or downwards manner.

If the PSS is constructed upwards prior to IPO, the founder will need to introduce intermediate companies between himself and Company A and attract investment into the intermediate companies.<sup>36</sup> In detail, the founder may take the following steps: (i) incorporate Company B as his wholly-owned corporate entity; (ii) transfer his 51% of the equity stake in Company A to Company B; (iii) sell 49% of Company B to unaffiliated investors; (iv) incorporate Company C as his wholly-owned corporate entity; (v) transfer his 51% of the equity stake in Company B to Company C; (vi) sell 49% of Company C to unaffiliated investors; (vii) list Company A. In this way, the founder

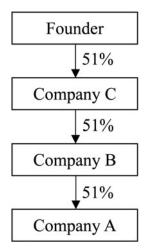
<sup>&</sup>lt;sup>32</sup>Pre-IPO (institutional) investors are not uninformed of DCSS risks; they instead consider both the benefits of having founder control and the costs of shareholder engagement in corporate operation when making investment decisions. In pre-IPO equity financing, the choice of governance structure depends largely on the bargaining power between founders and investors. At the IPO stage, however, founders and pre-IPO investors may have a common goal to maximise market valuation. Thus, if alternative control-enhancing instruments are available, founders are more likely to adopt an OSOV structure to signify good corporate governance to the stock market pricing mechanism.

<sup>&</sup>lt;sup>33</sup>S Claessens et al 'The separation of ownership and control in East Asian corporations' (2000) 58 Journal of Financial Economics 81 at 93.

<sup>&</sup>lt;sup>34</sup>S Obata 'Pyramid business groups in East Asia: issuance or tunneling?' CEI Working Papers Series, No 2002-13, at 7, available at http://hermes-ir.lib.hit-u.ac.jp/hermes/ir/re/13923/wp2002-13a.pdf.

<sup>&</sup>lt;sup>55</sup>B Reddy Founders without Limits: Dual-Class Stock and the Premium Tier of the London Stock Exchange (Cambridge: Cambridge University Press, 2021) p 125.

<sup>&</sup>lt;sup>36</sup>Ibid, p 126.



**Figure 2.** An illustrative example of the PSS Figure drawn by the author.

can dilute his ownership in Company A from 51% to 13% while not losing control. However, the effectiveness of such corporate restructuring and equity financing processes would depend on whether the founder could manage to introduce unaffiliated investors. As shown in Figure 2, the more the tiers are inserted in the PSS, the greater the separation of the founder's equity stake and voting rights in Company A. Accordingly, the decreased equity stake may amplify the founder's incentive to extract private benefits of control.<sup>37</sup> Consequently, potential investors may regard the creation of intermediate companies as a sign that the founder aims to conduct control extraction<sup>38</sup> and may vote with their feet to buy into other companies.

If a PSS is constructed downwards before IPO, the founder may take steps as follows: (i) incorporate Company B as a wholly-owned subsidiary of Company A; (ii) transfer Company A's business to Company B; (iii) sell 49% of Company B to unaffiliated investors; (iv) incorporate Company C as a wholly-owned subsidiary of Company B; (v) transfer Company B's business to Company C; (vi) sell 49% of Company C at IPO; (vii) list Company C. Whilst such a PSS can leverage founder control, it may encounter resistance from involved investors. In many jurisdictions, such as the UK, IPOs represent an effective exit route for investors who often sell out their stakes in the investee company shortly after IPO.<sup>39</sup> Thus, if Company A were to be listed, the initial investors of Company A could exit completely for investment returns. In contrast, upon the creation of the PSS, the business would be transferred from Company A to Company C with the latter to serve as the listed entity. As a result, the initial investors of Company A could only sell a proportion of their equity stake in Company C at the IPO stage, ie 12.25% at most (49% \* 51% \* 49%). For this reason, forming a PSS downwards may be resisted by Company A's initial investors at the beginning.

Alternatively, a PSS could be established upwards or downwards post IPO. However, forming a PSS upwards post IPO may raise a mandatory offer issue, besides the difficulties in attracting unaffiliated

<sup>&</sup>lt;sup>37</sup>See the detailed discussion on DCSS risks in Section 4.

<sup>&</sup>lt;sup>38</sup>Reddy, above n 35, p 126.

<sup>&</sup>lt;sup>39</sup>M Brennan and J Franks 'Underpricing, ownership and control in initial public offerings of equity securities in the UK' (1997) 45 Journal of Financial Economics 391 at 408.

<sup>&</sup>lt;sup>40</sup>The figure is calculated as follows: at the outset, Company A's initial investors had 49% of Company A; after step (iv) of establishing the PSS, Company A's initial investors' equity ownership in Company C would be 25% (49% \* 51%); upon the sale of 49% of Company C to public investors at IPO, Company A's initial investors could sell 12.25% of the total equity stakes in Company C at most (49% \* 51% \* 49%) while their rest equity ownership in Company C would be 12.75% (49% \* 51% \* 51%).

investors into the intermediate companies. <sup>41</sup> In detail, if Company B and Company C were to be introduced after the listing of Company A, Company B would need to acquire the founder's 51% of the equity stake in Company A. In China, Hong Kong and many other jurisdictions including the UK, an acquirer (and persons acting in concert with him, if there are any) who has acquired 30% or more of the shares of a listed company is required to make a mandatory offer to all other shareholders of the company. <sup>42</sup> Thus, the founder should be cautious about triggering mandatory offer requirements. The founder could, instead, attempt to form a PSS downwards post IPO. However, transferring the listed operating entity's business to a new company initially controlled by the founder and afterwards listing the transferee may, in many jurisdictions, constitute a related-party transaction and require minority shareholder approval. <sup>43</sup> On these grounds, forming a PSS post IPO is not easy either, regardless of whether it is conducted upwards or downwards.

Besides the PSS, the SVA is another instrument that can leverage founder control. An SVA is a voluntary contract governing the relationship of signatory shareholders, <sup>44</sup> whereby involved shareholders agree to vote as a single block to exert considerable influence on corporate affairs, such as the election of board members. <sup>45</sup> Take Yunyong Electronics and Technology Co Ltd (stock symbol: 688021), a STAR-listed company, for example: Yunyong's largest two shareholders – who hold 33.75% and 22.5% of the total shares – have entered into an SVA, thereby becoming co-controlling shareholders with 56.25% of the total voting power. <sup>46</sup>

The functions and effects of SVAs can be replicated by persons acting in concert of their own accord, nevertheless with an extra proof of voting coalition.<sup>47</sup> If any shareholder who is a party to the SVA were to exercise his voting power in a manner contrary to the SVA, other signatory shareholders would have a locus standi to initiate a contractual claim against the non-complying shareholder.<sup>48</sup>

The use of an SVA to leverage founder control is not uncommon amongst private companies. In the listed company sphere, however, whether an SVA is workable or not depends considerably on the ownership structure of the involved company. In China and Hong Kong, where the stock markets are dominated by publicly traded companies with block holders, it is relatively easy for the founder to conclude an SVA with a few block holders to become co-controlling shareholders, as revealed by the Yunyong case. In contrast, in jurisdictions in which listed companies usually have a highly dispersed ownership, eg the US and the UK, SVAs may not act as effective substitutes for the DCSS because it is fairly difficult, if not impractical, for the founder to enter into an SVA with a multitude of minority shareholders to achieve collective control.<sup>49</sup>

In fact, the founder's ownership of the operating entity also determines how difficult it is to set up a PSS. Figure 2 showcases a scenario in which the founder once owned 51% of the operating entity and then adopted a PSS to divest his ownership while maintaining control. In practice, the founder may have considerably diluted his ownership in the operating entity in pre-IPO equity financing (say, to 5%), but nevertheless aims to use a control-enhancing instrument to obtain no less than 51% of the voting rights after the listing of the operating entity. If so, the potential landscapes are as follows:

<sup>&</sup>lt;sup>41</sup>Reddy, above n 35, p 125.

<sup>&</sup>lt;sup>42</sup>Measures for the Administration of Acquisitions of Listed Companies (China), Art 24; The Codes on Takeovers and Mergers and Share Buy-backs (Hong Kong), r 26.1; Takeover Code (UK), r 9.

<sup>&</sup>lt;sup>43</sup>Reddy, above n 35, p 125.

<sup>&</sup>lt;sup>44</sup>A Carvalhal 'Do shareholder agreements affect market valuation? Evidence from Brazilian listed firms' (2012) 18 Journal of Corporate Finance 919 at 919.

<sup>&</sup>lt;sup>45</sup>OECD 'G20/OECD Principles of Corporate Governance', at 25, available at https://www.oecd.org/corporate/principles-corporate-governance/.

<sup>&</sup>lt;sup>46</sup>See Yunyong Electronics Technology Co Ltd's Annual Report filed on the SSE on 27 March 2021, available at http://star.sse.com.cn/disclosure/listedinfo/announcement/c/new/2021-03-27/688060\_20210327\_2.pdf.

<sup>&</sup>lt;sup>47</sup>OECD 'Lack of Proportionality between Ownership and Control: Overview and Issues for Discussion', at 13, available at https://www.oecd.org/daf/ca/40038351.pdf.

<sup>&</sup>lt;sup>48</sup>See eg Russell v Northern Bank Development Corp Ltd [1992] 1 WLR 588 (UK).

<sup>&</sup>lt;sup>49</sup>Reddy, above n 35, p 122.

| Founder's ownership in the operating entity                      | 5%   | 10%  | 20% |
|--|------|------|-----|
| Minimum tiers between the founder and the operating entity (PSS) | 4    | 3    | 2   |
| Minimum votes the founder needs to collaborate with (SVA)        | 46%  | 41%  | 31% |
| Minimum weighted voting ratio (DCSS)                             | 20:1 | 10:1 | 5:1 |

Table 3. The comparison between the use of the PSS, the SVA, and the DCSS

Table drawn by the author.

(i) by using a PSS, the founder will need to incorporate at least four tiers between himself and the operating entity;<sup>50</sup> (ii) by using an SVA, the founder will have to collaborate with other shareholders who have at least 46% of the operating entity; (iii) by using a DCSS, the founder will need to set the weighted voting ratio between per superior voting share and per inferior voting share to be 20:1 or greater.<sup>51</sup> It seems that neither a PSS nor an SVA is as neat as DCSS usage to achieve founder control.

To make further comparisons, this paper examines the 10% of ownership and 20% of ownership scenarios. If the founder has 10% of the ownership in the operating entity and aims to obtain at least 51% of the voting rights, he will need to insert at least three tiers between himself and the operating entity in a PSS or conclude an SVA with other shareholders who own at least 41% of the operating entity or use a DCSS with a minimum weighted voting ratio of 10:1.<sup>52</sup> In the 20% of ownership situation, the corresponding conditions would be a PSS with at least two tiers between the founder and the operating entity or an SVA with other shareholders owning 31% or more of the operating entity or DCSS usage with a minimum weighted voting ratio of 5:1 (see Table 3).<sup>53</sup>

Based on the discussion above, it could be seen that to maintain control over the operating entity, the less equity ownership the founder has, the more tiers he will need to insert in a PSS or the more shareholders he will have to collaborate with to reach an SVA, and vice versa. By comparison, the level of the founder's ownership in the operating entity only decides on the minimum weighted voting ratio in the use of a DCSS. The US listing rulebook does not set a cap on the weighted voting ratio in DCSS usage, while the newly revised UK listing regime requires the ratio not to exceed 20:1.<sup>54</sup> However, public shareholders may not understand or care about different weighted voting ratios. Thus, whilst DCSS usage with a weighted voting ratio of 5:1 or 20:1 may not cause substantial distinction in attracting investors, the founder's ownership of the operating entity determines the extent to which a PSS or an SVA could be used as an adequate substitute for the DCSS.

The equity ownership of many listed companies in the Anglo-American stock markets is highly dispersed, as opposed to its Chinese and Hong Kong counterparts. This accounts for the market preference for using the DCSS rather than the PSS or SVA to achieve founder control in the US listed land-scape. Also, it means that even if the PSS and SVA may act as effective substitutes for the DCSS in China and Hong Kong, the availability of these control-enhancing instruments may not challenge the necessity of introducing the DCSS in the LSE Premium Main Market. Before casting light on

<sup>54</sup>HM Treasury, above n 5, s 2.1.

<sup>&</sup>lt;sup>50</sup>As illustrated in Figure 2, incorporating two tiers between the founder and Company A enables the founder to dilute his equity ownership in Company A from 51% to 13% while not losing control. Thus, adding a third tier would enable the founder to further dilute his equity ownership in Company A to 6.5%. This means that in order to use 5% or less of the ownership to achieve control over Company A, a fourth tier is needed.

 $<sup>^{51}</sup>$ If the operating entity issues 100 units of shares with superior voting shares (held exclusively by the founder) carrying 20 votes per share and inferior voting shares carrying 1 vote per share. Proportionate subscription will enable the founder to use 5% of the equity ownership to obtain 51.3% of the voting rights  $(\frac{5 \text{ (units)} \times 20 \text{ (votes)}}{5 \text{ (units)} \times 20 \text{ (votes)} + 95 \text{ (units)} \times 1 \text{ (vote)}} = 51.3\%)$ .

<sup>&</sup>lt;sup>52</sup>This is calculated as follows:  $\frac{10 \text{ (units)} \times 10 \text{ (votes)}}{10 \text{ (units)} \times 10 \text{ (votes)} + 90 \text{ (units)} \times 1 \text{ (vote)}} = 52.6\%.$ 

<sup>&</sup>lt;sup>53</sup>This is calculated as follows:  $\frac{20 \text{ (units)} \times 5 \text{ (votes)}}{20 \text{ (units)} \times 5 \text{ (votes)} + 80 \text{ (units)} \times 1 \text{ (vote)}} = 55.6\%.$ 

policy implications for the UK and the wider community, the following subsection investigates the use of PSSs and SVAs in the Chinese and Hong Kong stock markets empirically.

# (b) The use of PSSs and SVAs as substitutes for the DCSS in China and Hong Kong: an empirical study

Based on an exhaustive examination of the prospectuses of the 962 Chinese OSOV companies listed on the SSE STAR Board, SZSE ChiNext Board and HKEX Main Board, this paper looks into their capital structure and control mechanisms and explores whether and the extent to which substitutes have been adopted to decrease the need for DCSS usage. Some noteworthy empirical findings are as follows.

First, the voting power concentration of the involved Chinese issuers was high. As of 31 December 2021, 367 and 279 Chinese OSOV issuers were listed on the SSE STAR Board and SZSE ChiNext Board respectively. Of these 646 Chinese OSOV issuers, only 103 had a dispersed control structure (including 80 STAR-listed companies and 23 ChiNext-listed companies), whilst the remaining 543 companies (84.1%, including 287 STAR-listed companies and 256 ChiNext-listed companies) had a controlling shareholder with no less than 30% of the total voting power.<sup>55</sup>

Secondly, the use of a PSS and/or an SVA was prevalent. Amongst the 543 companies, the founders became controlling shareholders by adopting a PSS in 237 companies (including 102 STAR-listed companies and 135 ChiNext-listed companies), concluding an SVA in other 69 companies, and using both in other 33 companies. In addition, the founders of the remaining 204 companies (including 116 STAR-listed companies and 88 ChiNext-listed companies) achieved control by means of concentrated equity ownership, <sup>56</sup> either individually or with the support of persons acting in concert with them, which was based on consanguinity or affinity rather than contractual ties.

The empirical study regarding the Chinese OSOV issuers listed in Hong Kong from 30 April 2018 to 31 December 2021 produces similar findings. In this period, 316 Chinese OSOV companies went public on the HKEX Main Board; of these, 266 issuers (84.2%) had a controlling shareholder. Amongst the 266 issuers, 33 adopted a PSS, while other 67 counterparts employed an SVA to leverage founder control. Meanwhile, four companies used both a PSS and an SVA. In parallel, the founders of the remaining 162 companies achieved control by virtue of concentrated ownership (see Table 4).

The empirical findings above reveal the existence of market needs to maintain founder control amongst a vast majority of Chinese issuers. However, owing to the availability of other control-enhancing instruments or ownership concentration as substitutes, a dual-class listing may be attractive but not essential. That is to say, the DCSS is not actually in high demand in the Chinese and Hong Kong stock markets, as might be anticipated.

#### 4. The limited allowance hypothesis, methodology and evidence

The DCSS functions by decoupling the proportionality between voting power and equity stake to leverage founder control. This may nevertheless generate perils to public investors whose voting rights are adversely distorted. Generally speaking, the DCSS can impinge negatively on investor protection in two regards, ie management entrenchment and control extraction.

Where there is a controlling shareholder with a decisive say on director election and then manager employment, the management team would look to serve the interests of the controlling shareholder and be entrenched to public investors. As a result, not only would public investors be powerless to rectify managerial misconduct, but also the disciplinary function of takeovers in ensuring 'the market

<sup>&</sup>lt;sup>55</sup>According to the SSE STAR Board rulebook, a shareholder who owns or controls no less than 30% of the voting power is defined as a controlling shareholder: see SSE STAR Board Listing Rules, r 4.1.6. Given this, companies with a dispersed control structure are interpreted as those which do not have a controlling shareholder.

<sup>&</sup>lt;sup>56</sup>In practice, some companies have concentrated ownership besides the use of a PSS or an SVA. Such circumstances are classified as 'control through a PSS' or 'control through an SVA' instead of being counted into 'control through ownership concentration' in this paper.

| Table 4. The control mechanisms of Chinese OSOV companies listed on the SSE STAR Board, SZSE ChiNext Board, and |
|---|
| HKEX Main Board   |

|  | STAR Board | ChiNext Board | HKEX |
|--|------------|---------------|------|
| Total listed Chinese companies                         | 371        | 279           | 322  |
| Chinese DCSS companies                                 | 4          | 0             | 6    |
| Chinese OSOV companies                                 | 367        | 279           | 316  |
| OSOV companies with dispersed control                  | 80         | 23            | 50   |
| OSOV companies with a controlling shareholder          | 287        | 256           | 266  |
| Control through a pyramid shareholding structure (PSS) | 102        | 135           | 33   |
| Control through a shareholder voting agreement (SVA)   | 50         | 19            | 67   |
| Control through both a PSS and an SVA                  | 19         | 14            | 4    |
| Control through ownership concentration                | 116        | 88            | 162  |

Table drawn by the author. Data as of 31 December 2021. Data are collected from the SSE, SZSE and HKEX. The data of the SSE STAR Board, SZSE ChiNext Board and HKEX Main Board are counted from 13 June 2019, 12 June 2020 and 30 April 2018 respectively.

for corporate control' would become invalid.<sup>57</sup> Although similar problems may also occur in OSOV companies if block holders exist, evidently, the use of the DCSS is more likely to create a self-perpetuating oligarchy with entrenched management.

Also, the DCSS can aggravate the extraction of private interests, based on controlling shareholders' decisive force in electing board members and passing resolutions at general meetings. <sup>58</sup> For example, controlling shareholders can pay their owner-director jobs excessive remuneration, <sup>59</sup> withdraw corporate funds, <sup>60</sup> tunnel corporate assets via related party transactions, <sup>61</sup> engage in empire building, <sup>62</sup> conduct buy-out at undervalue, <sup>63</sup> and pursue non-pecuniary benefits such as reputation and prestige. <sup>64</sup> The extraction may result in a downside of the share price that would damage the equity value of all shareholders, pro rata to their equity ownership. Therefore, extraction conducted by rational controlling shareholders is subject to a cost-benefit analysis by comparing the potential loss to the value of their equity stake with the expected gains of private interests. <sup>65</sup> In OSOV companies, control is achieved through crystallising a considerable amount of shares. The concentrated ownership can serve as a tie to bind controlling shareholders' equity stake with the share price to mitigate the incidence of expropriation, ceteris paribus. <sup>66</sup> In contrast, DCSS usage enables certain shareholders to achieve control through a far smaller proportion of equity stake and, as such, the relatively low loss

<sup>&</sup>lt;sup>57</sup>Cronqvist and Nilsson, above n 24, at 696.

<sup>&</sup>lt;sup>58</sup>R Barker and I Chiu 'Protecting minority shareholders in blockholder-controlled companies: evaluating the UK's enhanced listing regime in comparison with investor protection regimes in New York and Hong Kong' (2015) 10 Capital Markets Law Journal 98 at 100.

 $<sup>^{59}</sup>$ K Chung and J Kim 'Corporate ownership and the value of a vote in an emerging market' (1999) 5 Journal of Corporate Finance 35 at 36.

<sup>&</sup>lt;sup>60</sup>C Holderness and D Sheehan 'The role of majority shareholders in publicly held corporations' (1988) 20 Journal of Financial Economics 317 at 318.

<sup>&</sup>lt;sup>61</sup>V Atanasov et al 'Unbundling and measuring tunneling' (2014) 5 University of Illinois Law Review 1697 at 1698–1699.

<sup>&</sup>lt;sup>62</sup>L Bebchuk 'The case for increasing shareholder power' (2005) 118 Harvard Law Review 833 at 850.

<sup>&</sup>lt;sup>63</sup>F Meng 'A history of Chinese companies listing in Hong Kong and its implications for the future' (2011) 11 Journal of Corporate Law Studies 243 at 254.

<sup>&</sup>lt;sup>64</sup>P Aghion and P Bolton 'An incomplete contracts approach to financial contracting' (1992) 59 The Review of Economic Studies 473 at 476.

<sup>&</sup>lt;sup>65</sup>D Solomon 'The importance of inferior voting rights in dual-class firms' (2019) 2 BYU Law Review 533 at 547–548.

<sup>&</sup>lt;sup>66</sup>R La Porta et al 'Investor protection and corporate valuation' (2002) 57 The Journal of Finance 1147 at 1148.

from the potential share value downside is more likely to incentivise controlling shareholders to extract private benefits.<sup>67</sup>

Due to the perils of the DCSS, it is necessary to reinforce investor protection. Within the framework of the DCSS, the protection of investors and the attractiveness to issuers may represent competing interests. It means that adding weight to investor protection may reduce the market attractiveness to issuers, and vice versa. Investor protection can be achieved through employing ex ante regulatory measures to mitigate the incidence of opportunist behaviours, which may nevertheless make the involved stock market unattractive or even closed to issuers. Therefore, the low viability of the DCSS in China and Hong Kong may be attributed to the limited allowance caused by the restrictive ex ante regulatory measures in use.

To verify the limited allowance hypothesis, this paper first compares the differences between the US, China and Hong Kong in the ex ante regulation of DCSS usage and then investigates the extent to which the differences may have generated impact empirically.

## (a) The disparity in ex ante regulation of DCSS usage

New Issuer Doctrine: The US stock market adopts a new issuer doctrine,<sup>68</sup> under which existing listed issuers are banned from converting their voting mechanism from OSOV to DCSS. Likewise, China and Hong Kong prohibit issuers that do not employ a DCSS at the IPO stage from distorting the voting proportionality thereafter.<sup>69</sup> The reasonableness lies in the fact that post-IPO investors buying into DCSS companies do not have a prior stake in the investee companies, and thus their rights are not reduced by a dual-class IPO. In contrast, if an existing listed company could, after flotation, create a new class of shares in favour of founders, the entitlement of other shareholders would be unfairly prejudiced.

Segmented Venue: DCSS usage is permitted in the whole NYSE and NASDAQ segments. By contrast, Chinese flotation with a DCSS is ringfenced to the SSE STAR Board and SZSE ChiNext Board, in which investors are required to have relatively sophisticated securities trading experience and high risk-bearing capacity. As for the sell side, the controlling shareholder, actual controller and the largest shareholder of a DCSS issuer are bound to a lock-up period of 36 months, which is much longer than counterpart OSOV listings (ie 12 months). As such, by restricting the usage scope to segmented boards with relatively sophisticated investors and a prolonged lock-up period for issuers, it is expected to mitigate the potential negative impact of introducing the DCSS on the whole Chinese stock market.

Higher Financial Threshold: DCSS usage on the SSE STAR Board must meet a high financial threshold through either of the following routes: (i) Pure Market Capitalisation Test: no lower than RMB ten billion in expected market capitalisation; or (ii) Market Capitalisation with Revenue Test: no lower than RMB five billion in expected market capitalisation with no less than RMB 500 million in revenue in the most recent year prior to listing.<sup>72</sup> It should be noted that, besides the valuation and revenue requirements, the SZSE ChiNext Board also requires DCSS issuers to have positive net

 <sup>67</sup>L Bebchuk and K Kastiel 'The untenable case for perpetual dual-class stock' (2017) 103 Virginia Law Review 585 at 602.
 68NYSE Listed Company Manual, r 313(A); NASDAQ Stock Market Rules, r 5640.

<sup>&</sup>lt;sup>69</sup>SSE STAR Board Listing Rules, r 4.5.2; SZSE ChiNext Board Listing Rules, r 4.4.1; HKEX Main Board Listing Rules, r 8A.05.

<sup>&</sup>lt;sup>70</sup>The SSE STAR Board requires retail investors to have securities trading experience of at least 24 months with no less than RMB 500 thousand in their account in the last 20 trading days before investing into STAR-listed companies: see Special Rules Governing the Trading of Stocks on the Sci-tech Innovation Board (China), Art 4. For retailed investors of the SZSE ChiNext Board, the requirements are at least 24 months of stock market investment experience with no less than RMB 100 thousand of capital: see Provisions on the Suitability Management of Investors of the ChiNext Board (China), Art 5. In comparison, the SSE/SZSE Main Board has no capital or investment experience requirements.

<sup>&</sup>lt;sup>71</sup>SSE STAR Board Listing Rules, rr 2.4.4 and 2.4.9; SSE Listing Rules, r 5.14; SZSE Listing Rules, r 5.15.

<sup>&</sup>lt;sup>72</sup>SSE STAR Board Listing Rules, r 2.1.4.

|           | Routes | Market<br>Capitalisation | Revenue          | Cash<br>Flows      | Pre-tax<br>Earnings | Total<br>Assets | Other<br>Requirements |
|-----------|--------|--------------------------|------------------|--------------------|---------------------|-----------------|-----------------------|
| HKEX      | 1      | ≥ 40 billion             | -                | _                  | _                   | _               | _                     |
| (HK\$)    | 2      | ≥ 10 billion             | $\geq 1$ billion | _                  | _                   | -               | _                     |
| STAR &    | 1      | ≥ 10 billion             | -                | _                  | _                   | -               | > 0•                  |
| ChiNext   | 2      | ≥ 5 billion              | ≥ 500 million    | _                  | _                   | -               | > 0•                  |
| (RMB)     |        |                          |                  |                    |                     |                 |                       |
| NYSE      | 1      | ≥ 750 million            | ≥ 75 million     | _                  | _                   | -               | _                     |
| Market    | 2      | ≥ 500 million            | ≥ 100 million    | $\geq$ 100 million | -                   | -               | _                     |
| (US\$)    | 3      | _                        | -                | -                  | ≥ 100<br>million    | -               | -                     |
| NASDAQ    | 1      | ≥ 160 million            | _                | _                  | -                   | ≥ 80<br>million | ≥ 55 million*         |
| GS Market | 2      | ≥ 850 million            | ≥ 90 million     | _                  | _                   | _               | _                     |
| (US\$)    | 3      | ≥ 550 million            | ≥ 110 million    | ≥ 27.5 million     | -                   | -               | _                     |

Table 5. Comparison of the financial standards of DCSS usage in the US, China and Hong Kong

profits.<sup>73</sup> Such financial requirements are overall harsher than that of the NYSE and NASDAQ premium segments (see Table 5).

Minimum Founder Shareholding: Chinese listing regimes require holders of superior voting shares (primarily, the founders) to own no less than 10% of the equity stake. As discussed above, control abuse conducted by a rational person is subject to a cost-benefit analysis by comparing the potential loss from the downside of share value with the expected gains of private interests. Given this, the 10% minimum shareholding requirement can partly tie the founders' equity interests with the company's share value to mitigate the incidence of opportunist behaviours.

Maximum Weighted Voting Ratio: China does not permit the maximum weighted voting ratio between per superior voting share and per inferior voting share to exceed 10:1,<sup>75</sup> given that the high/low vote ratio determines the extent to which a controlling shareholder can hold the minimum shareholding without losing control.<sup>76</sup>

*Minimum Public Votes*: In China, DCSS issuers are required to grant inferior voting shares at least 10% of the total votes, whereby public investors can convene extraordinary general meetings to voice their opinions.<sup>77</sup>

Information Disclosure: The Chinese listing rulebooks require DCSS issuers to warn investors of DCSS risks and the measures adopted for investor protection in the prospectus, articles of association and periodic financial reports.<sup>78</sup> Also, the lock-up arrangement of superior voting shares, transfer restrictions, the circumstances that would cease DCSS usage, and alteration of

<sup>♦</sup>positive net profits in the most recent year before listing (required by the ChiNext Board only).

<sup>\*</sup>stockholders' equity of no less than US\$ 55 million.

Table drawn by the author. Source: SSE STAR Board Listing Rules, r 2.1.4; SZSE ChiNext Board Listing Rules, r 2.1.4; NYSE Listed Company Manual, r 103.01(B); NASDAQ Stock Market Rules, r 5315, and HKEX Main Board Listing Rules, r 8A.06.

<sup>&</sup>lt;sup>73</sup>SZSE ChiNext Board Listing Rules, r 2.1.4.

<sup>&</sup>lt;sup>74</sup>SSE STAR Board Listing Rules, r 4.5.3; SZSE ChiNext Board Listing Rules, r 4.4.3.

 $<sup>^{75}</sup>$ SSE STAR Board Listing Rules, r 4.5.4; SZSE ChiNext Board Listing Rules, r 4.4.4.

<sup>&</sup>lt;sup>76</sup>L Bebchuk and K Kastiel 'The perils of small-minority controllers' (2019) 107 The Georgetown Law Journal 1453 at 1478.

<sup>&</sup>lt;sup>77</sup>SSE STAR Board Listing Rules, r 4.5.7; SZSE ChiNext Board Listing Rules, r 4.4.6.

<sup>&</sup>lt;sup>78</sup>Implementation Opinions on Setting up the Sci-tech Innovation Board and Launching the Pilot Programme of the Registration-based IPO System on the Shanghai Stock Exchange (China), Art 2(5).

superior voting power should be disclosed,<sup>79</sup> which is essential for investors to make informed decisions.<sup>80</sup> In comparison, the US stock market does not make specific stipulations of disclosing DCSS usage and associated risks. However, due disclosure of various risks that may damage investors' interests is a principle-based rule in the US<sup>81</sup> and, as such, most of the disclosure obligations written into the Chinese rules also fall into the disclosure scope in the US.

Anti-dilution Principle: To safeguard public investors, both the Chinese and US stock markets employ an anti-dilution provision, prohibiting DCSS issuers from diluting the voting power of public investors. <sup>82</sup> If dilution occurs through any corporate activity, eg the buy-back of OSOV shares, holders of superior voting shares must take appropriate actions to restore the dilution, such as by converting some superior voting shares to OSOV shares. <sup>83</sup>

Breakthrough Principle: DCSS issuers in China are bound to a breakthrough principle that mandates superior voting shares to vote on the OSOV basis to weigh public investors' voices more heavily than would ordinarily be the case in general meetings. The circumstances that can trigger the re-ordering of voting rights normally involve key corporate matters, including the change of the articles of association, alteration of the rights attached to superior voting shares, appointment or removal of independent directors and audit firms, and corporate merger, split or dissolution. The breakthrough principle is expected to limit the range in which superior voting power could be abused. For example, the election of independent directors on the OSOV basis can ensure director independence to counteract control abuse via board-level decisions.

Enhanced Corporate Governance Criteria: DCSS usage in China is subject to extra internal inspection for better corporate governance. Public limited companies incorporated in China are required to adopt a two-tier board structure<sup>87</sup> with the supervisors holding the powers to monitor directors and executives,<sup>88</sup> convene extraordinary general meetings and propose resolutions,<sup>89</sup> and file lawsuits against directors and executives in the event of fiduciary duty violation.<sup>90</sup> Upon introducing the DCSS, the supervisory board is entitled to play a larger role in counteracting agency risks, which can monitor whether the compliance-based rules specific for investor protection are obeyed or not and publish its opinions in annual reports.<sup>91</sup>

Mandatory Sunset: Recent debates have tended to pivot less on 'to be or not to be' concerning the DCSS but more on a middle-ground issue, ie how should DCSS usage be subject to 'sunset clauses', which means that DCSS usage will cease if a given circumstance occurs. <sup>92</sup> China does not employ a time-based sunset requirement as a universal regulatory norm. However, unlike the US, which leaves

<sup>&</sup>lt;sup>79</sup>Measures for the Continuous Regulation of Companies Listed on the Sci-tech Innovation Board (for Trial Implementation) (China), Art 7.

<sup>&</sup>lt;sup>80</sup>OECD 'Methodology for Assessing the Implementation of the G20/OECD Principles of Corporate Governance', at 89, available at https://www.oecd-ilibrary.org/docserver/9789264269965-en.pdf?expires=1587315387&id=id&accname=guest&checksum=CD25D63B98765332E39BE2DCCF553943.

<sup>&</sup>lt;sup>81</sup>TSC Industries Inc v Northway Inc 426 US 438, 449 (1976).

<sup>82</sup>SSE STAR Board Listing Rules, r 4.5.6; SZSE ChiNext Board Listing Rules, r 4.4.5; NYSE Listed Company Manual, r 313 (A); NASDAQ Stock Market Rulebook, r 5640.

<sup>&</sup>lt;sup>83</sup>SSE STAR Board Listing Rules, r 4.5.6; SZSE ChiNext Board Listing Rules, r 4.4.5.

<sup>&</sup>lt;sup>84</sup>F Chen 'Reshaping the stock market to accommodate Chinese business giants: the reintroduction of weighted voting shares in Hong Kong' (2022) 52 Hong Kong Law Journal 487.

<sup>&</sup>lt;sup>85</sup>SSE STAR Board Listing Rules, r 4.5.10; SZSE ChiNext Board Listing Rules, r 4.4.9.

<sup>&</sup>lt;sup>86</sup>R Huang et al 'The (re)introduction of dual-class share structures in Hong Kong: a historical and comparative analysis' (2020) 20 Journal of Corporate Law Studies 121 at 136.

<sup>&</sup>lt;sup>87</sup>Company Law of China 2018, Art 117.

<sup>&</sup>lt;sup>88</sup>Ibid, Arts 53(2) and 118.

<sup>&</sup>lt;sup>89</sup>Ibid, Arts 53(4)(5) and 118.

<sup>&</sup>lt;sup>90</sup>Ibid, Arts 53(6) and 151.

 $<sup>^{91}\</sup>text{SSE}$  STAR Board Listing Rules, r 4.5.12; SZSE ChiNext Board Listing Rules, r 4.4.12.

<sup>&</sup>lt;sup>92</sup>In UK legal parlance, a sunset clause is defined as 'A provision in a Bill that gives it an expiry date once it is passed into law', which enables the legislator to decide on its merits again after a fixed period: see UK Parliament 'Glossary: Sunset Clause', available at <a href="https://www.parliament.uk/site-information/glossary/sunset-clause/">https://www.parliament.uk/site-information/glossary/sunset-clause/</a>. However, different from the

|                     | US        | China        |
|---------------------|-----------|--------------|
| New issuer doctrine | $\sqrt{}$ | $\checkmark$ |
| _                   |           | /            |

Table 6. The restrictions on DCSS usage in the US, China and Hong Kong

|  | US           | China     | Hong Kong |
|--|--------------|-----------|-----------|
| New issuer doctrine                    | $\checkmark$ | $\sqrt{}$ | $\sqrt{}$ |
| Segmented venue                        | _            | $\sqrt{}$ | $\sqrt{}$ |
| Higher financial threshold             | _            | $\sqrt{}$ | $\sqrt{}$ |
| Anti-dilution principle                | $\sqrt{}$    | $\sqrt{}$ | $\sqrt{}$ |
| Information disclosure                 |              |           |           |
| Maximum weighted voting ratio (10:1)   | _            | $\sqrt{}$ | $\sqrt{}$ |
| Minimum founder shareholding (10%)     | _            | V         |           |
| Minimum public votes (10%)             | _            | $\sqrt{}$ | $\sqrt{}$ |
| Breakthrough principle                 | _            | $\sqrt{}$ | $\sqrt{}$ |
| Enhanced corporate governance criteria | _            | V         | V         |
| Time-based sunset                      | _            | _         | _         |
| Event-based sunset                     | -            | $\sqrt{}$ | $\sqrt{}$ |

Table drawn by the author.

the bespoke adoption of sunset circumstances to company-specific private ordering, China employs event-based provisions as public regulatory intervention to cease DCSS usage, such as where the beneficiaries of superior voting shares resign from the board or are incapacitated from performing director duties. Besides, the private sale of superior voting shares is stipulated as a sunset event. Since the DCSS anchors its value in enabling founders to counteract market short-termism, if superior voting shares are sold, the basis of employing a DCSS to achieve founder control would no longer be justified and thus the superior voting power granted to the founders should cease.

Most Chinese rules regulating DCSS usage have been transplanted from the HKEX. 95 In contrast, the US stock market adopts fewer ex ante regulatory measures other than the new issuer doctrine, information disclosure requirement and anti-dilution principle (see Table 6).

#### (b) The impact of the ex ante regulation on DCSS usage

Having recognised the jurisdictional disparity in ex ante regulation, this paper now explores its impact on DCSS usage in China and Hong Kong. For the purpose of comparative quantitative analysis, only two measurable aspects are examined, ie the dual-class listing financial criteria and the maximum weighted voting ratio. The empirical findings are as follows.

As shown in Table 2 above, from 13 June 2019 to 31 December 2021, 82 Chinese companies went public in the US, with the adoption of a DCSS by 47 of them. Through examining the prospectuses of the 47 US-listed Chinese DCSS issuers, this paper discovers that, of these, 12 did not meet the financial criteria of conducting a dual-class listing on the SSE STAR Board, and 13 issuers attached more than ten votes to each superior voting share, which was not permitted in China. In addition, eight of the 47 companies failed to meet both the maximum weighted voting ratio and the dual-class listing financial criteria of the SSE STAR Board. That is to say, the Chinese ex ante regulatory strategies blocked 33 of the 47 US-listed Chinese DCSS issuers (70.2%) from carrying out a dual-class listing on the SSE STAR Board.

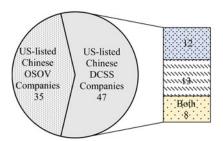
aforesaid definition, sunset clause is interpreted in a broader sense in this paper to include both time-based sunset circumstances and event-based sunset circumstances.

<sup>&</sup>lt;sup>93</sup>SSE STAR Board Listing Rules, r 4.5.9; SZSE ChiNext Board Listing Rules, r 4.4.8.

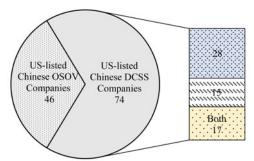
<sup>94</sup>SSE STAR Board Listing Rules, r 4.5.9; SZSE ChiNext Board Listing Rules, r 4.4.8.

<sup>95</sup>HKEX Main Board Listing Rules, Ch 8A.

The impact on the SSE STAR Board Period: 13/06/2019-31/12/2021



The impact on the HKEX Main Board Period: 30/04/2018-31/12/2021



□ Companies failed to meet the financial criteria of the SSE STAR Board or HKEX Main Board

□ Companies failed to meet the maximum weighted voting ratio

**Figure 3.** The impact of ex-ante regulation on DCSS usage in the Chinese and Hong Kong stock markets Figure drawn by the author.

Likewise, from 12 June 2020 to 31 December 2021, 56 Chinese companies were listed in the US, with the use of a DCSS by 31 of them. Of the 31 dual-class companies, 13 did not satisfy the financial criteria of using a DCSS on the SZSE ChiNext Board, and one was actually blocked from floating on the SZSE ChiNext Board due to attaching more than ten votes to its superior voting shares. Meanwhile, 15 companies failed to meet both requirements. That is to say, 29 of the 31 US-listed Chinese dual-class issuers could not have gone public on the SZSE ChiNext Board with a DCSS. This reveals that, compared to the regulation of the SSE STAR Board, the requirement of positive net profits of the SZSE ChiNext Board has further affected DCSS usage.

The empirical analysis of the Hong Kong stock market receives similar findings. From 30 April 2018 to 31 December 2021, of the 74 US-listed Chinese DCSS issuers, 28 did not meet the financial threshold of listings with a DCSS on the HKEX, and 15 companies attached more than ten votes to each superior voting share. In addition, 17 issuers failed to satisfy both requirements (see Figure 3).

From the empirical analyses above, it can be seen that while the ex ante regulatory strategies employed in China and Hong Kong can ringfence DCSS usage to issuers with high profile and relatively low governance risks to consolidate investor protection, the other side of the coin is that such restrictive rules have closed the Chinese and Hong Kong stock markets to certain Chinese issuers who have instead voted with their feet to go public in the US. In other words, the limited allowance has substantially affected DCSS usage in China and Hong Kong.

To say the least, assuming Chinese issuers take only the control issue into account when choosing the desired listing venue, ceteris paribus, can the introduction of the DCSS in China and Hong Kong considerably change the landscape of stock market competition with the US? It is hard to say, but the answer is probably negative. For one thing, the Chinese and Hong Kong bourses require superior voting shares to carry ten votes per share at most. By comparison, neither the NYSE nor NASDAQ requires a cap on the weighted voting ratio, exemplified typically by the allowance of non-voting shares. That is to say, the proportionality-distorting mechanisms in the US can grant Chinese issuers a higher level of control, compared to listing with a DCSS in China or Hong Kong.

For another, both the NYSE and NASDAQ exempt non-US companies from being bound to the new issuer doctrine, provided the company law of their home country allows the change of voting structure post listing.<sup>96</sup> The primary jurisdiction of incorporation of US-listed Chinese

<sup>&</sup>lt;sup>96</sup>NYSE Listed Company Manual, r 313(A); NASDAQ Stock Market Rules, r 5640.

companies is the Cayman Islands, followed by the British Virgin Islands. <sup>97</sup> Both permit the reorganisation of share capital at any time subject to the approval of three-quarters of the total votes. <sup>98</sup> In practice, five US-listed Chinese companies (stock symbols: VIPS, <sup>99</sup> CCM, <sup>100</sup> NOAH, <sup>101</sup> SINA <sup>102</sup> and HEBT <sup>103</sup>) converted their voting arrangements from the OSOV to DCSS post listing. Therefore, the US regime can grant Cayman/BVI-incorporated Chinese issuers greater flexibility in choosing the voting structure at the IPO stage, compared to going public domestically or in Hong Kong, where the new issuer doctrine is implemented without any exception. On these grounds, introducing the DCSS in China and Hong Kong seems unlikely to reshape the landscape of stock market competition with the US significantly, provided there are no other legal innovations to generate synergy effects. <sup>104</sup>

## 5. Policy implications for involved jurisdictions and beyond

Drawing on the discussion above, it can be seen that in the US, permitting DCSS usage with the relatively lenient ex ante regulation has played an important role in accommodating Chinese issuers, although it may not be the only determinant. In contrast, the Chinese and Hong Kong stock markets have employed many restrictive rules that have caused limited allowance to substantially affect DCSS usage. The diametrical viability and efficacy of the DCSS may suggest the necessity for China and Hong Kong to relax the harsh restrictions. However, this would prompt concern about competing interests, ie investor protection against DCSS perils. Given this, policy implications should be put in a broader context for consideration.

Investor protection relies on both ex ante regulation and ex post remedy, <sup>106</sup> which are to some extent complementary or alternative. It means that the availability of effective post-event remedy can decrease reliance on ex ante regulation, and vice versa. As clearly reflected by the US experience, the shortage of ex ante regulatory measures does not imply poor investor protection, which instead anchors its strength deeply in the ease and effectiveness of securities enforcement. In fact, China introduced a US-style securities class action mechanism, namely the special securities representative action

<sup>&</sup>lt;sup>97</sup>According to the author's empirical analysis, 215 of the 244 US-listed Chinese companies were incorporated in the Cayman Islands, followed by 21 counterparts that were incorporated in the British Virgin Islands.

<sup>98</sup> Cayman Islands Companies Law 2020, Sch 1, Art 3; BVI Business Company Act 2004, Pt IX 179A(3)(6).

<sup>&</sup>lt;sup>99</sup>See VIPS's 6-K Form filed on the SEC on 16 September 2014, available at https://www.sec.gov/Archives/edgar/data/1529192/000110465914066473/a14-20987\_1ex99d1.htm.

<sup>&</sup>lt;sup>100</sup>See CCM's 6-K Form filed on the SEC on 30 January 2015, available at https://www.sec.gov/Archives/edgar/data/1472072/000119312515027702/d862894dex991.htm.

<sup>&</sup>lt;sup>101</sup>See NOAH's 6-K Form filed on the SEC on 29 January 2016, available at https://www.sec.gov/Archives/edgar/data/1499543/000119312516443108/d65754d6k.htm.

<sup>&</sup>lt;sup>102</sup>See SINA's 6-K Form filed on the SEC on 8 November 2017, available at https://www.sec.gov/Archives/edgar/data/1094005/000110465917066830/a17-26151\_1ex99d2.htm.

<sup>&</sup>lt;sup>103</sup>See HEBT's 6-K Form filed on the SEC on 9 March 2018, available at https://www.sec.gov/Archives/edgar/data/1603993/000114420418013723/tv488081\_ex3-1.htm.

<sup>&</sup>lt;sup>104</sup>Other factors that account for the attractiveness of the Chinese and Hong Kong stock markets go beyond the scope of this paper. Nevertheless, they are briefly mentioned here to give a complete picture. Apart from introducing the DCSS, China has conducted other stock market reforms to accommodate domestic issuers, such as the permission of listings with a variable interest entity structure and the adoption of a registration-based IPO system. For a discussion of the variable interest entity structure, see F Chen 'Variable interest entity structures in China: are legal uncertainties and risks to foreign investors part of China's regulatory policy?' (2021) 29 Asia Pacific Law Review 1.

<sup>&</sup>lt;sup>105</sup>The global competitiveness of a stock market must be built upon its strengths in many facets that collectively form an attractive ecosystem to issuers. For example, the bonding theory argues that the strength of the US stock market is anchored deeply in its strict securities enforcement, which generates higher market valuation and lower costs of capital to attract global issuers to conduct cross-listings: see J Coffee 'Law and the market: the impact of enforcement' (2007) 156 University of Pennsylvania Law Review 229 at 232. Other factors that account for the strength of the US stock market, as compared to its Chinese and Hong Kong counterparts, are beyond the scope of this paper.

<sup>&</sup>lt;sup>106</sup>J Armour et al 'Private enforcement of corporate law: an empirical comparison of the United Kingdom and the United States' (2009) 6 Journal of Empirical Legal Studies 687 at 687.

(SSRA) mechanism, upon the modification of its Securities Law in December 2019.<sup>107</sup> Most recently, the first SSRA, ie *China Securities Investor Services Centre v Kangmei Pharmaceutical Co*, was ruled on by the court on 12 November 2021.<sup>108</sup> In this case, the wrongdoers were required to bear strict liabilities to pay compensation of RMB 2.459 billion to the affected investors, an amount even larger than the monetary settlement of the US securities class actions against Alibaba (US\$250 million, equivalent to RMB 1.75 billion).<sup>109</sup> It is noteworthy that in the court decision of the first SSRA, the involved accounting firm and accountant were held to bear joint and several liability for their negligence. As such, it is expected that gatekeepers would perform gatekeeping duties prudently to find and avoid fraudulent activities so as to maintain market integrity. In addition, five independent directors were found liable for signing the annual reports without discovering the misconduct. Thus, the court decision has given a strong signal that independent directors must duly play their supervisory role rather than acting as little more than rubber-stamp authorities.<sup>110</sup> In this way, Chinese authorities have shown a strong determination to ensure investor protection.

Given the purpose of introducing the DCSS, the implementation of the SSRA mechanism has provided a basis for relaxing the harsh ex ante regulation of DCSS usage, thereby enhancing market attractiveness to issuers while not compromising investor protection. Such a policy implication may also make sense in Hong Kong, given that it has proposed the introduction of a class action regime. However, this paper cannot say, on the basis of the existing empirical findings, what degree of restrictions are optimal for China and Hong Kong.

Reforming listing regimes to promote business success for social welfare is by no means a public policy concern specific to China and Hong Kong. Indeed, many other jurisdictions face similar challenges. Take the UK for example: the LSE Premium Main Market is materially under-represented by high-tech companies, largely due to the DCSS taboo. Moreover, the LSE Premium Main Market experienced a significant decline (over 50%) in the number of listed companies in recent years. Against this backdrop, the UK has reintroduced the DCSS on the LSE Premium Main Market to attract global issuers. Meanwhile, out of the consideration that public investors should be safeguarded against DCSS perils, several strict usage conditions have been adopted. In the UK listed sphere, most issuers have a highly fragmented capital structure. Thus, although the PSS and SVA are permissible in the UK, they may not be used as adequate substitutes for the DCSS. This means that it is necessary to reintroduce the DCSS for the global competitiveness purpose. However, some of the ex ante regulatory measures, such as the mandatory time-based sunset requirement (ie five years post IPO) and restricting DCSS usage to blocking takeovers, are not well designed; this may considerably undermine the attractiveness of the LSE Premium Main Market to potential issuers.

The evidence finding and explaining the low efficacy of the DCSS in the Chinese and Hong Kong stock markets can provide some empirical lessons for the global listing community. First, it is not unwise for policymakers to consider the availability of substitutive control-enhancing instruments

<sup>&</sup>lt;sup>107</sup>Securities Law of China 2019, Art 95.

<sup>&</sup>lt;sup>108</sup>China Securities Investor Services Centre v Kangmei Pharmaceutical Co, Intermediate People's Court of Guangzhou City, Guangdong Province (China) [2020] Civil Judgment No 2171.

<sup>&</sup>lt;sup>109</sup>ISS 'Top 100 US Class Action Settlements of All Time as of December 2019', available at https://www.issgovernance.com/library/the-top-100-us-class-action-settlements-of-all-time-as-of-december-2019/.

<sup>&</sup>lt;sup>110</sup>For a discussion of the Chinese SSRA mechanism, see F Chen 'The Chinese-style securities class action mechanism for investor protection: context, content, comparison and consequence' (2022) 30 Asia Pacific Law Review 287.

<sup>&</sup>lt;sup>111</sup>The Law Reform Commission of Hong Kong 'Report: Class Action', at 275, available at https://www.hkreform.gov.hk/en/docs/rclassactions\_e.pdf.

<sup>&</sup>lt;sup>112</sup>S Bagot et al 'London's premium segment and high-growth companies: return of the dual-class structure' (Harvard Law School Forum on Corporate Governance, 23 February 2020), available at https://corpgov.law.harvard.edu/2020/02/23/londons-premium-segment-and-high-growth-companies-return-of-the-dual-class-structure/.

<sup>&</sup>lt;sup>113</sup>FCA 'Review of the effectiveness of primary markets: the UK primary markets landscape' (Discussion Paper DP17/2, February 2017), at 42, available at https://www.fca.org.uk/publication/discussion/dp17-02.pdf.

<sup>&</sup>lt;sup>114</sup>HM Treasury, above n 5, s 2.1.

<sup>&</sup>lt;sup>115</sup>B Reddy 'Up the hill and down again: constraining dual-class shares' (2021) 80 Cambridge Law Journal 515.

under their legal and regulatory frameworks that may, to a large extent, decide the necessity of introducing the DCSS. Otherwise, introducing the DCSS would be a rather pointless exercise if there is little demand. Secondly, in the event of visiting the DCSS, policymakers need to think hard about global competitiveness and strike a balance between market openness and investor protections, given that overly restrictive ex ante regulatory measures would undermine the benefits of the DCSS in fostering stock market attractiveness to issuers.

#### Conclusion

The DCSS can combine the advantages of public fundraising to expand the company with the maintenance of managerial autonomy and is thus attractive to founders. From the standpoint of stock markets, since founders usually have a decisive say on choosing the listing venue, permitting the DCSS may enhance their attractiveness to prospective issuers. Against the backdrop of financial globalisation, with the ever-expanding stock market competition, a growing number of jurisdictions have introduced the DCSS to attract issuers.

However, the empirical analyses of the Chinese and Hong Kong stock markets reveal that the DCSS does not necessarily help stock markets attract issuers. For one thing, owing to the fact that most Chinese issuers have block holders, DCSS usage may not be in high demand as expected because other control-enhancing instruments and ownership concentration have served well as substitutes to achieve founder control. For another, due to stringent ex ante regulation, many US-listed Chinese DCSS issuers could not have met the conditions for DCSS usage in China or Hong Kong. As a result, the DCSS has borne low viability and efficacy in China and Hong Kong in the post-reform era; this may encourage policymakers to think about relaxing the harsh ex ante regulation.

Drawing on the empirical lessons from the Chinese and Hong Kong stock markets, for other jurisdictions at the crossroad of (re)visiting the DCSS, it is not unwise for policymakers to ponder both the availability of substitutive control-enhancing instruments under their legal frameworks and the balance they aim to strike between investor protection and market openness.