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**ALICIA GARCÍA-HERRERO**  
(alicia.garcia-herrero@

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But since then, no apparent progress has been made. From the geopolitical point of view, the heightened tensions between the US and China have caused disruptions. In the negotiations between the EU and China to conclude the Comprehensive Agreement on Investment, the idea of introducing competitive neutrality as a yardstick to evaluate the degree of distortion introduced by SOEs does not appear. It is hard to know if the apparent lack of interest in this concept from China's side reflects the current limited will to implement SOE reform or the lack of straightforward ways to carry out such reform, or even the notion in Chinese policy circles that the concept is too Western for any application to the reality of China's economic system. In any event, whether and how China tackles the uneven playing field in its huge market is important not only for China and the companies operating there but also for the rest of the world.

In this Policy Contribution, we review the concept of competitive neutrality and how it may apply to China. We also provide a workable methodology and apply it to different sectors in China. Finally, we draw conclusions on the relative size and type of distortions and offer some ways forward.



The concept of competitive neutrality is underpinned by the idea that resources need to be used effectively within the economy to achieve growth and development. One of the obstacles to achieving competitive neutrality is policies favouring state-owned enterprises over usually more-efficient private firms.

In 2004, the OECD started the first in-depth discussion on how the role of the government affects the way markets function. The public sector may, through subsidies and skewed government procurement rules, enjoy financial advantages over private firms (OECD, 2004). Competitive neutrality would ensure that private and public enterprises operate under the same rules and conditions and thus compete on an equal footing. If they don't, differences should at least be measured so action can be taken to iron out such differences through appropriate policies (OECD, 2009). The idea should then be formalised into national practices and regulation to ensure the level playing field (OECD, 2012). While the meaning of competitive neutrality is clear, measurement of it is less obvious considering the realities in different countries and access to data (OECD, 2012; UNCTAD, 2014).

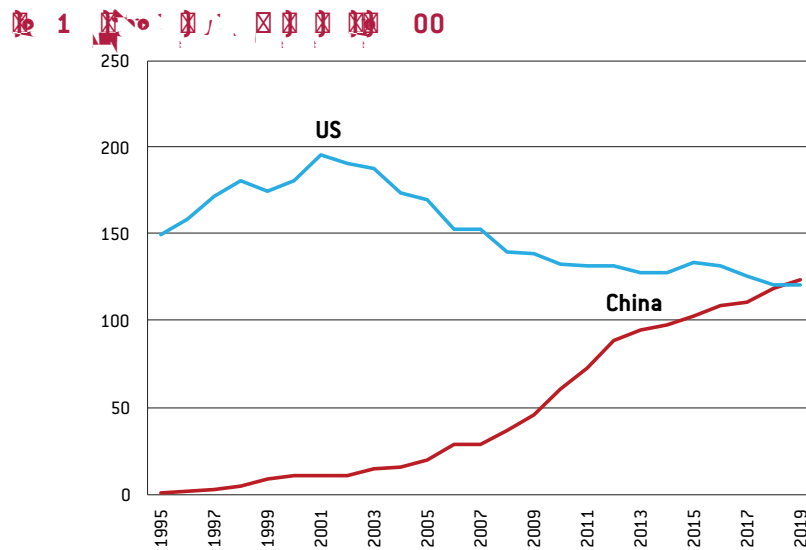
Several countries have taken steps to implement competitive neutrality. A frontrunner is Australia, which underwent a comprehensive reform of the role of the state in the economy in 1990s. Starting from the *Hilmer Report* in 1993, Australia created the environment to inject greater competition into its markets (Commonwealth of Australia, 1993). The framework relied heavily on *ex-ante* components, namely policies governing the operation of state-owned enterprises which gave them an arm's length relationship to government (Brennan, 2019). The key aspects are maintaining neutrality in terms of regulation, debt and tax, while ensuring SOEs achieve commercial rates of return and that loss-making institutions exit the market.

For example, payments should be made to the national treasury as compensation for any regulatory or financial advantages. Australia's Productivity Commission ensures the macro goals are fulfilled through general reporting and communication and the micro targets can be met with flexibility based on sectorial divergence and constraints (Rennie and Lindsay, 2011; Brennan, 2019).

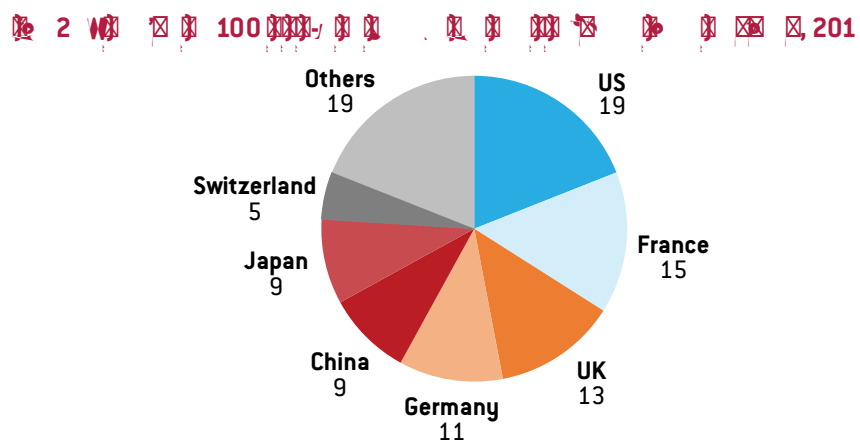
Competitive neutrality is of course different from full-edged privatisation. In Sweden, for example, the government still has significant corporate holdings, but the concept of competitive neutrality is used to ensure equality among companies and the necessary degree of transparency (Östros, 2019).

While progress has been made in the past few decades on competitive neutrality in developed economies, the state share of the production of goods and services continues to be larger in emerging markets and especially those in transition (OECD, 2017; EBRD, 2020). China clearly stands out. Its state-owned enterprises were valued at \$29 trillion and employed some 20 million people in 2017 (OECD, 2017). Given China's sheer size, a move towards competitive neutrality in China would be significant for both its own development and for the world.

China's potential growth has been decelerating for years and this is bound to continue, pushed by an aging population and decelerating productivity. This calls for more-efficient use of resources. SOEs are less productive and less profitable than other firms, which implies that better resource allocation needs to be centred on the way SOEs are run. In other words, the need for SOE reform in China seems clear (Brennan, 2019). Given that Chinese firms are now the largest in the world, dominating the league table of the Fortune 500, reform of Chinese SOEs will be globally important (Figures 1 and 2).

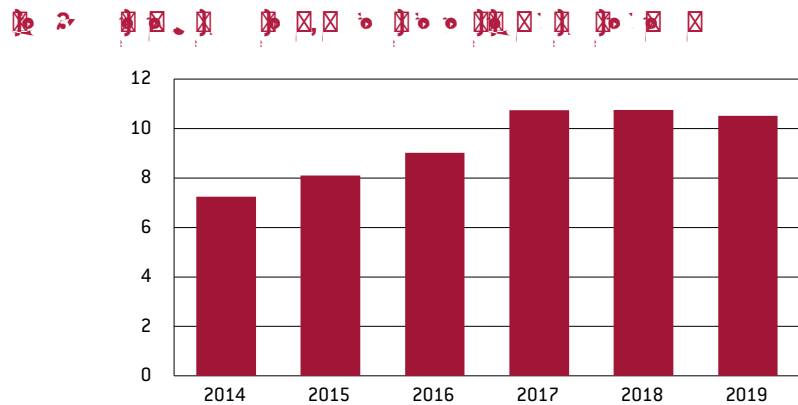


Source: Bruegel.

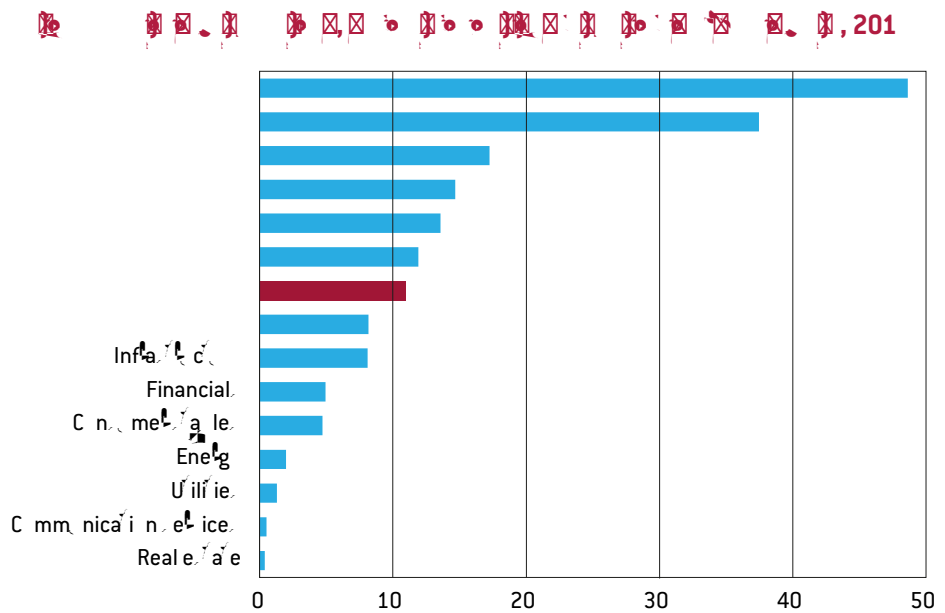


Source: Bruegel based on UNCTAD.

The global importance of pursuing a level playing field in China can be understood from the increasingly large share of the revenues of Chinese companies that come from overseas (Figure 3). From a sectoral perspective, semiconductors and information technology have the largest shares of overseas revenues (Figure 4).



Source: Bruegel based on financial statements, WIND. Note: coverage = largest 3000 Chinese onshore listed companies.



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Furthermore, China’s strategy of ‘dual circulation’, which is central to the new Five Year Plan (2021-2025) emphasises ‘internal circulation’, or local production to achieve self-sufficiency in technology (García Herrero, 2020). At the same time, however, ‘external circulation’, which is focused on exports, should support internal circulation. This signals that China wants to reduce the role of international trade in its economy and strengthen its domestic economy. But this does not mean China will be completely detached from the world. Rather, it equates to a ‘hedged integration’ to protect the economy from external volatility, while benefiting from selling into overseas markets. Therefore, European firms are likely to face tougher competition in China without a level playing field.

Beyond corporate revenue and foreign assets, Chinese firms are also influencing the global competitive environment through outward foreign direct investment, including mergers and acquisitions (M&A). This remains very important for the world even though the

pace of Chinese FDI has slowed down recently partly as a consequence of stricter screening, especially in the west. There is also less appetite from Chinese companies in the context of a plummeting global economy (Figure 5). Europe has long been a popular target for Chinese

concept of competitive neutrality. The concept has two main aspects: first to charge prices that fully reflect costs (or in other words to control for a minimum degree of profitability of SOEs) and, second, to ensure neutrality in terms of tax, debt and regulation (Brennan, 2019). From an international perspective, the IMF (2020) offered general principles to ensure a level playing field between SOEs and private firms. In addition, several international organisations have published guidelines, including the OECD and the World Trade Organisation.

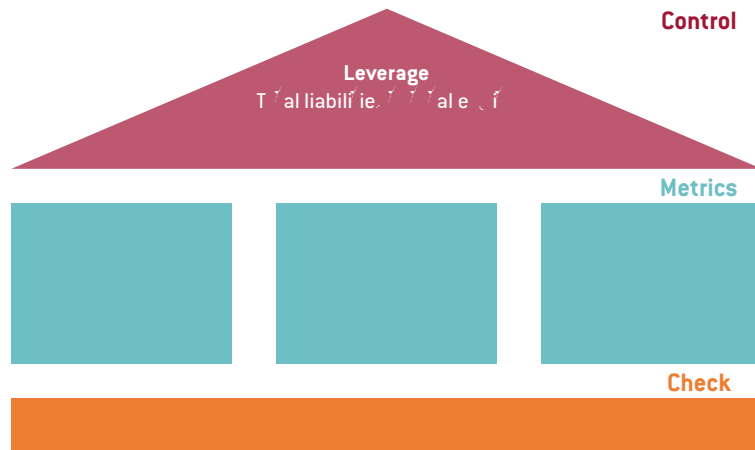
But this still leaves the question of how to measure competitive neutrality. Although the OECD provides guidance for policymakers in terms of creating the level playing field, it does not address a core problem of how to measure and compare competitive neutrality in different countries or sectors. For China, the huge share of loss-making SOEs, low returns on commercial investment and the misallocation of credit are all signs of the lack of competitive neutrality (Lardy, 2019).



We provide a preliminary measure of the lack of competitive neutrality for Chinese SOEs.

There are many ways in which SOEs can gain advantages over private firms. IMF (2019) described competitive neutrality in financing with regulatory neutrality and debt neutrality in a framework which can be further divided into implicit guarantees, equity financing and credit terms. However, it is difficult to quantify the impact of such benefits. SOEs also benefit from government subsidies. Although direct subsidies can be estimated from the financial statements of listed firms, subsidies can also be handed out in various forms in largely state-owned and national strategic sectors. For example, in China the government has subsidised households that switch from coal to gas or electricity, a measure that can indirectly boost revenues for utilities. However, the benefits for companies, especially in the context of interlaced relationships between SOEs and provincial governments, may not be reflected in financial statements. In addition, firms may not be obligated to pay full dividends to state shareholders. That said, subsidies can vary between sectors and exist in different forms, which makes comparison and measurement difficult.

Given the lack of conclusive evidence on the degree of competitive neutrality in the Chinese economy, we developed a data-rich approach to measure monetary and fiscal support given to companies (Figure 7). We used leverage as a control measure to show the divergence in leverage for SOEs and private companies. The three key metrics that are deemed important are regulatory, debt (accrual), and shareholder, it is difficult to quantify and



Source: Bruegel.

On the financial side, the Chinese financial sector is still largely controlled by the state, meaning that banks and other financial institutions also play an important role in the competitive environment companies in China face. Commercial banks are the biggest bondholders in China. As a simple measure of debt neutrality, we calculated how low interest payments may be per unit of debt for a certain SOE compared to a private company within a certain sector.

On tax neutrality, the lack of data on subsidies and other types of benefits prompted us to focus on tax payments, in particular how low the effective tax rate of a certain SOE might be compared to a private company within a certain sector. A generally lower effective tax rate for SOEs is an obvious form of financial support, since it allows companies to retain their earnings and boost returns on assets.

Return on assets is a measurement of the result of the existence or non-existence of comparative neutrality and is an important indicator to assess how efficiently/productively an SOE utilises its resources. If an SOE has received financial support from the government and its profitability is high, it may mean that the support has been well-utilised. The opposite means the government support has not translated into an efficient outcome, which means the subsidies may be better allocated.



We set out to measure whether there is competitive neutrality between SOEs and privately-owned enterprises (POEs) in China. Foreign firms are not included as it is hard to argue they will enjoy competitive neutrality with local firms if it does not even exist for SOEs and POEs. Our sample includes the 3,000 largest listed non-financial Chinese firms by asset size in both the onshore and offshore markets. Asset size is a more solid measure for the real size and importance of companies, as market capitalisation can be volatile and depends on valuation.

The financial sector has a different role in the economy and is beyond the scope of our analysis.

We included not only firms listed on the Shanghai and Shenzhen stock exchanges but



also those listed on overseas venues, including Hong Kong and New York. This extension is essential because some sectors in China, which include huge companies, are heavily dependent on overseas equity financing, such as real estate developers listed in Hong Kong and technology firms listed in the US. Results purely focusing on the onshore market would mean a big part of firms would be neglected.

Our data shows asset size has ballooned for listed Chinese firms, which confirms the trend that Chinese firms are gaining more influence in both the domestic market and foreign markets, including the EU (Figure 8). Although the asset size and the share of assets owned by private firms have increased, it does not necessarily mean there is competitive neutrality (Figure 9). Private firms may have grown quicker than SOEs in terms of asset size leading to improved ability to raise funds from the equity market. But most POEs may still need close connections with government to grow, and might not be treated equally to SOEs.

Figure 8: Total assets of Chinese firms listed in Hong Kong, New York, and Shanghai, 2010-2020 (USD billion)



Source: Bruegel based on financial statements, Bloomberg.

Figure 9: Assets of Chinese firms listed in Hong Kong, New York, and Shanghai, 2010-2020 (% of total assets)



Source: Bruegel based on financial statements, Bloomberg.

Next, we categorised companies by ownership and sectors. While the line between state-owned and private firms can be blurred in China because many firms have close connections with central or local government, we took the classification from WIND<sup>5</sup> from WIND



funding costs, and return on assets by ownership and sector. The leverage ratio is defined as total liabilities over total equity. The effective tax rate is calculated as income tax expense to pre-tax income. The average funding cost is the ratio of interest payments to total debt. We then compared the average of each of the ratios for SOEs and private companies in each sector. Signs of the absence of competitive neutrality are lower effective tax ratios for SOEs and lower funding costs per unit of debt.

In most cases, we calculated an adjusted ratio for POEs excluding real estate. The lack of investment options together with lax mortgage rules have created large property developers in China, generating lucrative returns from quick turnover based on home presales and debt. Such rapid development has helped local governments secure tax revenues from land sales. In other words, while real estate companies are generally POEs (and especially many of the large ones), local governments in particular might consider them strategic, and this skews the overall result.



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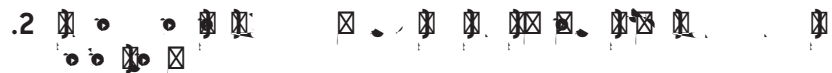
Our results support the view that China's competitive environment is poor, with conditions tending to favour SOEs. On leverage, POEs find it harder to borrow money and the gap with SOEs in this respect widened in 2019 (Figure 12, panel A). In previous years, Chinese regulators became more wary of financial risks and started to deleverage the economy, but progress was paused sometimes because of the need for short-term economic growth. Under this on-and-off deleveraging campaign, the leverage ratio for SOEs remained largely stable at 151 percent in 2019. For the private sector, overall leverage is greater than that of SOEs, but is mainly down to the overwhelming importance of real-estate developers among the largest private companies in China. These real-estate companies are by far the most leveraged across all sectors. When real estate is excluded, the leverage ratio for POEs declined from 108 percent in 2014 to 100 percent in 2019.

As for the cost of funding, the implicit interest rate on the cost of debt is generally higher for POEs than SOEs (Figure 12, panel B). Between 2015 and 2017, funding costs declined sharply for all firms as the government tried to support growth and ease overcapacity problems, but such lax liquidity conditions have not been felt equally by SOEs and POEs. The latter have suffered from widening funding costs compared to SOEs. The reasons for this are the greater difficulty for POEs to access liquidity and the much worse market perception as they cannot count on an implicit guarantee from the government. Even in the most leveraged sector, real estate, private firms still pay more per unit of debt than SOEs.

However, the trend in terms of tax looks different. Real estate developers are being heavily taxed, leading to an increase in the overall tax burden for private firms. If we exclude real estate, the effective tax rate has been consistently lower for private firms than for SOEs (Figure 12, panel C). But the situation has changed since 2018, with POEs starting to pay higher tax rates, closer to the level paid by SOEs.

In addition, the return on assets (ROA) has been higher for private firms than state-owned enterprises until recently (Figure 12, panel D). Part of the reason for this could be the tougher stance towards the real estate sector, but it is also true that the ROA has fallen more sharply for the rest of the private sector. For SOEs, the improvement could be an indicator of a more centralised approach to resource allocation with a stronger focus on SOEs. Decelerating economic growth and geopolitical tensions could have made the Chinese government more convinced of the need to create national champions in different fields.

Source: Bruegel based on financial statements, Bloomberg. Notes: Leverage ratio is computed by dividing total liabilities by total equities. Funding cost = interest expense over total debt.

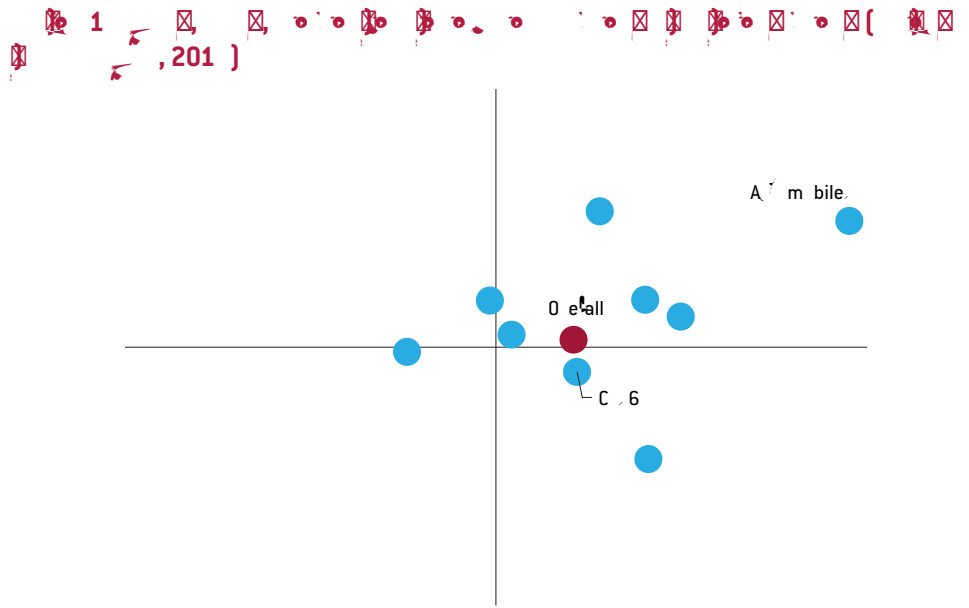


From a sectoral perspective, private firms cannot borrow as much as SOEs in most sectors, as measured by leverage (Figure 13). Real estate continues to be an outlier with an exceptionally high leverage ratio versus state-owned counterparts. However, the situation is worst for renewables, healthcare and ICT – the sectors with relatively high private ownership levels.

In terms of the funding costs and effective tax ratios for different sectors, SOEs tend to pay lower effective (er)-7 (ms of thoT (s)37w(e o)75hip le)-0.9 (v)2.9 (eP21s)1 (it)3 (ua)7 (tion s)7 (t s)-4 (e)11r

of green energy, renewables also seem to benefit from a lower tax expense. All of the three sectors have a relatively high private ownership.

On potentially subsidised cost of funding, SOEs seem to have a clear advantage in all



Source: Bruegel.



Source: Bruegel based on financial statements, Bloomberg.

the lack of competitive neutrality in China has significant consequences for companies operating in the Chinese market but also beyond. One way to look at the global impact is to look





deal, will require much more than China agreeing to import volume targets. The concept of competitive neutrality, which was high on the list of potential solutions at the beginning of the negotiations and is clearly supported by the IMF, may come to the forefront again.



- Östros T. (2019) 'Opening Up and Competitive Neutrality: The Case of Sweden', in G. Kai and A. Schipke (eds) *Opening Up and Competitive Neutrality: The International Experience and Insights for China*, People's Bank of China and International Monetary Fund Seventh Joint Conference
- People's Republic of China (2019) *Government Work Report 2019*, available at <http://www.gov.cn/zhuanti/2019qglh/2019lhfgzbg/index.htm>
- People's Republic of China (2020) 'Communiqué of the Fifth Plenum of the 19th Central Committee of the Chinese Communist Party', available at [http://www.xinhuanet.com/2020-10/29/c\\_1126674147.htm](http://www.xinhuanet.com/2020-10/29/c_1126674147.htm)
- Rennie M. and Lindsay F (2011) 'Competitive Neutrality and State-Owned Enterprises in Australia: Review of Practices and their Relevance for Other Countries', *OECD Corporate Governance Working Papers* No. 4, Organisation for Economic Co-operation and Development
- Silk M. and Ashley J. (2011) 'Understanding China's State Secrecy Laws', *China Business Review*, 1 January, available at <https://www.chinabusinessreview.com/understanding-chinas-state-secrets-laws/>
- UNCTAD (2014) *Competitive neutrality and its application in selected developing countries*, United Nations Conference on Trade and Development
- Zhang C. (2019) 'Mainstreaming the Competitive Neutrality Principle in China: The Way Forward', in G. Kai and A. Schipke (eds) *Opening Up and Competitive Neutrality: The International Experience and Insights for China*, People's Bank of China and International Monetary Fund Seventh Joint Conference