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**Research Report**

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No. 12/2021

# **China's Public Procurement Protectionism and Europe's Response: The Case of Medical Technology**

**By Fredrik Erixon, Anna Guildea, Oscar Guinea and Philipp Lamprecht<sup>1</sup>**

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## EXECUTIVE SUMMARY

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This paper concerns China's market for medical technologies and how the Chinese state is assisting its own companies to gain greater sales at the expense of producers from Europe and other advanced manufacturing economies. The medical technology sector captures a variety of products, services and solutions which are essential to the provision of healthcare to citizens. Examples range from fairly simple technologies such as sticking plasters, to complex ones, such as coronary stents, orthopaedics and pacemakers. In the last decades, Europe's exports of medical devices to China have grown robustly. On the back of vibrant innovation, firms from Europe and elsewhere have not just followed the growth of Chinese demand for medical devices – they have also increased their share of Chinese imports. Now, however, this market is at risk of being gradually closed off for European firms as China doubles down on various policies that advantage local firms, while ultimately harming innovation and Chinese patients.

China has recently introduced a new element in its industrial policy for its medical technology sector – a policy that builds on its long-term 'made-in-China' ambition to have local firms taking up the lion's share of the market for medical devices by 2030. Beijing and provincial governments are using many different policies to provide support to the domestic industry and are in effect pursuing a policy for import substitution. Accessing the Chinese market for medical devices has never been easy but it has become increasingly challenging in recent years. Direct financial support, tax benefits, R&D support, local content requirements, opaque approval

systems and other forms of advantages to domestic MedTech producers are now becoming major sources for the behaviour and development of the Chinese medical device market. China's Fourteenth Five-Year Plan and the country's new economic model of 'dual circulation' reinforces this trend. The Chinese market is becoming less open.

Added to that is centralised state procurement – a new public procurement policy in China that was launched in 2019 for medical devices which has led to a grossly distorted procurement market. While this policy has reduced the price of medical devices in a drastic way, it has also paved the way for Chinese firms to take up a larger market share. This procurement policy is gradually squeezing European firms out of the Chinese market. Competition in China is becoming less fair.

These policies follow a pattern. In several sectors, Chinese firms have grown their domestic market share through industrial subsidies and policies that restrict market access for foreign firms – or make it more difficult for foreign firms to compete in China. From their domestic market, these firms have then expanded abroad and taken a more prominent role outside of China. Backed by the Chinese state, these firms can squeeze market opportunities even more for otherwise-competitive European producers. Now this development is happening in the MedTech sector.

It is urgent for Europe to respond to China's procurement protectionism. MedTech manufacturers in Europe

are often small and medium-sized enterprises, and they already struggle with getting into the Chinese market. China's new procurement policy has also had a significant impact on Chinese imports of medical devices : a 1.3 billion euro trade deficit for China in medical technology products in 2019 turned into a 5.2 billion euro surplus in 2020. In Africa, Asia and Latin America, competitive European manufacturers are now confronted with competition from Chinese MedTech companies that have the backing of the Chinese state. The competitive distortions in the Chinese market now spill over to the global market – making European MedTech manufacturers even more disadvantaged.

Europe should consider a case at the World Trade Organisation (WTO) against China's policies which reduce European market presence for medical devices. Once agreed, a new International Procurement Initiative might be a useful instrument to wield pressure against the Chinese government to agree to free and fair competition. Europe can also negotiate with China – for instance in the framework of the Comprehensive Agreement on Investment (CAI) or through the new initiative on trade and health that Europe proposed to the Ottawa Group in 2020. These responses should focus both on remedying China's current policy for growing its domestic medical technology industry by distorting its market and setting out the core policies and rules that should guide the future market for medical technologies.

## 1. INTRODUCTION

There is now a familiar pattern in China's industrial policy. It begins with policymakers in Beijing identifying sectors and technologies that they believe are important to the country's economic development and security. Leaders then initiate policies – in Beijing and filtering down to provincial governments – to groom a domestic industry that can climb the value chain and challenge globally leading firms. These policies combine subsidies to domestic firms with strategic market restrictions against foreign firms with a large presence in China. Some of these restrictions are overt and explicit. Most of them, however, are opaque and evolve over time.

As a consequence of these distortions, the foreign firms that sell in China gradually see their sales and market shares being reduced and substituted by Chinese firms. Soon these foreign companies also face competition from the same Chinese firms in other countries – and what started as a gradual erosion of market shares in China now leads to a shrinking market share globally. In essence, Chinese firms can grow powerful in the domestic market by competing on terms that are not free and fair. They have access to support that companies from other countries simply do not have. Over time, competition, innovation, and general market dynamism recede.

This process is now happening in the Chinese market for medical technologies. The European Union Chamber of Commerce in China has recently reported that almost two-thirds of European firms that sell medical devices in China are missing out on business because of market restrictions and regulatory barriers.<sup>2</sup> At the centre of current developments in China is an ambitious industrial policy and new policies for centralised state procurement of medical technologies that support Chinese medical technology producers. It is becoming urgent for the European Union to act to avoid lasting damages to European medical technology manufacturers.

Just like other countries, China wants to have a policy for purchasing medical technologies that leads to an efficient use of scarce resources. This is also a central part of Chinese procurement policies and the drive by Beijing to centralise state procurement of medical devices. The strategy is designed to help authorities to save money by reducing the expenditure on various medical supplies. As China continues its economic rise, there will increasingly be competitive and innovative firms from China that are at the frontier of global competition. Moreover, as the country and its state organisations continue their modernisation, there will be changes to

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<sup>2</sup> European Chamber of Commerce in China (2021) European Business in China, Business Confidence Survey 2021. European Chamber.

practices in government purchasing that will drive price reductions and that will better tailor procurement processes to the needs of the procurer and the ultimate beneficiaries – citizens, users, and patients. This is a natural and positive development.

However, China's centralised state procurement – sometimes referred to as volume-based procurement – is not just about pursuing legitimate social welfare goals. In the first place, it is notable that some provinces and the State Council have tied savings from centralised state procurement to increases in salary for staff. In June 2021, for instance, the State Council explicitly made the connection between the saved funds from centralised state procurement and salary reform in public hospitals.<sup>3</sup> More importantly, this new policy is indirectly reinforcing China's industrial policy and allows for a development where state tenders increasingly form part of the goal to have Chinese firms rapidly growing their domestic market shares and use that base to expand abroad. This is particularly the case in the procurement of medical technology goods. Two years ago, China started to pilot a new policy for centralised state procurement of medical devices. After China's State Council had issued the content of this reform in July 2019, a few test cases were done in Jiangsu and Anhui. After a brief pause in early 2020 as China battled its Covid-19 outbreak, many other provinces followed suit in April 2020. In November of the same year, China conducted its first nationwide tender for a medical device, namely coronary stents. More nationwide tenders for medical devices will come in 2021 and 2022, for instance of orthopaedic joints.

The logic behind centralised state procurement is rather straightforward: buy in bulk to lower the price of each individual medical device. In this case, the price that hospitals and other procuring entities would pay for a coronary stent, pacemaker or other medical technology can be reduced if they contract on a high volume of products as a group. In most sectors, suppliers will often be prepared to reduce the price if the contracted volume is higher because a guaranteed and high volume allow a manufacturer to arrange production and distribution in a way that lowers production costs.

Companies with winning bids under centralised state procurement are shortlisted to supply their medical technology to Chinese hospitals. Companies that are not successful in these procurement rounds are out of a significant part of the national market until the next procurement round, which usually happens between one and two years later. This prospect is dire. With minimal opportunities to sell their products in the immediate future, unsuccessful companies may leave the market segment all together as the cost of keeping their after-sales services becomes impossible to justify. Faced with such a decision, some foreign

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<sup>3</sup> State Council (2021, June), "Notification on Key Tasks for Deepening Healthcare Reform in 2021".

companies prefer to bid at a price that barely covers production and servicing costs, rather than losing their sales networks, training infrastructure, and brand reputation.

However, there are obvious problems and dangers when governments organise its procurement in a such highly centralised fashion. One problem – evident in the centralised state tenders that we have seen in recent years in China – is that the procurement authority engineers the tender with the primary focus of driving down the price. When this happens, it is often impossible for companies to participate in the tender without making a loss or without reducing the overall quality of the product and its associated services (e.g. training and education in using the product). When centralised state tenders take little or no account of value, low prices become the only outcome. Obviously, the risk then becomes low-quality products eventually driving out high-quality products. Another problem of centralised state procurement is that the process can be captured by those who want to use procurement to support domestic manufacturers. In contrast to a decentralised system, centralised state purchasing – nationwide or in big provinces and cities – makes it easy and often attractive to pursue such industrial policy goals.

Both of these problems are real in China's centralised state procurement of medical devices. Chinese authorities have achieved the goal of reducing the price – a goal that is legitimate and that China shares with other governments. But the price reductions, going up over 90 percent of the market price, have been extreme and are unsustainable for companies in the long term and undermine innovation in China. Obviously, other motivations than reducing the price have been at play.

This new procurement policy builds on decades of healthcare policy developments in China, and it is a central plank of the Healthy China 2030 blueprint to enhance livelihoods and optimise healthcare systems. It serves as an integrating link between the healthcare ambitions of the government and its equally important plan to move the country's model of economic growth from exports to domestic consumption. In Beijing, the shift to a new model is seen as critical for the country's national security.

In a China that is ageing fast and where the rise in healthcare costs outpace economic growth by a good margin<sup>4</sup>, China has made the crucial decision to position its own industrial development in the slipstream of domestic expenditure growth. Logically, the procurement of medical technology is increasingly seen as an exclusive reserve for Chinese MedTech producers. There has therefore been a constant stream of new announcements and policies in

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<sup>4</sup> Fitch Solutions, *Medical Devices Factbook 2021*, Healthcare Expenditure.

the last years that gradually have made it clear that China intends to reduce its dependence on foreign MedTech manufacturers.

Inspiration for changing the procurement policy for medical technology came from the pharmaceutical sector and previous procurement projects in China to bulk purchase generic medicines.<sup>5</sup> But this is not a model that works well for advanced, patient-centred, and technology-intensive products like medical devices. A sophisticated medical device requires training, education, instrument availability and cleanliness, and other post-sales services. Doctors often select a particular type of product to meet the specific needs of the patient and to obtain the best outcome for that patient. To ensure the quality and safety of healthcare, it is important that the procurement process considers the cost of care and outcomes, and integrates the quality criteria specific to a given product category. If the terms of a centralised state tender leads to a narrow focus on the price of the actual device – and not the services that are required to safely and effectively use a complex device – there will be negative consequences. Significant price reductions might seem like a win in the short term. However, procuring at the lower cost might have a high price tag in the longer term for the healthcare system, especially when it leads to longer hospitalisation, higher readmission rate and longer rehabilitation time – i.e., lower-value medical devices.

The price outcomes of the centralised state tenders point to distortions in the procurement process. In this paper, we will highlight two problems. First, the price reductions that have been achieved would likely not have been as deep without all the various policy instruments in China that have advantaged domestic firms. There is a vibrant industrial policy for China's medical technology sector – and it has grown stronger over time. This year, medical technologies (along with biotechnologies) have received a new embrace by Xi Jinping, Beijing and provincial governments as the Fourteenth Five-year Plan has been outlined in greater detail. Moreover, new resources have been added to the industrial policy for the medical technology sector – not least by Chinese provinces that aim to make themselves central hubs for the development and manufacturing of medical technology goods.

Second, the tenders – suffering in the first place from poor transparency – have not just favoured Chinese suppliers but generally confused the market for medical technology. The nationwide centralised state tender for coronary stents is an instructive example. The tender led to a reduction of the price of stents by over 90 percent.<sup>6</sup> Out of the 20 participating bids, eight companies got chosen. Remarkably, six of them were Chinese. Moreover, only one

<sup>5</sup> Centralised state procurement of generic medicines led to a price reduction – around 50 percent on average that is much less drastic than centralised state procurement of medical technologies.

<sup>6</sup> Xinhua Net (2020, November 5) *China's centralized purchasing leads to a 90 pct drop in price of coronary stents*. Accessed at: [http://www.xinhuanet.com/english/2020-11/05/c\\_139493620.htm](http://www.xinhuanet.com/english/2020-11/05/c_139493620.htm)

company, a Chinese company, received a guaranteed commitment – despite the fact that the model of centralised state procurement is designed to get companies reducing their price in return for a committed volume of sales. The other winning bids received no sales commitment. In the process to get hospitals to actually purchase their medical technology, it has been common that companies have had to include services like education and training that they had cut from the tender bid in order to sufficiently reduce the price to the level indicated by the tender proposal. This is not a policy based on free and fair competition: it is a highly distorted procurement process that sometimes borders on extortion.

China's new policy merits a European response. The result of these policies is that European manufacturers of medical devices are deprived of opportunities to compete and win customers in China – sometimes on a national basis. Many of the MedTech manufacturers in Europe are small and medium-sized enterprises with little capacity to fend for themselves in China.

Furthermore, the market distortions in China do not stay in China. The obvious risk is that the loss of sales and market shares in China will be followed by more competition from state-backed Chinese manufacturers in third markets – something that already has started to happen in regions like Africa, Asia and Latin America. This is also clear in trade data: Chinese exports of medical devices have taken an extraordinary jump during the Covid-19 pandemic, and China's MedTech industry is now in a position to grow its global market share radically as hospitals and healthcare systems in many parts of the world will have to increase expenditures to replace their medical technology. The number of Chinese MedTech companies have grown rapidly since 2019. Notably, China's export growth during the pandemic has not been the strongest in segments that many have read about in media: facemasks and other personal protective equipment (PPE). Exports of medical devices have been booming and the improvement in China's trade balance has been the strongest in some medical devices that also have been subjected to centralised state tenders in the past years (see chapter 2.4). Consequently, it is not surprising that European medical technology companies are fearing an existential threat – similar to the one witnessed in other sectors where Chinese manufacturers, supported by Beijing and provincial governments, have steamrolled foreign competitors at home and abroad. For Beijing, the MedTech sector is now in the bullseye.

In Europe, there are substantial economic interests at risk. Europe's medical technology sector is a high value-added sector that is globally competitive and that generates good economic outcomes for Europe. The sector employs approximately 760,000 people directly in Europe – with 210,000 employees in Germany, 103,000 in the United Kingdom, 94,000 in Italy and 89,000 in France. There are 33,000 MedTech companies in Europe and 95 percent of those are small- and medium sized firms. There is also vibrant innovation in the sector. In 2020,



firms in the MedTech sector were responsible for nearly 14,300 patent applications to the European Patent Office – 38 percent of which came from European firms. Trade with the rest of the world in medical technologies in 2020 generated a trade surplus for Europe of 8.7 billion euros.<sup>7</sup>

There are several actions that the European Commission can take to address the growing concerns that European manufacturers are increasingly squeezed out of China's MedTech procurement market. There are direct actions that can be taken – some remedial, other focused on dialogue and negotiation with China about the future development of the medical technology market. They are the focus of this report. Europe should consider filing a complaint at the World Trade Organisation (WTO) over China's distortive procurement policy and the impairment of previous market access. While there is no obvious instrument that directly could help to remedy the problem, a combination of measures – including both contingent policies, notably the evolving International Procurement Instrument (IPI), and negotiations – would be necessary to achieve two outcomes. First, it is required that actions are employed rapidly to avoid the continued deterioration of market access of European manufacturers arising from distorted procurement policies. Secondly, it is desirable for all sides that the long-term development of the market for medical technology goods continues to be competitive, rewards innovation, and provides patients with access to high-quality medical devices that meet their individual needs.

## 2. INDUSTRIAL AND PROCUREMENT POLICIES IN CHINA

Industrial policy can be broadly defined as a policy agenda that attempts to improve the business environment and alters the industrial structure of a region, with the view of making production more efficient, either through promoting or restricting specific sectors and technologies. In China, the government has considerable influence over its industries and over the past two decades the state has played a significant role in helping some Chinese firms to become globally successful in industries such as pharmaceuticals, solar panels, and machine tools (See Box 1: Chinese Exports and Industrial Policy). As previously discussed, a centralised system of purchasing in China, nationwide or in provinces, helps the government to achieve its industrial policy goals. While this system allows domestic companies to get a head start against other competitors, it could also lead to a distortion of the procurement market.

<sup>7</sup> MedTech Europe (2021, June 21<sup>st</sup>). *The European Medical Technology Industry in figures, 2021*. Accessed at: <https://www.medtecheurope.org/wp-content/uploads/2021/06/the-european-medical-technology-industry-in-figures-2021.pdf>

**BOX 1: CHINESE EXPORTS AND INDUSTRIAL POLICY**

China is the factory of the world, producing and exporting goods worth 2.2 trillion euro, making China not just the world's largest exporter in 2019 but also the largest exporter for one-third of all products<sup>1</sup>. But Chinese companies are no longer producing just low-value added goods such as toys and relatively simple electronic products; nor are they simply assembling parts and components produced in other parts of the world<sup>2</sup>. Chinese firms have entered a variety of markets that require advanced technological knowhow and investments in research and development. This is reflected in China's economic development: the country has made steady progress over the years and is now ranked as the 29th most sophisticated economy in world, ahead of developed economies like Canada, Spain, and Norway<sup>3</sup>. The Chinese economy has climbed the value chain, and R&D intensive sectors such as machinery and computing are taking up a larger share of the country's exports. Chinese companies such as Huawei and ZTE are world leaders in their industries.

Several factors explain China's commercial successes. The country has an ethos of hard work and there are many companies that thrive because of a vibrant entrepreneurial spirit. However, there are also many Chinese companies that get direct support from the Chinese government and can compete successfully because they have access to financial benefits that their global competitors do not have.

For instance, while the majority of the EU's Active Pharmaceutical Ingredients (APIs) are imported from the EU itself, China has become one of Europe's main suppliers of these products. Between 2010 and 2019, Chinese companies gained considerable market share in the EU's purchases of APIs across value and volume, going from 5 percent and 12 percent in 2010 to 7 percent and 22 percent in 2019 of all of the EU's APIs imports from the EU in value and volume terms<sup>4</sup>. Behind the success of growing Chinese exports of pharmaceutical products are policies like China's '4+7' procurement policy (applied to 4 municipalities and 7 provincial cities) which supported China's own generic firms. They have a privileged position in the domestic market and can copy, test and get local permissions for their medicines while multinationals have had to wait years for approval to sell new drugs. Among the top 100 generic drug makers in China, Chinese firms had a 74 percent gross margin and an 18 percent profit margin in third quarter 2018, compared with a global average of 55 percent and 9.5 percent respectively.<sup>5</sup>

<sup>1</sup> Xu, B. (2010). The sophistication of exports: Is China special? *China Economic Review*, 21(3), 482-493.

<sup>2</sup> Sharma, V., & Guinea, O. (2021). Who is Afraid of Global Trade? ECIPE.

<sup>3</sup> Kee, H. L., & Tang, H. (2015). Domestic value added in exports: Theory and firm evidence from China. The World Bank.

<sup>4</sup> Simoes, A. J. G., & Hidalgo, C. A. (2011, August). The economic complexity observatory: An analytical tool for understanding the dynamics of economic development.

<sup>5</sup> Guinea, O., & Espés, A. (2021). International EU27 Pharmaceutical Production, Trade, Dependencies and Vulnerabilities: a Factual Analysis. ECIPE.

Another telling example is solar panels<sup>6</sup>. The market for these products was taken over by Chinese manufacturers which saw their share of global exports increased from 4 percent in 2002 to 42 percent in 2019. Currently, China is the most important global exporter of solar panels, exporting 21 billion euro of these products in 2019. As a result, the Chinese solar panel industry has become an indispensable partner for the decarbonisation of electricity in many developed countries. In 2019, the EU and Japan imported 45 percent and 62 percent, respectively, of their solar panels from China. The Chinese success in this sector did not come from business prowess alone. In its 11th Five Year Plan (2006-2010), the Chinese Government provided subsidies and favourable access to credit in order to help Chinese solar companies to become leaders in the global solar market. In addition to subsidies and credits, the Chinese Government encouraged joint ventures with Western companies and tightened its control over Chinese raw materials that were essential in the production of solar panels. Meanwhile, between 2010 and 2019, EU export of solar panels declined by 63 percent and EU's market share on world exports of this product went from 23 percent to 10 percent. The EU has been fully aware that Chinese subsidies have damaged Europe's solar industry and imposed anti-dumping measures<sup>7</sup>.

This path towards higher value-added and local content has led to Chinese manufacturers exporting goods like machinery and machine tools that were mainly exported by European, American and Japanese companies in the past. For instance, Chinese exports of machinery and equipment<sup>8</sup> in 2019 equalled 227 billion euro and it has increased by 208 billion euro since 2002. Chinese exports of machinery and equipment now represent 17 percent of global exports and China is now the main foreign supplier of these products for many countries, including middle- and high-income countries like the European Union, Australia, and Colombia. Furthermore, government subsidies have been a key ingredient behind the growth in foreign sales in the country's machine industry<sup>9</sup>.

<sup>6</sup>Burton, P. (2019, January 30th) 4+7: China's New Volume-Based Purchasing Policy. Pharma Boardroom. Accessed at: <https://pharmaboardroom.com/articles/4-plus-7-chinas-new-volume-based-purchasing-policy/>

<sup>7</sup>Solar panels were defined as "Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes" which corresponds with 854140 in HS-2002 nomenclature.

<sup>8</sup>European Commission. Trade defence. History of proceeding. Available at: [http://trade.ec.europa.eu/tdi/case\\_history.cfm?init=1895](http://trade.ec.europa.eu/tdi/case_history.cfm?init=1895) ISC Rev 3. Manufacture of Machinery and Equipment N.E.C. Code 29.

<sup>9</sup>Szamosszegi, A., Anderson, C., & Kyle, C. (2009). An Assessment of China's Subsidies to Strategic and Heavyweight Industries. Washington, DC: United States-China Economic and Security Review Commission.

China's 'Made in China 2025' initiative, launched in 2015, aims to turn Chinese firms in high value-added manufacturing into world leaders. In 2020, president Xi Jinping vowed that the government would be doing more to support strategically important sectors – specifically robotics, biomedicine and medical technology.<sup>8</sup> Implied by the name 'Made in China', this initiative puts an emphasis on industrial policy that is preferential to Chinese domestic producers, while often discriminating against foreign manufacturers. China's industrial policy has already been widely criticised for distorting free and fair competition, and the impacts of it can be seen in the shrinking role of the EU in global value chains. While EU trade integration with China is increasing, the EU's external competitiveness has been undermined in several sectors.<sup>9</sup>

In this chapter, we will be examining China's industrial policy for the medical technology sector, which has become central for Beijing in the wake of the Covid-19 pandemic. China's Ministry of Industry and Information Technology (MIIT), as part of China's central government, has for the first time issued strategic ambitions for the medical technology sector<sup>10 11</sup>. We outline in our analysis how Chinese industrial policy in the medical technology sector is increasingly discriminatory, showing a clear preference for domestic firms at the expense of foreign firms. While centralised state procurement is first and foremost a policy to reduce expenditures on medical devices, it is equally obvious that it spills over to industrial policy and becomes one part of a broader package of strategies and policy instruments advancing the domestic Chinese industry. This section illustrates how the tools used to implement this industrial policy by the Chinese government distort pricing and competition, and lead to unfair results for European competitors and exporters.

## 2.2 MEDTECH INDUSTRIAL POLICY IN CHINA

As a result of its rapid economic development and the large size of its economy, the Chinese market of medical technologies doubled its market revenue in 2020 from its value in 2015. With an annual growth rate of nearly 20 percent since the implementation of the 'Made in China 2025' initiative, the industry has constantly outpaced GDP growth. From 2015 to 2020, Chinese imports of medical devices grew at nearly 9 percent a year, outpacing global growth and making the country an increasingly key medical technologies market. In 2019, the Chinese medical equipment market reached 25 billion euro<sup>12</sup>. China is thus increasingly

<sup>8</sup> Xinhua News (2020, March 23<sup>rd</sup>), Xi stresses Covid-19 scientific research during Beijing inspection. <https://www.tsinghua.edu.cn/en/info/1399/9816.htm>

<sup>9</sup> Garcia-Herrero, A. and Martinez Turegano, D. (2020, November 27<sup>th</sup>) *Europe is losing competitiveness in global value chains while China surges*. Bruegel. Accessed at: <https://www.bruegel.org/2020/11/europe-is-losing-competitiveness-in-global-value-chains-while-china-surges/>

<sup>10</sup> Chinese Department of Equipment Industry (2021, February 9<sup>th</sup>) *Public Consultation on the Development Plan for the Medical Equipment Industry*.

<sup>11</sup> Guo Ban Fa (2019, July 19<sup>th</sup>) *Notice of the General Office of the State Council on Issuing Reform Plan on Management of High Value Medical Consumables*. The General Office of the State Council

<sup>12</sup> Fitch Solutions, *Medical Devices Factbook 2021*, Healthcare Expenditure.

becoming a market that foreign manufacturers and governments cannot afford to ignore. However, as was outlined above, the medical technology sector, like most sectors of the Chinese economy, is subject to a distinctive regulatory and competitive environment that is crucial for the evolution of this sector.

In the past decades, European manufacturers have been successful in reaching Chinese customers and maintaining a substantial market share in the country. However, frequent changes to the regulations governing China's medical device market have impacted foreign brands: new policies that have been rolled out by national and local authorities have routinely favoured domestic manufacturers. As mentioned in the introduction, a recent survey by the European Union Chamber of Commerce in China of European companies operating in China showed that 78 percent of respondents in the pharmaceutical sector and 64 percent in the medical devices sector report that they missed out on business opportunities due to market access restrictions or regulatory barriers in 2020. Together with Legal Services, Transportation and Civil Engineering, Medical Devices and Pharmaceuticals belong to the group of worst-affected sectors.<sup>13</sup> Full localisation of the medical device market is still impractical for China as domestic producers are not capable of providing competitive products in many sectors. Moreover, imports from foreign manufacturers play an important role in disseminating new innovations and technology in the industry. However, China's industrial policy already sets a pathway for the country to substitute over time European and other foreign manufacturers to a substantial degree.

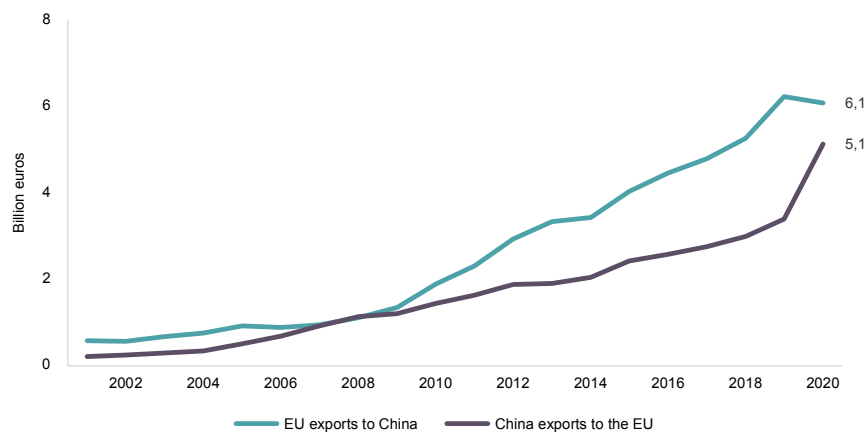
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<sup>13</sup> European Chamber of Commerce in China (2021) *European Business in China, Business Confidence Survey 2021*. European Chamber.

**BOX 2: EU AND CHINESE EXPORTS OF MEDICAL TECHNOLOGIES**

EU firms are global leaders in medical technologies and the main exporters of these goods to China, taking 34 percent of all Chinese imports, followed by US and Japanese firms with 29 percent and 10 percent of Chinese total foreign purchases of medical technologies, respectively. As can be seen in the figure below, China's imports of medical technology from the EU have grown significantly; from 0.6 billion euro in 2001 to 6.1 billion euro in 2020 which represents an average annual increase of 14 percent. This increase in exports occurred in a context of growing Chinese imports of medical technologies, rising from 1.9 billion euro in 2001 to 18 billion euro in 2020. Over time, the EU's market share of Chinese imports of medical technology have been relatively stable, albeit rising from 30 percent in 2000 to 34 percent in 2020.

Figure 1 also shows EU and Chinese exports of medical technology to each other and in total between 2001 and 2020. Like the growth of EU exports to China, Chinese exports of medical technologies to the EU and the world have also increased, particularly between 2019 and 2020 (see chapter 2.4). While Chinese total exports of medical technologies are lower than EU total exports of medical technologies, the data also shows that the EU is an important market for Chinese exports of medical technologies. The EU accounts for 22 percent of all Chinese exports while the EU is less dependent on the Chinese market, which only accounts for 10 percent of EU total exports of medical technologies.

**FIGURE 1. EU AND CHINESE EXPORTS OF MEDICAL TECHNOLOGIES (2002-2020, BILLION EUROS)**

Source: ITC based on UN COMTRADE. ECIPE's calculations.

The difference in Chinese and EU business performance in medical technologies is expressed in their respective Revealed Comparative Advantage (RCA), an index that measures the competitiveness of a country when exporting certain goods. In the case of the EU, its RCA for medical technologies was equal to 1.9 in 2020, which indicates that EU businesses were better at exporting medical technologies than other goods. By contrast, China's RCA was equal to 0.6, which shows that China was better at exporting other goods than medical technologies. During the last decade, the EU RCA in medical technologies has remained stable whilst China's RCAs was stable until 2019, when it started to shift upwards markedly.

In the past, most medical devices produced by Chinese manufacturers were low-cost, high-volume items and international manufacturers supplied Chinese hospitals and other health care facilities with high-end equipment and devices. This dynamic is now rapidly changing and some of this change is a natural reflection of the improved innovation capacity by Chinese firms. In line with its goal of propelling the Chinese economy up the value chain – creating ‘national champions’ and lowering dependence on foreign imports – Beijing has made the development of the country’s biomedical and high-end medical device manufacturing sector a key priority. Already in 2014 President Xi declared that it “is necessary to accelerate localization of high-end medical devices, to decrease production costs and to promote the continuous development of national enterprises”.<sup>14</sup> Now the country is accelerating that ambition.

Several policy areas have been identified by the central government in China to be important for its MedTech industrial policy<sup>15</sup>. Capital equipment appeared to be the initial focus of the country’s strategy. The Chinese government has strengthened support for so-called ‘first of its kind’ devices, which include several types of medical technology. As part of the scheme, provincial governments are to design subsidies to incentivise the development of their local medical device producers and encourage the listing of local companies that can supply medical technology products. Notably, developing manufacturing capacity for key components also emerges as a central plank of the scheme (for instance, components for MRI, CT, life support machines, medical robots, implantation and intervention equipment, among other high-value consumables).

Moreover, the Chinese government has expanded tax benefits for R&D expenses, removing previous restrictions on expenses from overseas R&D activities. Companies can now deduct 100 percent of their R&D expenditures from their tax bill. The government will also refund incrementally retained value-added tax credits for the advanced manufacturing industry in an effort to encourage equipment updates and technology investment. Moreover, to reduce borrowing costs, the People’s Bank of China has focussed its lending activity into high-tech manufacturing<sup>16</sup>. The overall aim of these policies is to support innovation by domestic manufacturers.

As recently as April 2021, the Chinese government published its new medical technology five-year plan (2021-2025), outlining the goal to make at least six Chinese companies to be among the leading 50 medical device companies globally (currently there are four Chinese companies in the top 100, none of which are in the top 50).<sup>17</sup> The plan also calls for develop-

<sup>14</sup> China’s Central Government (2014, May 26), “Xi Jinping: People can’t afford high-end medical equipment and we need to speed up localization”. <http://www.nhc.gov.cn/xcs/wzbd/201405/4fb04cb812c243bc9befdfa8bfaf56c7.shtml>

<sup>15</sup> Guo Ban Fa (2019, July 19<sup>th</sup>) “Notice of the General Office of the State Council on Issuing Reform Plan on Management of High Value Medical Consumables. The General Office of the State Council.”

<sup>16</sup> Chinese lending data shows shift toward high-tech manufacturing. August 23, 2021. Inside Washington Publishers.

<sup>17</sup> Chinese Department of Equipment Industry (2021, February 9<sup>th</sup>) *Public Consultation on the Development Plan for the Medical Equipment Industry*.

ing higher-value medical devices, encouraging Chinese manufacturers to step into fields such as radiotherapy and ultrasound, magnetic resonance, dialysis machines or pacemakers and cardio-vascular stents. To achieve these goals, the central government expects Chinese local governments to set favourable fiscal, financial, and taxation policies<sup>18</sup>.

There are also other strategies and policies being used by the Chinese government that have the effect of promoting the domestic MedTech industry. Importantly, in May 2021 the Chinese Ministry of Finance and the Ministry for Industry and Information Technology issued a joint notice that establishes local content requirements for 315 specific products.<sup>19</sup> 178 of these products are medical technology goods – and 137 goods of these are required to have 100 percent local content. Even if it remains somewhat unclear what these requirements mean in practice, this is a remarkable ambition that can knock out all imports of certain categories of medical devices, such as x-ray machines, MRI equipment and products for renal replacement therapies. The notice does not include specific instructions for implementation, but it has been distributed as reference to province-level governments. Moreover, it follows on some previous province-level ‘buy China’ policies and is a harbinger of China’s direction in MedTech procurement policy.

Yet another stream of strategies that seems to favour domestic producers at the expense of international manufacturers is the ‘dual circulation’ model of China – an attempt to make the country more dependent on the domestic circulation of goods and less dependent on the international circulation of products. Medical equipment is part and parcel of that strategy. In the five-year plan for the MedTech sector from the Ministry of Industry and Information Technology, the Chinese government lays out its ambition for a “new development pattern marked by the domestic cycle as the main body and the mutual reinforcing of both the domestic and international cycles thus built” and says that the government “must promote the high-quality development of the medical equipment industry”.<sup>20</sup> President Xi echoed these ambitions in a speech in the Great Hall of the People in May 2021, saying that the government must “accelerate the breakthrough of a number (i.e., batch) of key core technologies in the fields of medicines, medical devices, medical equipment, vaccines, etc”.<sup>21</sup> Figure 2 highlights the Chinese strategies and policies which are currently at play to build up and promote the Chinese medical technology sector.

<sup>18</sup> Ye, S. (2021, May 26), China Releases Its 2025 Vision For The Medtech Sector – May 2021 Update. Pharma Intelligence. Accessed at: <https://medtech-pharmaintelligence.informa.com/MT143977/China-Releases-Its-2025-Vision-For-The-Medtech-Sector-May-2021-Update>

<sup>19</sup> Ministry of Finance and Ministry of Industry and Information Technology (2021, May 14), “Notice regarding the publication of Auditing Guidelines for Government Procurement of Imported Products”. Memorandum No. 551.

<sup>20</sup> China’s Ministry of Industry and Information Technology (2021, February 9) *Public Consultation on the Development Plan for the Medical Equipment Industry 2021-2025*.

<sup>21</sup> Zichen Wang (2021, June 8), “Xi Jinping’s Speech on Science and Technology June 8”, Pekingology. <https://pekingology.substack.com/p/xi-jinpings-speech-on-science-and>



**FIGURE 2: STRATEGIES AND POLICIES FOR STATE INTERVENTION IN CHINA'S MEDICAL TECHNOLOGY SECTOR**

<b>Tax Benefits</b>	Tax deduction for R&D Expenses from 75-100 percent	Central government to refund incremental retained value-added tax credit	Accelerated depreciation of fixed assets	Weighted pre-tax deduction on R&D expenses
<b>National R&amp;D Funding Projects</b>	Central government to allocate funding to specific projects			
<b>Incentives for 'First of its Kind' devices</b>	Insurance subsidies	R&D Funding	Industry investment fund	
<b>Reimbursement &amp; Subsidies for R&amp;D Investments</b>	Central fiscal funding to reimburse 50 percent of project budget on projects aim to commercialise and industrialise science & tech			
<b>Favourable lending</b>	Government re-directing investment from the property sector towards high-tech manufacturing			
<b>Volume-based Procurement</b>	Government conduct tender for product selection and price negotiation with purchase volume commitment	Hospitals execute tender results.		
<b>Local Content Requirements</b>	'Buy China' requirements in a handful of provinces.	Memorandum from MOF and MIIT covering local content requirements for 178 medical technology goods.		
<b>'Dual circulation'</b>	Fourteenth Five-year Plan, laying out the ambition to rely more on the 'domestic circulation' of goods and connection the 'international circulation' of goods to it.	MIIT five-year plan for medical equipment, integrating the concept of 'dual circulation'		

There is also a strong focus on using public procurement to achieve industrial ambitions in medical technology. McKinsey, the consultancy,<sup>22</sup> highlights the increasing prevalence of aggressive volume-based procurement, or centralised state procurement, in China’s medical technology strategy. In the lead-up to 2020, public procurement had made it to the top of the agenda of China’s policy leaders – and the consequences of new procurement policies led many to wonder if established business models were still sustainable (See Box 4: Outcomes of the Recent Chinese Procurement in Medical Technologies). Nine regions had piloted tenders – implemented at both city and province level – while 16 had ongoing or announced tenders. The average price cuts brought about by the tenders were steep, with many product categories having price cuts between 50 and 60 percent (and some up to 80 percent). A host of products were affected, from orthopaedic implants and cardiovascular stents – the latter experiencing a dramatic 90 percent reduction in prices on a national basis<sup>23</sup> – to infusion sets and intravascular catheters. Furthermore, throughout 2020 several official institutions within the central government announced intentions for more comprehensive implementation of centralised procurement.

The language used throughout documents and plans pertaining to the Chinese government procurement is clearly suggestive of preferential support for domestic firms in public purchases as a tool for industrial policy. For example, “through comprehensive use of fiscal, taxation, financial and other means, guide local governments, social resources, etc. to support the medicine-industry collaboration on tackling key obstacles in developing high-end medical equipment, key parts and components”.<sup>24</sup> Premier Li Keqiang, speaking at a State Council meeting on centralised state procurement in medical devices and pharmaceuticals, called in early 2021 for a “concentration” of the market – or to “use centralized procurement to make the consumables industry more concentrated as it relates to competition”.<sup>25</sup>

The ‘Made in China 2025’ initiative itself calls for top Chinese hospitals to be using 50 percent more domestically produced medical devices by 2020 and 95 percent more by 2030. There are well over 30,000 hospitals in China, the vast majority of which are owned by the state. A number of Chinese provinces and municipalities have gone so far as to redirect medical device purchasing to national manufacturers. Provinces such as Sichuan, Zhejiang and Jiangxi – representing a combined population of 184 million, which equals the com-

<sup>22</sup> Chen, S et al. (2020, May 7<sup>th</sup>) *How COVID-19 is reshaping China’s MedTech industry*. McKinsey and Company. Accessed at: <https://www.mckinsey.com/featured-insights/china/how-covid-19-is-reshaping-chinas-medtech-industry>

<sup>23</sup> Deloitte (2021, March 1<sup>st</sup>) *China’s fast-growing medical device market presents huge opportunities for foreign firms*. Deloitte. Accessed at: <https://www2.deloitte.com/cn/en/pages/life-sciences-and-healthcare/articles/pr-chinese-medical-device-industry-whitepaper.html>

<sup>24</sup> Chinese Department of Equipment Industry (2021, February 9<sup>th</sup>) *Public Consultation on the Development Plan for the Medical Equipment Industry*.

<sup>25</sup> Zhou Chencheng (2021, January 16), “State Council: To promote the normalization and institutionalization of centralized drug procurement, public medical institutions should participate in centralized procurement to promote the concentration of the drug and consumable industries in competition”. [http://www.gov.cn/zhengce/2021-01/16/content\\_5580457.htm](http://www.gov.cn/zhengce/2021-01/16/content_5580457.htm)

bined population of Germany, Italy and Spain – have now passed legislation that compels middle and higher-tier health care institutions to purchase certain types of equipment from domestic manufacturers.<sup>26</sup> Multinationals in the medical technology sector have reported that even when their products are listed for use, their domestic counterparts eventually win contracts because of cheaper prices and stronger government connections.

The Guangdong Provincial Healthcare Security Administration admitted as much in a letter to the Guangdong Provincial People’s Congress. It said: “in formulating the rules for the centralised procurement of medical consumables in our province, [we will] implement the same group bidding policy for domestic medical consumables and imported medical consumables to enhance the price advantage of domestic medical consumables and increase the chance of domestic medical consumables being selected.”<sup>27</sup>

Shanghai is also expanding its ambition to become a global hub for the development and manufacturing of medical technologies. Following the five-year plan for emergent industries by the Shanghai Municipal People’s Government, this ambition is directly connected to the general ambition to substitute imports of foreign medical technologies by Chinese products. This plan “calls for developing a number of local innovative enterprises to achieve indigenous control of core technologies and new biomedical products by 2025, focusing on developing high-end medical device and equipment including surgical robots and biomedical materials.”<sup>28</sup>

Similar ambitions have been established in the five-year plans of other provincial governments. The Guangdong provincial government has said in its plan that it aims to “leverage on preferential government policies” to reinforce the strength of its MedTech industry.<sup>29</sup> Hainan and Shandong have similar plans. The Beijing municipal government has also laid out its plan for cultivating a group of medical equipment manufacturers and build up new industrial parks.<sup>30</sup>

<sup>26</sup> Wang, W. et al (2021, July) *The Healthcare Market in China*. EUSME Centre in partnership with China-Britain Business Council. Accessed at: <https://www.eusmecentre.org.cn/report/healthcare-market-china-2021-update>

<sup>27</sup> Healthcare Security Administration of Guangdong Province (2021, April 26), “Letter from the Guangdong Provincial Medical Security Bureau on the suggestion of co-organization by the representative No. 1116 of the Fourth Session of the Thirteenth People’s Congress of Guangdong Province”. [http://hsa.gd.gov.cn/ygzwpt/jggk/content/post\\_3278501.html](http://hsa.gd.gov.cn/ygzwpt/jggk/content/post_3278501.html)

<sup>28</sup> General Office of the Shanghai Municipal People’s Government (2021, June 24), “Fourteenth Five-Year Plan for the Development of Strategic Emerging Industries and Leading Industries in Shanghai”. <https://www.shanghai.gov.cn/nw12344/20210721/d684ff525ead40d8a2dfa51e541a14e4.html>

<sup>29</sup> The People’s Government of the Guangdong Province (2021, July 30), “Notice of the 14th Five-Year Plan for high-quality development”. [http://www.gd.gov.cn/zwgk/wjk/qbwj/yf/content/post\\_3458462.html](http://www.gd.gov.cn/zwgk/wjk/qbwj/yf/content/post_3458462.html)

<sup>30</sup> The People’s Government of the Beijing Municipality (2021, August 18), “Notice of the Beijing Municipal People’s Government on Printing and Distributing the Beijing’s Fourteenth Five-Year Plan, High-precision Industry Development Plan”. [http://www.beijing.gov.cn/zhengce/zhengcefagui/202108/t20210818\\_2471375.html](http://www.beijing.gov.cn/zhengce/zhengcefagui/202108/t20210818_2471375.html)

**BOX 3: CHINESE DISCRIMINATORY REGULATIONS IN MEDICAL TECHNOLOGIES**

Most of China’s regulatory policies were not explicitly created to discriminate against firms from the EU and other countries, but have the effect of substantially impairing market access<sup>1</sup>. Obstacles such as local clinical trial requirements mandate EU and other foreign companies to conduct or duplicate in-China clinical trials<sup>2</sup>. In addition, China mandates that foreign companies that are requesting approval from the regulator must first have an approval in the country of origin (in the case of the EU, obtaining the CE mark), which delays the process of getting a new product to the market. Delays can take up to several years and cost millions of euros per device. Since the innovation cycle for many medical devices is typically under two-years, companies may no longer manufacture that product by the time they receive the Chinese approval. Also, Chinese companies can use these delays to develop their own products and capture market share.

Similarly, investment regulations are vague, including the definition of “Chinese” investment. Thus, even if EU firms invest in China and try to become “local”, Chinese agencies do not appear to consider them to be “Chinese” enough to receive favourable treatment.

<sup>1</sup> European Council on Foreign Relations (2021, April) Home Advantage: How China’s protected market threatens Europe’s economic power. ECFR. Accessed at: <https://ecfr.eu/publication/home-advantage-how-chinas-protected-market-threatens-europes-economic-power/>

<sup>2</sup> Wang, K. (2021, March 19<sup>th</sup>) China Unveils New Medical Device Regulations. Lexology. Accessed at: <https://www.lexology.com/library/detail.aspx?g=a1c050d2-7f9b-44d4-8267-46992679331e>

**2.3 MEDTECH PROCUREMENT – POLICIES AND CENTRALISED STATE PROCUREMENT**

Before the outbreak of Covid-19, several Chinese provinces had taken the first steps toward realizing Beijing’s ambitions through procurement policies that preference domestic manufacturers over foreign imports. In 2018, state hospitals in the Sichuan province, with a population almost as big as Germany, were required to procure domestically produced devices in 15 product categories or risk losing out on lucrative state-insurance reimbursements. In 2019, provinces and major cities across China released a series of increasingly restrictive procurement policies. The Ningxia province was first to release a notice requiring state hospitals to justify any foreign medical device imports with a lengthy audit. Suzhou and Tianjin, major economic hubs with a combined population of 26.34 million, soon followed suit with identical notices. The Shandong province, with a GDP almost as large as Spain, limited all device imports to only 488 items, mainly high-tech diagnostic devices not produced in China. The Zhejiang province soon after limited state hospital imports to 232 items. These restrictive policies are a double-edged sword. They benefit China’s medical device industry by insulating it from foreign competition while also forcing hospitals to expend resources searching for products which, in some cases, may be of lesser quality than foreign alternatives.<sup>31</sup>

<sup>31</sup> Asia Unbound (2019, December 3<sup>rd</sup>) *Protected at Home, China’s Medical Device Industry Looks Abroad*. Council on Foreign Relations. Accessed at: <https://www.cfr.org/blog/protected-home-chinas-medical-device-industry-looks-abroad>

**BOX 4: OUTCOMES OF THE RECENT CHINESE PROCUREMENT IN MEDICAL TECHNOLOGIES**

Centralised state procurement of medical technologies has been implemented in five provinces since 2019, with over 10 other provinces planning to follow in the same direction. There are currently three forms of centralised state procurement being conducted:

- **City-level or cross-cities alliance procurement:** initiated and organized by city government and executed within the city/cities in scope. Over 15 city-level and cross-cities alliance tenders have been completed so far across five provinces.
- **Provincial-level procurement:** initiated and organized by the provincial government and executed province-wide. Six centralised provincial state tenders have been completed so far across five provinces.
- **Cross-provinces alliance procurement:** initiated and organized by one provincial government and executed within all provinces in the alliance – leading to nationwide centralised state procurement. One cross-provinces alliance tender has been completed so far across nine provinces: Beijing, Tianjin, Hebei, Heilongjiang, Jilin, Liaoning, Inner Mongolia, Shanxi, and Shandong.

Launch Phase (2019)	Provincial procurement (July 2019)	First Cross-Provinces Alliance (May 2020)	2nd Phase Country full roll-out VBP (2020)	First Nationwide Centralised Procurement (July 2020)
Centralised state procurement explored as local trails at city-level, varied across regions.	Conducted at provincial-level to a higher standard; refined and standardized.	North-Alliance procurement led by Tianjin	Provincial centralised procurement implemented to majority of provinces with trend towards cross-province alliances.	State Council announced the first nationwide centralised state procurement of coronary stents.
			City-level centralised procurement to become of less importance.	More nationwide tenders for medical devices will come in 2021 and 2022.

Average Price Reductions by Product Arising from China's Centralised State Procurement Rounds	
Coronary Stents	95%
Orthopaedics	55%
Intraocular Lens	41%
Pacemaker	50%
Nursing Consumables	~80-90%

While province-level centralized state procurement is better organized than city-level procurement, both suffer from procedures that are inconsistent with good tendering practices – for instance, tendering practices that meet the EU’s so-called MEAT criteria (most economically advantageous tender) but not by solely focusing on the lowest price. Regardless of provincial or city-level procurement, with all the various policies that now guide authorities involved in centralised state procurement – including a threshold for local market shares applied for qualification, and aggressive price reduction demand for low-volume products – new and innovative products will most likely find it more difficult to qualify or win over time. Tendering rules are not transparent and well-informed, and the rationale behind the price reduction is not properly explained. Unlike the centralised state procurement for drugs, there is no universal quality consistency evaluation in place to categorize and assess medical technologies; thus, product assessment is highly dependent on local policy and expert evaluation.

The use of public procurement as an industrial strategy by the Chinese government is likely to present the medical technology industry with significant challenges. Obviously, there are risks of considerable reallocations of market shares just because of changes in procurement policy, and in some market segments this is already under way. Take cardiac stents: Chinese companies already have over 80 percent of its domestic market. It was a Chinese company – MicroPort – that was the largest winner in the 2020 nationwide state tender. These domestic companies also get financial support from various levels of governments in China. For instance, MicroPort received at least 2.75 million euros (21 million renminbi) in subsidies from the Shanghai city government in 2019 alone.<sup>32</sup> Other Chinese MedTech companies also receive various forms of government support – only a fraction of which is known to the public. These companies are, as a result, growing and becoming better positioned to compete with multinational corporations. They are also winning Chinese tenders (see Figure 3).

<sup>32</sup> MicroPort (2019, February 19) *Three Subsidiaries of MicroPort Awarded the Title of 2018 Shanghai Municipality Specialised, Refined, Characteristic and Novel Small and Medium-Size Enterprise*. MicroPort. Accessed at: <https://microport.com/news/three-subsidiaries-microport-awarded-the-title-shanghai-municipality-specialized-refined-characteristic-and-novel-small-and-medium-size-enterprise>

**FIGURE 3: SUBSIDIES TO SELECTED CHINESE COMPANIES\***

Domestic Chinese Company	Subsidies Received (2017-2021) in euro	Province-level Centralised Tenders Won
Beijing Chunlizhengda Medical Instruments <sup>33</sup>	10.2 million	Shandong, Anhui, Zhejiang, Fujian (hip implants); Anhui and Fujian (knee implants)
Venus MedTech <sup>34</sup>	1.5 million	Jiangsu (vascular interventional devices)
Double Medical <sup>35</sup>	6.7 million	Fujian (knee implants)
Weigao Orthopedic Device <sup>36</sup>	1 million	Shandong, Qinghai, Anhui, Zhejiang, Fujian (hip implants); Qinghai, Fujian (knee implants)
Lifetech Scientific <sup>37</sup>	5.1 million	Shandong (pacemaker)

\*These are just examples of subsidies to Chinese firms that have won tenders.

Questions have been raised in China about the aggressive pursuit of price reductions. In some cases, it has been unclear if smaller companies that have won tenders actually could supply the demanded volumes, and if their product quality and product services could meet clinical needs. As a result, the central government has asked bidders in some recent tenders to supply letters guaranteeing that they will be able to supply the volume they potentially could win.

However, this problem also comes from the actual policy design and cannot easily be addressed by letters. Unlike centralised state procurement in the pharmaceutical sector<sup>38</sup>, where winners have been guaranteed a promised procurement quantity, there is no guaranteed sales for the winning bidders in the centralised state procurement for medical technologies. It has been the case in some tenders that the winning bidder with the lowest price was guaranteed a volume of

<sup>33</sup> For extensive documentation on subsidies received, please consult WUYIGE Certified Public Accountants LLP, Beijing Chunlizhengda Medical Instruments Co., Ltd. Audit Report, [https://pdf.dfcfw.com/pdf/H2\\_AN202012221442694901\\_1.pdf](https://pdf.dfcfw.com/pdf/H2_AN202012221442694901_1.pdf); Beijing Chunlizhengda Medical Instruments Co., Ltd., 2017 Annual Report, [https://files.services/files/339/2018/0430/20180430170405\\_11426618\\_tc.pdf](https://files.services/files/339/2018/0430/20180430170405_11426618_tc.pdf)

<sup>34</sup> For extensive documentation of subsidies received, please consult Venus MedTech, Global Sales, <http://www.venusmedtech.com/documents/files/prospectus/c101.pdf>

<sup>35</sup> Extensive documentation on subsidies received can be found here: Double Medical, 2019 Announcement on Obtaining Government Subsidies, <http://www.szse.cn/disclosure/listed/bulletinDetail/index.html?bfad1002-2ed6-4d68-a818-adb25055278c>; Double Medical, 2018 Announcement on Obtaining Government Subsidies, <http://www.szse.cn/disclosure/listed/bulletinDetail/index.html?70f91b8f-cb39-42cf-9553-1feb4064d10b>

<sup>36</sup> See for instance Weihai Huancui District Government, Decision on Amending the “Huancui District Supporting Opinions on Encouraging the Development of Leading Enterprises”, [http://www.huancui.gov.cn/art/2020/5/25/art\\_64242\\_2482906.html](http://www.huancui.gov.cn/art/2020/5/25/art_64242_2482906.html). For an extensive list of subsidies received, see Prospectus of Shandong Weigao Orthopaedic Device Co., Ltd., Initial Public Offering of Shares and Listing on the Science and Technology Innovation Board, [http://pdf.dfcfw.com/pdf/H2\\_AN202009301418437247\\_1.pdf](http://pdf.dfcfw.com/pdf/H2_AN202009301418437247_1.pdf)

<sup>37</sup> See Sciping, Summary of the National Key Research and Development Plan projects as of November 13 2019, <https://www.sciping.com/22501.html>; Lifetech Scientific, Independent Innovation Demonstrates Value: Lifetech is Approved for Two National Key R&D Projects, <http://www.lifetechmed.com/news/n1/20190102/2225.aspx>; Lifetech Scientific, Lifetech Scientific company history, [http://www.lifetechmed.com/r\\_d/187.aspx](http://www.lifetechmed.com/r_d/187.aspx); Sina Finance, Lifetech Receives a Subsidy of 42 Million RMB for New Production Line, <http://finance.sina.com.cn/stock/hkstock/ggscyd/20140717/083419728364.shtml?from=wap>; Shenzhen Municipal Bureau of Industry and Information Technology, Notice of the Municipal Bureau of Industry and Information Technology on Issuing the 2021 Industrial Internet Development Support Plan Funding Projects, [http://www.sz.gov.cn/cn/xxgk/zfxxgj/tzgg/content/post\\_8614726.html](http://www.sz.gov.cn/cn/xxgk/zfxxgj/tzgg/content/post_8614726.html); Xueqiu, Report of Shenzhen Longhua District Science and Technology Innovation Bureau subsidy for Biotyx Medical, <https://xueqiu.com/7732429874/154767015>

<sup>38</sup> Eversana (2021, March 10<sup>th</sup>) *China Lays Out Path Forward for Volume-Based Procurement, Tendering*. Eversana. Accessed at: <https://www.eversana.com/2021/03/10/china-lays-out-path-forward-for-volume-based-procurement-tendering/>

sales, but the fact that most bidders will not know what volumes they are bidding for seriously affects their capacity to provide price and supply plans that are fully reliable.

Another complicating factor is that medical technologies – unlike generic pharmaceuticals – are not just a good. After-sales services, regular product testing and education for medical staff are central and indispensable services that need to accompany the actual medical technology good. This is costly and substantially reduces the potential for cutting expenditures by contracting on a high volume. The risk is rather that aggressive price cuts will ultimately affect the quality of the good and the service, and that – over time – it will make it harder for Chinese patients to get access to innovative medical technologies<sup>39</sup>.

Obviously, there is significant international concern that centralised state procurement by the Chinese government of medical technology will distort pricing and competition, and gradually will make it harder for non-Chinese manufacturers to access the Chinese market. The price pressures in the achieved rounds of centralised state procurement have been extraordinarily high, leading to price cuts that were far bigger than expected – and that cannot be supported or encouraged on market terms<sup>40</sup> (See Box 4: Outcomes of the Recent Chinese Procurement in Medical Technologies). It does not require much imagination to see how procurement processes get distorted to encourage higher take-ups by local firms. In other words, an important unwritten objective of Chinese procurement practices such as the programme for centralised state procurement is not about lowering prices for Chinese consumers but to support Chinese producers in the medical technology industry.

By design, these procurement practices hurt the chances of European manufacturers to access China's procurement market. China's market for medical technology and consumables is growing fast and Chinese manufacturers accounted for 6 percent of the global market in medical technology in 2020. Moreover, the Chinese medical sector is expanding rapidly abroad, supplying countries not just with the medical goods needed during the outbreaks of Covid-19 but also other medical technologies. Using government procurement as an industrial policy tool is a well-known routine in the Chinese policy-tool kit. The Chinese government has followed a similar path in other industries (See Box 1: Chinese Exports and Industrial Policy).

<sup>39</sup> IQVIA (September 2020) Presentation for the Virtual MedTech Conference: Overview of Volume Based Procurement in China

<sup>40</sup> Boston Healthcare (2019, September) *Medical Disposables and Consumables Players Face Challenge of Government-Initiated Price Cuts in China*. Boston Healthcare. Accessed at: <https://www.bostonhealthcare.com/medical-disposables-consumables-players-face-challenge-of-government-initiated-price-cuts-in-china/>



## 2.4 COVID-19 AND CHINA'S RISE IN MEDICAL TECHNOLOGY

There has been a significant growth in China's medical technology activity during the Covid-19 pandemic – an indication about the development of the market that is to come after the pandemic. Between 2019 and 2020, the number of Chinese MedTech manufacturers jumped by 46 percent.<sup>41</sup> Chinese exports of medical goods also increased dramatically in 2020.<sup>42</sup> This increase was not only due to larger sales of personal protective equipment like gowns, face-masks, and gloves but also because of an increase in exports of other medical technologies, which went from 18 billion euro in 2019 to 23 billion euro in 2020. The growth in Chinese exports of medical technology happened worldwide. Africa, Asia, and Latin America and the Caribbean saw their imports of Chinese medical technology between 2019 and 2020 grow by 26 percent, 29 percent and 46 percent respectively. China's growing exports of medical technology was also visible in the US and the EU where Chinese imports grew by 16 percent and 51 percent, respectively. Meanwhile, EU exports of medical technologies to these countries in 2020 grew at a much slower pace than Chinese exports; EU exports to Asia and Latin America in 2020 were even lower than in 2019 (See Annex, Table 1 for full data).

**TABLE 1: CHINESE AND EU EXPORTS OF MEDICAL TECHNOLOGIES TO AFRICA, ASIA, AND LATIN AMERICA AND THE CARIBBEAN (2019 AND 2020 IN BILLION EUROS, AND ANNUAL CHANGE IN PERCENTAGE)**

		Africa			Asia			Latin America and the Caribbean		
		2019	2020	%	2019	2020	%	2019	2020	%
Medical Technology	EU exports	2.5	2.6	5%	19.9	19.6	-2%	3.0	2.9	-5%
	China exports	0.7	0.8	26%	5.8	7.5	29%	1.1	1.6	46%

Source: ITC based on UN COMTRADE. ECIPE's calculations.

Part of this export success was due to the Covid-19 pandemic: China's medical technology sector has increased its production of medical goods substantially in 2020. Among the products that boosted China's exports of medical technology were oxygen therapy equipment such as artificial respiration and ventilators whose exports grew by a factor of three and five between 2019 and 2020. Astonishingly, China's global market share for oxygen therapy equipment went from 10 percent in 2019 to 22 percent in 2020. There were several other products that showed remarkable growth in exports and that lead China to take a substantial part of the

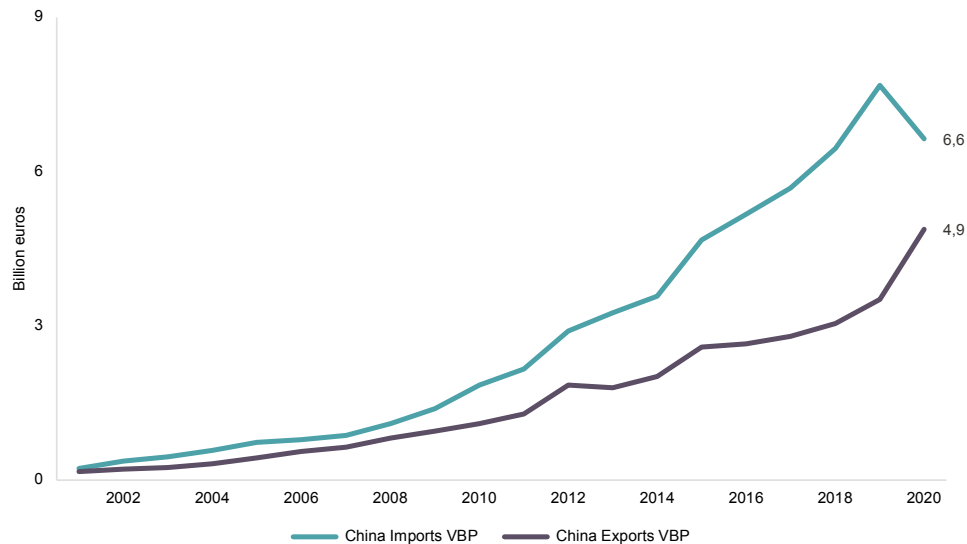
<sup>41</sup> China's Department of Comprehensive and Planning Finance (2020) *National Medical Products Administration State Drug Administration Information Document*. Accessed at: <http://www.gov.cn/xinwen/2021-05/14/5606276/files/4b0aa9334e8d42b985e0672dbf633ad9.pdf>

<sup>42</sup> The trade data in this section comes from the Trade Map Database of the International Trade Centre.

global trade, like electro-diagnostic tools, radiation apparatus and dental implants. For example, in 2020 the Chinese medical technology industry provided close to one-third of all dental equipment like drills, rotating chairs, and X-rays machines imported by Latin America and the Caribbean countries, more than one of every four electro-diagnostic tools like electro-cardiographs and resonance machines in Africa, and one-tenth of CT scanners in Asia. China is of course also a large importer of medical technology. However, China's trade balance in medical technology – the difference between exports and imports of medical technology goods – has changed very fast. It went from a deficit of 1.3 billion euro in 2019 to a surplus of 5.2 billion euro in 2020.

It is important to pay closer attention to what has happened in Chinese imports. As previously noted in Figure 1, Chinese imports of medical technology goods from the EU have declined in the past year. Chinese imports from some other countries such as the United States or Switzerland show a similar trend. What is equally remarkable, if not more, is that the fall in Chinese imports of medical technology can especially be observed in the medical technologies that went through centralised state procurement. Products like syringes, needles, and catheters, artificial joints, and pacemakers have experienced a steady fall in their annual growth of imports since 2015. In 2020, it turned negative (see Figure 4). At the same time, Chinese total exports of these products between 2015 and 2020 showed positive growth. These figures indicate that Chinese companies are not only substituting foreign goods for domestic production but they are also gaining market shares abroad (as it can be seen in Table 1 when comparing Chinese and EU exports of medical technologies between 2019 and 2020). This is, for instance, the case of Chinese manufacturers of pacemakers that, whilst representing a small share of global sales, saw their global exports between 2015 and 2020 grow by 110 percent while sales of foreign manufacturers of pacemakers to China increased by just 2 percent during the same period.

**FIGURE 4: CHINESE GLOBAL TRADE BALANCE FOR MEDICAL TECHNOLOGY GOODS SUBJECT TO CENTRALISED STATE PROCUREMENT (2001-2020, BILLION EUROS)**



Source: ITC based on UN COMTRADE. ECIPE's calculations.

MedTech companies in other parts of the world have faced a different reality. Like many sectors, the Covid-19 pandemic hit the medical devices sector hard. However, the restrictions and challenges raised by the pandemic have forced medical device manufacturers to think in new ways, creating growth opportunities for the sector. In Western Europe, the medical device market is on track to recover from the COVID-19 pandemic by 2023, when it will return to its pre-pandemic path of growth.<sup>43</sup> In China, however, it is not just the recovery that has been faster: its market for medical devices is predicted to continue to grow significantly faster than in Europe, the United States and other major economies. The compound annual growth of Chinese expenditure on healthcare between 2015 and 2020 was close to 10 percent while the same figures for the EU and the US were significantly lower at 3.4 percent and 4.5 percent respectively<sup>44</sup> Meanwhile, according to Deloitte, China now accounts for 20 percent of the global medical device market, and this fast-growing industry is expected to continue on an upward trajectory, supported by multiple drivers such as an aging population, rising incomes, and Chinese procurement practices in medical device tender.<sup>45</sup>

<sup>43</sup> Daniel, B. (2021, March 31<sup>st</sup>) *Impact of COVID-19 on Elective Procedures in Western Europe, 2020-2023*. ReportLinker. Accessed at: <https://www.globenewswire.com/hi/news-release/2021/03/31/2202632/0/en/Impact-of-COVID-19-on-Elective-Procedures-in-Western-Europe-2020-2023.html>

<sup>44</sup> Fitch Solutions, *Medical Devices Factbook 2021*, Healthcare Expenditure.

<sup>45</sup> Deloitte (2021, March 1<sup>st</sup>) *China's fast-growing medical device market presents huge opportunities for foreign firms*. Deloitte. Accessed at: <https://www2.deloitte.com/cn/en/pages/life-sciences-and-healthcare/articles/pr-chinese-medical-device-industry-whitepaper.html>

Even if it is difficult to find reliable figures for China's share of the global medical device market, it is clear that Chinese medical technology manufacturers have expanded considerably during the pandemic and that they have been growing rapidly in sectors that are not related to the treatment of Covid-19. This expansion builds on increasing efforts over several years by the Chinese government to build healthcare partnerships with countries in Africa, Asia and Latin America – often with components of Chinese bilateral development aid. China's development support is anchored in key initiatives like the Health Silk Road, the Belt and Road Initiative and Forum on China-Africa Cooperation and includes the donation of medicines and medical equipment. In recent years, China has also made investments in healthcare education and training, and supported new healthcare facilities such as the Kenyatta University Teaching, Research and Referral Hospital in Kenya. Gradually, the Chinese government has raised its presence in foreign healthcare markets. It has also been successful in making use of healthcare contracts through international organisations like the World Bank. While the World Bank prioritises to give contracts to local suppliers, Chinese suppliers have supplied and fulfilled 989 contracts in recent years – despite the number of contracts in China only being 444.<sup>46</sup>

While it is to be expected that the global market for medical technology will increasingly feature Chinese firms, it is notable that Chinese industrial policy and procurement policies have depressed Chinese imports from Europe and other countries. But it is not surprising. China's advances in its own medical technology market – and in the global market – have been advertised in central industrial strategies by Beijing. The government has put financial resources behind these strategies, and if the country continues on its current path of centralised state tenders, Chinese firms will be given an even stronger basis to compete globally in the post-pandemic healthcare technology market.

## 2.5 CONCLUDING COMMENTS

Since the launch of centralised state procurement in China's market for medical devices, some important lessons have been learned about the practical and real consequences of this model of government purchasing.

The first lesson, already discussed above, is that the price reductions have been extreme. There is a reason for this. Technically, these unprecedented price reductions have been achieved through bids from Chinese and foreign manufacturers that have offered a price vastly below past procurement prices. Some Chinese manufacturers have participated in previous procurements by hospitals but something has changed over recent times that has

<sup>46</sup> Data retrieved from <https://finances.worldbank.org/Procurement/Major-Contract-Awards/kdui-wcs3>

allowed them to now set the tone for the procurement results. A key change is of course the efforts made by Beijing to roll out centralised state procurement. The methodology of this new procurement policy entails that bidders can offer a lower price if they can sell more goods. While there is a limit to the price reduction that can be achieved in medical technologies by contracting on high volumes, the theory is that the price will be a factor of the quantity sold. There is some truth in this, but it cannot – by far – explain the levels of price reductions announced in the procurement results. It is obvious that other factors are at play. One such factor is favouritism of Chinese companies in the tenders – the outlined policy that Chinese firms should increase their combined market share by 95 percent until 2030.<sup>47</sup> Another factor is the acceleration in China’s industrial policy for the medical technology sector, which allows Chinese firms to compete by dropping prices below levels that is sustainable by market terms.

A second lesson, drawn from province-level tenders, is that winning companies rarely will be guaranteed sales at a certain volume – despite the fact that volume commitment is the philosophy that guides this procurement policy. This is highly problematic since the price that bidders have agreed to sell at is based on the notion that they are guaranteed substantial sales and thus can arrange production and cost accordingly. If they cannot sell the expected quantity – or not even near the expected quantity – the procurement process has created not just an artificial price but also an artificial market. Companies have been asked to bid for a market that in reality does not exist.

Such practices violate basic norms of good procurement policy. Participating companies are forced into a situation where it is profoundly unclear what product and services that should be offered and on what terms. Chinese procurement authorities know that foreign manufacturers will have to make a tender bid if they are to have significant sales in China – a process reinforced by recent indications by Chinese authorities that the centralised state procurement in the future also could include the private hospitals market. But the market they tender for changes when they have to include additional services to hospitals.

A third lesson is that, while there are differences between the tenders by provincial governments and the central government in Beijing, the expansion from provincial to nationwide procurement impairs the medical technology market. The process is coordinated: after the initial provincial tender, there has been a stream of other provincial tenders – finally, in the case of coronary stents, leading to a nationwide tender. The price changed during the progression from provinces to nationwide tenders: the biggest price reduction in the various

<sup>47</sup> Medical Product Outsourcing (2020, August 28) *Localisation Strategy Key to Competing in Chinese MedTech Market*. Medical Product Outsourcing Magazine. Accessed at: [https://www.mpo-mag.com/contents/view\\_breaking-news/2020-02-28/localization-strategy-key-to-competing-in-chinese-medtech-market/](https://www.mpo-mag.com/contents/view_breaking-news/2020-02-28/localization-strategy-key-to-competing-in-chinese-medtech-market/)

procurements of coronary stents was achieved in the final nationwide tender. The same evolution is expected for other medical technologies, including pacemakers and orthopaedic implants that are due to be subject to new nationwide tenders.

The development from provincial to national tenders makes it imperative for companies to participate from day one in the first provincial tenders. If not, they risk getting cut out of the market. Companies that do not bid for a first provincial tender because the indicated price reduction is too big will find that the next province-level tenders, and the national tender, will ask for even bigger price reductions. Getting into the list of winning bidders for the first provincial tender, even if it means selling at an unsustainably low price, is the only way to take part in the market.

Moreover, since the design of centralised state procurement rounds may require bidding products to exceed a threshold of market share to even be considered, any product that is new or out of the market for any appreciable time may be disqualified by design. This renders formerly existing products (and manufacturers, if they had only a single product in the market) unable to compete for future business, further strengthening the position of manufacturers that have won previous bids, which are often Chinese.

Additionally, because nationwide tenders have primacy over the provincial tenders, this can cause problems even for those companies that win provincial tenders. Companies that win provincial tenders rely on those committed volumes to set production levels and, to some extent, product cost. Therefore, the volumes and prices around which companies have planned production schedules are further upset when the terms of a national tender supplant the provincial tender. This puts companies in an even more precarious position.

The result of all this is, firstly, a highly unpredictable market. It is legitimate that the Chinese government and procuring provincial entities want to establish a procurement procedure that allows for strong price competition. After all, that will lead to better-value-for-money for the Chinese state. But for the process to be transparent and fair, the procuring entity needs to offer predictable terms and not actively reduce market-based competition in which companies can offer their goods and services in accordance with the market. In every competitive sector and market, there is not one price for an item that can apply for every buyer. Not only is there natural price variation – the actual cost for producing and delivering a service depends crucially on when, how, where and exactly what should be delivered.

But there is a more fundamental concern. The way that the new policy for centralised state procurement has been designed and has evolved over time, points clearly to a type of market

that is taking on a monopsonic character. Unlike a monopoly, where the seller has dominant market power, a monopsonic market means that the buyer has so much power that it can dictate the market terms. When the state – and, in this case, the central state – practically makes itself the only buyer or only price setter and pursues extreme price reductions, it can easily set the conditions of price and quantity for sellers’ participation in the market.

A monopsonic market easily lead to abusive behaviour by the buyer. Such abuse is already at display in China’s MedTech market and examples of it include exactly the concerns that have been covered in this chapter. Procuring authorities in China have pursued extreme price reductions – effectively demanding that manufacturers of medical technologies should price their products in such a way that the margin gets captured by the buyer. Other political objectives have taken a hold in procurement practices. For instance, price reductions in medical technologies have been tied to increases in hospital staff salaries and thus become part of a strategy to improve job satisfaction. In strategies and policies by both the central government and the provincial leadership, centralised state procurement has been explicitly referenced as a mechanism to gradually squeeze out foreign MedTech manufacturers to make space for domestic producers. These are the consequences of a market that is increasingly taking a monopsonic form.

Other countries, too, have MedTech policies that tilt in the direction of monopsony, but they are often alert to the fact that a monopsonic buyer can destroy the market and take away incentives for innovation and improving value for patients. Therefore, they strive to establish a price that is fair and reflects the desire to promote innovation, competition and dynamism – or, at least, a price that is not based on forcing it as low as possible. They make sure that manufacturers have an interest to stay in the market. The danger with monopsony is that it will collapse the future market by making it less attractive for companies to innovate and compete.

### **3. WHAT CAN EUROPE DO? POLICY OPTIONS GOING FORWARD**

It is urgent for the European Union to respond to the discrimination and mistreatment of European medical technology firms in China. China’s industrial policy for the sector and the practices used in the country’s centralised state procurement clearly breach basic principles and norms of international exchange, and how governments should behave to avoid a distortion of competition. It is equally obvious that these procurement practices – along with domestic support schemes – have been tailored to encourage a larger market share for Chinese firms. European firms are clearly damaged by these practices: they are pushed to cut prices artificially low and end up in contractual situations that are unfair and highly unpredictable. On current trend, they are at risk of losing significant market shares in China only because they are not allowed to compete fairly. The consequences of these practices are also spilling over the border: European firms now face competition from state-backed Chinese companies in third markets.

A first step is obviously to consider bringing a case to the World Trade Organisation (WTO). China is not a member of the plurilateral Government Procurement Agreement (GPA) – and, so far, its market access offers to join the GPA have not been satisfactory. However, the GPA is not the only possible basis for a legal complaint over China’s procurement policy in medical technology. A complaint would start from the observation that China’s policy violates core WTO principles such as national treatment and non-discrimination: it is obvious that these principles are not adequately applied in China’s policy for centralised state procurement. Moreover, since they have applied in the past – leading to significant growth in China’s imports of medical technology goods from Europe – the European Union can build up a case that can show that market access opportunities provided by China in its accession to the WTO have been impaired and are at risk of getting nullified. Through the WTO, the EU has negotiated with China and has expectations that market access will remain. When market access has been substantially impaired, trade-restrictive measures can be actionable even if they are consistent with WTO commitments.

Europe can also act more directly – using new policy instruments and current frameworks of negotiations to improve the terms of market access for European exporters of medical technology goods. In this chapter, we will present a menu of actions that the European Commission can take to – in the first place – protect the norms of free and fair competition in government procurement and, more generally, encourage the development of better procurement practices in China. These actions are not mutually exclusive. On the contrary, they could – and should – be pursued simultaneously.

### 3.1 FOREIGN SUBSIDY INSTRUMENT AND COUNTERVAILING DUTIES

Generally, European policymakers are already aware that Chinese commercial practices are a significant problem to free and fair competition, and have decided to act on multiple fronts. In May 2021, the Commission proposed a new instrument to address potential distortive effects of foreign subsidies in the single market. Under the proposed regulation, the Commission will have the power to investigate financial contributions granted by public authorities of a non-EU country which benefit companies engaging in an economic activity in the EU and redress their distortive effects. The regulation proposes the introduction of three tools: two notification-based and one general market investigation tool. It also includes a range of structural and behavioural remedies, such as the divestment of certain assets or the prohibition of a certain market behaviour. In case of notified transactions, the Commission will also have the power to prohibit the subsidised acquisition or the award of the public procurement contract to the subsidised bidder.<sup>48</sup>

<sup>48</sup> Killick, J. et al (2021) *The European Commission adopts far-reaching proposals to control foreign subsidies*. White and Case. Accessed at: <https://www.whitecase.com/publications/alert/european-commission-adopts-far-reaching-proposals-control-foreign-subsidies>



The new tool is designed to effectively tackle foreign subsidies that cause distortions and harm the level playing field in the single market. It is also a key element to deliver on the updated EU Industrial Strategy, also adopted in May 2021, by promoting a fair and competitive single market.<sup>49</sup> As outlined in the updated Industrial Strategy, the European Commission has conducted an analysis identifying 137 products in sensitive ecosystems where the EU is “highly dependent”. Many of these products are in the health ecosystem and the list includes several healthcare goods. The analysis also shows that more than half of the imports of these highly dependent products come from China.<sup>50</sup>

Furthermore, the Commission published the Implementing Regulation 2020/776 in June 2020, which imposes definitive countervailing duties (CVD) on imports of certain woven and/or stitched glass fibre fabrics originating in China and Egypt. In recent years the Commission has conducted a number of anti-subsidy investigations concerning imports from China. The new countervailing duties extend the boundaries of the EU anti-subsidy regime, as this is the first time that the Commission has imposed countervailing duties on imports from the country that provided the subsidy (China), and also on imports from another country where the subsidies in question were put in place (Egypt).<sup>51</sup>

While the specifics of the new Foreign Subsidy Instrument remain unclear (the measure is currently discussed in the Council and the Parliament with the view of making this instrument effective by 2023), it is important that the EU can defend its market from distortive competition – in this case from Chinese manufacturers of medical technology goods that have improved their competitiveness by accessing support from the Chinese government.

### 3.2 INTERNATIONAL PROCUREMENT INSTRUMENT

Another basis for action for the European Union starts with the proposed International Procurement Instrument (IPI), designed to level the playing field in government procurement. The IPI was originally proposed by the Commission in 2012. After several rounds of revisions, and in June 2021, EU ambassadors agreed on a mandate for negotiations with the European Parliament on a regulation to create the IPI. The next step is now for the European Parliament to adopt its position and start trialogue negotiations with the

<sup>49</sup> European Commission (2021) *Commission proposes new Regulation to address distortions caused by foreign subsidies in the single market*. European Commission. Accessed at: [https://ec.europa.eu/commission/presscorner/detail/en/ip\\_21\\_1982](https://ec.europa.eu/commission/presscorner/detail/en/ip_21_1982)

<sup>50</sup> European Commission (2021) *Updating the 2020 New Industrial Strategy: Building a stronger Single Market for Europe's recovery*. Accessed at: <https://ec.europa.eu/info/sites/default/files/communication-new-industrial-strategy.pdf>

<sup>51</sup> Gibson Dunn (2020) *European Commission Imposes Countervailing Duties on imports from Egypt and subsidies provided by China*. Gibson Dunn. Accessed at: <https://www.gibsondunn.com/european-commission-imposes-countervailing-duties-on-imports-from-egypt-for-subsidies-provided-by-china/>

Commission and the Council.<sup>52</sup> The treatment of European firms in China's medical technology sector is exactly the type of problem that the IPI aims to remedy.

The basic mechanism of the IPI is that the EU could restrict access to its procurement market for companies, goods or services coming from countries where EU companies face restrictive or discriminatory measures. This action would depend on whether Chinese purchasing practices are strictly government procurement, as the WTO or the IPI would define it. It would not directly remedy the problems that European companies face in China. However, by threatening to restrict access for China's medical technology sales in Europe – which are already substantial – the IPI could motivate China to play by the rules in its domestic market.

European manufacturers need that assistance. Even large multinationals in the sector do not have the capacity to influence a foreign government that distorts market access. And in Europe's MedTech sector, the vast majority of companies are small and medium-sized enterprise with even less capacity to present their cases and defend their rights with a foreign government. They rarely have political access and do not know how to navigate the opaque systems of public procurement in China. Equally important, the medical technology sector in Europe is internationally competitive and falling market shares in China will affect output, revenues and jobs in Europe.

The EU public procurement market represents 2.4 trillion euro and is one of the largest and most accessible in the world.<sup>53</sup> The EU has opened its public procurement markets to a significant degree to competitors from third countries. However, access to procurement markets in some other large economies is often a challenge for EU companies, which only win a small fraction (10 billion euro) of the global 8 trillion euro procurement market per year.<sup>54</sup> The restrictions preventing more exports affect competitive EU sectors such as construction, public transport, medical devices, power generation and pharmaceuticals.

Obviously, China is a particular concern. There is no transparent and comprehensive information on the procurement market in China. Nor is China bound by the Government Procurement Agreement in the World Trade Organisation. Most of the procurement in China is conducted by State Owned Enterprises.<sup>55</sup> In fact, European companies are often prohibited from participating in public tenders in China.

<sup>52</sup> See: <https://www.consilium.europa.eu/en/press/press-releases/2021/06/02/trade-council-agrees-its-negotiating-mandate-on-the-international-procurement-instrument/>

<sup>53</sup> European Commission (2019) *International Procurement Instrument Trade Document*. Accessed at: [https://trade.ec.europa.eu/doclib/docs/2019/march/tradoc\\_157728.pdf](https://trade.ec.europa.eu/doclib/docs/2019/march/tradoc_157728.pdf)

<sup>54</sup> Ibid.

<sup>55</sup> Ibid.

The IPI is an instrument that could close access to Europe’s public procurement market if another country is not willing to allow European firms to compete on free and fair terms. As such, it is not an instrument to negotiate access to a foreign procurement market but it is obvious that the instrument will be used to put pressure on another government to open up their markets and offer good and transparent terms for competition. Procurement of medical technologies is a good case. China’s procurement practices fit with the purpose of the IPI and it also concerns a sector in Europe that needs EU support.

In contrast to some other procurement sectors, China’s medical technology sector has been comparatively open in the past. When European firms have been allowed to compete freely and fairly, they have been successful – which is why Europe represents a significant part of China’s imports of medical devices. Chinese hospitals and providers of healthcare have needed foreign medical technologies to offer good healthcare to patients. Therefore, the policies pursued in China now withdraw current market access and reduce sales – which motivate urgent attention in Europe.

### **3.3 EU-CHINA COMPREHENSIVE AGREEMENT ON INVESTMENT**

Improving the conditions for public procurement is one area where EU negotiators could deliver value for several EU member states. It is a critical issue for the European Union’s trade strategy and has rightly been prioritised in many recent trade negotiations.

Late last year, the EU and China reached an agreement in principle about the Comprehensive Agreement on Investment (CAI) – a negotiation that started already in January 2014. However, the politics of ratifying the CAI in Europe has become complicated, to say the least. In May 2021, the European Parliament passed a resolution to freeze ratification of the CAI in response to Chinese sanctions on European human rights advocates and Members of the European Parliament. This has called the future of the CAI into question.

However, criticism of the agreement had already been strong before the sanctions were announced. The agreement would provide some benefits for MedTech exporters like protecting and opening up investment in private healthcare to a degree. But the problem for the CAI, and the ratification of it, is that there are too few provisions in the agreement that have positive material consequences for European trade with and investment in China. There is very little in the agreement that will affect the competitive situation for European firms in China who are seeing their market shares or even sales shrinking because of distorted competition. Notably, the agreement did not establish any new rights for openness and fair competition in China’s

public procurement in areas where European firms are now getting unfairly treated. For CAI to stand a chance to ever become approved, it is necessary that the agreement improves.

It has been clear since 2014 that the agreement would address problems with market access. The EU's specific objectives were to provide for new market-access opportunities and address key challenges in China's regulatory environment, including those related to transparency, licensing and authorisation procedures. It aimed to establish guarantees regarding the treatment of EU investors in China, including protection against unfair and inequitable treatment, unlawful discrimination and unhindered transfer of capital and payments linked to an investment.

For example, this also included protection of investors and their market access in areas such as medical technology.<sup>56</sup> In medical technology, there are firms across Europe participating in the value and supply chain, and it is a sizeable sector. China is also an exporter of goods to Europe's procurement market and it participates in the value chain of many important public procurement goods. Hence, China has an interest to defend. And if Europe moves ahead with the IPI instrument it is highly likely that Chinese exports to public buyers will become main targets for the instrument – just as a major part of all trade defence actions in the past 20 years have concerned actions on Chinese exports. A negotiated solution would be better than a tit-for-tat development of market closures in government procurement.

There are still negotiations to be done within the framework of the CAI and providing better rules for Europe's manufacturers in China's medical technology market would be very valuable – both for Europe and China.

### **3.4 NEGOTIATING BETTER MULTILATERAL AND PLURILATERAL RULES**

A third action point for the EU is to redouble its efforts to get better international rules on trade in healthcare goods and services – and to structure the agreement to make it difficult for China to remain outside of any new global rules on healthcare-related trade. These may include rulings on documentation issues and fair market issues, along with articles within the WTO's investment agreement pertaining to the prevention of foreign investors from being able to participate in certain markets.

This is a heavy task. China, for instance, is not a part of the WTO's Agreement of Government Procurement, despite its clear commitment to join the GPA in its accession agreement

<sup>56</sup> Koty, A.C. (2021, May 27) *European Parliament Votes to Freeze the EU-China Comprehensive Agreement on Investment*. China Briefing. Accessed at: <https://www.china-briefing.com/news/european-parliament-votes-to-freeze-the-eu-china-comprehensive-agreement-on-investment/>

to the WTO. China has made several proposals<sup>57</sup> but none of them have been adequate, signalling that there is currently no real desire on the part of China to join the GPA. Thus, it is necessary to look at other avenues that could be used to address the issue of distorted procurement markets.

The Trade-Related Investment Measures (TRIMs) Agreement applies only to measures that affect trade in goods. It recognises that certain measures can restrict and distort trade that is connected to investments, and states that no member shall apply any measure that discriminates against foreigners or foreign products (i.e. violates “national treatment” principles in the WTO).<sup>58</sup> Key articles of importance include, for example, the TRIMs Agreement Article 5, part 5<sup>59</sup> on establishing TRIM measures to a new investment and TRIMs Agreement Article 6, part 3<sup>60</sup> on requests for information. Distortions in government procurement are not directly a TRIMs issue. However, sometimes this is the case and changes in the effective access to a procurement market are detrimental to those that had made an investment. Generally, clarifying these TRIMs provisions would be useful.

A more tailored option for the EU is to continue its work on a specific accord on trade and health – an issue that clearly has been given more importance during the Covid-19 pandemic. The EU has already tabled a first proposal to the Ottawa Group, the Trade and Health Initiative.<sup>61</sup> It calls for an agreement that improves cooperation and works toward enhanced global rules to facilitate trade in essential medical goods. In May 2021, a declaration on trade and health, backed by 20 delegations, was discussed in the WTO General Council. Among other topics, many WTO members agreed on the importance of overcoming barriers to the delivery of vaccines and stressed the importance of recovery from the health crisis for the 12th WTO Ministerial Conference later this year.<sup>62</sup> It is important that the WTO members agree to work towards an agreement that has a high level of ambition, i.e. an agreement that is not limited

<sup>57</sup> World Trade Organisation (2019 October 23) *China submits revised offer for joining government procurement pact*. Accessed at: [https://www.wto.org/english/news\\_e/news19\\_e/gpro\\_23oct19\\_e.htm](https://www.wto.org/english/news_e/news19_e/gpro_23oct19_e.htm)

<sup>58</sup> World Trade Organisation (n.d) *Agreement on Trade-Related Investment Measures (TRIMs)*. Accessed at: [https://www.wto.org/english/tratop\\_e/invest\\_e/trims\\_e.htm](https://www.wto.org/english/tratop_e/invest_e/trims_e.htm)

<sup>59</sup> TRIMs Agreement Article 5, part 5 states: “Notwithstanding the provisions of Article 2, a Member, in order not to disadvantage established enterprises which are subject to a TRIM notified under paragraph 1, may apply during the transition period the same TRIM to a new investment (i) where the products of such investment are like products to those of the established enterprises, and (ii) where necessary to avoid distorting the conditions of competition between the new investment and the established enterprises. Any TRIM so applied to a new investment shall be notified to the Council for Trade in Goods. The terms of such a TRIM shall be equivalent in their competitive effect to those applicable to the established enterprises, and it shall be terminated at the same time.” See: WTO, Agreement of Trade-Related Investment Measures: [https://www.wto.org/english/docs\\_e/legal\\_e/18-trims.pdf](https://www.wto.org/english/docs_e/legal_e/18-trims.pdf)

<sup>60</sup> TRIMs Agreement Article 6, part 3 reads as follows: “Each Member shall accord sympathetic consideration to requests for information, and afford adequate opportunity for consultation, on any matter arising from this Agreement raised by another Member. In conformity with Article X of GATT 1994 no Member is required to disclose information the disclosure of which would impede law enforcement or otherwise be contrary to the public interest or would prejudice the legitimate commercial interests of particular enterprises, public or private.” See: WTO, Agreement of Trade-Related Investment Measures: [https://www.wto.org/english/docs\\_e/legal\\_e/18-trims.pdf](https://www.wto.org/english/docs_e/legal_e/18-trims.pdf)

<sup>61</sup> European Commission, 23<sup>rd</sup> November 2020, Ottawa Group proposes a global Trade and Health Initiative: <https://trade.ec.europa.eu/doclib/press/index.cfm?id=2215&title=Ottawa-Group-proposes-a-global-Trade-and-Health-Initiative>

<sup>62</sup> WTO, 6<sup>th</sup> May 2021, Trade and public health, fish subsidies and LDC concerns in General Council spotlight: [https://www.wto.org/english/news\\_e/news21\\_e/gc\\_06may21\\_e.htm](https://www.wto.org/english/news_e/news21_e/gc_06may21_e.htm)

to apply only under emergency circumstances but that would be a real game changer for trade and market access in healthcare products.

According to the Commission's concept paper on the initiative<sup>63</sup>, the Covid-19 pandemic led to substantial new public purchases of essential goods when stockpiles held in national reserves were insufficient. As such, it proposes that parties should envisage joint tenders acting as a group of countries or regions, with the aim of addressing the supply needs in a most effective and coordinated manner. In this context, the Commission proposes the relaxation of national rules as regards public procurement and acceptance of foreign bidders should be considered.

In essence, there should be value placed on eliminating existing domestic preference measures for procuring essential goods, including direct market access restrictions for foreign companies, domestic price preferences and local content requirements. It would also be favourable to refrain from introducing any new measures imposing such discriminatory requirements for procurement of essential goods, and to ensure transparency of public procurement procedures.

The initiative already goes some way to address specific concerns related to China's centralised state procurement practices – especially on issues like poor transparency and distorted prices. These practices in China also have ripple effects for the global market, and this makes it even more important to seek improved rules for trade in and government procurement of healthcare goods.

### 3.5 ESTABLISHING A SECTOR DIALOGUE

A final action would be for the EU to engage in a deeper dialogue with China about improving the market for medical technologies and avoid a scenario where actions and counter-actions with many different government instruments ultimately will drain the industry of resources and ability to innovate. What is key here is to engage in a meaningful bilateral dialogue between the EU and China.

There are precedents to such a dialogue with China. For instance, there used to be a dialogue on medical devices. Following deeper sector dialogues in wines and spirits, the EU and China have in the recent past agreed on the elimination of contingent duties and discriminatory taxes, and established new rules for the protection of geographical indications.<sup>64</sup> The UK-China Economic and Financial Dialogue have yielded several results, including better market openness

<sup>63</sup> European Commission, 11<sup>th</sup> June 2020, Trade in Healthcare Products – Concept Paper: [https://trade.ec.europa.eu/doclib/docs/2020/june/tradoc\\_158776.pdf](https://trade.ec.europa.eu/doclib/docs/2020/june/tradoc_158776.pdf)

<sup>64</sup> European Commission (2020, September 14) *EU and China sign landmark agreement protecting European Geographical Indications*. Accessed at: [https://ec.europa.eu/commission/presscorner/detail/en/IP\\_20\\_1602](https://ec.europa.eu/commission/presscorner/detail/en/IP_20_1602)

in China.<sup>65</sup> Or take the example of EU-China scientific cooperation. The implementation of the current agreement is overseen by a Joint Steering Committee of the Commission. A dedicated High Level Innovation Cooperation Dialogue (ICD) was set up in 2012. In 2019, at the Fourth Innovation Cooperation Dialogue, it was mutually agreed to develop a Joint Roadmap for Future Science, Technology and Innovation Cooperation that would address both framework conditions and thematic cooperation for example in environment, climate and health.

In April 2020, the European Commission sent its proposal for the Roadmap and in September the first EU-China High-level digital dialogue took place. The dialogue covered ICT standards, Product Safety, Artificial Intelligence, Digital Taxation and Research and Innovation. In January 2021, European Commissioner Mariya Gabriel and the Chinese Minister for Science, Technology and Innovation, Wang Zhigang, held the EU-China High Level Dialogue on Research and Innovation to discuss the progress made in the discussions on the EU-China Joint Roadmap for the future of STI cooperation and agree on the way forward.

Another example is the ongoing EU-China regulatory dialogue on pharmaceuticals. Topics for discussion here included good manufacturing practice (GMP) standards for active pharmaceutical ingredients, good clinical practice (GCP) standards, and the Commission's strategic approach to pharmaceuticals in the environment. Discussions were also held around establishing a common training curriculum focused on GMP and GCP standards, in cooperation with other international partners and the World Health Organisation (WHO). A joint EU-China consultation and cooperation mechanism was established in 2010 with the aim of promoting information exchange and mutual understanding on pharmaceuticals, medical devices, cosmetics and regulatory science matters. The European Medicines Agency (EMA) supports the Commission's activities by assisting China in the implementation of the International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use (ICH) standards. This is aimed at facilitating the use of medicines and data coming from China, and achieving a global approach to the manufacture and supervision of medicines in the long term.<sup>66</sup>

Intensifying dialogue with China about the conditions for the future market of medical technology goods could be useful for the EU. Such a dialogue would include industry stakeholders – and possibly even be focused on industry stakeholders. It would start from the premise that the long-term interest of all parties is a development where markets are open and where competition is free and fair: this is also China's long-term interest. Given current

<sup>65</sup> UK Government Publishing Service (June 2019) *Policy Outcomes of the 10th UK-China Economic and Financial Dialogue*. Accessed at: [https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/809569/190617\\_FINAL\\_POP\\_v2\\_\\_002\\_.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/809569/190617_FINAL_POP_v2__002_.pdf)

<sup>66</sup> European Medicines Agency (2019, October 25<sup>th</sup>) *Dialogue with Chinese Authorities on Medicine Regulation*. Accessed at: <https://www.ema.europa.eu/en/news/dialogue-chinese-authorities-medicine-regulation>

developments and the fact that China's producers in this sector will over time build up better competitiveness and become bigger, they have an interest in ensuring access to liquid markets in Europe and America in the future.

Over time, China's centralised state procurement will also have negative effects on the Chinese industry – and these effects could be amplified if other countries start to reference the prices from China's procurement. While it is possible to pressure down prices to artificially low levels for a short period of time, such a market situation will become untenable for many Chinese manufacturers after a while, especially if the government also takes away subsidies to the industry once they have reached the desired domestic market share.

Chinese companies that are now having success in domestic tenders will gradually come to prefer a market that gives them fair compensation for their products. Artificially low prices also make investments by companies into the sector more difficult – substantially reducing their incentive to innovate and benefit patients with new treatments. Moreover, Chinese domestic companies might also require more help in the future, also from multinationals. Internationalisation has been critical to the development, education and training of the Chinese healthcare sector in the past – and for their growing MedTech companies to achieve success, they will need to be plugged into global networks of production and R&D.

An intensified dialogue between the EU and China could also include the US. The Med-Tech industry is an important sector in the US and is similarly affected by the challenging policy environment in China and therefore has a joint interest in engaging in meaningful dialogue. The EU has already ramped up its cooperation with the US on these issues. For example, the EU and US launched the EU-US Trade and Technology Council (TTC) at the EU-US Summit in Brussels in June 2021. The TTC will serve as a forum for the United States and European Union to coordinate approaches to key global trade, economic, and technology issues and to deepen transatlantic trade and economic relations based on shared democratic values.<sup>67</sup> The Council's working groups will focus on immediate issues where incentives are aligned, such as technical standards and semiconductor supply chains, as well as longer-term coordination on technology investments and regulatory alignment. Many of these objectives are in response to growing competition with China.<sup>68</sup> The TTC is not a forum that is designed to resolve trade and market-access frictions with China. However, it is crucial that the EU and the US intensify their dialogue over what rules and norms that should guide the market for healthcare products in the future. This has also been acknowl-

<sup>67</sup> European Commission (2021, June 15<sup>th</sup>) *EU-US Launch Trade and Technology Council to lead values-based global digital transformation*. Accessed at: [https://ec.europa.eu/commission/presscorner/detail/en/IP\\_21\\_2990](https://ec.europa.eu/commission/presscorner/detail/en/IP_21_2990)

<sup>68</sup> Bennet, A. (2021, June 16<sup>th</sup>) *What is the EU-US Trade and Technology Council?* Tony Blair Institute for Global Change. Accessed at: <https://institute.global/policy/what-is-us-eu-trade-and-technology-council>



edged. At the EU-US summit in June 2021, both parties made a renewed commitment to bilateral cooperation and regular dialogue on key issues related to health.<sup>69</sup>

Furthermore, at the G7 meeting in June, after discussing how to come up with a unified position on China, the US delegation promoted the initiative “Build Back Better for the World” (B3W). The “values-driven, high-standard, and transparent infrastructure partnership” covers the environment, anti-corruption efforts, the free flow of information, and financial terms for developing countries to avoid excessive debt. It cites the international imperative to “help narrow the \$40+ trillion infrastructure need in the developing world, which has been exacerbated by the Covid-19 pandemic”. The B3W initiative has a specific invocation of “strategic competition with China” and can be seen as a response to China’s Belt and Road initiative, also in the area of healthcare.<sup>70</sup>

### 3.6 CONCLUDING COMMENTS

There is significant international concern that the Chinese procurement policies of medical technology distort pricing and competition in the sector and that the Chinese government’s procurement process has been distorted to encourage higher take-ups by local firms. In fact, the current situation is forming an existential threat for many EU companies in the sector. EU policymakers should stand against these practices because they are discriminatory and erode the opportunities for EU companies to compete against Chinese companies within China and outside China. It is time they consider bringing a case to the WTO. In addition, European policymakers have a number of other instruments to help counter these Chinese practices.

The Foreign Subsidy Instrument can help avoiding Chinese subsidies distorting the EU’s own market. Another important policy initiative for addressing procurement discrimination is to work with the IPI and use the instrument to restore a level playing field. Once it has been approved, this instrument can be used to threaten the withholding of market access for Chinese producers in Europe’s public procurement if they do not allow European manufacturers to compete fairly in China.

A third avenue is to negotiate with China in the CAI framework with the view of including additional market access in the agreement. For CAI to go through ratification in Europe, the agreement would have to become economically stronger than the current CAI. The eco-

<sup>69</sup> European Council (2021, June 15) *EU-US summit, Brussels*. Accessed at: <https://www.consilium.europa.eu/en/meetings/international-summit/2021/06/15/>

<sup>70</sup> Lucas, S. (2021, June 13<sup>th</sup>) *G7 Summit: US calls for ‘Build Back Better for the World’*. EA Worldview. Accessed at: <https://eaworldview.com/2021/06/g7-summit-build-back-better-for-the-world/>

conomic gain has to outweigh the political cost – and several member states in the EU now feel that this balance is absent. Better access in public procurement would be a natural area for a new proposal by the EU.

A fourth area of action is to improve plurilateral or multilateral accords – such as TRIMs – and to reinforce efforts to agree a new agreement on trade and healthcare. Europe has already started this process. The global trade and health initiative proposed to the WTO by the Ottawa Group already outlines ideas for how to improve international cooperation for critical healthcare goods and ensure a global market that can supply necessary goods in normal times and in a state of emergency – like the Covid-19 pandemic.

Finally, an EU-US industry dialogue with China could be a useful addition to ensure that all sides are pursuing policies in their long-term interest. A global market where Chinese manufacturers will be squeezed out because of unfair competition – and where they are forced into domestic procurement with artificially low prices – will not provide a good basis for Chinese companies to grow and become globally successful.

#### **4. CONCLUSION**

In this paper, it has been shown that European medical technology manufacturers are at risk of losing substantial market share in China – and, over time, in third markets. Just like in other sectors, Chinese producers are getting support from the state to build up their competitiveness and take bigger market shares. No European company get similar support. China's industrial policy for its medical technology sector is getting stronger and Beijing has already stated its goal of substituting a substantial part of foreign sales of medical devices in China with national manufacturers. Its new policy for centralised state procurement has distorted the procurement market and given new opportunities to local firms – at the expense of foreign companies. In a decade, European medical technology companies could have been squeezed out the Chinese market.

Urgent action is required by the European Union.

- China's discrimination of foreign medical technology firms can be actionable under the rules of the World Trade Organisation: bringing a case to the WTO should be considered.

- Once approved, the European Commission can use the International Procurement Initiative (IPI) – ultimately withholding access to Europe’s procurement market for Chinese suppliers – to pressure Beijing to agree on free and fair terms of competition in the procurement of medical devices. The current situation in China’s procurement policy for medical devices is exactly the type of discrimination that the IPI aims to remedy.
- Europe should ask for the inclusion of procurement rules in the Comprehensive Agreement on Investment with China. This agreement needs to be improved to stand a chance to pass when Europe gets to the point of trying to ratify it. It is also in China’s interest to agree on rules with the EU about central parts of the procurement market.
- Europe should put more emphasis on its Initiative on Trade and Health, presented to the Ottawa Group last year to ensure that the discussions at the WTO are translated into binding commitments to improve access to health-care products during and beyond emergency situations. This initiative improves on current rules for transparency and fairness in government procurement and it would put pressure on China to improve its own policy.
- Finally, Europe should engage in dialogue with Chinese government and private-sector stakeholders – possibly in alliance with the United States – about future rules for medical technology procurement. If China continues with its discrimination, Chinese firms will gradually lose its access to the European procurement market. This would lead to more costs and fewer benefits for all – especially for patients that are at risk of being deprived of innovative medical devices.

## ANNEX

**TABLE 1: CHINESE AND EU EXPORTS OF MEDICAL TECHNOLOGIES AND MEDICAL PRODUCTS (SUBJECT TO CENTRALISED STATES PROCUREMENT) TO AFRICA, ASIA, AND LATIN AMERICA AND THE CARIBBEAN (2019 AND 2020 IN BILLION EUROS, AND ANNUAL CHANGE IN PERCENTAGE)**

		Africa			Asia			Latin America and the Caribbean		
		2019	2020	%	2019	2020	%	2019	2020	%
Medical Technology	EU exports	2.5	2.6	5%	19.9	19.6	-2%	3.0	2.9	-5%
	China exports	0.7	0.8	26%	5.8	7.5	29%	1.1	1.6	46%
Volume-based Procurement	EU exports	1.0	1.1	11%	8.6	8.4	-2%	1.5	1.4	-8%
	China exports	0.2	0.3	52%	1.1	1.8	62%	0.3	0.4	25%

Source: ITC based on UN COMTRADE. ECIPE's calculations.