#### **Executive summary**

ALICIA GARCÍA-HERRERO
(alicia.garcia-herrero@
bruegel.org) is a Senior
Fello at Bruegel and a nonresident Research Fello at
Real Instituto Elcano

JUNYU TAN is an economist at Nati is

**AFTER DECADES OF INCREASING GLOBALISATION** on e er front, from trade | pushed further b the gro ing role of alue chains | to technolog, mo ement of people and in estment, there no seems to be a turn to ards slo er globalisation if not deglobalisation, at least in some areas.

**DEGLOBALISATION IS NOT A NEW CONCEPT** but rather a megatrend hich has been seen before, for e ample right before the First World War. Signs of deglobalisation, measured b decelerating trade and in estment, and smaller global alue chains, started



### 1 Is the current phase of globalisation over?

Most economic historians consider the centur before the, rst orld ar as the, rst phase of modern globalisation. It as marked b sharp increases in trade, mo ement of people and capital o s. Global trade gre b an unprecedented rate of almost 4 percent per ear for nearl a centur, a de elopment attributed to technological progress | hich greatl reduced transaction costs, such as transportation and communication | and also to the easing of go ernment restrictions, including import tari s. In addition, mo ement of people bet een continents ballooned, dri en b orking-class Europeans migrating to the Americas. Against this backdrop, capital o s also boomed, as capital looked for protable projects o erseas.

Ho e er, the rst orld ar interrupted the globalisation a e. e global political order as turned upside do n ith the demise of the gold standard and increased protectionism to protect domestic economies. Globalisation onl resurged after the second orld ar. e rene ed a e of globalisation as built on the pillars of ne l created international organisations designed to ensure economic cooperation bet een countries. A high point as the signing in 1947 of the General Agreement on Tari s and Trade (GATT), hich led to a series of agreements that lo ered tari s and eliminated other e isting restrictions on trade. Since then, trade and foreign direct in estment ha e gronsteadil, as have international mobilit, technological e changes and capital os. But ith the 2007-2008 global, nancial crisis this super-collection in general reduced, as have global in estment os. In other ords, deglobalisation mabe happening.

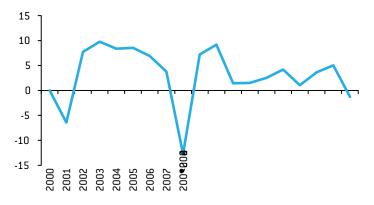
What is meant b deglobalisation should be clarified. Among the man degritions that can be found, the opt for a narrotation is a related to economic factors, in particular a reduced number of e changes, the heter trade, in estment, technolog or motement of people. It should be noted that deglobalisation does not equate to economic decoupling, thick refers to too specific economics reducing their economic linkages and, thus, their interdependence. Net ertheless, the economic strategic competition (Garà a-Herrero, 2018). We also consider hot decoupling and deglobalisation interact.

Mean hile, the economic literature does not o er a clear consensus on the pros and cons of globalisation. e traditional argument in fa our of globalisation, since Adam Smith, has been heightened competition and e cienc gains from specialisation. More recentl , globalisation has been associated ith higher economic gro th and po ert reduction. Khan and Riskin (2001) found that po ert reduction in China could be attributed to the opening up of its econom , for e ample. Other positi e e ects include economies of scale and scope that can lead potentiall to reductions in costs and prices (Intriligator, 2003; Rogo , 2003). In addition, Tomohara and Taki (2011) proposed that globalisation leads local emplo ers to pa higher ages as foreign companies are gi en market access.

although most focus on trade (Garc a-Herrero, 2018). Antr s (2020) found little s stematic e idence to indicate that the orld econom has entered an era of deglobalisation, but ackno ledges that globalisation is continuing at a much slo er pace.

To determine in hich phase of globalisation or deglobalisation e are, this Polic Contribution e aluates ke aspects of e changes, namel trade, global alue chains (section 2), technolog (section 3), mo ement of people (section 4), and, nancial o s (section 5). e a ailable data points to a slo do n in the globalisation process insofar as interlinkages are gro ing less rapidl. is is particularl the case for trade and in estment. While it is still too earl to assess ho permanent the process is, it seems important to measure the speed of the process for the di erent t pes of e change (trade, technolog, people and capital).

Figure 2: Global trade volumes (year-on-year, %)



Source: Bruegel based on UNCTAD, Bloomberg.

Figure 3: Growth of global trade in services (year-on-year, %)

Source: Bruegel based on UNCTAD.

e degree of integration of global alue chains (GVC) has also declined since the GFC. If this integration is measured by the alue of intermediate goods that are either imported to be re-e ported, or are e ported to other countries for them to re-e port, there has been a net decline since 2008 (Figure 4). e decline has been much more signigent for German , Europe's e porting poserhouse, than for the US and China (Figure 5). e EU remains the orld region most integrated into GVCs, but the decline in its participation is happening faster than for other regions, and is in line ith EU's declining share of manufacturing e ports at the global le el.

Figure 4: World global value chain participation (%)

Source: Bruegel based on UNCTAD-Eora, Natixis. Note: Estimated data for 2016-2018. GVC participation is defined as the sum of imports of intermediates and exports of intermediates that are then used in the importing countries' exports, as a share of total exports.

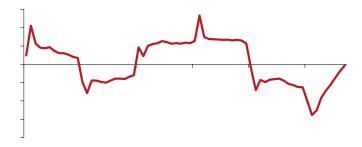
Figure 5: GVC participation, selected economies (%)

Source: Bruegel based on UNCTAD-Eora, Natixis. Note: Estimated data for 2016-2018. See note to Figure 4 for definition of GVC participation.

Amid these changes, the World Trade Organisation (WTO) has been eakened as the facilitator of global trade os. Its appellate bod, hich arbitrates in disputes, has been functioning poorl, resulting partlefrom the greater heterogeneit of the WTO as more emerging countries have joined the club, and partlefrom the length process in oled in settling trade disputes. But more important have been the increasing confrontations on trade between the US and China. President Trump's profound disdain for multilateralism and China's state-led stem are not compatible ith the liberal nature of the global trading stem and might have eakened the WTO's foundations. China has also been hit by US sanctions, hich are being targeted against countries be ond Cuba, Iran and Russia. US sanctions against China are a further push to ards their decoupling in trade, and also in terms of technolog and in estment os. In other ords, US-China decoupling is reinforcing the post-GFC deglobalisation trend, at least in terms of trade and global alue chains.

e deglobalisation trend has clearl accelerated since 2019, ending in a collapse in trade o s at the peak of the COVID-19 pandemic (Figure 6). One of the reasons for the deceleration in trade before the pandemic as the US-China trade ar and, consequentl, the reduced trade o s bet een them, after a series of tit-for-tat protectionist measures (Figure 7). While the pandemic is an e-ceptional e-ent and the immediate impact of the collapse in

Figure 7: China's trade in goods with the US (year-on-year,%)



Source: Bruegel based on www.wind.com.cn/.

In summar , the slo do n in globalisation trends is more notable for trade and global alue chains, hich ha e been shrinking and fragmenting since the global nancial crisis.

# 3 Technology protectionism is still embryonic but evolving amid US-China decoupling

For ears, the technolog sector has been e panding globall ith bene its in terms of economies of scale and net ork e ternalities. But such e pansion could be deterred b polic constraints, as seen in the case of the technolog decoupling bet een the US and China. In particular, the decoupling has so nithe seeds of technolog protectionism. In this section, elook at the arious channels through high technolog deglobalisation is happening, from e port controls and screening of foreign in estment, to bans on telecommunication soft are and hard are.

Firstl, transfer of technolog has become increasingl restricted as global technolog competition intensil es through e ports controls on high-end technolog products. Appro-als for e ports of sensitil e technolog ere, rest implemented be the US to tighten its control of er technological products (Figure 8). But since the outbreak of the US-China trade arrunder the Trump Administration, e port controls have been targeted increasingle at China, with the number of approals for China declining sharple (from a growth rate of 27 percent in 2016 to -9 percent in 2018; Figure 9). In turn, China has in 2020 introduced e port licenses for ke technologies, including drones and articial intelligence.

Figure 8: Approved US licenses for tangible items, software and technology (000s)



Source: Bruegel based on US Department of Commerce.

Figure 9: Approved US licenses for tangible items, software and technology exports to China (000s)

Source: Bruegel based on US Department of Commerce.

Be ond trade, the free o of in estment has also been limited, especiall in relation to technolog, because of increased in estment screening. is is particularly the case for the US, after the granting of increased pole ers by Trump to the Committee on Foreign In estment in the United States (CFIUS), it is the intent to block an increasing amount of Chinese mergers and acquisitions in US, especially in the high-end industrial sector. The EU has followed and set up its on in estment screening process in April 2020, pointing to technolog protectionism globally, and especially aimed at China's mole up the technology ladder. The est about China's increasing engagement in technological inno ation. Western measures ill only series to drive technological decoupling.

More speci call for US-China competition, the US has introduced the so-called

.¹, hich e ecti el forbids US companies from conducting business ith the Chinese companies on the list. e US Bureau of Industr and Securit published such a list of entities deemed risk to US national securit as earl as 1997, but the number of names on the list has e panded quickl since 2019, ith the addition of Hua ei and some of its a liates and more Chinese corporations.

In September 2020, China announced the release its on identital list in retaliation, though the names of targeted companies have not been made public at time of riting<sup>2</sup>. e grounds for listing targeted entities have been made public, including the taking of discriminator measures against Chinese businesses on non-commercial grounds. Interestingly, the announced consequences of being on China's entital list are not sanctions, as is the case ith the US identital list, but are rather being blocked entirelation from trade and in estment ith China. All in all, technologal decoupling mave entuallation reinforce trade decoupling

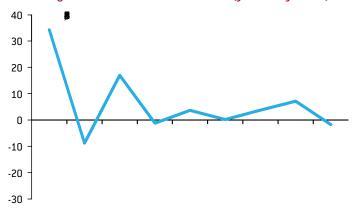
<sup>1</sup> See https:// .bis.doc.go /inde .php/polic -guidance/lists-of-parties-of-concern/entit -list.

<sup>2</sup> See http://english.mofcom.go .cn/article/polic release/questions/202009/20200903002580.shtml.

		this is particularl th	

Short-term mo ements ha e also been gro ing. Ho e er, hat as long percei ed as a boom in international mobilit , until COVID-19 struck, is actuall some hat inaccurate. Some of the os of people had started to decelerate before COVID-19 and the number of short-term isitor arrials sloed on marked after 2017 (Figure 13). Of course, the number of international ights collapsed in 2020 because of global COVID-19-related restrictions on mobilit (Figure 14). Trends be ond the pandemic could mean international mobilit does not return to preious leels. Concerns about the impact of trael on health and the en ironment are likely to rede nethe tourism industrous is is even more the case for business trael.

Figure 10: Growth of global trade in travel services (year-on-year, %)



Source: UNCTAD.

Figure 11: International migrant stock (millions)

Source: United Nations.

Figure 12: US visa refusal rates, tourists and business travellers, selected countries

Source: US State Department.

Figure 13: International tourist arrivals (billions)

Source: Bruegel based on UNWTO.

Figure 14: International ight passengers (year-on-year, %)

Source: Bruegel based on Airports Council International.

## 5 Financial deglobalisation is less pronounced but still noticeable

Increasingl , there are some earl signs of nancial deglobalisation. is has become more noticeable as the confrontation bet een the US and China has mo ed be ond trade ith a gro ing number of con icts in the nancial sector. In this section, e e amine globalisation trends through the lenses of foreign direct in estment, portfolio in estment and cross-border lending.

e decline in cross-border capital ossis particularle ident in foreign direct in estment (FDI), the most stable and possible the most productient peof capital os. Both in ard (Figure 15) and out ard FDI (Figure 16) ossas a share of global nominal GDP have been declining since the global pancial crisis. is is especialle true for out ard FDI, hich haled from 2.7 percent in 2008 to onload 1.2 percent in 2018. is follos the trends of the decline in global trade and the fragmentation of global alue chains, and could possible a consequence of those. While there as a noticeable record in out ard FDI in 2019, preliminar data for 2020 points to a collapse in mergers and acquisitions, hich is likeled to be negative for FDI oss. It is hard to kno hether FDI is no longer groing because of lack of demand, or because of constraints that make it harder for in estors to operate. In an

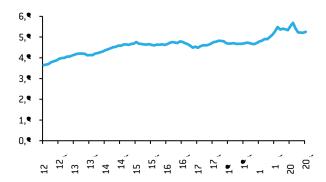
Figure 18: Chinese FDI ow to the US (% of GDP)

Source: Bruegel based on UNCTAD and  $\underline{\text{www.wind.com.cn/}}.$ 

A less-pronounced trend than for FDI is also obser able for portfolio o s. Portfolio o s into emerging markets ha e also slo ed do n globall since the European so ereign crisis in 2010 (Figure 19). e rebound of portfolio in o s after the initial COVID-19 shock has been milder than after the GFC (Figure 20). All in all, it is hard to talk of nancial deglobalisation for

assets (Figures 21 and 23). Be ond the numbers, there is e idence of go ernment attempts to decouple further. For e ample, the US State Department has asked uni ersities to di est their holdings of speci c Chinese assets, mainl related to Xinjiang or China's militar -related companies<sup>6</sup>. at said, these mo es ha e so far sta ed bilateral and ha e not been follo ed b other countries. In fact, total foreign holdings of both Chinese bonds and US treasuries ha e increasing (Figures 22 and 24), hich is understandable gi en the economic importance of

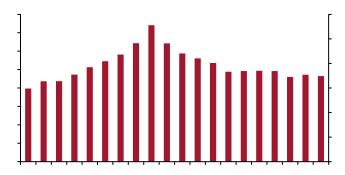
Figure 24: Total foreign holdings of US Treasuries (\$ trillions)



Source: Treasury International Capital.

Cross-border bank lending mean hile has not returned to the 2008 peak le el, either in dollar terms or as a share of nominal GDP, not ithstanding a gradual reco er after the GFC (Figure 25). ere is a shift to ards more lending into emerging markets, hich comes at the cost of less lending o ing into de eloped markets (Figure 26). It is thus hard to argue that there is a deglobalisation trend in cross-border bank lending. Rather, its nature is changing ith an increase in emerging market o s.

Figure 25: Global cross-border lending, total claims (\$ trillions)



Source: Bruegel based on BIS, UNCTAD.

Figure 26: Cross-border lending, total claims (\$ trillions)

Source: BIS.

In line ith the reduction in cross-border lending, cross-border nancing has become more dicult. For elample, Chinese technolog arms listed in the US hale opted for secondar listings to a oid the risk of delisting from the US stock market. Is has been done be Alibaba Group, JD.com and NetEase Inc, hich hale opted for secondar listings in Hong Kong. In elamper that the Chinese go ernment has mean hile adopted policies to encourage the domestic funding of technolog companies, including the launch in 2019 of the Science and Technolog Innolation Board (SSE STAR Market). Based in Shanghai, the STAR Market has the objective of supporting promising technolog start-ups in their equit analoing, helping a oid US equit markets. China has also been increasingle selective in its choice of foreign banks in the arrangement of its so ereign issuance of erseas. For example, HSBC as absent from an of ering of China's US-dollar denominated bonds in October this fear, possible due to geopolitics. Since the renminbi has not fet become an international currence, China can use its sheer sife in mancial deals in screening market participants.

e deglobalisation trend is less pronounced than in other areas for nancial o s, ith the e ception of FDI hich is more closel linked to trade and the real econom . Ne ertheless, the nancial decoupling bet een the US and China is increasingle ident and is not onl limited to FDI, though less FDI is signicant. If the orld returns to capital controls, there ill be greater dislocation of global saings and, ultimatele, lo er potential grounds.

### 6 Conclusions

After decades of increasing globalisation in e er aspect, from trade | pushed further b the gro ing role of alue chains | to technolog, mo ement of people, and in estment, it seems the trend has turned to ards deglobalisation, or at least slo er globalisation. Deglobalisation is not a ne concept but rather a megatrend hich has been seen before, right before the First World War. e slo ing of the globalisation process, after decades of gro ing globalisation since the reform of the international nancial architecture after the Second World War, appears to have started in 2008, at least for trade, global alue chains and foreign direct in estment. e deceleration in trade and FDI globall has been fuelled recentle by the strategic competition between the US and China, hich is pushing them to decouple from one another, not only in terms of trade and FDI but, most notable, in technologe. COVID-19 has been a second er important factor pushing deglobalisation. Be ond trade and FDI, mo ement of people has been an obliqued in the control of the covidence of

e deglobalisation of trade is happening in terms of alue and olume of gross trade and in terms of the importance of global alue chains. In other ords, there are signs of a reduction in the e-change of intermediate goods bet een countries as a a to e-ploit comparati e ad antage and specialisation gains. ese trends should not surprise us gi en the increasingl protectionist policies of a number of go ernments, notable the US, and the related eakening of multilateralism, as clearle e-mplied be the decline of the WTO.

Be ond trade, technolog decoupling bet een the US and China is seen in reduced appro als for e port licenses, limits on use of hard are (through sanctions and the imposition of lists of companies—ith—hich US and other companies cannot trade) and outright bans on soft—are. FDI—o—s are also shrinking, especiall—bet—een US and China. FDI—screening is one ob—ious factor hampering FDI—o—s. International—o—s of people started to decelerate in 2018,—ith much sharper declines in the—ake of COVID-19. Finall—, the trend to—ards deglobalisation is much less e—ident for\_nance,—ith the e—ception of FDI, though increasing attempts to decouple particular t—pes of\_nancial—o—s are emerging, including pressure to delist Chinese companies from US stock e—changes and the imposition of sanctions for transactions—ith certain Chinese companies and indi—iduals. Ho—e—er, it is too earl to con\_rm the depth and the sustainabilit—of this ne—trend to—ards slo—er globalisation, if not deglobalisation,—hich ma—be happening in more domains that—e are full—a—are.

### References

- Antr s, P. (2020) 'De-Globalisation? Global Value Chains in the Post-COVID-19 Age,' mimeo, a ailable at <a href="https://scholar.har\_ard.edu/antras/publications/de-globalisation-global-alue-chains-post-co\_id-19-age">https://scholar.har\_ard.edu/antras/publications/de-globalisation-global-alue-chains-post-co\_id-19-age</a>
- Garc a-Herrero, A. (2018) 'US Tari s Aim to Contain China's Technological Rise',  $B_1$  , 10 April
- Hillebrand, E.E. (2010) 'Deglobali ation scenarios: ho ins? Who loses?' G a E J I a , 10(2): 1-21
- Intriligator, M. (2003) 'Globali ation of the World Econom: Potential Bene, its and Costs and a Net Assessment,' P B f No 33, e Milken Institute
- Khan, A.R. and C. Riskin (2001) I , I
- Rodrigue , F. and D. Rodrik (1999) 'Trade Polic and Economic Gro th: A Skeptic's Guide to Cross-National E idence',  $NBER\ W$  Pa WP/99/7081, National Bureau of Economic Research
- Rogo. , K. (2003) 'Globali ation and global disinuation',  $E_L$  , a , R , a , Ba , fKa , a , C , E , R
- Tomohara, A. and S. Takii (2011) 'Does globali ation bene, t de eloping countries? E ects of FDI on local ages',  $J_{LL} = a_{LL} fP_{LL} = 33(3)$ : 511-521