

## AT HOME AND ABROAD

15 October 2021

- A mix of temporary and policy-driven factors are behind China's sudden 04 slowdown
- What could go wrong? 80
- What does China's slowdown mean for the rest of the world? 09





# **EXECUTIVE SUMMARY**



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A mix of temporary and policy-driven crunches, the biggest being real estate, has sparked a sudden slowdown in China, which we expect to continue through Q4 2021 and the beginning of next year. As a result, we cut our GDP growth forecasts to +7.9% in 2021 and +5.2% in 2022, from +8.2% and +5.4%, respectively. This compares with consensus expectations at 8.1% in 2021 and 5.3% in 2022 as of October. Policy tightening and delta outbreaks have crunched cyclical activity but we do expect these factors to fade away. A recovery of services is likely going forward, although a return to normal will be hindered by the zero-Covid strategy likely to last well into 2022. In addition, "common prosperity" and increased regulatory scrutiny should keep industrial activity and the real estate sector under pressure. We expect at most a pause and/or softening of authorities' communication in the regulatory crackdown against the real estate sector. This means that housing activity will remain weak and further defaults among real estate developers can be expected – even though policymakers have the means and intention to avoid a systemic crisis. Other areas of increased regulatory scrutiny include energy and local government finances, but they could be eased to mitigate the impact on short-term growth.

What could go wrong? The risk of policy mistakes has increased. We think risks remain tilted to the downside and much relies on policy coordination and reactivity to help the economy navigate the multiple crunches that are occurring at the same time. The main domestic risk comes from the real estate sector deteriorating further in a long-lasting way, with spillover impact on other sectors of the economy. Indeed, accounting for downstream and upstream sectors, final demand generated by real estate accounts for c.25% of China's GDP and housing represents 78% of household assets, 40% of bank loans are backed by properties and land sales amount to roughly one-third of local governments' gross revenues. The main external risk is geopolitical as renewed tensions emerged in the Taiwan Strait and with the US. The likelihood of an actual conflict remains extremely low and we continue to expect a status quo in US-China trade tariffs, although non-tariff barriers could increase. In the long run, the situation denotes the US's intention to further deploy its containment strategy against China.

What does China's slowdown mean for the rest of the world? From a global supply perspective, the Chinese economic slowdown could further raise the cost of trade and global input prices, lengthen delivery delays, and even worsen production shortfalls in the US and Europe. From a global demand perspective, exporters to China could suffer, particularly those exposed to the construction and metals sectors (i.e. Chile, Hong Kong, Peru, Australia and South Africa). Conversely, exporters of energy and more precisely thermal coal (particularly in Indonesia, Malaysia and Australia in Asia-Pacific) are likely to see rising demand in the context of the ongoing energy crisis in China. Beyond the short to medium term, countries dependent on Chinese demand will need to deal with its adjustment to a lower growth regime (average between +3.8% and +4.9% in the coming decade), and the ensuing risks. The changing economic model could also alter exporters' exposures (heavy industry and construction vs. consumption and high technology goods). Looking at financial markets, we find that spillovers from China to the rest of the world are more likely in equities than corporate credit, but in both cases more likely in the event of significant negative performance in China. During the 2015 China market crash, a -10% drop in Chinese equities would have driven Japanese and Asian equities down by -2.5% and -1.9%, respectively, while Chinese credit bonds falling by -1% drove down EM credit by -11bps (all other things being equal). Since then, access to Chinese assets have opened further, meaning that a market rout in China could have even more damaging consequences, and potentially well beyond Asia and emerging markets.

+7.9%

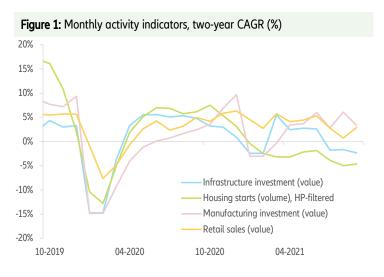
Our lowered forecast for GDP growth in China in 2021

# A MIX OF TEMPORARY AND POLICY-DRIVEN FACTORS ARE BEHIND CHINA'S SUDDEN SLOWDOWN

The normalization of China's economy is proving bumpier than expected, with a more sudden slowdown since Q3 2021. China quickly bounced back from the Covid-19 hit in Q1 2020, with GDP growth that year reaching +2.3% – a low level but among very few positive growth rates in the world in 2020. Since then, however, growth has been modest and monthly indicators suggest that

momentum has slowed further over Q3 2021. Industrial production grew by +5.9% y/y on average in July-August and should slow further in September, compared with an average of +7.8% y/y in Q2 2021 (and +5.8% on average in 2019). Similarly, fixed asset investment (+8.9% ytd y/y in August vs. +12.6% ytd y/y in H1) and retail sales (+5.4% y/y in July-August vs. +13.9% in

Q2) also slowed down more than expected. The breakdown shows a particular slowdown within property and infrastructure investment, even when compounding the growth rate over two years (see Figure 1).



Source: National Bureau of Statistics of China, Euler Hermes, Allianz Research

#### What explains the slowdown? Policy tightening, delta outbreaks and regulatory shocks

China's policy mix was intentionally tightened from Q4 2020, but should ease going forward to help the economy navigate ongoing concerns. GDP exceeding the pre-crisis trend as soon as Q4 2020, strong external demand and signs that the domestic economic recovery was becoming more broadbased in H2 2020 laid the ground for authorities to consider normalizing the policy mix<sup>1</sup> and turning their focus to tackling long-term vulnerabilities, rather than boosting short-term growth.

As a result, fiscal policy tightened, with slowing government expenditures and even a balanced budget in the first half of this year. Weak amounts of local government special bonds issued in H1 2021 also resulted in a visible slowdown in infrastructure investment. An acceleration of bond issuance has occurred since then, and should continue, given that there is still space ahead in the annual quota<sup>2</sup>. We also expect the management of local government implicit debt to turn more gradual to avoid impeding local governments' capacity to support the economy in the current difficult cyclical context.

On the monetary side, easing reached a peak in October 2020, as measured by our proprietary credit impulse index

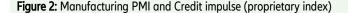
(see Figure 2). The index declined into tightening territory in April 2021 and total credit growth is at the lowest level since December 2018. Tighter credit conditions along with regulatory measures led to a clear slowdown in the housing sector. Monetary policy has shifted towards easing again since H2 2021, with a 50bp cut in the reserve requirement ratio (RRR) in July and open market operations by the PBOC more recently (see Figure 3). We expect such actions to continue in the coming months (particularly as Evergranderelated strains remain), along with another 50bp cut in the RRR before the end of the year. Credit growth could stop its downwards trend and stabilize, but a sharp rebound is unlikely, given regulatory pressures in the real estate sector.

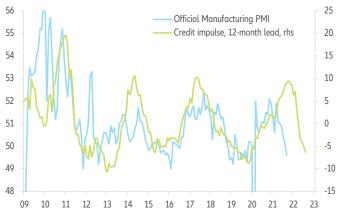
The aim is thus to help the economy navigate ongoing concerns, not to engineer a full rebound. Indeed, Chinese policymakers are moving on from a "countercyclical adjustment" framework to a "cross-cycle adjustment" framework, where the policy mix is eased cautiously so as to avoid stimulus now becoming financial risks later on.

Temporary negative crunches take part of the blame, but we expect them to fade away. The unexpected materiali-

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zation of downside risks (e.g. delta outbreaks and adverse weather events) have also weighed on economic activity. In July and August 2021, China experienced the largest and most geographically spread-out Covid-19 outbreak since Q1 2020. The continued zero-Covid strategy meant that sanitary restrictions along with consumer cautiousness led to a slowdown of mobility, with our holiday-adjusted 100 cities Traffic Index -3.4% below the 2020 levels on average in August, compared to +6.9% y/y in the first half of the year. Going forward, as in the aftermaths of previous waves of Covid-19, a recovery in consumer behavior can be expected in the coming months. Already in September, the services component of the official manufacturing PMI rebounded to 52.4 from 45.2 the previous month. The consumer recovery is underpinned by labor market indicators and saving rates almost back to their pre-Covid-19 levels. That being said, consumption and services remain at risk of experiencing a patchy recovery, subject to the sanitary situation. Indeed, we expect China to retain a zero-Covid strategy well into 2022 (despite good progress in vaccination: 155 doses administered per 100 people as of early October).





Sources: National Bureau of Statistics of China, Euler Hermes, Allianz Research



2019

2020

2021

Sources: PBOC, WIND, Euler Hermes, Allianz Research

2016

Reserve requirement

Total liquidity injection

2017

Figure 3: Central bank liquidity injections (RMB bn)

<sup>&</sup>lt;sup>1</sup> See our report *China's policy mix: "Proactive" and "prudent" in name, tightening in practice* 

<sup>&</sup>lt;sup>2</sup> See pages 14-15 of our report <u>Global economy: A cautious back-to-school</u>

Increased regulatory scrutiny, most notably in the real estate and energy sectors, is the main drag on economic growth. Stricter rules to contain indebtedness in the real estate sector were put in place in H2 2020 (in particular the "three red lines" - see more details in the Box). Regulation along with generally tightening credit conditions led to an inflection point in housing sector activity since the end of 2020 as well as ongoing worries about highlyleveraged developers that have both liquidity and solvency issues. Going forward, we think authorities are unlikely to scrap the restrictions put in place. This means economic activity in the housing sector is likely to remain soft in the coming quarters and further defaults by real estate developers are likely (see Figure 4), though a systemic crisis should be avoided. Regulatory attention has also focused on the energy sector this year, with rationing enforced to meet climate targets. Going forward, even though the energy rationing should be eased (to avoid further disruption and effects on popular discontent), industrial production will be negatively impacted and energy costs will rise in the coming months (early reports were already suggesting price increases of 5-30% in heavy industry). See the Box at the end of this section for more details on the regulatory crackdowns.

In this context, we revise our China GDP growth forecasts on the downside to +7.9% in 2021 and +5.2% in 2022, from +8.2% and +5.4%, respectively, on the basis of the carryover from H1 2021 already at +7.4% but slower growth in H2 2021 (see Figure 5). The softness is likely to extend into the beginning of next year, while H2 2022 could be less worrying, with the critical 20th Party Congress to take place in autumn.

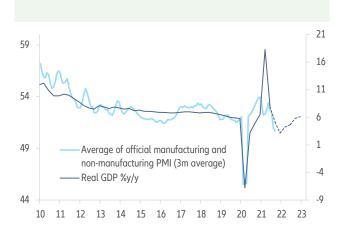
Figure 4: Bond redemption schedule of 10 selected risk real estate developers\* (RMB bn)



\* these are companies among the top 50 largest ones (in terms of assets) that cross or are close to crossing all of the "three red lines".

Source: National Bureau of Statistics of China, Euler Hermes, Allianz Research

Figure 5: Real GDP growth (%y/y) and PMI surveys



Source: National Bureau of Statistics of China, Euler Hermes, Allianz Research

#### Box: Converging toward a sustainable growth model through "Common prosperity" and regulation

"Common prosperity": an even clearer and more forceful effort toward a sustainable and fair growth model in the long run. Over the past few years, authorities have implemented numerous initiatives to move China's economic model away from the pursuit of growth at all costs toward more sustainability and risk mitigation (e.g. cleaning up local government finance in 2014, overcapacity cuts in 2015-2016, reducing leverage in the financial sector in 2017, dual circulation<sup>3</sup> in 2020, etc.). The "common prosperity" focus promoted by Chinese authorities in the past quarters is the latest expression to encompass these reforms, although it is not a new expression in China's contemporary history. Beyond potential political motivations, the target of common prosperity" has been the major driver behind the ongoing regulatory crackdown that is weighing on economic activity and financial markets. That being said, it is important to keep in mind that the concept relies on two components: "common" (meaning redistribution) and "prosperity" (pointing to continued output expansion). On the latter component, "prosperity" is about boosting the factors of production and/or making them more efficient. In this sense, the "third child" policy introduced in 2020 can help support labor supply in the medium to long run; reallocating financial resources toward the real economy (e.g. instead of the already leveraged real estate sector) can help raise capital's contribution to potential growth and supporting innovation (e.g. in hard technology sectors) and competitiveness (cf. antitrust cases) can enhance productivity. The "common" component is about reducing inequality and improving social mobility. Potential fiscal measures in favor of redistribution, and reforms to provide fairer opportunities (e.g. on education through the regulation on private tutoring and online gaming or on housing costs, access to public services, etc.) are illustrative of this target. In this context, several sectors have found themselves in the eye of the regulatory storm, with real estate the one with largest potential macroeconomic impact.

The regulatory crackdown against the real estate sector is unlikely to be dialed down – a pause may be considered, but no reversal. The real estate sector has played a countercyclical role in the past, which led to structural vulnerabilities that became particularly apparent after the 2016 stimulus. Indeed, real estate developers face strong competition to secure costly land (from local governments) and liquidity needs make them highly dependent on credit and advance payments from households – their deposits and mortgages accounted for 54% of developers' funding in August 2021 (compared with a ratio between 35-40% before 2016). Household debt rose from 40% of GDP at the end of 2015 to 62% at the end of 2020. In H2 2020, authorities announced that caps on banks' exposure to the real estate sector (both developers and mortgages, see Figure 6) would be gradually implemented, and that real estate developers would be limited by "three red lines", with an impact on the allowed pace of credit expansion (see Figure 7).

Figure 6: Caps on banks' outstanding loan distribution

	Real estate loans	Mortgage
Large banks	40.00%	32.50%
Medium-sized banks	27.50%	20.00%
Small-sized banks	22.50%	17.50%
County and rural banks	17.50%	12.50%
Village and town banks	12.50%	7.50%

Note: the caps can be adjusted by 2.5pp, depending on the region's economic performance. Banks that do not meet the requirements are granted a grace period (two years if miss by less than 2pp, four years if more).

Sources: PBOC, Euler Hermes, Allianz Research

Figure 7: Rules to be met by real estate developers by mid-2023

"The three red lines"			
1.	Liabilities-to-assets ratio (excluding advance receipts) <		
2.	2. Net debt-to-equity ratio < 100%		
3. Cash-to-short term debt ratio > 100%			
Number of red lines breached		Annual debt growth allowed	
0		15%	
1		10%	
2		5%	
3		0%	

Sources: Official sources, Euler Hermes, Allianz Research

Other areas of increased regulatory scrutiny include energy and local government finances, but it could be eased to mitigate the impact on short-term growth. In an aim to achieve environmental targets, annual limits on energy consumption and energy intensity have been put in place by the central government. This context along with higher coal prices (thermal power still accounts for nearly 70% of China's electricity production) have been weighing on energy supply and industrial activity over the past few months. Indeed, electricity rationing has been announced in August for nine Chinese provinces, accounting for c.40% of industrial activity and c.35% of GDP. In September, the number of provinces affected by power restrictions was expanded to more than twenty. The energy crisis has pushed Chinese authorities to review some measures. On 8 October, the State Council said it would allow power prices to rise by as much as +20% (from +10% previously) to incentivize production and ordered coal miners to expand production significantly. China's banking and insurance regulator also called on financial institutions to increase their risk tolerance for loans to coal plants.

Separately, another regulatory space concerns local government finances. The issue of local government implicit debt, contracted through financing vehicles and not official bonds, has been on the radar over the past decade, with concrete actions being taken since 2014. Further documents have been issued by China's banking and insurance regulator this year to control financial institutions' exposure to local government implicit debt, along with actions to restructure the existing debt.

<sup>&</sup>lt;sup>3</sup> See our report <u>Dual circulation: China's way of reshoring?</u>

## WHAT COULD GO WRONG?

Worries about the Chinese economic slowdown are likely to remain in the coming quarters, with risks still tilted to the downside. Our revised GDP growth forecasts assume the absence of a new significant Covid-19 outbreak to allow for the recovery in services to carry on, though industrial activity and the real estate sector should be under pressure in the coming few months. In particular, we would watch out for concerns in the real estate sector deteriorating further in a long-lasting way, the energy shortage spreading further and worsening, a patchy recovery of services (subject to the sanitary situation), fiscal spending failing to ramp up, the "common prosperity" goal scaring off private and foreign investment (in the short and long-term) and, externally, geopolitical tensions. Symmetrically to these downside risks to the economy, the possibility of more significant policy easing and changes to the regulatory environment are likely to depend on the labor market as social peace has been and remains the overarching target for authorities.

The key downside risk: real estate issues broadening and spilling over to other areas of the economy. Such a situation could be the result of policies remaining overly tight, and authorities' communication and actions (e.g. on liquidity conditions and regulation) not being forceful and convincing enough. Weak confidence would thus last for longer, leading to a sharper slowdown in housing activity than expected, which

in turn could impact the broader economy. Indeed, we estimate that, accounting for downstream upstream sectors, final demand generated by the real estate sector accounts for c.25% of China's GDP. Furthermore, housing represents 78% of household assets, 40% of bank loans are backed by properties<sup>4</sup> and land sales amount to roughly one-third of local governments' gross revenues. A significant housing downturn could thus limit fiscal policy's room for maneuvering and put pressure on the stability of some financial institutions - most likely smaller ones that are already the most vulnerable<sup>5</sup>. That being said, a widespread banking or financial crisis remains unlikely in our opinion: the sector has gone through deleveraging and de-risking efforts over the past few years (both for on- and off-balance sheet exposures), lending standards for mortgages are tight in China compared to the rest of the world (most notably, Chinese homebuyers need to make an at least 30% down payment for most first-home purchases) and the central bank has demonstrated in the past that it can react quickly against stress episodes (e.g. liquidity crunch in June 2013).

Another downside risk: geopolitical tensions ramping up. Recent events have reminded us yet again of external risks that surround the Chinese economy. Renewed tensions emerged in the region as a record number of Chinese military aircraft flew into Taiwan's air defense identification zone in early October 2021. Harsher language was also

recently used on both sides of the Taiwan Strait. This comes in the context of US military forces holding military exercises in Asia-Pacific with allies, along with seemingly strengthening relationships with countries in the region (first meeting of the Quadrilateral Security Dialogue between the US, India, Japan and Australia in March 2021, AUKUS security pact reached in September 2021 between the US, the UK and Australia, etc.). The likelihood of an actual conflict erupting remains extremely low as all sides still deem the costs outweighing the benefits. However, the situation creates conditions for an accidental further escalation. It also probably denotes the intention of the US to further deploy its containment strategy against China, which started with the Obama administration and its geostrategic pivot toward Asia. Separately, US-China trade relations are unlikely to improve, as illustrated by the Biden administration's agenda for trade with China revealed in early October. China is also falling behind regarding its Phase One Deal commitments, with imports from the US at 61% of the goal as of August 2021<sup>6</sup>. The resumption of bilateral discussions (including a longawaited virtual summit meeting between President Biden and President Xi scheduled for the end of 2021) is marginally positive as it excludes the return of trade tensions at the level seen during the Trump administration. We continue to expect a status quo in US-China trade tariffs, although non-tariff barriers could increase.

<sup>&</sup>lt;sup>4</sup> This compares with real estate loans as a share of total loans in the US amounting to 46% in 2020, and 57% in 2009.

<sup>&</sup>lt;sup>5</sup> See our report *Chinese banks put to the test of RMB8tn of Covid19 problematic loans* 

<sup>&</sup>lt;sup>6</sup> According to the Peterson Institute for International Economics

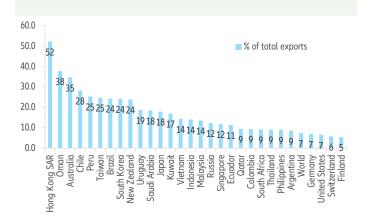
### WHAT DOES CHINA'S SLOWDOWN MEAN FOR THE REST OF THE WORLD?

From a global supply perspective, the Chinese economic slowdown could further raise the cost of trade and lengthen delivery delays<sup>7</sup>. In particular, the electricity rationing measures are pushing production costs up, which in turn will raise the price of goods exported from China to the rest of the world and potentially pressure corporate margins, especially in Europe, Potential new outbreaks of Covid-19 in China could also risk pushing supply chain delays even longer. In addition, we do not expect sharp depreciation of the CNY that could compensate for these upward price pressures. Apart from price effects, slower industrial and manufacturing activity in China could worsen production shortfalls issues in the US and Europe.

From a global demand perspective, some commodity prices, emerging markets and exporters to China would suffer from the economic slowdown. A slower China is mostly negative for emerging markets, the Asia-Pacific region and some commodity exporters (see Figure 8). We find that Chile, Hong Kong, Peru, Australia and South Africa could be most at risk as exports to China in the construction and metals sectors account for more than 2% of their GDPs (see Figure 9). Conversely, exporters of energy and more precisely thermal coal (particularly in Indonesia, Malaysia and Australia in Asia-Pacific) are likely to see rising demand in the context of the ongoing energy crisis in China.

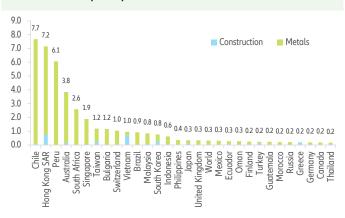
Beyond the short to medium-term, dependent on Chinese countries demand will need to deal with its adjustment to a lower growth regime (which started before Covid-19), and the ensuing risks. Indeed, our growth potential model suggests China's GDP growth is likely to average between +3.8% and +4.9% over the coming decade (after +7.6% in the 2010s). China's changing economic model could also alter exporters' exposures in the long run, with those reliant on heavy industry and construction to comparatively lose out, while those related to consumption and high technology goods could benefit.

Figure 8: Exports to China, as % of total exports (2021E)



Sources: various, Euler Hermes, Allianz Research

Figure 9: Exports to China in the construction and metals sectors, as % of GDP (2021E)



Sources: various, Euler Hermes, Allianz Research

<sup>&</sup>lt;sup>7</sup> See our report *Global trade: Ship me if you can:* 

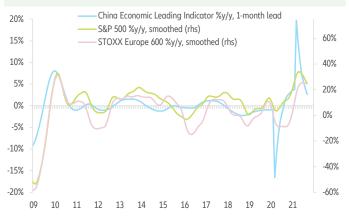
From a financial markets perspective, the Chinese economic slowdown could weigh on other equities, with a potential negative wealth effect on consumers. Worries about the Chinese economy and/or actual slowdown have in the past weighed on market performance in the rest of the Asia-Pacific region and the rest of the world (see Figure 10). Apart from sentiment contagion (which we analyze later in this section), this relationship isn't surprising when considering for example equity indices, where constituent companies derive a share of their revenues directly from sales in China. More precisely, in 2020, 75 companies in the S&P 500 index (representing 20% of total market capitalization) and 100 companies in the STOXX Europe 60 index (representing 30% of total market capitalization) reported sales in China (see Figure 11). Among these companies, China represented 15% of total revenues in the US and 12% in Europe<sup>9</sup>.

Beyond Asia-Pacific and emerging markets, a Chinese economic slow-down could thus weigh on capital markets in the US and Europe, which could in turn impact households and private consumption through a negative wealth effect. Indeed, we find that securities amount to 25% of households' financial assets in Germany, 28% in France, around 40% in Italy and Spain, and as much as 55% in the US (primarily equities)<sup>10</sup>.

Could stress episodes in Chinese capital markets spill over to the rest of the world? Chinese offshore corporate bonds are more at risk, while sentiment contagion to other markets is more likely for equities than corporate credit. In both asset classes, however, a spillover is more likely in the event of significant negative performance in China. China's corporate bond market has been under pressure over the past few

months and we expect further defaults among risky real estate developers in the short-term, especially on offshore bonds (i.e. denominated in foreign currencies). Problems are likely to remain contained to the real estate high-yield space (see Figure 12) and valuations of risky real estate developers. The Chinese real estate sector overall has a weight of just c.2% in the MSCI EM and JPM CEMBI indices. To analyze the possible spillover effects of Chinese markets to other financial markets, we look at the bivariate cumulative distribution function (hereinafter "copula") of Chinese assets performance with their counterparts from different geographies. This kind of analysis allows us to identify whether two given variables (in this case monthly log returns) behave similarly at different points of the distribution.

**Figure 10:** China economic activity vs. US and Europe equity performance



Sources: Refinitiv, Euler Hermes, Allianz Research

Figure 11: Listed companies' revenues generated in China

	Number of companies reporting revenues in China (as % of total)	Market capitalization (as % of total)	Revenues generated in China (as % of total)
US	15%	20%	15%
Europe	18%	30%	12%
Japan	27%	26%	12%
Taiwan	46%	69%	14%
South Korea	35%	58%	21%
India	3%	1%	9%
Brazil	3%	12%	47%
Russia	19%	<1%	7%

Note: 2019 for Japan

<sup>&</sup>lt;sup>9</sup> These ratios can increase up to 22-23% when looking at the technology sectors in both markets. Consumer discretionary companies are also quite exposed, with 17% of revenues generated in China within the S&P 500 reporting companies and 10% within the STOXX Europe 600 reporting companies. In the latter index, other sectors worth noticing are basic materials (20% of reporting companies' revenues), healthcare (14%), industrials (12%) and consumer staples (11%).

<sup>&</sup>lt;sup>10</sup> See the <u>Allianz Global Wealth Report 2021: Saving from home</u>

When applying the copula analysis to Chinese high-yield bonds and other bonds from different geographies, we find the highest co-movements at the left tail (i.e. in situations of large negative performance) with corporates in the US, the Eurozone and emerging markets. The covariance rates are positive but even for the aforementioned regions, the synchronization does not appear very strong. After applying the same analysis to the equities markets, the picture varies within certain geographies. Conversely to corporate

bonds, at the left tail of the distribution, co-movements in equities with the rest of Asia are more significant than with other regions. But again, across all geographies, all the covariances are positive and the contributions are bigger in the left tail. When comparing with corporate credit, the co-movements in equities are greater (taking China as the pivoting point), which indicates that the markets for equities are more interconnected. That being said, our analysis also shows that even a month with up to -6% returns in the MSCI China

would not necessarily come along with a similar negative performance in other markets. However, the copula has some limitations when it comes to detecting which assets lead and which follow (if such relationships exist). We address this issue by building a contagion analysis next, where we explore the relationship of Chinese capital markets with other markets in an event of significant stress or crash (not our central scenario).

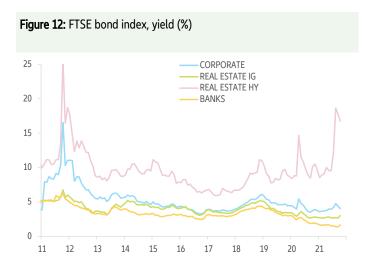


Figure 13: Bivariate cumulative distribution – BofA Corp HY Chinese bonds vs. regional bond indices

0.0003

- - BofA Corp HY Euro
Bofa Corp HY USA
BofA Japan
FTSE Corp EM ex-China
Iboxx Asia ex-China ex-Taiwan

0.0002

0.0001

Sept2021 for BofA Corp HY China
-0.0001

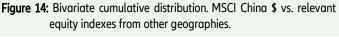
6%

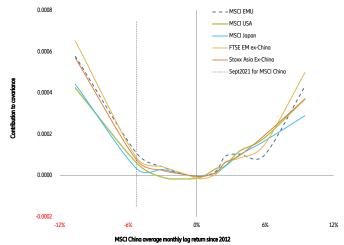
2%

BofA Corp HY USA guergae monthly log return since 2012

Sources: FTSE, Euler Hermes, Allianz Research

Sources: Bloomberg, Refinitiv, Euler Hermes, Allianz Research.





far-reaching, probably beyond Asia and changes over time. emerging markets. Having established the existence of a relationship, we now Corporate bond markets: When looking is a fully relevant example of potential carry out a TYDL contagion analysis, as at the direction of spillover effects spillovers in the event of a future crisis: in Marais & Bates (2006)<sup>11</sup>, allowing us to (Figure 15) in this space, we find that Since 2018, Chinese credit has become identify in which way the cross-before 2015, Chinese markets were more important and intertwined with geography correlations usually go (i.e. influenced by the Eurozone, US and developed markets (Eurozone, US, whether A precedes B, or B precedes A). other emerging markets while having a Japan). In our view, a crisis in China could Additionally, we have split this analysis very limited impact on the US and Asia. now have more damaging conseinto three different periods: 1/ Septem- During the 2015 crash, spillovers from quences and potentially reach well ber 2012 to June 2015, 2/ June 2015 to Chinese credit were directed towards the beyond the EM space.

In a scenario where things go wrong in crash) and 3/ after 2018. This separation markets were less impactful on China. In China, financial spillovers on the rest of allows us to analyze not only the direc- other words, Chinese credit bonds falling the world would be more significant and tion of the movements, but also how it by -1% in 2015 drove down EM credit

June 2016 (covering the Chinese equities EM credit space and Eurozone and US

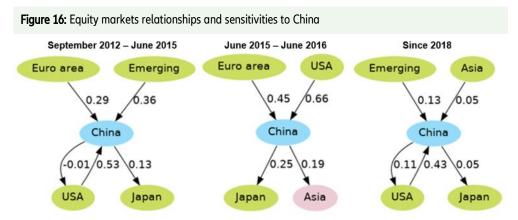
by -11 bps – all other things being equal. However, we do not believe this episode



Sources: Bloomberg, Refinitiv, Euler Hermes, Allianz Research

Equity markets: A similar contagion ana- whereas before 2015 China had a with the foreign ownership of Chinese lysis in this space yields similar conclusi- limited impact on other markets (mostly equities and bonds rising 2.5x between ons. The 2015 crash in China led to a spillovers towards Japan), since 2018 it the beginning of 2016 and beginning of regional story: Our analysis finds that a has been less influenced by other 2018 (and around 6x by the beginning of -10% drop in Chinese equities would markets ("received" elasticities are down) 2021). As such, our analysis leads us to have driven Japanese and Asian equities and most importantly, Chinese equities believe that a crash in Chinese financial down by -2.5% and -1.9%, respectively now have a sizeable impact on US mar- markets today could result in a broader (see Figure 16). Nevertheless, the role of kets – which set the tone for global equi- and stronger fallout for global markets. Chinese equities in global markets has ties. This is consistent with the increasing

changed quite a bit since 2018. Indeed, liberalization of Chinese capital markets,



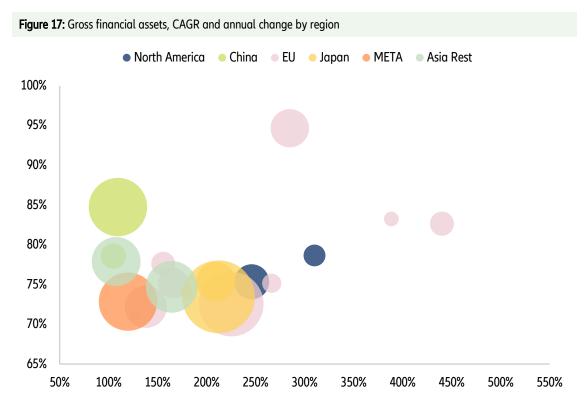
<sup>11</sup> Marais, E., and S. Bates. 2006. "An Empirical Study to Identify Shift Contagion during the Asian Crisis." Journal of International Financial Markets, Institutions and Money 16 (5).

Could concerns over China's real estate Within this context, we perform a "sanity Taking into account indebtedness level sector act as a wake-up call for other check" by testing whether the more than and size, at a country level, there could countries? We find no other companies 600 real estate companies listed world- be systemic concerns outside China but that present a risk with magnitude simi- wide would comply with the "three red in general if we make a global comparifinancial spillovers, even if a widespread focus specifically on real estate develo- harmful potential than the risk of an unsentiment contagion is avoided (be it in pers (237 out of the more than 600 to- structured settlement of the current situequities or in corporate credit), is at the tal), measuring not only the performance ation in China. However, we should mohave put the sector under strict scrutiny also considering the size of the company two real estate developers cross the the world. Fueled by uncertainties operates in (to gauge whether it is of surrounding the post-Covid recoveries even more uncertain is the long-term footprint that the crisis will leave on the sector, given the shift to working from home – and rising real estate prices, the events in China have created a "hunting for the next default" mindset.

lar to Evergrande. An additional form of lines" set out by Chinese authorities. We son, none of them (alone) has the same real estate sector level. Ongoing events with regard to the "three red lines" but nitor developments in Canada where not only in China, but also in the rest of (its assets) and the size of the country it "three red lines", Germany (three develosystemic size).

> Our analysis shows that there are other big indebted real estate developers in other parts of the world that would not meet the "three red lines". Figure 17 shows the liabilities-to-assets and netdebt-to-equity ratios of those companies.

pers) and Japan (three developers). Some other countries should also be monitored, however to a lesser extent: Belgium, Denmark, Estonia, Poland, Cyprus, Saudi Arabia and Vietnam. In each of these countries, one developer has crossed the "three red lines".



Note: the size of the bubble is total assets adjusted by the GDP of the country. When not from the US, currencies have been converted to USD using the exchange rates on 11 October 2021.

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