







NatixisChina Corporate Debt Monitor

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In a nutshell

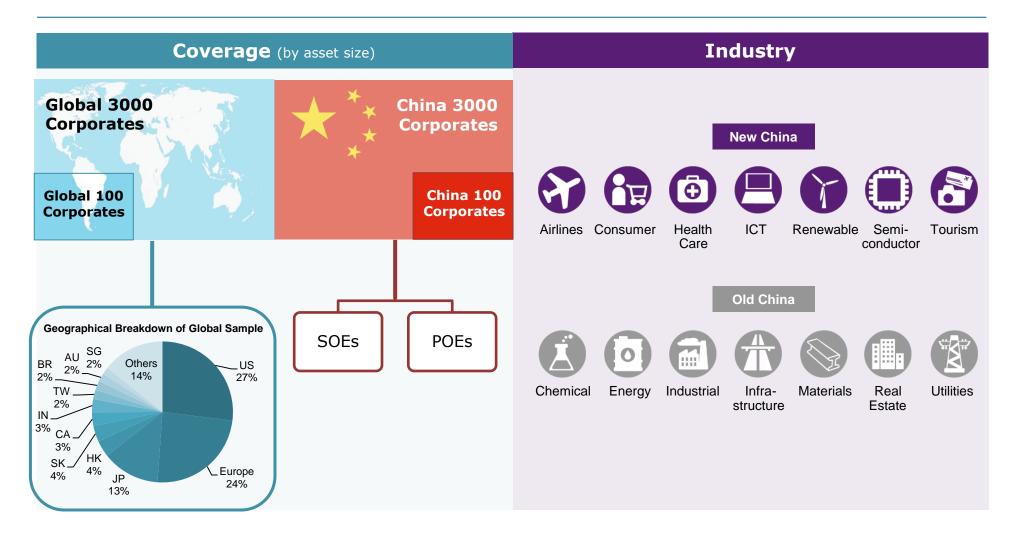


The Natixis China Corporate Debt Monitor Our first annual report on China's corporate health

- A deep-dive look at the ability of the 3,000 largest Chinese listed companies to repay, comparing them with global peers
- Dataset sliced from different perspectives to give conclusions by:
 - Old China (investment-driven) versus New China (consumption-driven)
 - Ownership structure (State-owned or privately-owned)
 - Company size (100 largest versus full sample)
 - 14 individual sectors

Key concepts for sector coverage





Key Messages



New China emerging, but still early days

- China's companies **heavily weighted towards old industry sectors** (73% of assets in the sample, versus 53% for the global peer group)
- Imbalance worst among largest companies:
 - Real estate accounts for 25% in China versus 0.5% globally
 - **Consumer** sector accounts for ~6% in China versus ~23% globally

Key Messages



Chinese companies more vulnerable than global peers

- Lower leverage but weaker repayment ability interest coverage ratio of 5x versus 8x for global peers
- **Higher funding risk** short-term liabilities account for 86% of total liabilities versus 40% globally

Debt concentrated in large companies, especially private

- Repayment ability lowest among the 100 largest Chinese companies
- Large private companies weakest, with 25% unable to cover interest payments through earnings – primarily caused by the large weight of the heavilyindebted real estate sector

Key Messages



New China in best shape

- Healthcare and travel-related companies less indebted and more profitable than global peers
- Airlines also boast better profit margins than global peers

Overall

- Divergence in China's corporate health set to continue as new industry sectors grow faster than old industries
- Current monetary and fiscal stimulus may ease the old industries' problems, but as China rebalances, old industry revenues will never regain their original levels
- A wholesale restructuring of old industry sectors seems unavoidable



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1. Natixis China Corporate Debt Monitor Quick Guide

Quick Guide

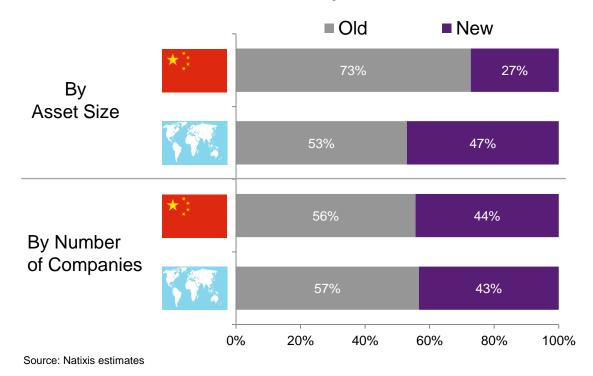


Old and new industries: China versus the rest of the world



- By assets, China is overweight in old industries
- But in line with the global norm by number of companies

China and Global 3000 by Old and New Industries



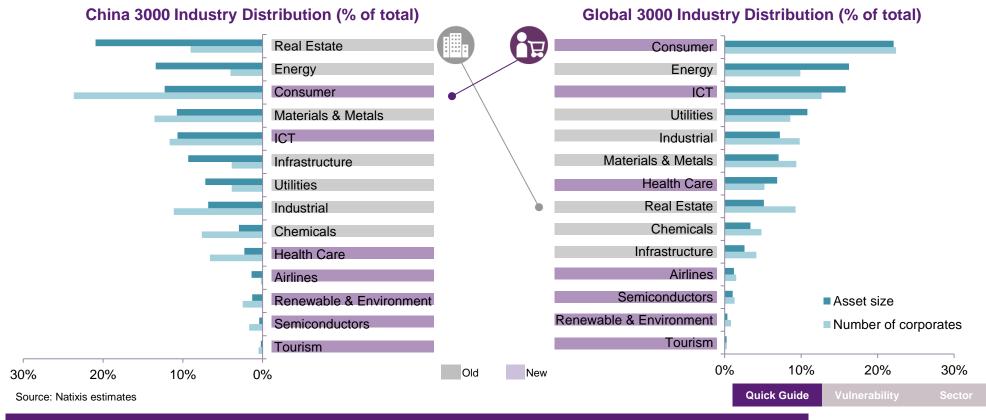
Quick Guide Vulnerability Sector



Real estate - China's dinosaurs



- The real estate sector has been central to China's old growth model, but it is now disproportionately large, especially in terms of assets
- New industry sectors such as consumer goods & services still small and quite fragmented compared to the rest of the world







2. Chinese companies' financial vulnerability

Key factors in our corporate health analysis



Focus on repayment ability

Leverage Total Liabilities/Common Equity **Funding Risk** Short Term/Total Liabilities Repayment • EBITDA/Interest Expense - Interest burden • Interest Expense/Total Debt Effective Tax Rate - Tax - Profit Margin Net Income/Revenue

Chinese corporates have a weaker repayment ability than global peers



- Leverage only ~50% of global average, but funding risk is double
- Repayment ability half global rate, with more outliers → 16% of companies cannot service debts through earnings (versus 9% globally)

	China 3000	Global 3000
Leverage	0	X
Funding Risk	х	0
Repayment	Х	0

Total Liabilities/Common Equity
Short term/Total liabilities
EBITDA/Interest Expense

- Percentage of Corporates with ratio < 1

China 3000	Global 3000
86	152
86	40
5	8
16	9

Source: Natixis estimates

Quick Guide

Vulnerability



A deeper look at Chinese' corporates' repayment ability





A deeper look at Chinese' corporates' repayment ability





Quick Guide

Vulnerability



Does company size matter? Yes – Large is worse than small



- Chinese companies have higher funding risk and lower repayment ability than global peers
- Large companies are much more leveraged, although they are slightly better than average in funding risk and repayment ability

	Small corporates		Large c	<u>orporates</u>
	China 3000 Global 3000		China 100	Global 100
Leverage	0	X	X	0
Funding Risk	х	0	х	0
Repayment	X	0	X	0

Total Liabilities/Common Equity Short term/Total liabilities EBITDA/Interest Expense

- Percentage of Corporates with ratio < 1

China 3000	Global 3000	China 100	Global 100
86	152	261	178
86	40	67	39
5	8	4	11
16	9	12	2

Source: Natixis estimates

Quick Guide

Vulnerability



Large companies dominate old industries



- Large companies have accumulated a massive amount of assets in old industries – they are at the core of China's overcapacity problem
- New China is emerging but still at an early stage

Table: Industry Distribution of Top 100 China and Global Corporates

China 100	Asset	Count
Old	77.0%	76
New	23.0%	24
Real Estate	25.4%	30
Energy	20.3%	7
ICT	13.9%	10
Infrastructure	12.3%	9
Utilities	7.9%	12
Materials & Metals	7.0%	11
Consumer	6.1%	9
Industrial	3.6%	6
Airlines	2.5%	4
Health Care	0.5%	1
Renewable & Environment	0.4%	1

Global 100	Asset	Count
Old	45.7%	45
New	54.3%	55
Energy	24.3%	17
Consumer	22.6%	19
ICT	22.3%	22
Utilities	11.7%	13
Health Care	8.8%	12
Materials & Metals	4.9%	7
Industrial	2.6%	4
Chemicals	1.2%	2
Semiconductors	0.6%	1
Infrastructure	0.6%	1
Real Estate	0.5%	1

Source: Natixis estimates

Quick Guide

Vulnerability



In-depth Look





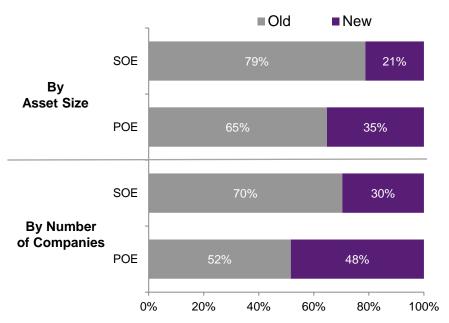


Does ownership matter? SOEs bigger and concentrated in old industries



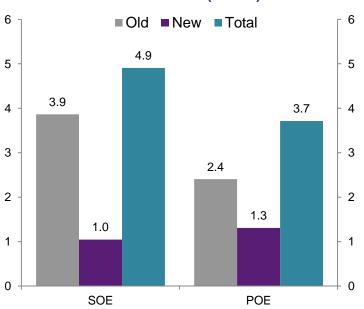
- SOEs dominant in old industries → indicates weaker repayment capacity
- POEs have a greater presence in new industries

China SOEs and POEs by Old and New Industries



NB. USDCNY 6.201 is used as of 6/30/2015. Source: Natixis estimates

China SOEs and POEs Asset Size by Old and New Industries (USD tr)



Quick Guide

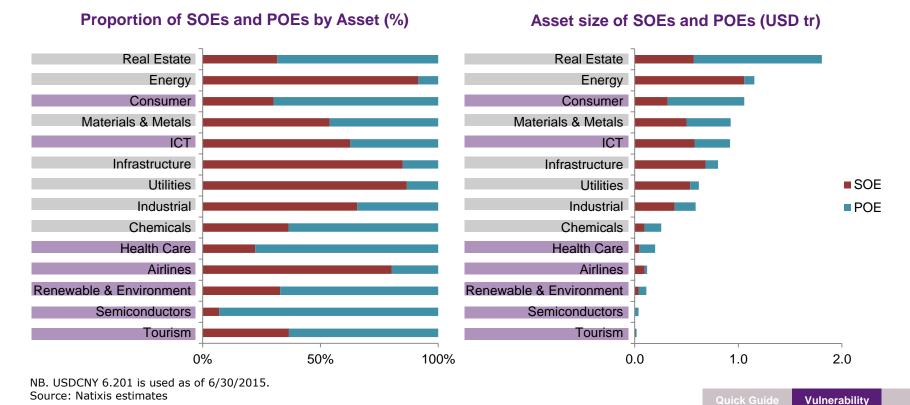
Vulnerability



SOEs dominate old sectors but not always



- SOEs dominate old sectors except for a very important case, given its size, the real estate sector. Also chemicals are dominated by POEs
- POEs are dominant in new sectors with the notable exception of airlines, followed by ICT



Are POEs riskier than SOEs? Not always



- Overall, SOEs actually have more debt and a worse repayment ability than POEs
- But they can borrow longer term due to their explicit/implicit government guarantee

	SOE	POE
Leverage	х	0
Funding Risk	0	X
Repayment	X	0

Total Liabilities/Common Equity Short term/Total liabilities EBITDA/Interest Expense

- Percentage of Corporates with ratio < 1
- Interest Expense/Total Debt
- Effective Tax Rate
- Profit Margin

SOE	POE
139	76
78	88
4	5
19	15
5.3	5.4
21	23
5	6

Source: Natixis estimates

Quick Guide

Vulnerability



But large POEs are the worst of all



• Large POEs are more leveraged than large SOEs, and 26% have an interest coverage ratio below 1 \rightarrow real estate companies are the main culprits

	Small corporates		Large co	<u>orporates</u>
	SOE	POE	SOE 100	POE 100
Leverage	X	0	0	X
Funding Risk	0	X	-	-
Repayment	X	0	0	X

Total Liabilities/Common Equity Short term/Total liabilities EBITDA/Interest Expense

- Percentage of Corporates with ratio < 1
- Interest Expense/Total Debt
- Effective Tax Rate
- Profit Margin

SOE	POE	China100 SOE	China100 POE
139	76	260	277
78	88	67	67
4	5	5	3
19	15	3	26
5.3	5.4	4.9	5.9
21	23	23	26
5	6	5	11

Source: Natixis estimates

Quick Guide

Vulnerability

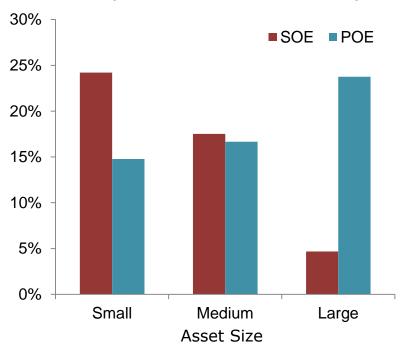


For SOEs, the smaller the worse



- The smaller the SOE, the higher the repayment risk
- The opposite is true for POEs, where larger companies are more vulnerable

Share of companies with EBITDA/Interest Expense <1



Source: Natixis estimates

NB Small (<10bn CNY), Medium (Asset <50bn CNY) and >10bn CNY), Large (Asset>= 50bn CNY)

Number of SOEs: 638, POEs: 2362

uick Guide Vulnerability Sector



In-depth Look

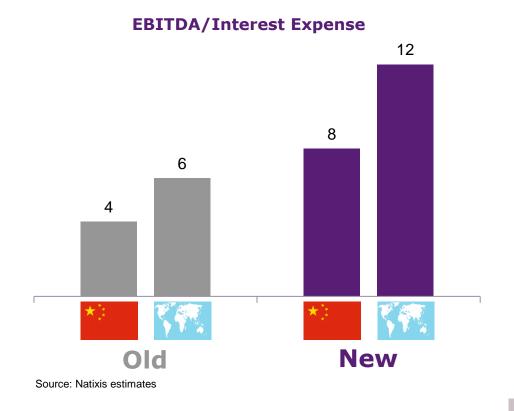




Old sectors doing worse, especially in China



- The repayment ability of Chinese old industries is weaker than global peers...
- ...and weaker than Chinese new industries



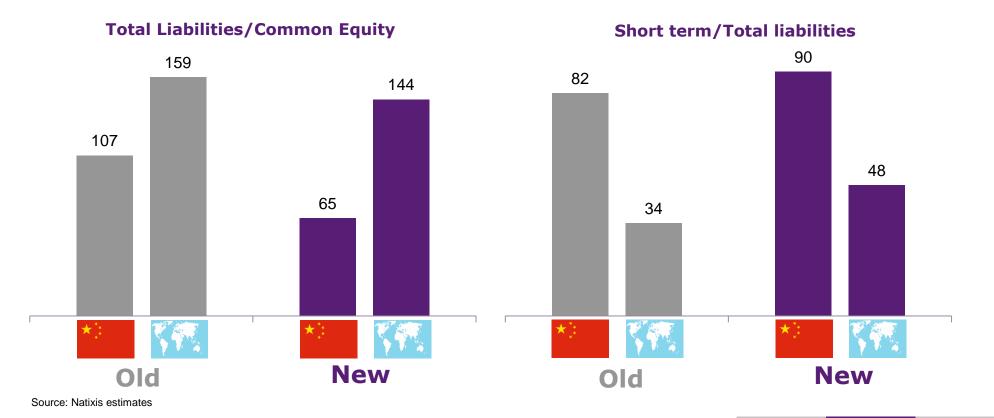




Hope from New China



- Chinese new industries less indebted than global peers...
- ...but with much shorter term funding



New sectors better than old generally



	China *:	Global
Old	Lower repayment ability	Lowest liquidity riskBut most leveraged
New 🕒	Least leveragedBut highest funding risk	Higher repayment ability
Source: Natixis		

Quick Guide

Vulnerability



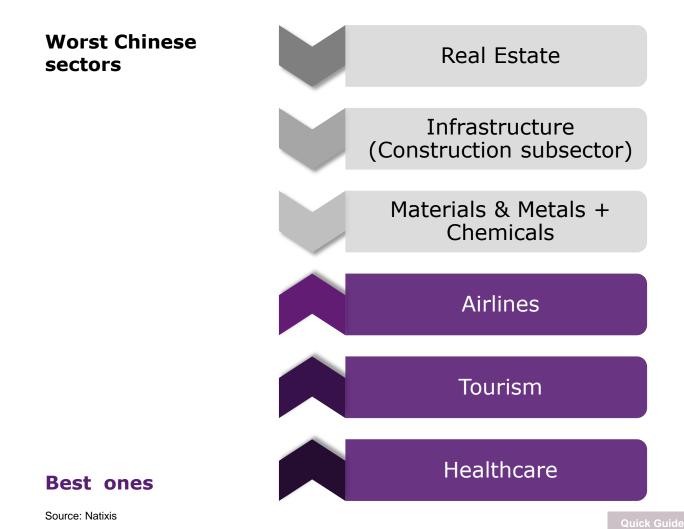


Our picks: The best and worst sectors



Not all Chinese companies are financially worse than global peers







Build more homes to leave them empty?

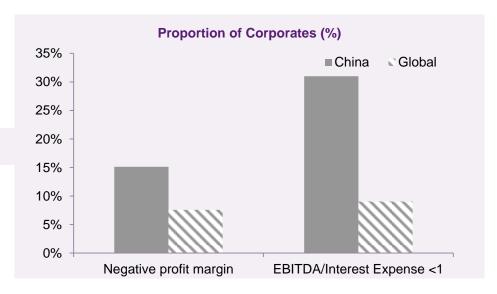


Real Estate

- Twice as indebted as global peers
- One third of companies cannot cover interest expense with earnings



Indicator	China	Global
Total Liabilities/Common Equity	209	115
Short Term/Total Liabilities	74	30
EBITDA/Interest Expense	2	4
- Interest	6	4
- Tax	28	18
- Profit Margin	10	22



Source: Natixis estimates

Quick Guide

Vulnerability



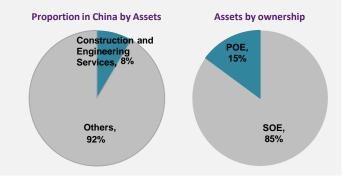
Build more highways

and let toll companies eat the pie?

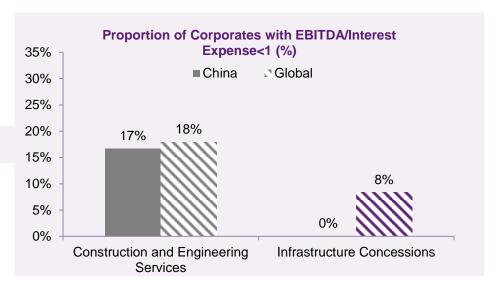


Infrastructure (the construction subsector)

- Builders of roads and highways have lower repayment ability than global peers
- But they have higher profit margins thanks to lower tax rates



Indicator	China	Global
Total Liabilities/Common Equity	148	259
Short Term/Total Liabilities	90	61
EBITDA/Interest Expense	3	4
- Interest	5	4
- Tax	21	29
- Profit Margin	4	2



Source: Natixis estimates

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Vulnerability



Don't stop making bricks

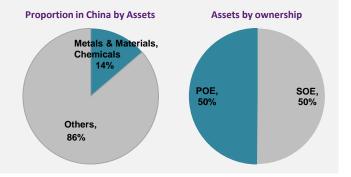
China can build to infinity, and beyond!?



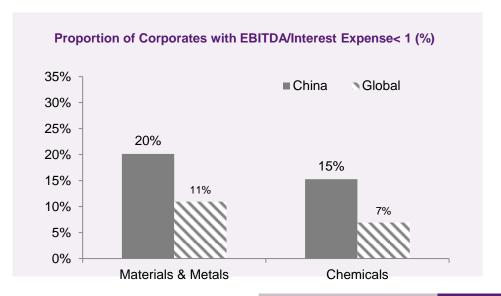


Materials and Metals + Chemicals

- One fifth of Materials & Metals companies have problems repaying interest
- Similar story for Chemicals



Indicator	China	Global
Total Liabilities/Common Equity	93	132
Short Term/Total Liabilities	86	41
EBITDA/Interest Expense	4	9
- Interest	6	4
- Tax	19	28
- Profit Margin	3	4



Source: Natixis estimates

Quick Guid

Vulnerability



Let's travel!

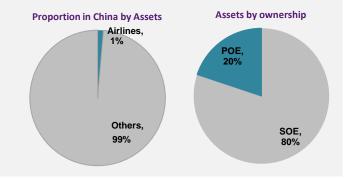
More and more planes... with full seats!



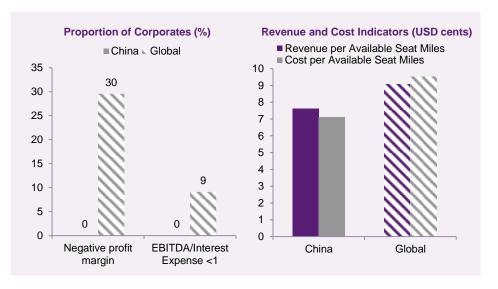


Airlines

- Chinese airlines clearly more profitable than global peers
- Many zombies at global level: 30% of airlines globally have a negative profit margin



Indicator	China	Global
Total Liabilities/Common Equity	294	269
Short Term/Total Liabilities	39	43
EBITDA/Interest Expense	8	9
- Interest	3	4
- Tax	23	22
- Profit Margin	8	4



Source: Natixis estimates

Quick Guide

Vulnerability



Fancy a vacation?

The demand is there

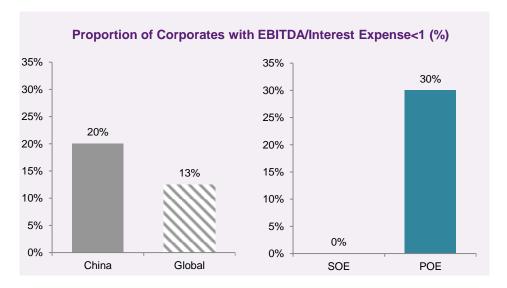


Tourism

- Although generally sound, Chinese tourism companies still suffer from higher interest and tax burdens than global peers.
- But they are still profitable, and VAT reform should give corporates in this sector more leeway
- Some clear zombies, especially in China



Indicator	China	Global
Total Liabilities/Common Equity	60	317
Short Term/Total Liabilities	65	66
EBITDA/Interest Expense	9	10
- Interest	5	3
- Tax	26	16
- Profit Margin	4	2



Source: Natixis estimates

Quick Guide

Vulnerahili



Health is wealth Getting old gracefully

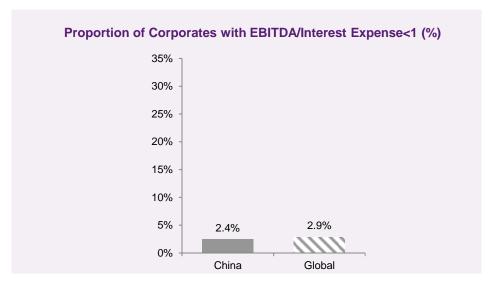


Health Care

- Corporates in the Wellness subsector have a strong repayment ability, even more so that global peers
- Also very profitable



Indicator	China	Global
Total Liabilities/Common Equity	49	117
Short Term/Total Liabilities	86	38
EBITDA/Interest Expense	11	11
- Interest	5	4
- Tax	16	28
- Profit Margin	12	8



Source: Natixis estimates

Quick Guide

Vulnerability



Zombies concentrated in old sectors... But a few also in new ones



Percentage of firms with negative profit margin			
Sector	China	Global	CH-GL
Airlines	0%	30%	-30%
Infrastructure	11%	25%	-14%
Energy	29%	39%	-10%
Utilities	4%	13%	-9%
Renewable & Environment	20%	25%	-5%
Tourism	20%	25%	-5%
Industrial	10%	13%	-3%
ICT	14%	16%	-2%
Health Care	7%	7%	-1%
Semiconductors	8%	8%	0%
Materials & Metals	29%	27%	2%
Consumer	13%	8%	5%
Real Estate	15%	8%	8%
Chemicals	24%	8%	17%

Percentage of firms with EBITDA/interest expense <1

T crocinage of firms with EBITBA interest expense <1					
Sector	China	Global	CH-GL		
Airlines	0%	9%	-9%		
Utilities	3%	9%	-5%		
Infrastructure	14%	17%	-3%		
Renewable & Environment	11%	13%	-2%		
Energy	19%	20%	-1%		
Semiconductors	8%	8%	0%		
Health Care	7%	4%	3%		
Industrial	13%	6%	6%		
Tourism	20%	13%	8%		
Chemicals	15%	7%	8%		
Materials & Metals	20%	11%	9%		
ICT	19%	8%	10%		
Consumer	14%	4%	11%		
Real Estate	31%	9%	22%		

Source: Natixis estimates Source: Natixis estimates



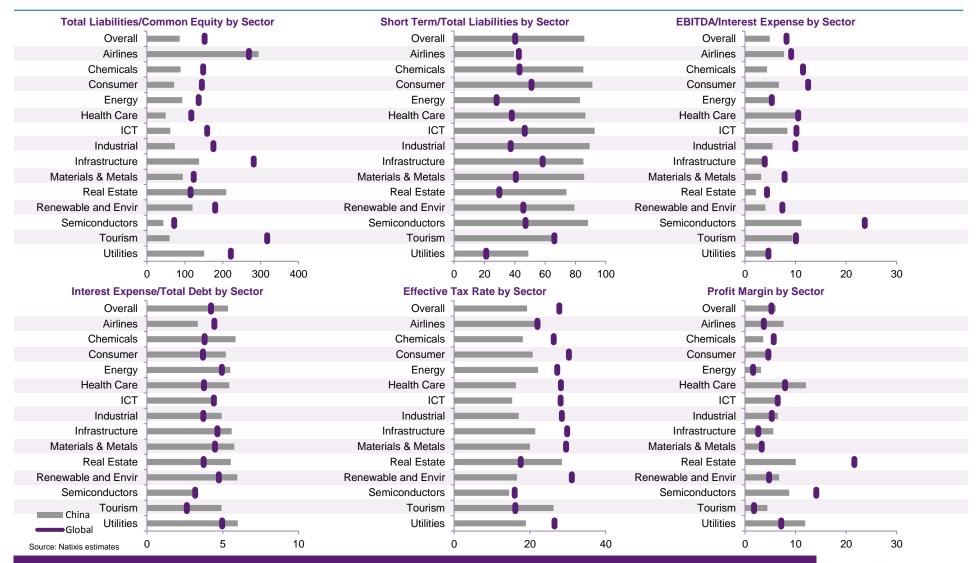


4. Appendices



Zooming in: Comparing all of our six indicators of financial vulnerability by sector - China versus Global

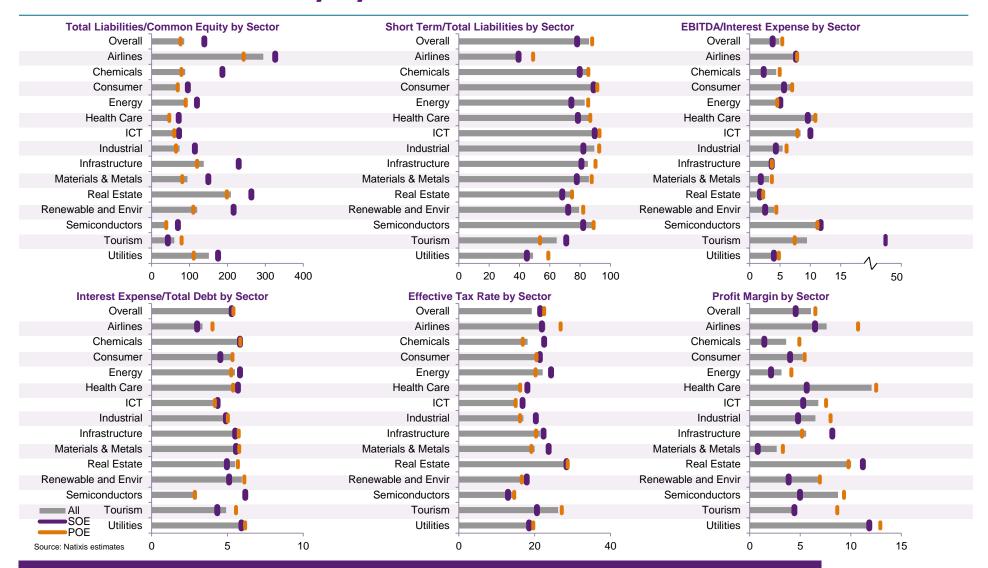






Zooming in: Comparing all of our six indicators of financial vulnerability by sector - SOEs versus POEs





From worst to best financial soundness: Sector ranking compared to Chinese average



Ratio of the value of respective sector over China average.

		Leverage	Funding Gap	Repayment	Interest	Tax	Profit Margin
China/China average Respective sectorial ratio	Simple average of indicators relative to China average (>1 indicates the sector is worse)	Total Liabilities/ Common Equity	Short Term/ Total Liabilities	EBITDA/ Interest Expense	Interest Expense/ Total Debt	Effective Tax Rate	Net Income/ Revenue
Real Estate	1.5	2.4	0.9	2.3	1.0	1.5	0.6
Materials & Metals	1.3	1.1	1.0	1.5	1.1	1.0	2.3
Infrastructure	1.2	1.6	1.0	1.4	1.0	1.1	1.1
Energy	1.2	1.1	1.0	1.0	1.0	1.1	1.9
Airlines	1.2	3.4	0.5	0.6	0.6	1.2	0.8
Chemicals	1.1	1.0	1.0	1.1	1.1	0.9	1.7
Renewable and Envir	1.1	1.4	0.9	1.2	1.1	0.9	0.9
Utilities	1.0	1.8	0.6	1.1	1.1	1.0	0.5
Consumer	1.0	0.8	1.1	0.7	1.0	1.1	1.2
Tourism	0.9	0.7	0.8	0.5	0.9	1.4	1.4
Industrial	0.9	0.9	1.0	0.9	0.9	0.9	0.9
ICT	0.8	0.7	1.1	0.6	0.8	0.8	0.9
Health Care	0.7	0.6	1.0	0.5	1.0	0.8	0.5
Semiconductors	0.7	0.5	1.0	0.4	0.6	0.8	0.7

Source: Natixis estimates



From worst to best financial soundness: Sector ranking compared to global average



Ratio of the value of China over Global of respective sector

		Leverage	Funding Gap	Repayment	Interest	Tax	Profit Margin
China/Global Respective sectorial ratio	Simple average of indicators relative to Global (>1 indicates China is worse)	Total Liabilities/ Common Equity	Short Term/ Total Liabilities	EBITDA/ Interest Expense	Interest Expense/ Total Debt	Effective Tax Rate	Net Income/ Revenue
Real Estate	1.8	1.8	2.5	2.0	1.5	0.7	2.2
Chemicals	1.6	0.6	2.0	2.6	1.5	1.0	1.6
Materials & Metals	1.4	0.8	2.1	2.5	1.3	0.7	1.2
Renewable and Envir	1.3	0.7	1.7	1.8	1.3	1.6	0.7
Semiconductors	1.3	0.6	1.9	2.1	0.9	0.5	1.6
Utilities	1.2	0.7	2.3	1.1	1.2	1.6	0.6
Industrial	1.2	0.4	2.4	1.8	1.3	0.5	0.8
Consumer	1.2	0.5	1.8	1.9	1.4	0.7	0.9
Energy	1.2	0.7	3.0	1.1	1.1	0.7	0.5
Health Care	1.1	0.4	2.3	1.0	1.4	0.8	0.7
ICT	1.0	0.4	2.0	1.2	1.0	0.6	1.0
Airlines	0.9	1.1	0.9	1.2	0.8	1.0	0.5
Tourism	0.9	0.2	1.0	1.1	1.9	0.9	0.4
Infrastructure	0.9	0.5	1.5	1.1	1.2	0.6	0.5

Source: Natixis estimates



Methodology



Sample Selection	Listed companies	a) China: Chinese companies listed domestically and internationally b) Global: Ex-China companies
	Selection is based on asset size	 a) 3000 companies are collected for China and Global respectively, forming China 3000 and Global 3000 b) Top 100 companies by assets in China and Global forms China 100 and Global 100
	Financial sector is excluded	The business nature makes it not comparable to other sectors and beyond the scope of the report
	Filtering	Companies which do not have complete data set of the indicators are not included to avoid distortion
	Median is used for analysis	
	Leverage	Total Liabilities/Common Equity
	Funding Risk	Short Term/Total Liabilities
Indicators	Repayment	EBITDA/Interest Expense
	Interest	Interest Expense/Total Debt
	Тах	Effective Tax Rate
	Profit Margin	Trailing 12M Net Income divided by Trailing 12M Net Sales
Data	Bloomberg, CEIC, DataStream, Natixis	estimates



Full sample description



New China



Airlines

Only airlines companies. Aircraft manufacturing excluded



Consumer

e.g. Retails, Automotive, Garment, Travel Services, Food & Beverages



Health Care

e.g. Medical Devices, Heath Care Facilities, Pharma



Information Communication and Technology (ICT)

e.g. Internet Media, Software, Communications Equipment, Telecom



Renewable and Environment

e.g. New Energy, Biofuels, Waste Management



Semiconductors

e.g. Semiconductor Devices and Manufacturing



Tourism

e.g. Leisure & Travel Services, Cruise Lines

Old China



Chemicals

e.g. Basic & Diversified Chemicals, Agricultural Chemicals, Distribution



Energy

e.g. Coal, Oil & Gas



Industrial

e.g. Aerospace & Defense, Logistics, Machinery, Transports Equipment



Infrastructure

e.g. Construction & Services, Infrastructure Concession



Materials & Metals

e.g. Iron & Steel, Rubber and Plastic, Base Metals, Paper, Cement & Aggregates



Real Estate

e.g. Real Estate Owners & Developers, Building Maintenance Services



Utilities

e.g. Power Generation, Utility Networks



Industry sample: China and Global 100 largest companies



China

Name	Ticker
Air China Ltd	601111 CH
China Southern Airlines Co Ltd	1055 HK
China Eastern Airlines Corp Ltd	670 HK
Hainan Airlines Co Ltd	900945 CH
SAIC Motor Corp Ltd	600104 CH
Alibaba Group Holding Ltd	BABA US
SDIC Essence Holdings Co Ltd	600061 CH
Dongfeng Motor Group Co Ltd	489 HK
Midea Group Co Ltd	000333 CH
China Resources Beer Holdings Company Ltd	291 HK
BAIC Motor Corp Ltd	1958 HK
Xiamen C & D Inc	600153 CH
Byd Co Ltd	1211 HK
Sinopharm Group Co Ltd	1099 HK
communications technology (ICT)	
China Mobile Ltd	941 HK
China Telecom Corp Ltd	728 HK
China United Network Communications Ltd	600050 CH
China Unicom Hong Kong Ltd	762 HK
Tencent Holdings Ltd	700 HK
Lenovo Group Ltd	992 HK
BOE Technology Group Co Ltd	200725 CH
Baidu Inc	BIDU US
ZTE Corp	000063 CH
TCL Corp	000100 CH
PetroChina Co Ltd	857 HK
	386 HK
	883 HK
	1088 HK
<i>5,</i>	1898 HK
Shanghai Electric Group Co Ltd	601727 CH
Yanzhou Coal Mining Co Ltd	1171 HK
	601766 CH
China Shipbuilding Industry Co Ltd	601989 CH
China COSCO Holdings Co Ltd	1919 HK
	Air China Ltd China Southern Airlines Co Ltd China Eastern Airlines Corp Ltd Hainan Airlines Co Ltd SAIC Motor Corp Ltd Alibaba Group Holding Ltd SDIC Essence Holdings Co Ltd Dongfeng Motor Group Co Ltd Midea Group Co Ltd Midea Group Co Ltd China Resources Beer Holdings Company Ltd BAIC Motor Corp Ltd Xiamen C & D Inc Byd Co Ltd Sinopharm Group Co Ltd Communications technology (ICT) China Mobile Ltd China Telecom Corp Ltd China United Network Communications Ltd China United Network Communications Ltd BOE Technology Group Co Ltd Baidu Inc ZTE Corp TCL Corp PetroChina Co Ltd China Petroleum & Chemical Corp CNOOC Ltd China Shenhua Energy Co Ltd Shanghai Electric Group Co Ltd CRRC Corp Ltd CRRC Corp Ltd CRRC Corp Ltd CRRC Corp Ltd China Shipbuilding Industry Co Ltd

Rank of Assets	Name	Ticker
74	Weichai Power Co Ltd	2338 HK
85	Daqin Railway Co Ltd	601006 CH
92	Shanghai International Port Group Co Ltd	600018 CH
Infrastructure		
5	China Railway Group Ltd	390 HK
6	China Communications Construction Co Ltd	1800 HK
8	China Railway Construction Corp Ltd	1186 HK
19	Power Construction Corp of China Ltd	601669 CH
23	Metallurgical Corp of China Ltd	601618 CH
32	China National Nuclear Power Co Ltd	601985 CH
34	China Energy Engineering Corp Ltd	3996 HK
69	Shanghai Construction Group Co Ltd	600170 CH
90	Zoomlion Heavy Industry Science and Technology Co Ltd	000157 CH
Materials & Meta	ls	
20	Fosun International Ltd	656 HK
22	China National Building Material Co Ltd	3323 HK
33	Baoshan Iron & Steel Co Ltd	600019 CH
39	Aluminum Corp of China Ltd	2600 HK
49	Hebei Iron & Steel Co Ltd	000709 CH
59	Inner Mongolia BaoTou Steel Union Co Ltd	600010 CH
72	BBMG Corp	2009 HK
84	Anhui Conch Cement Co Ltd	914 HK
86	China National Materials Co Ltd	1893 HK
93	Wuhan Iron & Steel Co Ltd	600005 CH
96	China International Marine Containers Group Co Ltd	000039 CH
98	China Hongqiao Group Ltd	1378 HK
100	Shaanxi Coal Industry Co Ltd	601225 CH
Real Estate		
4	China State Construction Engineering Corp Ltd	601668 CH
9	Dalian Wanda Commercial Properties Co Ltd	3699 HK
13	Evergrande Real Estate Group Ltd	3333 HK
14	China Vanke Co Ltd	2202 HK
15	Greenland Holdings Corp Ltd	600606 CH
18	Poly Real Estate Group Co Ltd	600048 CH
21	China Overseas Land & Investment Ltd	688 HK
24	China Resources Land Ltd	1109 HK
28	Country Garden Holdings Co Ltd	2007 HK
45	Guangzhou R&F Properties Co Ltd	2777 HK
47	Longfor Properties Co Ltd	960 HK





Rank of Assets	Name	Ticker
50		000651 CH
	Gree Electric Appliances Inc of Zhuhai	
56 60	Greentown China Holdings Ltd	3900 HK
	China Fortune Land Development Co Ltd	600340 CH
63	Gemdale Corp	600383 CH
64	Sino-Ocean Land Holdings Ltd	3377 HK
66	Agile Property Holdings Ltd	3383 HK
71	China Jinmao Holdings Group Ltd	817 HK
73	Hopson Development Holdings Ltd	754 HK
77	Shui On Land Ltd	272 HK
79	Beijing Capital Development Co Ltd	600376 CH
80	Poly Property Group Co Ltd	119 HK
81	Shanghai Industrial Holdings Ltd	363 HK
83	Sunac China Holdings Ltd	1918 HK
89	Oceanwide Holdings Co Ltd	000046 CH
91	Yuexiu Property Co Ltd	123 HK
95	Shenzhen Overseas Chinese Town Co Ltd	000069 CH
99	Jinke Properties Group Co Ltd	000656 CH
76	China Gezhouba Group Co Ltd	600068 CH
Utilities		
25	Datang International Power Generation Co Ltd	991 HK
27	Huaneng Power International Inc	902 HK
31	GD Power Development Co.	600795 CH
37	CGN Power Co Ltd	1816 HK
42	Huadian Power International Corp Ltd	600027 CH
43	China Resources Power Holdings Co Ltd	836 HK
46	SDIC Power Holdings Co Ltd	600886 CH
54	China Yangtze Power Co Ltd	600900 CH
65	China Longyuan Power Group Corp Ltd	916 HK
82	Zhejiang Zheneng Electric Power Co Ltd	600023 CH
88	Beijing Enterprises Holdings Ltd	392 HK
94	Kunlun Energy Co Ltd	135 HK





<u>Global</u>

Rank of Assets	Name	Ticker	Country of Risk
Consumer			
2	Volkswagen AG	VOW GR	DE
3	Toyota Motor Corp	7203 JP	JP
12	Daimler AG	DAI GR	DE
14	Ford Motor Co	F US	US
17	Wal-Mart Stores Inc	WMT US	US
18	General Motors Co	GM US	US
19	Bayerische Motoren Werke AG	BMW GR	DE
29	Honda Motor Co Ltd	7267 JP	JP
31	Nissan Motor Co Ltd	7201 JP	JP
36	Hyundai Motor Co	005380 KS	KR
37	CK Hutchison Holdings Ltd	1 HK	HK
39	Mitsubishi Corp	8058 JP	JP
40	Anheuser-Busch InBev SA/NV	ABI BB	BE
45	Procter & Gamble Co/The	PG US	US
47	Nestle SA	NESN VX	CH
65	Renault SA	RNO FP	FR
70	CVS Health Corp	CVS US	US
73	Coca-Cola Co/The	KO US	US
99	PepsiCo Inc	PEP US	US
100	Walgreens Boots Alliance Inc	WBA US	US
Health Care			
26	Pfizer Inc	PFE US	US
38	Allergan plc	AGN US	US
43	Johnson & Johnson	JNJ US	US
44	Novartis AG	NOVN VX	CH
55	UnitedHealth Group Inc	UNH US	US
56	Sanofi	SAN FP	FR
63	Medtronic PLC	MDT US	US
64	Merck & Co Inc	MRK US	US
84	Bayer AG	BAYN GR	DE
88	GlaxoSmithKline PLC	GSK LN	GB
94	Roche Holding AG	ROG VX	CH
97	Amgen Inc	AMGN US	US
Information and	communications technology (ICT)		
4	AT&T Inc	T US	US
8	Apple Inc	AAPL US	US
11	Verizon Communications Inc	VZ US	US
16	Samsung Electronics Co Ltd	005930 KS	KR

Rank of Assets	Name	Ticker	Country of Risk
20	Vodafone Group PLC	VOD LN	GB
21	Microsoft Corp	MSFT US	US
23	SoftBank Group Corp	9984 JP	JP
25	Nippon Telegraph & Telephone C	9432 JP	JP
27	Comcast Corp	CMCSA US	US
28	Deutsche Telekom AG	DTE GR	DE
32	Alphabet Inc	GOOGL US	US
35	Sony Corp	6758 JP	JP
42	Telefonica SA	TEF SM	ES
54	Cisco Systems Inc	CSCO US	US
57	International Business Machine	IBM US	US
61	Oracle Corp	ORCL US	US
72	Walt Disney Co/The	DIS US	US
81	SK Holdings Co Ltd	034730 KS	KR
83	Telecom Italia SpA/Milano	TIT IM	IT
85	Sprint Corp	S US	US
95	America Movil SAB de CV	AMXL MM	MX
96	Hon Hai Precision Industry Co	2317 TT	TW
Semiconductor			
62	Intel Corp	INTC US	US
Chemicals			
75	Saudi Basic Industries Corp	SABIC AB	SA
91	BASF SE	BAS GR	DE
Energy			
1	General Electric Co	GE US	US
5	Royal Dutch Shell PLC	RDSA LN	NL
6	Exxon Mobil Corp	XOM US	US
9	BP PLC	BP/ LN	GB
10	Gazprom PAO	GAZP RM	RU
13	Petroleo Brasileiro SA	PETR4 BZ	BR
15	TOTAL SA	FP FP	FR
33	Eni SpA	ENI IM	IT
34	Rosneft OAO	ROSN RM	RU
41	Siemens AG	SIE GR	DE
58	Statoil ASA	STL NO	NO
59	Lukoil PJSC	LKOH RM	RU
60	Hitachi Ltd	6501 JP	JP
67	ConocoPhillips	COP US	US





Rank of Assets	Name	Ticker	Country of Risk
78	Kinder Morgan Inc/DE	KMI US	US
82	Reliance Industries Ltd	RIL IN	IN
93	ITOCHU Corp	8001 JP	JP
Industrial	Trocho corp	0001 31	Ji
51	Airbus Group SE	AIR FP	FR
69	Boeing Co/The	BA US	US
74	United Technologies Corp	UTX US	US
98	Sumitomo Corp	8053 JP	JP
Infrastructure	Cumiome Corp	0000 0.	•
89	Caterpillar Inc	CAT US	US
Materials & Meta	•		
46	Glencore PLC	GLEN LN	СН
50	BHP Billiton Ltd	BHP AU	AU
66	Mitsui & Co Ltd	8031 JP	JP
71	Rio Tinto PLC	RIO LN	GB
76	Vale SA	VALE5 BZ	BR
87	LafargeHolcim Ltd	LHN VX	CH
92	ArcelorMittal	MT NA	LU
Real Estate			
86	Sun Hung Kai Properties Ltd	16 HK	HK
Utilities			
7	Electricite de France SA	EDF FP	FR
22	Enel SpA	ENEL IM	IT
24	Engie SA	ENGI FP	FR
30	Korea Electric Power Corp	015760 KS	KR
48	E.ON SE	EOAN GR	DE
49	Duke Energy Corp	DUK US	US
52	Tokyo Electric Power Co Holdin	9501 JP	JP
53	Iberdrola SA	IBE SM	ES
68	Exelon Corp	EXC US	US
77	RWE AG	RWE GR	DE
79	National Grid PLC	NG/ LN	GB
80	NextEra Energy Inc	NEE US	US
90	Southern Co/The	SO US	US



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