

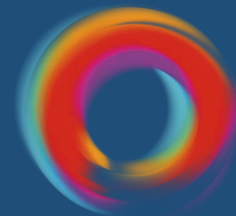


**INSTITUTE
OF NEXT**
Barcelona

Instituteofnext.com

Entendre la nova Xina

Alfons Cornella
ac@infonomia.com



INSTITUTE
OF NEXT
Barcelona

UN VIATGE A LA NOVA XINA, ANOTACIONS PERSONALS



CO-SOCIETY #34

ACCELERATED 創新 INNOVATION

MARTES, 26 DE MARZO DE 2019

CASA ASIA: C/ BOLÍVIA, 56

08018 BARCELONA 09:30H A 13:30H

EN COLABORACIÓN CON:



CASA ASIA

TusStar
启德之星



ORGANIZA:



INSTITUTE
OF NEXT
BY INFONOMIA



El 26 de març de 2019, TusStar Spain i l'Institut Next van signar un acord per col·laborar en la **construcció de ponts entre els ecosistemes d'innovació** de la Xina i Espanya.

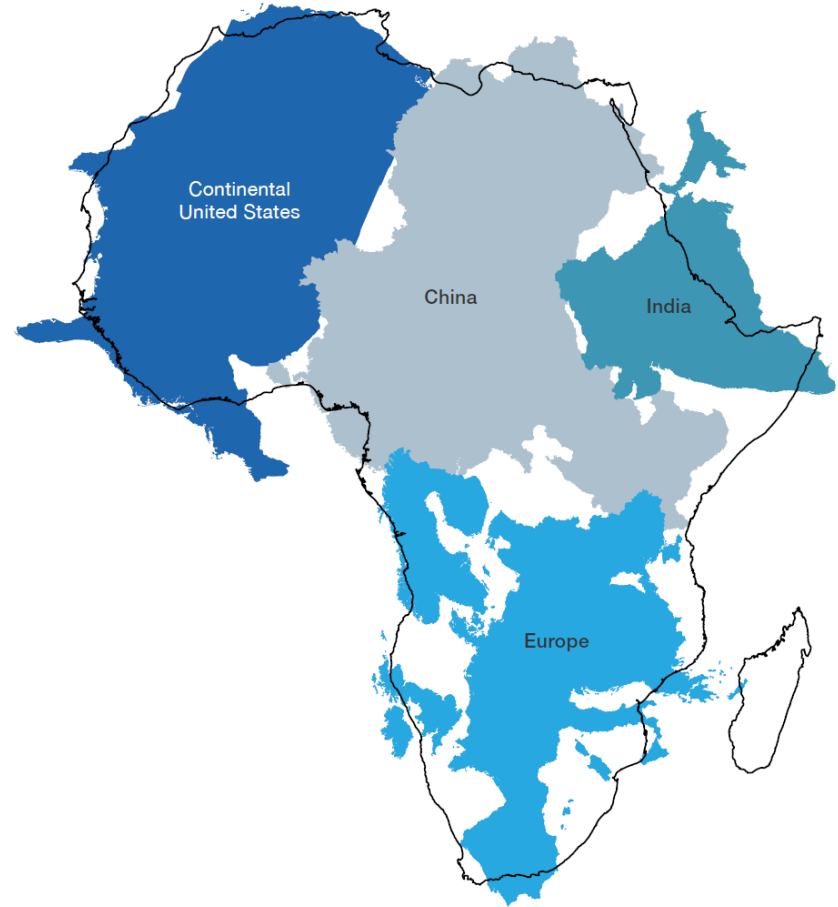
6 SETMANES
A LA
NOVA XINA



1

UN CONTINENT
UNA CIVILITZACIÓ
UN MERCAT

1400 Mpax
9.6 Mkm²







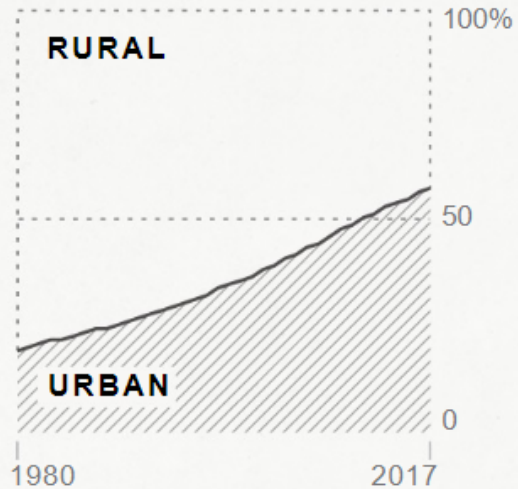
Source: Wind Info

Economist.com

Urban migration

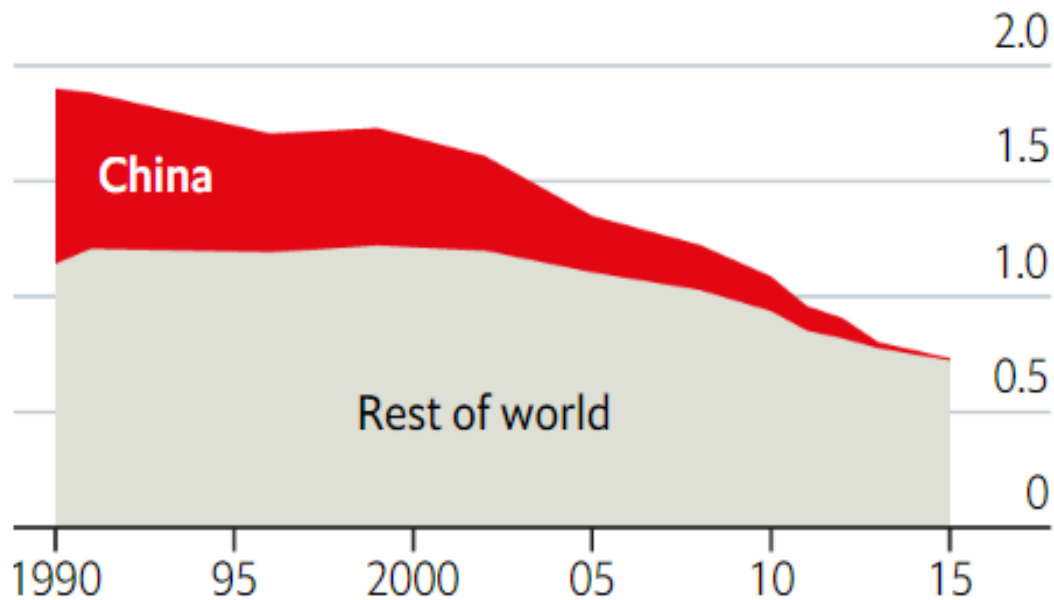
China's cities have grown by roughly 600 million people since 1980. Most are seeking better jobs and wages in the industrial sector.

PERCENTAGE OF
POPULATION



Poverty

People living on less than \$1.90 a day*, bn



In 1990 some 750m Chinese people lived in extreme poverty;
today fewer than 10m do.

*2011 purchasing-power parity

Economic boom

China has been counted among the world's fastest growing economies for nearly four decades.

GDP PER CAPITA, CURRENT U.S. DOLLARS



Rising incomes

Half of China's population has now joined the global middle class, and hundreds of millions have moved out of poverty.*

POPULATION IN MILLIONS



Producte interior brut

PIB (nom): **\$14B** (2N del món)

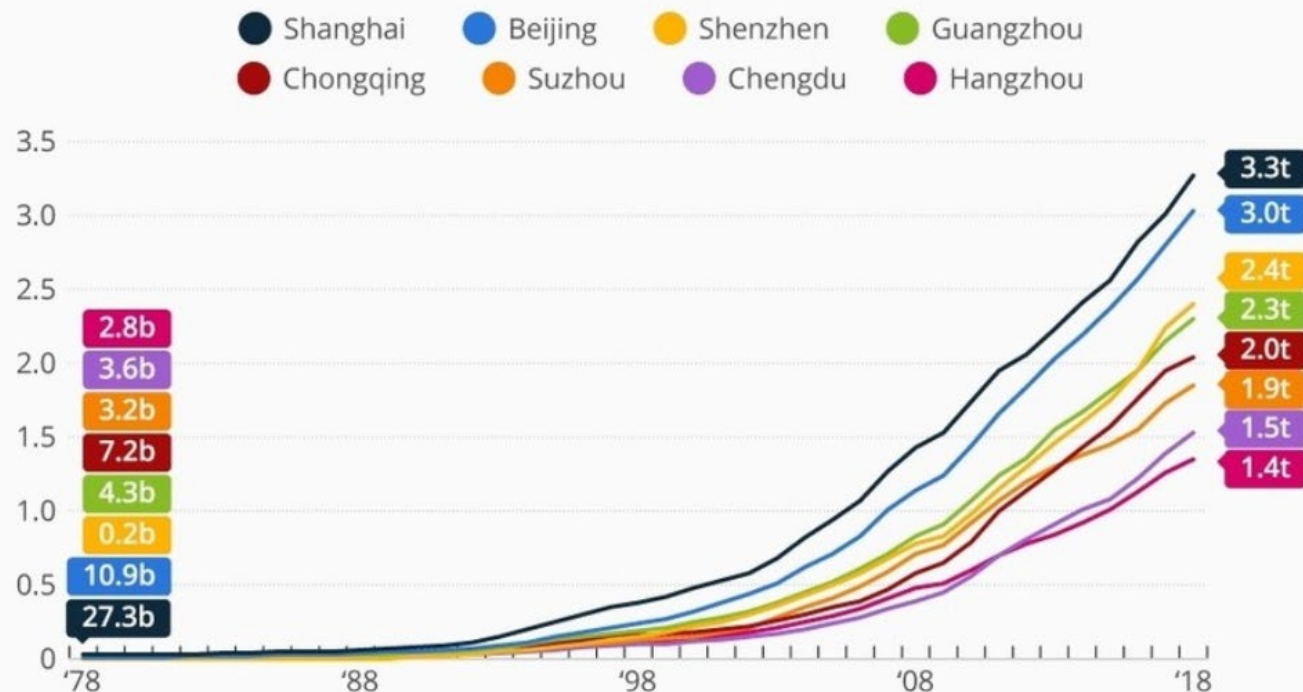
PIB (PPP): **\$27B** (1er del món)



Bilions europeus
Trilions americans

The Exponential Growth of Chinese Cities

GDP of selected cities in China 1978-2018 (in yuan Renminbi)



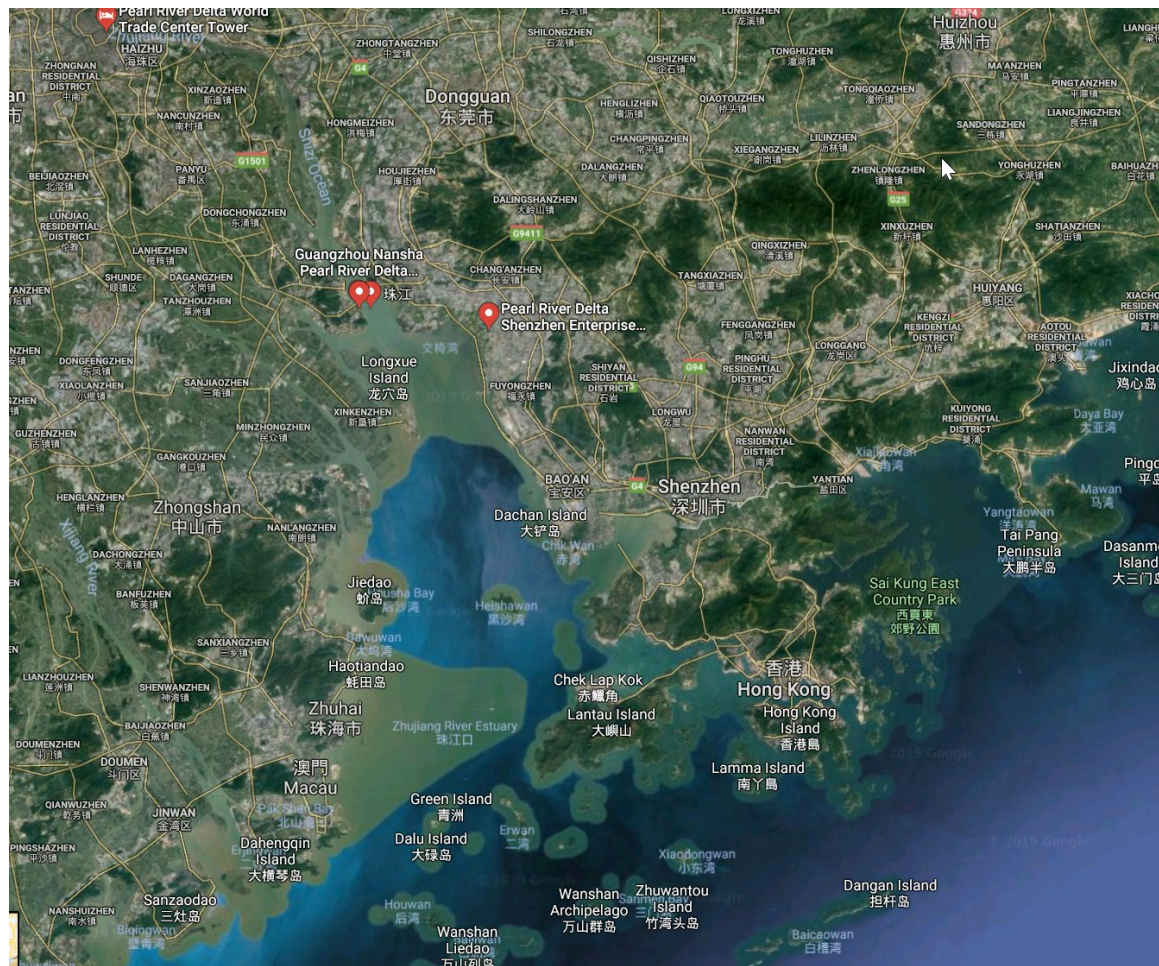
Does not include Hong Kong, Macao or Taipei

Sources: Channel Wu (Wu Xiaobo), CEIC via Caixin,
Open Environmental Journal (Researchgate)

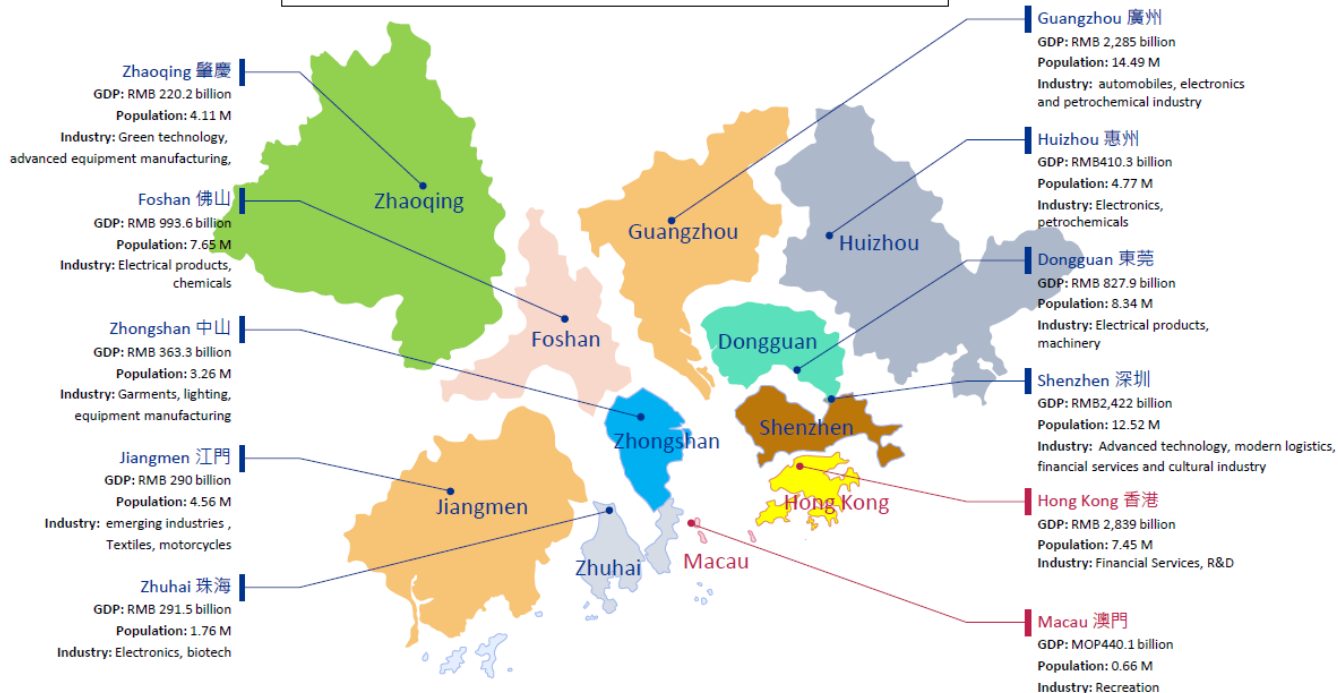


Delta del Yangtze
(Shangai)

Delta del Riu de la Perla
(ShenZhen)



Area: over 56,000 sq. km
Population: 70 million
GDP: US\$1,513 billion
GDP per capita: US\$21,750



Reserves en moneda extranjera

2014: **US\$4B**

2017: **US\$3B**

(39% en bons USA)

Bilions europeus
Trillions americans

DE LA INVERSIÓ PÚBLICA AL CONSUM COM A MOTOR DE L'ECONOMIA







The world's economic
centre of gravity*

CANVI DEL CENTRE DE GRAVETAT ECONÒMIC DEL MÓN

$$\frac{(\sum \text{lat} * \text{GDP})}{\text{Total GDP}}$$

$$\frac{(\sum \text{long} * \text{GDP})}{\text{Total GDP}}$$



Darker horizon

China's growth is the slowest in nearly three decades: get used to it

The trade war with America hurts, but the government is wary of stimulus



Finance and economics >
Jul 15th 2019 | SHANGHAI



2

EL ROL DE LA INVERSIÓN PÚBLICA

**Inversió pública =
2/3 del creixement de la Xina**

Projectes grans en el llarg termini
Projecte d'infraestructura

TRENS

Map of China Railways



2015:
121,000 km of railways

2018:
29,000 km of high-speed rail





6 : speed is 350km/



2008



2009



2010



2011



2012



2013



2014



2015

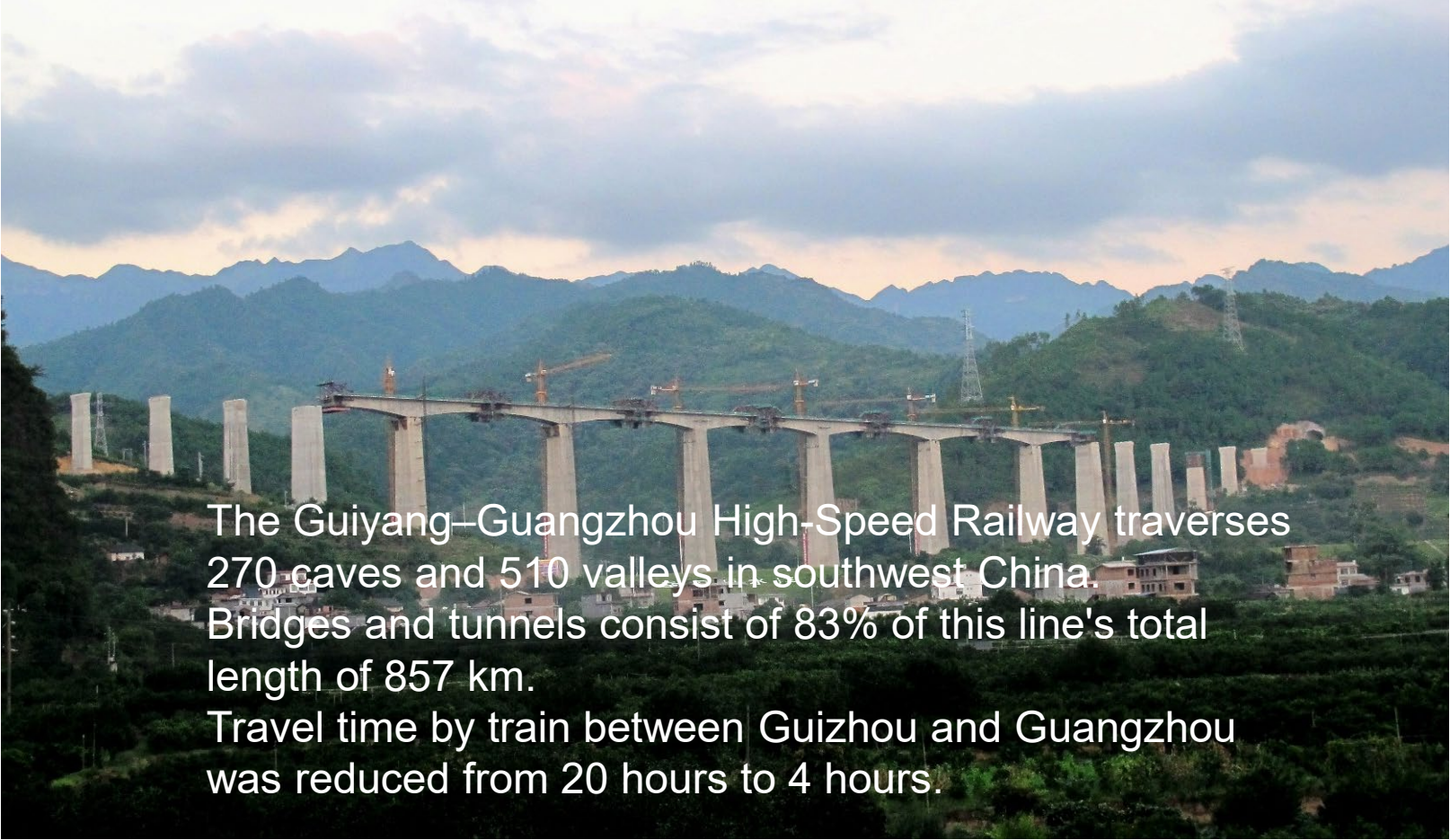


2016



2017





The Guiyang–Guangzhou High-Speed Railway traverses 270 caves and 510 valleys in southwest China. Bridges and tunnels consist of 83% of this line's total length of 857 km. Travel time by train between Guizhou and Guangzhou was reduced from 20 hours to 4 hours.

CIUTATS AMB RAILS

URBAN RAIL TRANSIT IN CHINA

Map of cities in mainland China, China's SARs with rapid transit, commuter rail and light rail systems.

The two higher-resolution maps to the left show:

- the [Yangtze River Delta](#) (YRD)
- and [Pearl River Delta](#) (PRD) regions.

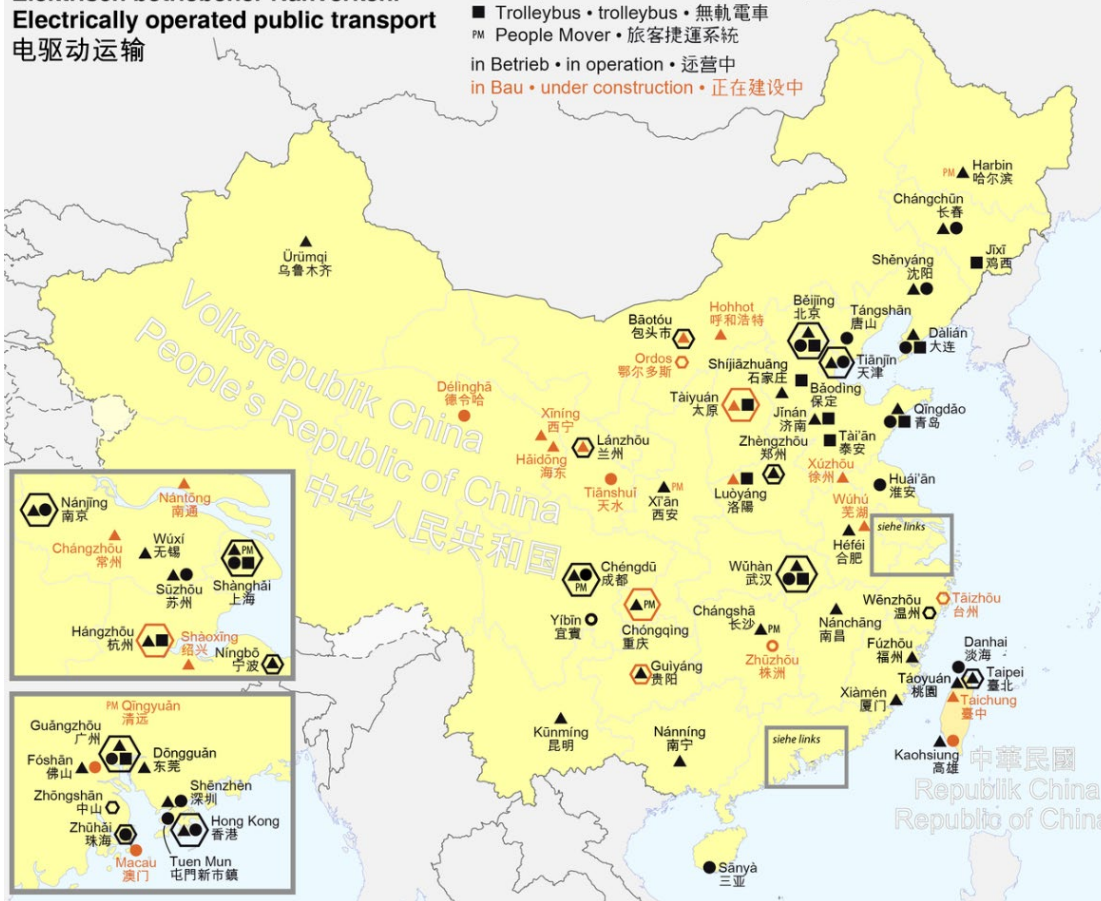
IN BLACK Operational systems

IN RED Under-construction systems

中國 China

Elektrisch betriebener Nahverkehr
Electrically operated public transport
电驱动运输

- S-Bahn • suburban railways • 城市快捷铁路
- ▲ Metro • metro • 地鐵
- Stadtbahn / Straßenbahn • light rail / tramway • 輕軌運輸系統 / 有軌電車
- ART (Autonomous Rail Rapid Transit) • 智軌
- Trolleybus • trolleybus • 無軌電車
- PM People Mover • 旅客捷運系統
- in Betrieb • in operation • 运营中
- in Bau • under construction • 正在建设中



Beijing	 China	Beijing Subway ^[58]	1971 ^[Nb 8]	2019 ^[59]	326 ^[Nb 9]	669.4 km (415.9 mi) ^{[58][59][Nb 10]}	3850 (2018) ^[R 16]
Changchun	 China	Changchun Subway	2011	2018 ^[60]	59 ^[Nb 11]	59.9 km (38.9 mi) ^[Nb 12]	137.3 (2018) ^[R 17]
Changsha	 China	Changsha Metro	2014 ^[61]	2019 ^{[62][63]}	68	83.6 km (51.9 mi)	250.3 (2018)
Changzhou	 China	Changzhou Metro	2019 ^[64]	–	29	34.24 km (21.28 mi) ^[65]	n/a
Chengdu	 China	Chengdu Metro	2010	2018 ^[66]	171	226 km (140 mi)	1158 (2018) ^[R 18]
Chongqing	 China	Chongqing Rail Transit	2005	2019 ^[67]	175	310.3 km (192.8 mi) ^[67]	857.9 (2018) ^[R 19]
Dalian	 China	Dalian Metro ^[68]	2003	2018 ^[69]	69	153.5 km (95.4 mi)	192.3 (2017) ^[R 19]
Dongguan	 China	Dongguan Rail Transit	2016 ^[70]	–	15	37.8 km (23.5 mi)	46.1 (2017) ^[R 19]
Foshan	 China	Foshan Metro ^[Nb 13]	2010	2018	22	34.4 km (21.4 mi)	n/a ^[R Nb 3]
Fuzhou	 China	Fuzhou Metro	2016 ^[71]	2019	42	55.5 km (34.5 mi)	60.9 (2017) ^[R 19]
Guangzhou	 China	Guangzhou Metro	1997	2018 ^[72]	257 ^[73]	478 km (297 mi) ^[74]	3029.5 (2018) ^[R 19]
Guiyang	 China	Guiyang Metro	2017 ^[75]	2018 ^[76]	25	34.3 km (21.3 mi)	7.4 (2018) ^[R 19]
Hangzhou	 China	Hangzhou Metro ^[77]	2012	2019 ^[78]	90	135.36 km (84.11 mi)	529.9 (2018) ^[R 19]
Harbin	 China	Harbin Metro	2013 ^{[79][80]}	2019 ^[81]	25 ^[citation needed]	31.3 km (19.4 mi) ^[81]	97.4 (2018) ^[R 19]
Hefei	 China	Hefei Metro	2016 ^[82]	2017 ^[83]	47	52.4 km (32.6 mi)	153.2 (2018) ^[R 19]
Hong Kong	 China	Mass Transit Railway	1979 ^[Nb 14]	2016 ^[Nb 15]	93 ^[84]	174.7 km (108.6 mi) ^[85]	1805.1 (2018) ^{[R 20][R 21][R Nb 4]}
Jinan	 China	Jinan Metro	2019 ^[86]	–	11 ^[86]	26.1 km (16.2 mi) ^[86]	n/a
Kunming	 China	Kunming Rail Transit	2012	2017 ^[87]	60	87.2 km (54.2 mi)	199.6 (2018) ^[R 19]
Lanzhou	 China	Lanzhou Metro	2019 ^[88]	–	20 ^[88]	25.9 km (16.1 mi) ^[88]	n/a
Nanchang	 China	Nanchang Metro	2015	2019 ^[89]	52	60.2 km (37.4 mi)	141.8 (2018) ^[R 17]
Nanjing	 China	Nanjing Metro ^[90]	2005	2018 ^{[90][Nb 16]}	159 ^[91]	378 km (235 mi) ^[91]	1118.8 (2018) ^[R 19]
Nanning	 China	Nanning Rail Transit ^[92]	2016	2019 ^[92]	65	81.0 km (50.3 mi)	213.6 (2018)
Ningbo	 China	Ningbo Rail Transit ^[93]	2014	2019 ^[94]	69	96.9 km (60.2 mi)	124.4 (2018) ^[R 19]
Qingdao	 China	Qingdao Metro	2015 ^[95]	2018 ^[96]	80	–	–
Shanghai	 China	Shanghai Metro ^[Nb 17]	1993 ^[97]	2018 ^[98]	345 ^[Nb 18]	676 km (420 mi) ^[99]	3710 (2018) ^[R 22]
Shenyang	 China	Shenyang Metro	2010	2019 ^[101]	70	88.7 km (55.4 mi)	220.0 (2018)
Shenzhen	 China	Shenzhen Metro	2004	2019 ^[102]	205	292.6 km (181.8 mi) ^[103]	1877.5 (2018) ^[R 23]
Shijiazhuang	 China	Shijiazhuang Metro	2017	2019 ^[104]	32	40.7 km (25.3 mi)	87.6 (2018) ^[R 19]
Suzhou	 China	Suzhou Rail Transit	2012	2017 ^[105]	97	118.9 km (73.9 mi)	324.9 (2018) ^[R 24]
Tianjin	 China	Tianjin Metro	1984	2019 ^[106]	141 ^[106]	222 km (138 mi) ^[106]	408.5 (2018) ^[R 19]
Ürümqi	 China	Ürümqi Metro	2018	2019 ^[107]	21	27.6 km (17.1 mi)	n/a
Wenzhou	 China	Wenzhou Metro	2019 ^[108]	2019 ^[109]	18	53.5 km (33.2 mi) ^[109]	n/a
Wuhan	 China	Wuhan Metro	2004	2019 ^[110]	217	339 km (211 mi) ^[110]	1054 (2018) ^[R 19]
Wuxi	 China	Wuxi Metro	2014 ^[111]	2019 ^[112]	48	61.2 km (38.0 mi) ^[113]	103.1 (2018) ^[R 19]
Xiamen	 China	Xiamen Metro	2017 ^[114]	–	24 ^[114]	30.3 km (18.8 mi) ^[114]	41.6 (2018) ^[R 19]
Xi'an	 China	Xi'an Metro	2011	2019 ^[115]	100	161.6 km (100.4 mi)	746.2 (2018) ^[R 19]
Xuzhou	 China	Xuzhou Metro	2019 ^[116]	–	18	22.0 km (13.7 mi) ^[116]	
Zhengzhou	 China	Zhengzhou Metro	2013 ^[117]	2019 ^[118]	91	141.6 km (88.0 mi)	293.4 (2018)

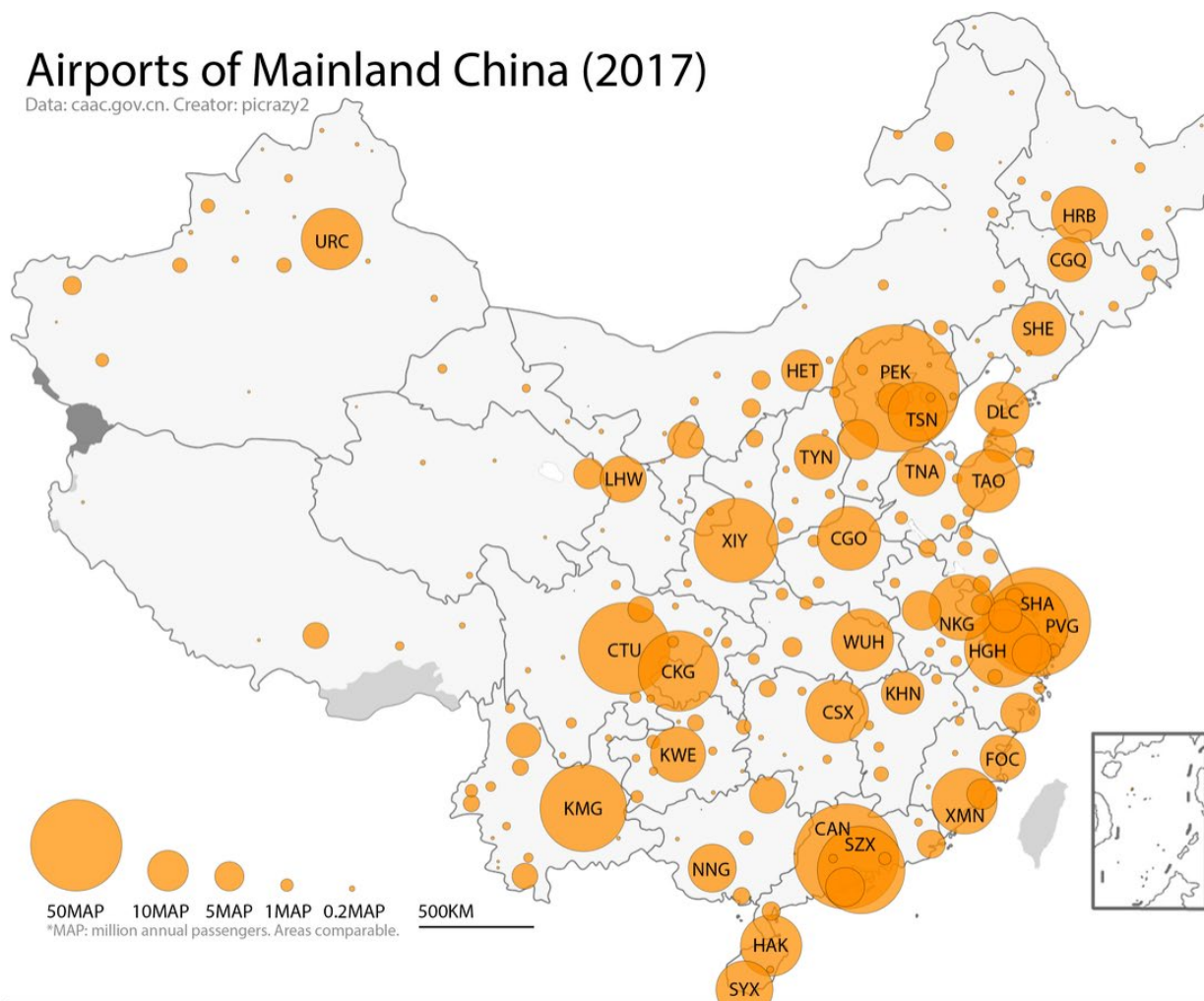
METROS > 2010

City	Country	Name	Year opened	Year of last expansion	Stations	System length	Annual ridership (millions)
Beijing	China	Beijing Subway ^{BR}	1971 [Nb.8]	2019 [58]	326 ^{Nb.91}	669.4 km (415.9 mi) ²⁰¹⁹ [Nb.10]	3850 [2018][R.16]
Changchun	China	Changchun Subway	2011	2018 [60]	59 [Nb.11]	68.8 km (42.8 mi)[Nb.12]	127.3 [2018][R.17]
Changsha	China	Changsha Metro	2014 [61]	2019 ^{MBN}	68	83.6 km (51.9 mi)	250.3 (2018)
Changzhou	China	Changzhou Metro	2019 [64]	–	29	24.24 km (15.05 mi)[65]	n/a
Chengdu	China	Chengdu Metro	2010	2018 [66]	171	226 km (140 mi)	1108 [2018][R.18]
Chongqing	China	Chongqing Rail Transit	2005	2019 [67]	175	310.3 km (192.8 mi)[67]	857.9 [2018][R.19]
Dalian	China	Dalian Metro ^{DR}	2003	2018 [69]	69	153.5 km (95.4 mi)	192.3 [2017][R.19]
Dongguan	China	Dongguan Rail Transit	2018 [70]	–	15	37.8 km (23.5 mi)	46.1 [2017][R.19]
Foshan	China	Foshan Metro ^{FR}	2010	2018	22	34.4 km (21.4 mi)	20.8 [Nb.31]
Fuzhou	China	Fuzhou Metro	2016 [71]	2019	42	55.5 km (34.5 mi)	60.8 [2017][R.19]
Guangzhou	China	Guangzhou Metro	1997	2018 [72]	257 ^{FR}	478 km (297 mi)[74]	3029.5 [2018][R.19]
Guwahati	China	Guwahati Metro	2017 [75]	2018 [76]	25	34.3 km (21.3 mi)	7.4 [2018][R.19]
Hangzhou	China	Hangzhou Metro ⁷¹	2012	2019 [78]	80	135.36 km (84.1 mi)	529.9 [2018][R.19]
Harbin	China	Harbin Metro	2013 ⁷⁹ [80]	2019 [81]	21 ⁷⁹ [82]	31.3 km (19.4 mi)[81]	97.4 [2018][R.19]
Hefei	China	Hefei Metro	2016 [83]	2017 [83]	47	52.4 km (32.6 mi)	153.7 [2018][R.19]
Hong Kong	China	Mass Transit Railway	1979 [Nb.14]	2016 [Nb.15]	89 ⁸⁴	174.7 km (108.6 mi)[85]	1805.1 (2018) ⁸⁴ 2020 2100 ^{Nb.4}
Jinan	China	Jinan Metro	2019 [86]	–	11[86]	26.1 km (16.2 mi)[86]	n/a
Kunming	China	Kunming Rail Transit	2012	2017 [87]	60	87.2 km (54.2 mi)	199.6 [2018][R.19]
Lanzhou	China	Lanzhou Metro	2019 [88]	–	20[88]	25.8 km (16.1 mi)[88]	n/a
Nanchang	China	Nanchang Metro	2015	2019 [89]	52	60.2 km (37.4 mi)	141.8 [2018][R.17]
Nanjing	China	Nanjing Metro ⁹⁰	2005	2018 ⁹⁰ [Nb.10]	159 ⁹¹	278 km (235 mi)[91]	1118.8 [2018][R.19]
Nanning	China	Nanning Rail Transit ⁹²	2016	2019 [92]	65	81.0 km (50.3 mi)	213.6 (2018)
Ningbo	China	Ningbo Rail Transit ⁹³	2014	2019 [94]	69	96.9 km (60.2 mi)	124.4 [2018][R.19]
Qingdao	China	Qingdao Metro	2015 [95]	2018 [96]	80	169.4 km (105.3 mi)	153.9 [2018][R.19]
Shanghai	China	Shanghai Metro ⁹⁴ [75]	1993 [97]	2018 [98]	345 ^{Nb.10}	676 km (420 mi)[99]	3710 [2018][R.22]
Shenyang	China	Shenyang Metro	2010	2019 [101]	70	88.7 km (55.1 mi)	329.9 (2018)
Shenzhen	China	Shenzhen Metro	2004	2019 [102]	205	292.6 km (181.8 mi)[103]	1877.5 [2018][R.23]
Shijiazhuang	China	Shijiazhuang Metro	2017	2019 [104]	32	40.7 km (25.3 mi)	87.6 [2018][R.19]
Suzhou	China	Suzhou Rail Transit	2012	2017 [105]	87	118.9 km (73.9 mi)	224.3 [2018][R.24]
Tianjin	China	Tianjin Metro	1984	2019 [106]	141[106]	222 km (138 mi)[106]	408.5 [2018][R.19]
Urumqi	China	Urumqi Metro	2018	2019 [107]	21	27.6 km (17.1 mi)	n/a
Wenzhou	China	Wenzhou Metro	2019 [108]	2019 [109]	18	53.5 km (33.2 mi)[109]	n/a
Wuhan	China	Wuhan Metro	2004	2019 [110]	217	339 km (211 mi)[110]	1054 [2018][R.19]
Wuxi	China	Wuxi Metro	2014 [111]	2019 [112]	48	61.2 km (38.0 mi)[113]	103.1 [2018][R.19]
Xiamen	China	Xiamen Metro	2017 [114]	–	24[114]	30.3 km (18.8 mi)[114]	41.6 [2018][R.19]
Xian	China	Xian Metro	2011	2019 [115]	100	161.6 km (100.4 mi)	746.2 [2018][R.19]
Xuzhou	China	Xuzhou Metro	2019 [116]	–	18	22.0 km (13.7 mi)[116]	n/a
Zhengzhou	China	Zhengzhou Metro	2013 [117]	2019 [118]	91	141.6 km (88.0 mi)	293.4 (2018)

AEROPORTS

Airports of Mainland China (2017)

Data: caac.gov.cn. Creator: picrazy2



Beijing is building hundreds of airports as millions of Chinese take to the skies

Matt Falcus and Maggie Hiufu Wong, CNN • Published 26th May 2019



China Completes New Beijing Daxing Int'l Airport Construction

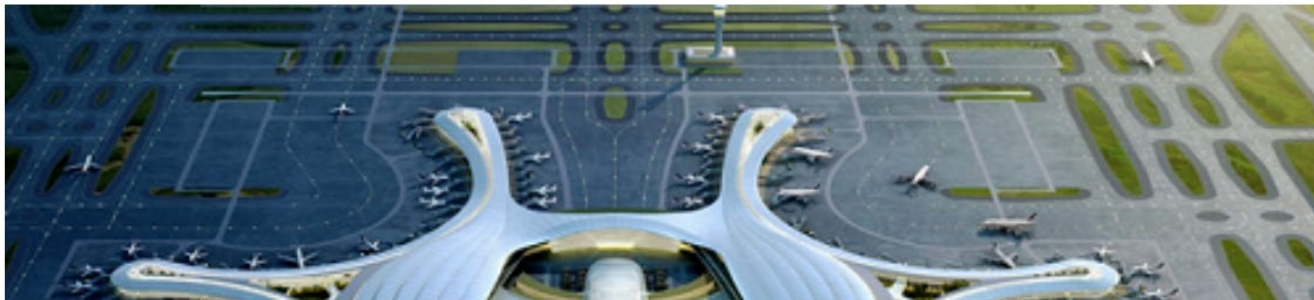


by [Hana Khaled](#) — 8:59 AM July 2, 2019



The project had cost around \$17.47 billion. It covers an area of a million square meters; 72 million passengers are expected to travel through the international airport in 2025.

October 3, 2018 in **Frontpage**, **The world in Spain**



Indra will turn Chengdu into the third airport center in China

October 3, 2018 in **Frontpage**, **The world in Spain**



AUTOPISTES



China's Anshun to Ziyun Highway Link opened on Tuesday, which connects the developing Guizhou Province in southwest China with the eastern and southern parts of the country. /VCG Photo

Map of China Highways



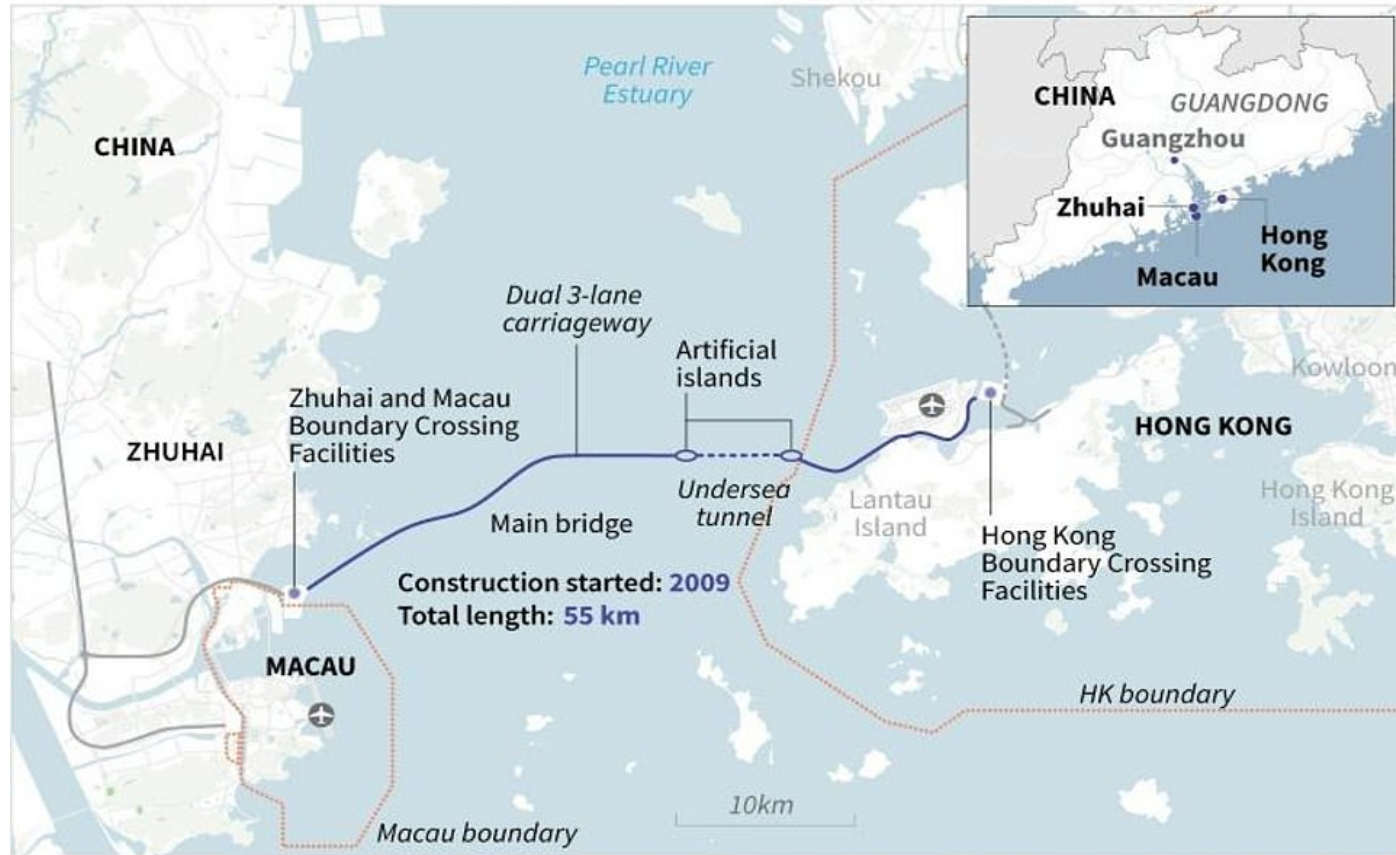
From 00:00 October 1st to 24:00 October 8th, toll fees on all highways across China are waived for motorcycles and passenger vehicles with seven seats or less.





Pont
Hong-Kong - Macao

The Zhuhai-Hong Kong-Macau bridge project



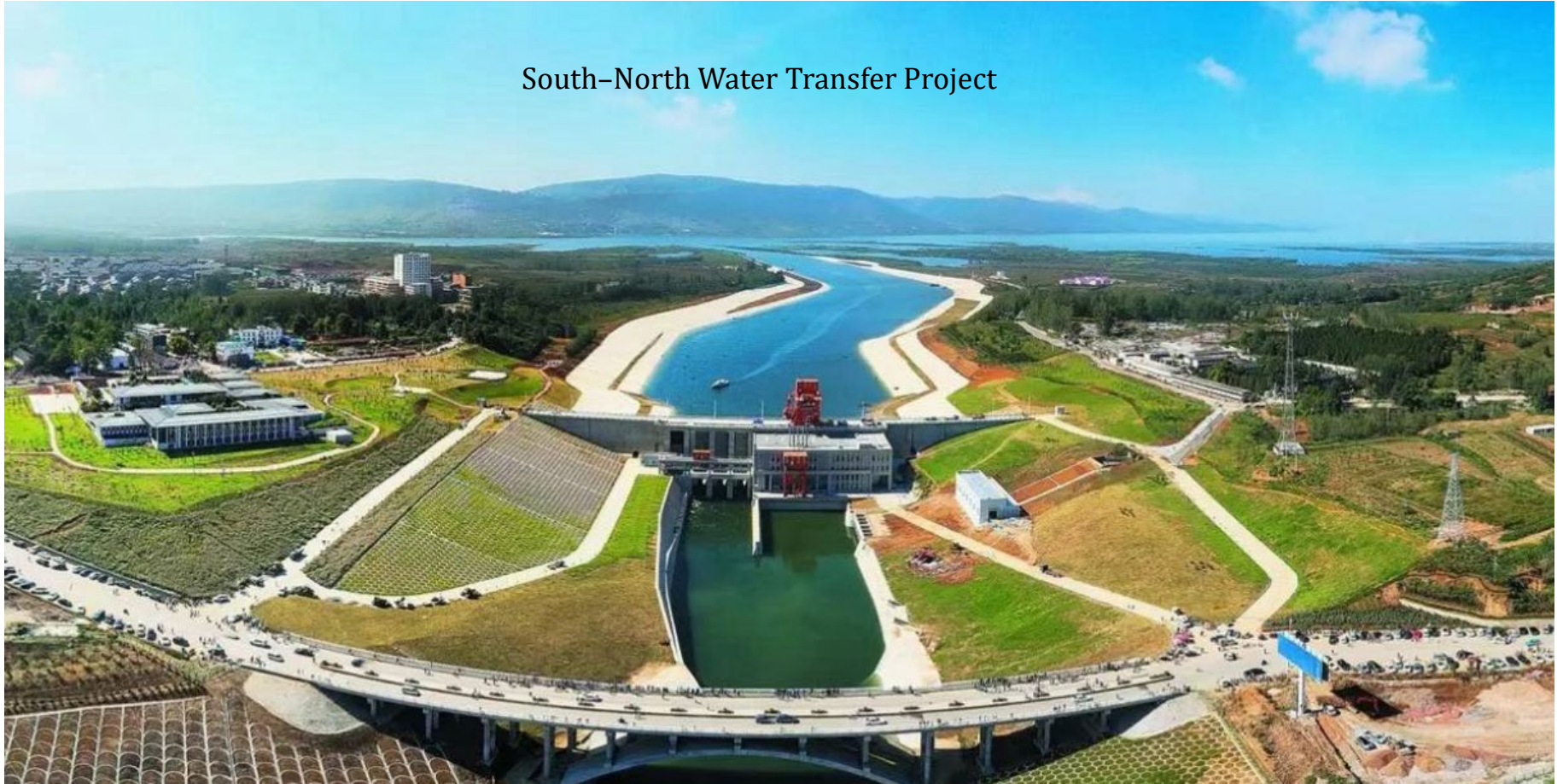
Source : Highways Department Hong Kong

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TRASVASSAMENTS

South-North Water Transfer Project





Giant Dual Tunnels Completed Under Yellow River for South-to-North Water Transfer Project

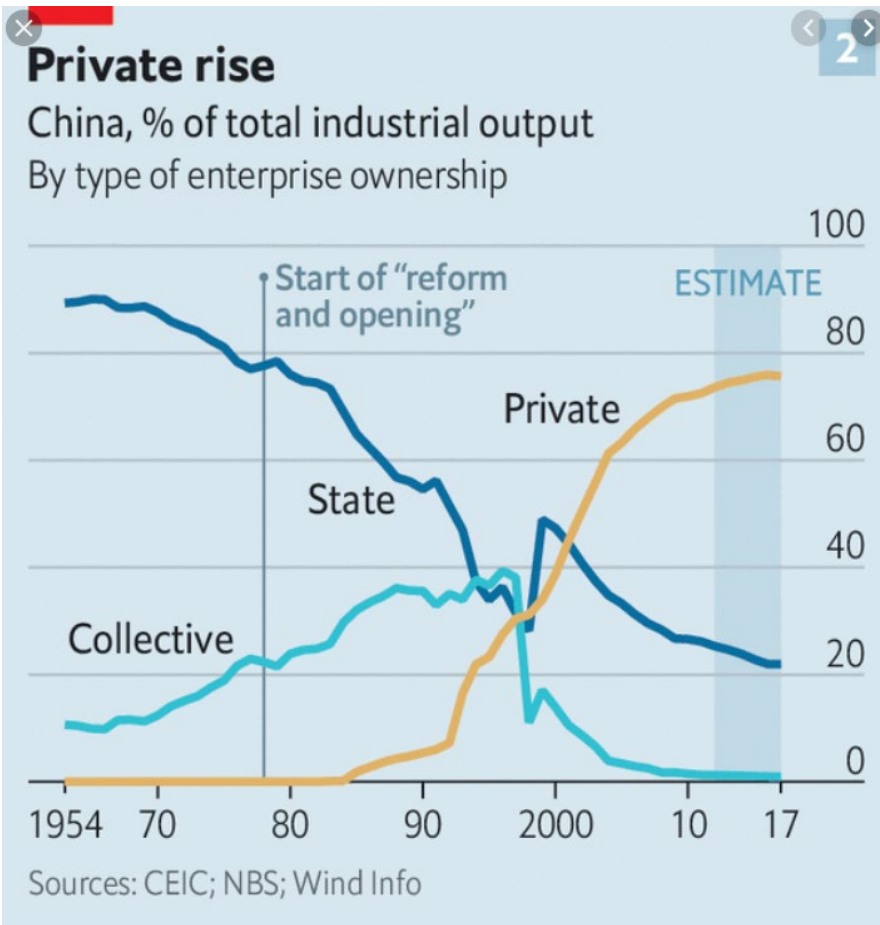
A critically important tunnel beneath the Yellow River was completed recently for the construction of the central route of the giant South-to-North Water Transfer Project, which will supply thirsty cities and industries in the country's northern cities.

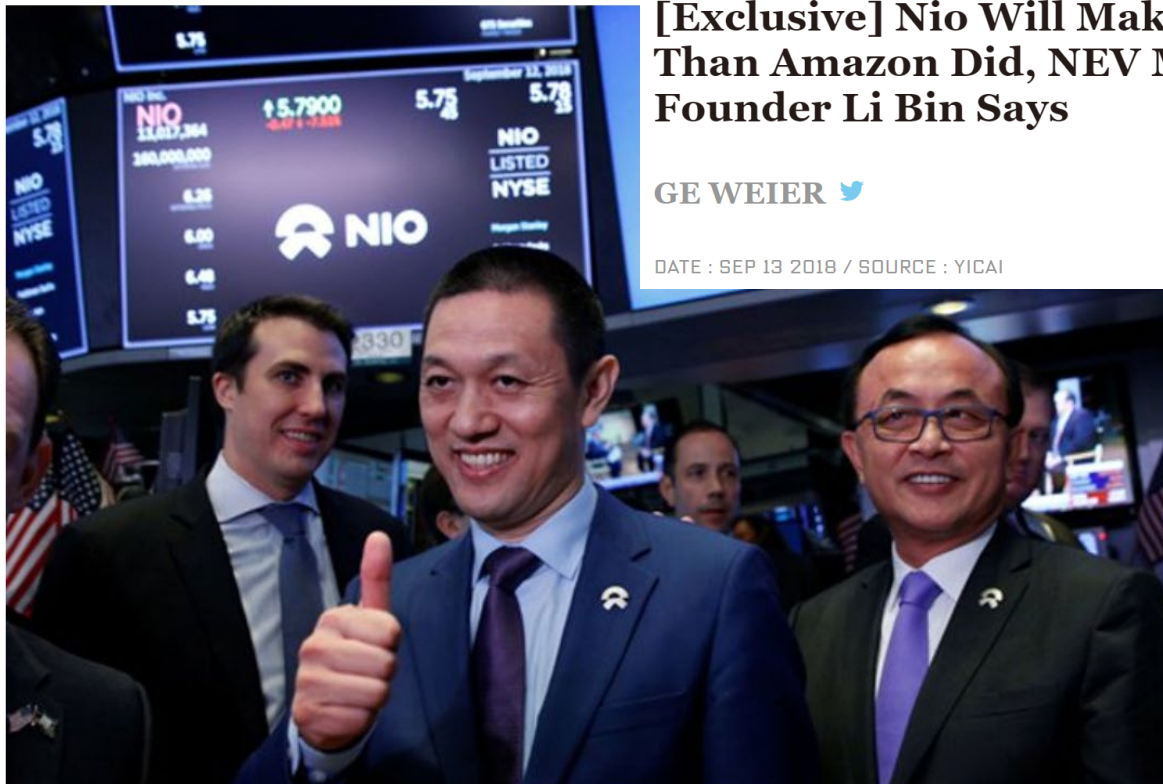


Dubbed the “throat” of the central route, the 4250-meter-long, 7-meter-wide each (13,944-feet-long, 21-feet-wide) dual tunnels will help transfer 14.8 billion cubic meters (3.9 trillion gallons) of water a year from the

3

L'ENERGIA DE LES EMPRESSES PRIVADES





[Exclusive] Nio Will Make Profit Faster Than Amazon Did, NEV Maker's Founder Li Bin Says

GE WEIER 

DATE : SEP 13 2018 / SOURCE : YICAI

[Exclusive] Nio Will Make Profit Faster Than Amazon Did, NEV Maker's Founder Li Bin Says

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nio.com

Believe in unicorns

2

Global startups valued at \$1bn or more, %

China United States Rest of world

Number of
unicorns
(Total 262)



Valuation
(Total \$883bn)



Source: McKinsey Global Institute

89 UNICORNS WORTH \$350B

609 BILLIONAIRES IN CHINA VS 552 IN USA

4 ONADES PRINCIPALS



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1990



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厕所革命 厕所革命

坚持不新建厕所“厕所革命” 厕所革命

取纸步骤：

Steps of taking toilet paper

1: 微信扫码

Scan the QR code using the Chat

2: 点击取纸

Click "Take"

3: 点击出纸按钮，等待出纸

Click the button and wait for the paper to be

2010

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Mi Note 10

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World's first 108MP penta camera

[Learn More](#)



mi.com

After investing in 270 startups, Xiaomi sets up an investment company

The smartphone maker has backed numerous IoT companies.

China
org.cn

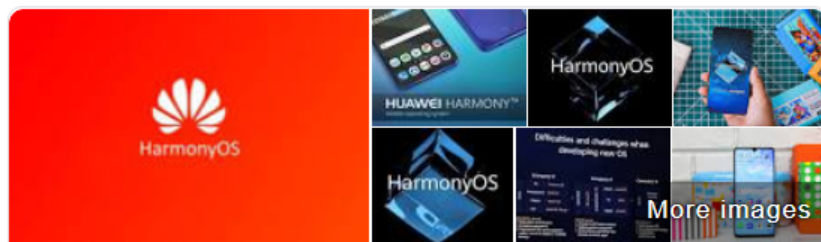
China.org.cn

91,554 followers

Promoted

#Huawei outpaces Apple, Samsung in R&D
increase: <https://lnkd.in/gqFnWHU>





More images

Harmony OS



Operating system

Harmony OS, styled as HarmonyOS, is an upcoming open source, microkernel-based distributed operating system being developed by Huawei. Unveiled on 9 August 2019, the platform is designed primarily for internet of things devices. [Wikipedia](#)

Initial release: August 9, 2019; 42 days ago

Source model: [Open source](#)

Developer: [Huawei](#)

Marketing target: [Internet of Things](#); Smartphones; Smart TV

ACCELERADORES DE HARDWARE

program based venture
capital for hardware



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LA SIMBIOSI PÚBLICO-PRIVADA

Guizhou as bigdata region

Land is cheaper than in the coast

Electricity cheaper (close hydropower)

Milder climate, easier to keep servers cool

But will it attract the high-paid people of those big-data companies?

The difficulty of finding qualified staff



Scenery of Guiyang, capital city of Guizhou

(Xinhua) Updated: 2016-06-05 11:16

Comments



China Daily App Download



Photo taken on June 2, 2016 shows the scenery of Guiyang, capital of Southwest China's Guizhou province. The forest coverage rate of Guiyang has surpassed 45 percent.[Photo/Xinhua]



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中文

Regions

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Baiyun
District

Wudang
District

Huaxi
District

Guanshanhu
District

Qingzhen
City

Xiuwen
County

Kaiyang
County

Xifeng
County



Big data driving digital economy boom in Guizhou



去通过使用我们腾讯的第四代数据中心的技术

The design sketch of Tencent Gui'an Seven Star Data Center

2019-04-22



Largest ever “bomb shelter” of Tencent, Construction of Tencent Gui'an Seven Star Data Center Completed in Guizhou

| 2019-04-22



4

**ECOSISTEMA
CIÈNCIA
TECNOLOGIA**

IMPULS A LA CIÈNCIA

MLP 2006-2021

Medium and Long-Term Plan for the Development of Science and Technology

Hacer pasar a China **de "imitadora" a "innovadora"**, con dos hitos a destacar:

- convertirse en una "sociedad orientada a la **innovación** en 2020", y
- convertirse en una "**superpotencia** en ciencia y tecnología 2050"
- Para ello hay que aumentar hasta el 15% del total de la inversión en I+D a la **investigación básica**

Se fija el objetivo de **dedicar el 2.5% del PIB** a la investigación y el desarrollo para 2020. El 2012 estaba en 1,98%. En 2018 llegó al 2,15%.

China's science, innovation and entrepreneurship in numbers



R&D to GDP ratio in 2018: **2.15%** compared to **2.07%** of EU and **3.33%** of Sweden in 2017.



Ranked #17 in Global Innovation Index 2018, compared to Sweden as **#3**.



R&D personell in 2018: **>4 million** and **#1** in the world, but also a demand for **5 million more** AI-talents in China.



#2 in the world in terms of scientific publications and citations, and **2% of highly cited** AI-publications are from China.

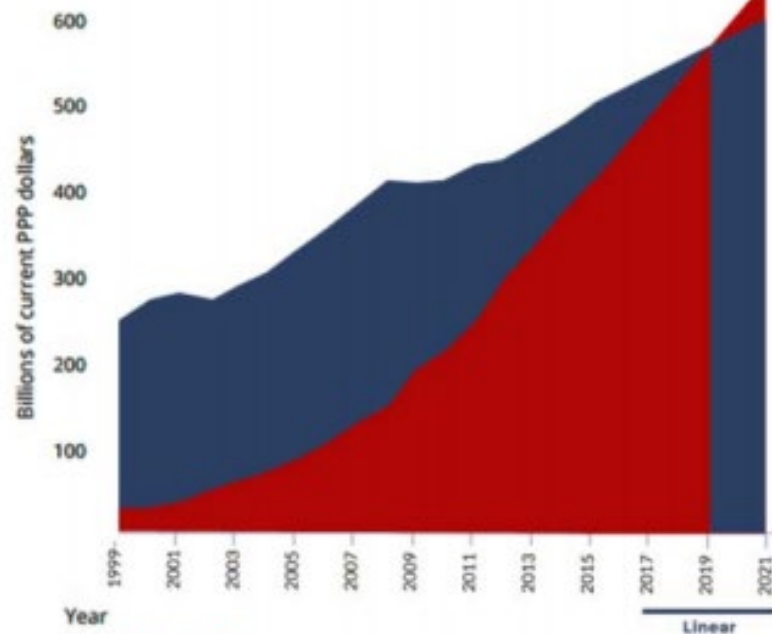


130 000 Science and Innovation-driven SMEs and **83** out of **310** unicorns are from China in 2018 in the Global Unicorn Club.



Rank #1 in the world for patents granted, **37%** of the world's environmentally-related innovations were patented in China according to OECD.

Gross domestic expenditures on R&D, by the United States and China: 1999-2021



China

The United States

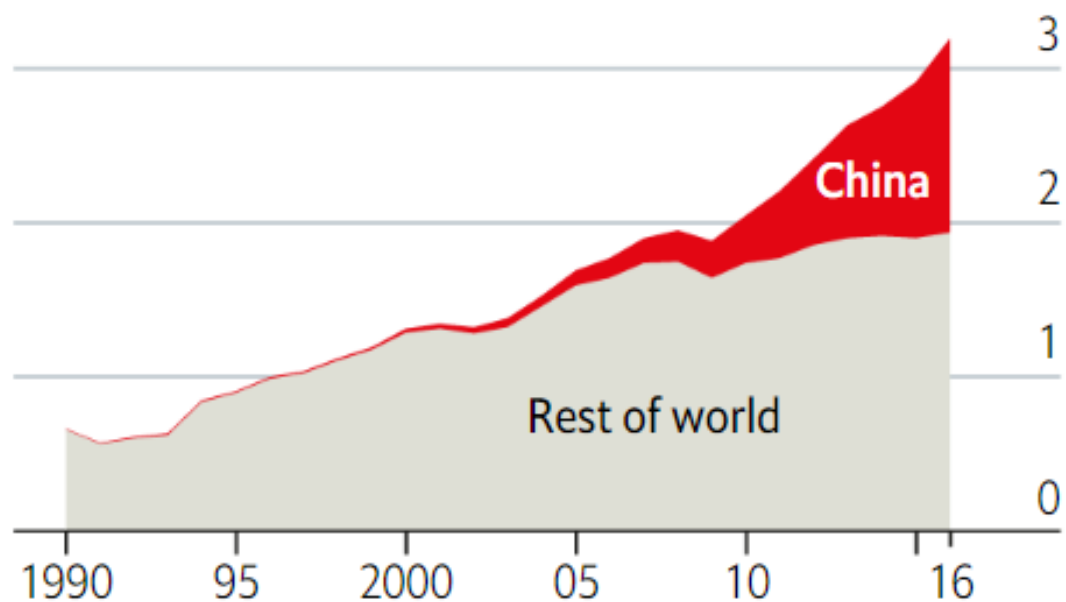
Source:

National Science Foundation, National Center for Science and Engineering Statistics, National Patterns of R&D Resources (annual series).

Science and Engineering Indicators 2018

Patent applications

By origin, m



*2011 purchasing-power parity

Qi Lu



Qi Lu in 2009

Born	September 3, 1961 (age 58) ^[1] Shanghai, China
Citizenship	American
Alma mater	Fudan University (B.S., M.S.) Carnegie Mellon University (Ph.D.)
Occupation	CEO of Y Combinator China
Known for	CEO of Bing, executive vice-president at Microsoft

He was formerly chief operating officer of [Baidu](#) until he stepped down in May 2018.

He has served as executive vice president of [Microsoft](#), leading development of [Bing](#), [Skype](#), and [Microsoft Office](#), and software engineer and manager for [Yahoo!](#)'s search technology division.

The man turning China into a quantum superpower



China is building a massive multi-location national-level quantum laboratory

SEP 5, 2018 | IN ON THE CUSP | BY RUNHUA ZHAO

Jian-Wei Pan, China's "father of quantum", is masterminding its drive for global leadership in technologies that could change entire industries.

by Martin Giles December 19, 2018



LES UNIVERSITATS

Seizing the laurels

Tsinghua University may soon top the world league in science research

In China, its rapid rise is not unique



**6 MILIONS DE LLICENCIATS
CADA ANY**

5

EMPRENEDURIA EN MASSA

PARCS I INCUBADORES



NO.1

TusStar

启迪之星



BEIJING





TusStar

启迪之星

第 152 区

中国 · 成都

SHANGAI





XI'AN

CHENGDU - PIDU



→ 本侧开门

终点站：韦家碾

桐梓林
Tongzilin

7

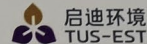
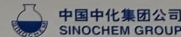
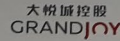
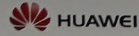
高新
Hi-Tech Zone

火车南站
South Railway Station

金融城
Financial City

战略合作伙伴

Strategic Partners



启迪
一个

从耕耘到
TUSSTAR, A V



王 伟
TusStar 集团董事长



张 强
TusStar 集团董事长



陈 伟
TusStar 集团董事长



李 强
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TusStar

启迪之星(上海)

创业导师

EL RÈGIM 996

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Tienda



MAVIC 2

ACÉRCATE A UN MUNDO NUEVO



Osmo Action

Osmo Pocket

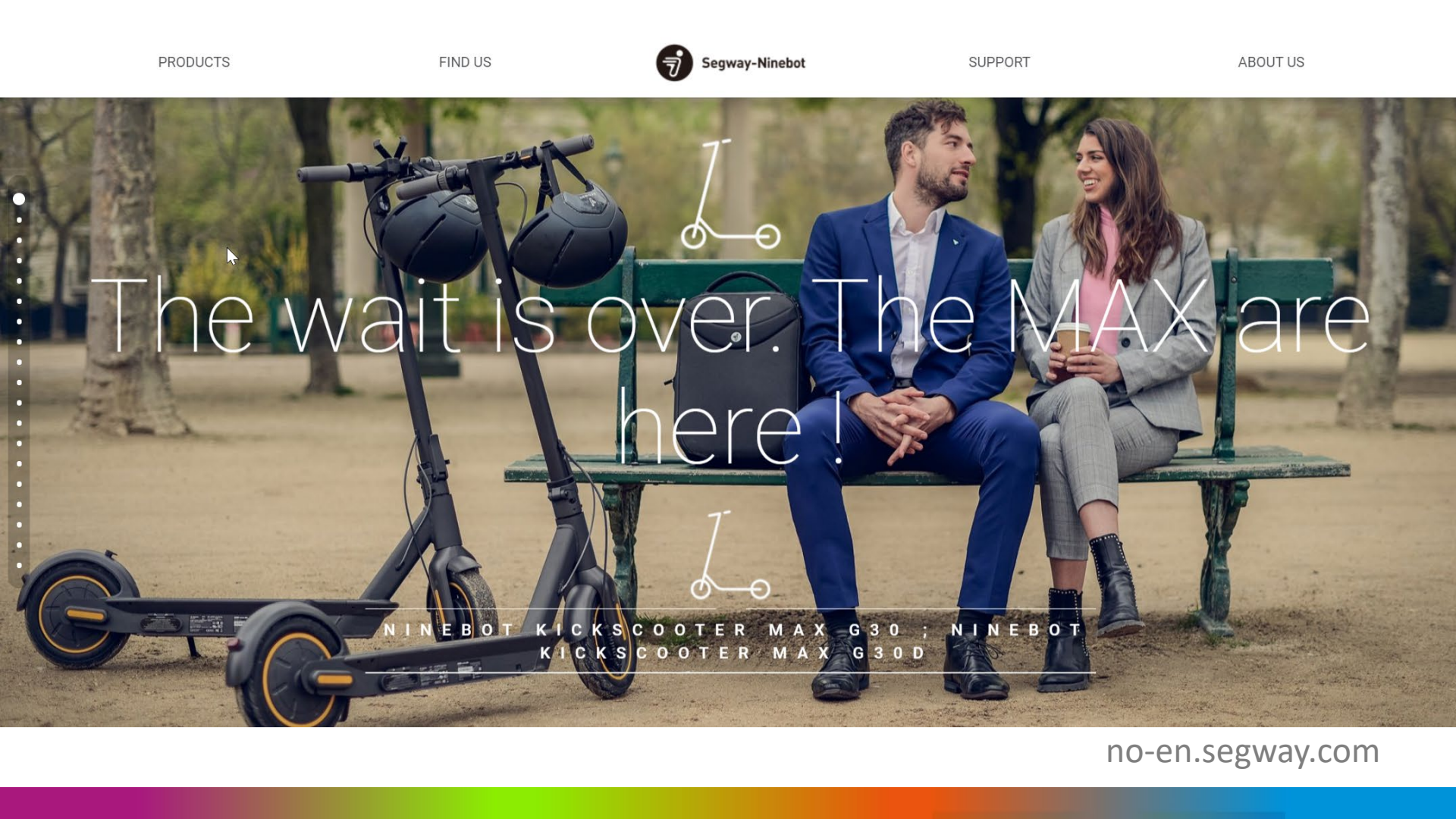
Mavic 2

Mavic Air

Serie Matrice 200 V2



dji.com



The wait is over. The MAX are here!

NINEBOT KICKSCOOTER MAX G30 ; NINEBOT
KICKSCOOTER MAX G30D



EHANG184

Autonomous Aerial Vehicle (AAV)

Ehang 184 AAV is the safest, Smartest and Eco-Friendly low altitude autonomous aerial vehicle, aiming on providing Medium-Short Distance communication and transportation solution.

ehang.com



ehang.com

A black and white photograph of a herd of elephants walking through a dusty or misty environment. The elephants are in the foreground, with their heads and tusks clearly visible. The background is slightly blurred, showing more elephants and a hazy horizon.

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6

LA INDUSTRIA AVANÇADA

AUTOMOCIÓ







Global Car & LCV Sales by Region 2018

North America		
20.86m		
-0.2%		
USA	17.32m	0%
Canada	2.01m	-2%
Mexico	1.43m	-7%
P. Rico	108k	+28%

South America		
4.30m		
+7.0%		
Brazil	2.47m	+14%
Argentina	771k	-10%
Chile	416k	+12%
Colombia	257k	+8%

EMEA		
22.70m		
-1.1%		
Germany	3.72m	0%
UK	2.72m	-6%
France	2.62m	+3%
Italy	2.08m	-3%
Russia	1.80m	+13%

China		
28.08m		
-2.8%		
Japan		
5.19m		
+0.6%		
S. Korea		
1.78m		
+1.4%		

Asia-Pacific		
10.65m		
+3.3%		
India	3.92m	+9%
Australia	1.11m	-3%
Indonesia	1.03m	+5%
Thailand	1.01m	+20%
Malaysia	581k	+4%



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global.geely.com

Quantity, if not quality

1

World passenger car production 2018*, m



Source: IHS Markit

*Estimate

China powers up electric car market

By Tim McDonald
BBC News, Singapore

🕒 11 January 2019



🔗 Share



GETTY IMAGES

Rules to cut pollution are expected to boost sales for electric carmakers such as BYD

2018-FY Global-54 BEV Car Sales



Top 5 (000)

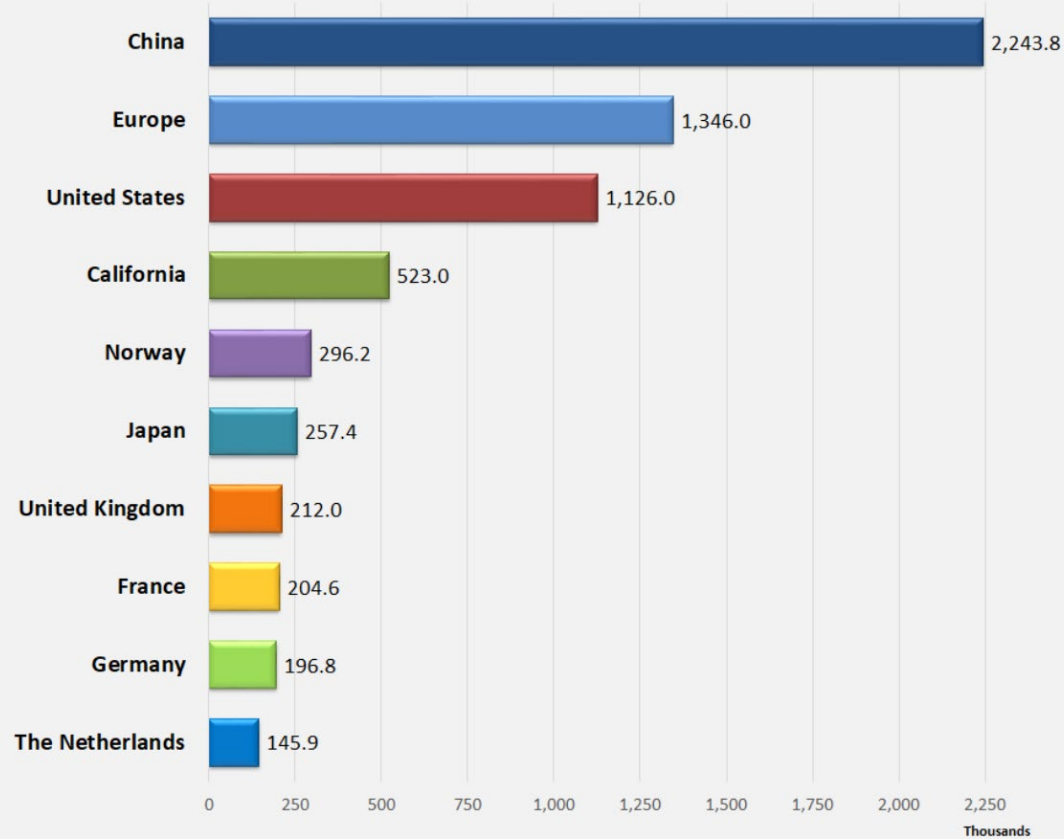
Markets	China	769
	USA	209
	Norway	46
	Germany	35
	France	31

Brands	Tesla*	230
	BAIC	152
	BYD	95
	Nissan	92
	Zotye	64

Models	Model 3*	138
	EC	92
	Leaf	85
	E200	51
	Model S*	48

*Estimates for Nov, Dec data in USA & Canada

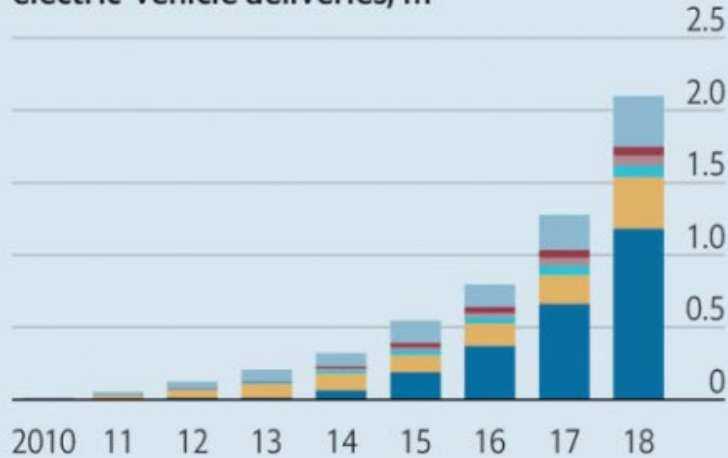
**Top-selling light-duty plug-in electric vehicle global markets
(cumulative sales through December 2018 by country/region)**



Wave of the future

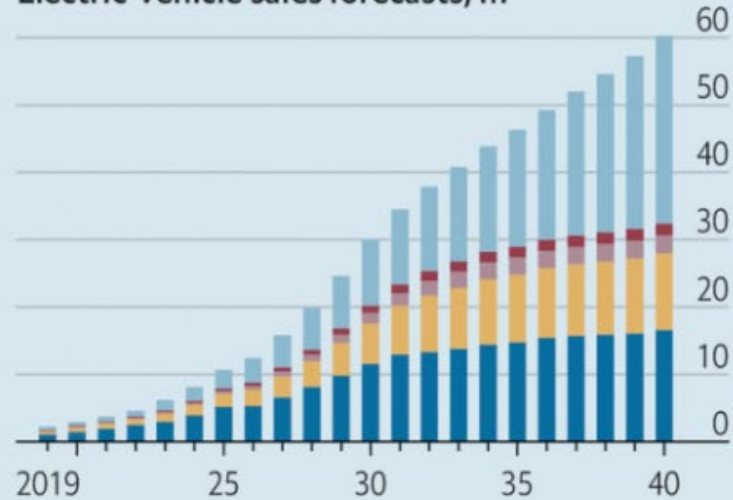
China United States Norway Germany Britain Other

Battery and plug-in hybrid electric-vehicle deliveries, m



Sources: EV volumes; BloombergNEF

Electric-vehicle sales forecasts, m



Economist.com

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Products & Solutions

Online Support

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Passenger Vehicles



Commercial Vehicles



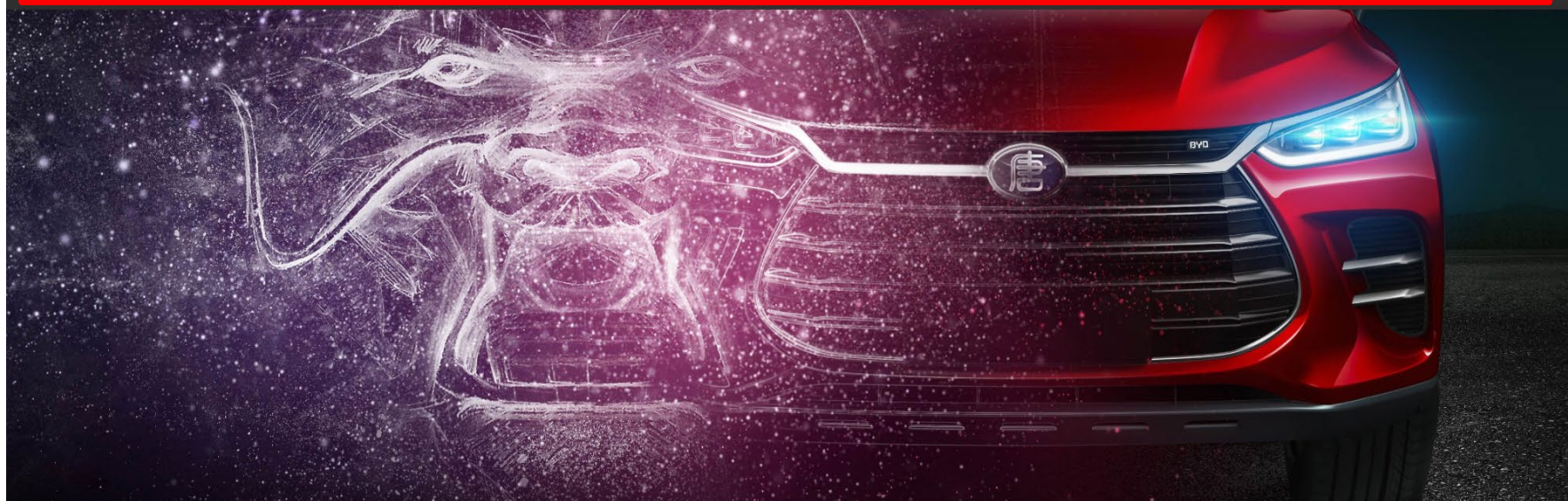
Rail Transit



Batteries



Electronics



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7+4 Full Market EV Strategy

7 conventional types of vehicle
4 specialized types of vehicle









550 MILLION REGISTERED USERS
30 Million RIDES A DAY (UBER 15 WORLDWIDE)

MORE THAN A
JOURNEY

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DiDi - Greater China



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 京公网安备 11000002002025号



didiglobal.com

BATERIES

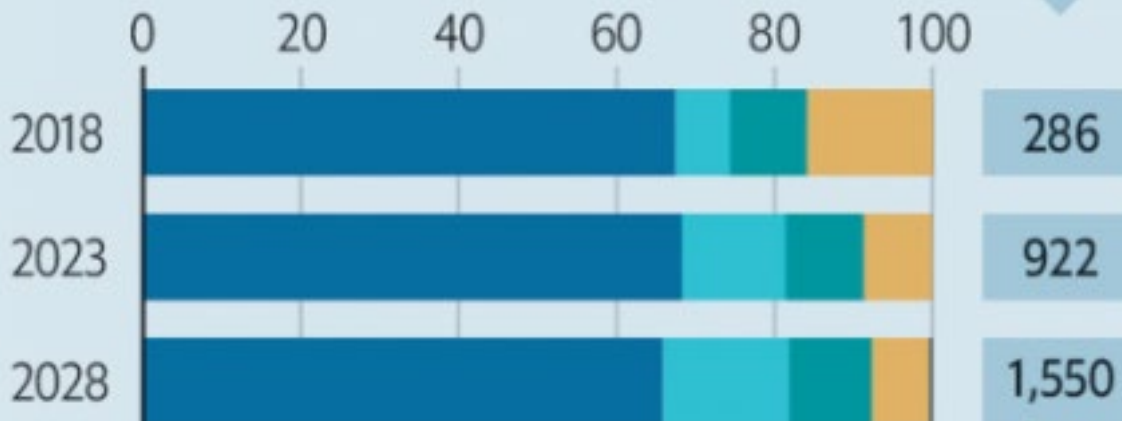
Charging up

3

World battery production capacity by region, %

■ China ■ Europe ■ Asia
■ North America ■ Other

Total,
GWh



Source: Benchmark Mineral Intelligence

Global Deployment

Rooted in China, CATL boasts a global deployment and is devoted to driving new energy innovation throughout the world.



Headquarters



Manufacturing Facilities



Branch Offices



R&D Centers



Year Established

2011



Headquarters

Ningde, Fujian, China





BMW locks up €10.2 billion battery order ahead of EV onslaught

Kirsten Korosec @kirstenkorosec / 6:37 pm CET • November 21, 2019

 Comment

BMW announced Thursday it will spend more than €10 billion euros (\$11.07 billion) on battery cells from Chinese battery cell manufacturer Contemporary Amperex Technology Co. and Samsung SDI.

The deal comes just days after BMW unveiled its first [purely electric premium mid-size sedan](#), called the i4. The all-electric sedan, which won't be available until 2021, is powered by the company's fifth-generation eDrive platform and part of the company's upcoming onslaught of EVs.

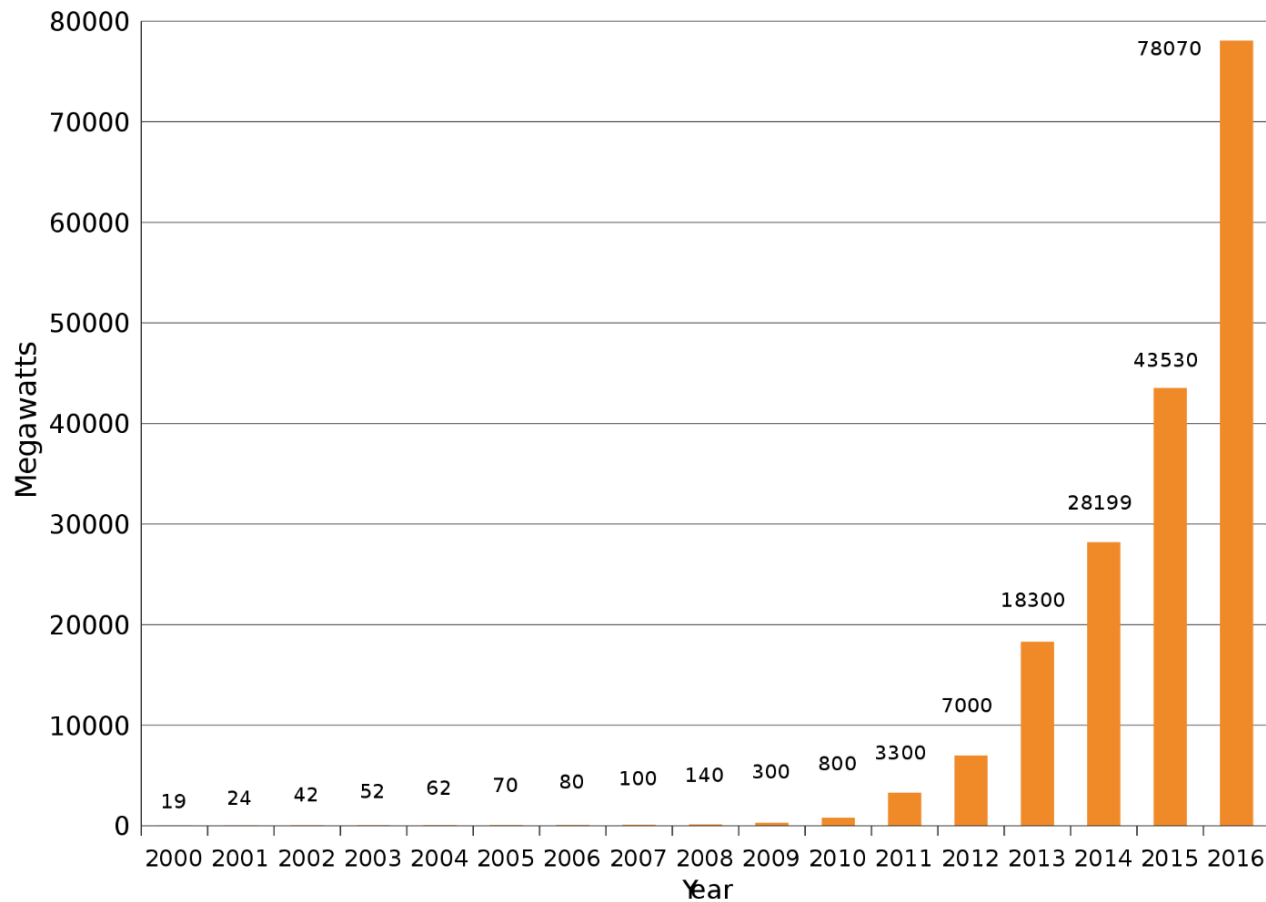
BMW's original deal with CATL, which was announced in mid-2018, was for €4 billion worth of battery cells. This new contract is from 2020 to 2031, the German automaker said.

ENERGIES RENOVABLES

Electricity production (GWh) in China by source, 2008-2016^[1]

Year ↕	Total ↕	Fossil			Nuclear ↕	Renewable								Total renewable ↕	% renewable ↕
		Coal ↕	Oil ↕	Gas ↕		Hydro ↕	Wind ↕	Solar PV ↕	Biofuels ↕	Waste ↕	Solar thermal ↕	Geo-thermal ↕	Tide ↕		
2008	3,481,985	2,743,767	23,791	31,028	68,394	585,187	14,800	152	14,715	0	0	144	7	615,005	17.66%
2009	3,741,961	2,940,751	16,612	50,813	70,134	615,640	26,900	279	20,700	0	0	125	7	663,651	17.74%
2010	4,207,993	3,250,409	13,236	69,027	73,880	722,172	44,622	699	24,750	9,064	2	125	7	801,441	19.05%
2011	4,715,761	3,723,315	7,786	84,022	86,350	698,945	70,331	2,604	31,500	10,770	6	125	7	814,288	17.27%
2012	4,994,038	3,785,022	6,698	85,686	97,394	872,107	95,978	6,344	33,700	10,968	9	125	7	1,019,238	20.41%
2013	5,447,231	4,110,826	6,504	90,602	111,613	920,291	141,197	15,451	38,300	12,304	26	109	8	1,127,686	20.70%
2014	5,876,945	4,115,215	5,517	114,365	152,358	1,084,357	156,876	25,155	44,457	12,956	34	125	8	1,307,170	23.02%
2015	5,859,958	4,108,994	9,679	145,346	170,789	1,130,270	185,766	45,225	52,700	11,029	27	125	8	1,425,180	24.32%
2016	6,217,907	4,241,786	10,367	170,488	213,287	1,193,374	237,071	75,256	64,700	11,413	29	125	11	1,581,979	25.44%
2017	6,452,900				248,100	1,194,700	304,600	117,800							
2018	6,994,000				294,400	1,232,900	366,000	177,500							

China Photovoltaics Cumulative Capacity



Photovoltaics

Year	Capacity (MW)	Installed/yr
1999	16	
2000	19	3
2001	23.5	4.5
2002	42	8.5
2003	52	10
2004	62	10
2005	70	8
2006	80	10
2007	100	20
2008	140	40
2009	200	160
2010	800	500
2011	3,300	2,500
2012	8,300	5,000
2013	~17,800	~9,500
2014	28,199	10,560
2015	43,180	15,130
2016	77,420	34,540
2017	130,250	52,830
2018	174,630	44,380 ^[28]

Note: Figures for 2013 were retroactively changed.

Clarification TBA. Source: IEA,^{[29][30]} China National Energy Administration (2015 figures),^[31] China Energy Portal (2016 & 2017 figures)^{[32][33]}

China Is Set To Become The World's Renewable Energy Superpower, According To New Report



Dominic Dudley Contributor ①

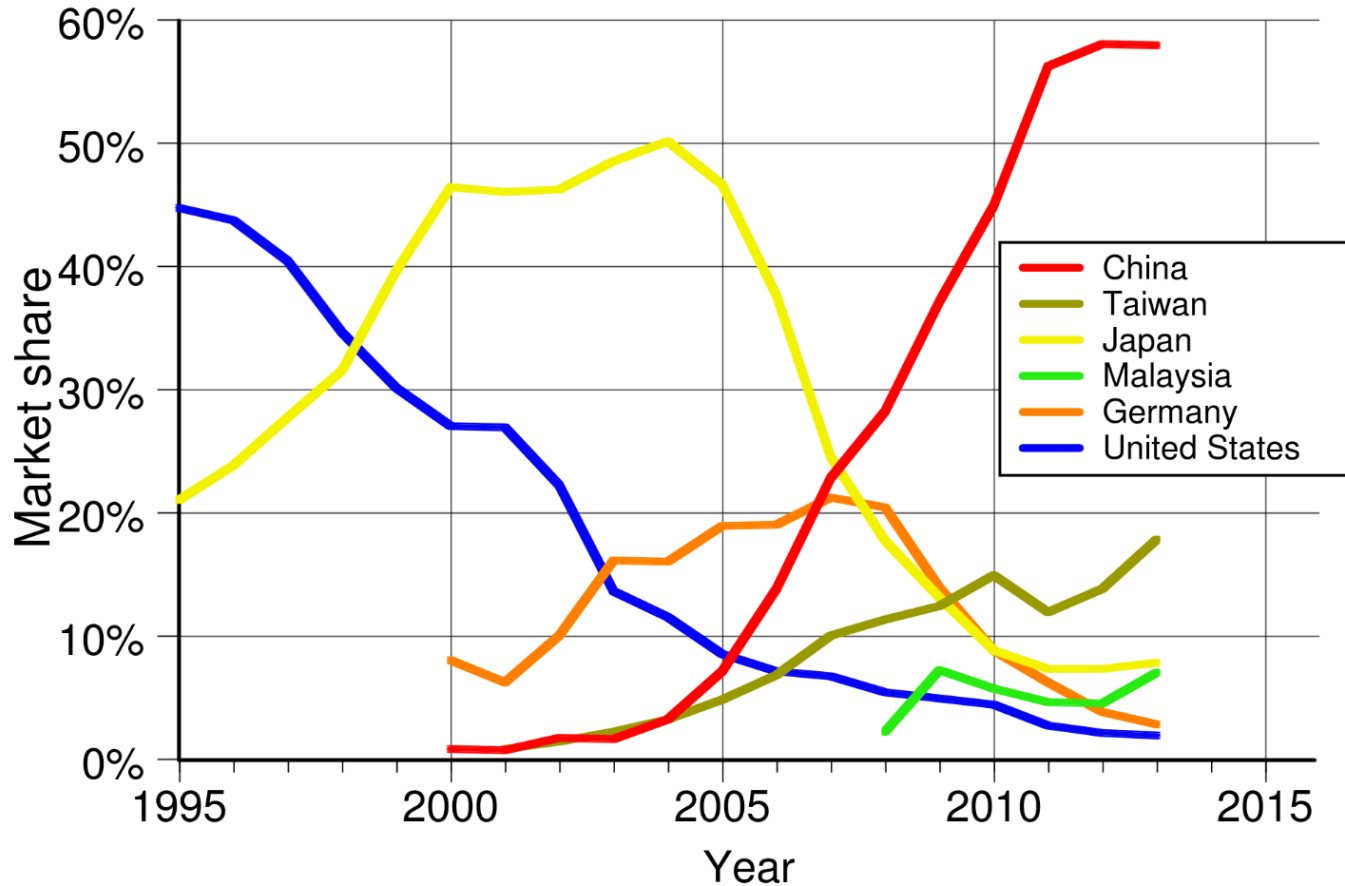
[Business](#)

I write about business and politics in the Middle East and beyond

-
-  The continuing growth in renewable energy around the world is set to boost the power of China while undermining the
 -  influence of major oil exporters such as Russia and Middle
 -  East states like Saudi Arabia, according to a new report on the geopolitical implications of the changing energy landscape.

Market Share of Photovoltaic Cells

Data on the **world's largest solar PV producers**, including China, Taiwan, US, Japan, and Germany



RENEWABLES

12 August 2019 16:56

Solar now 'cheaper than grid electricity' in every Chinese city, study finds





Workers install solar panels on the rooftop of a textile factory in Nantong, China. Credit: Imaginechina Limited / Alamy Stock Photo.

IMPULS A LA INDÚSTRIA AVANÇADA

MADE IN CHINA 2025

Pasar de la capacitación industrial de **fabricar** productos simples y baratos a la de **fabricar productos y servicios de mayor valor añadido.**

Ello incluye **aumentar el contenido nacional chino** de los materiales básicos utilizados para fabricar los productos del 40 por ciento para 2020 y al 70 por ciento para 2025.

El plan se centra en los **campos de alta tecnología**, incluida la industria farmacéutica, la industria automotriz, la industria aeroespacial, los semiconductores, la informática y la robótica, etc., que actualmente son competencia de empresas extranjeras.

Inversión del Gobierno Chino de **300000 M\$**

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2019-09-28

COMAC delivers 15th ARJ21 aircraft to Chengdu Airlines

2019-09-26

COMAC delivers 14th ARJ21 aircraft to Chengdu Airlines

comac.cc



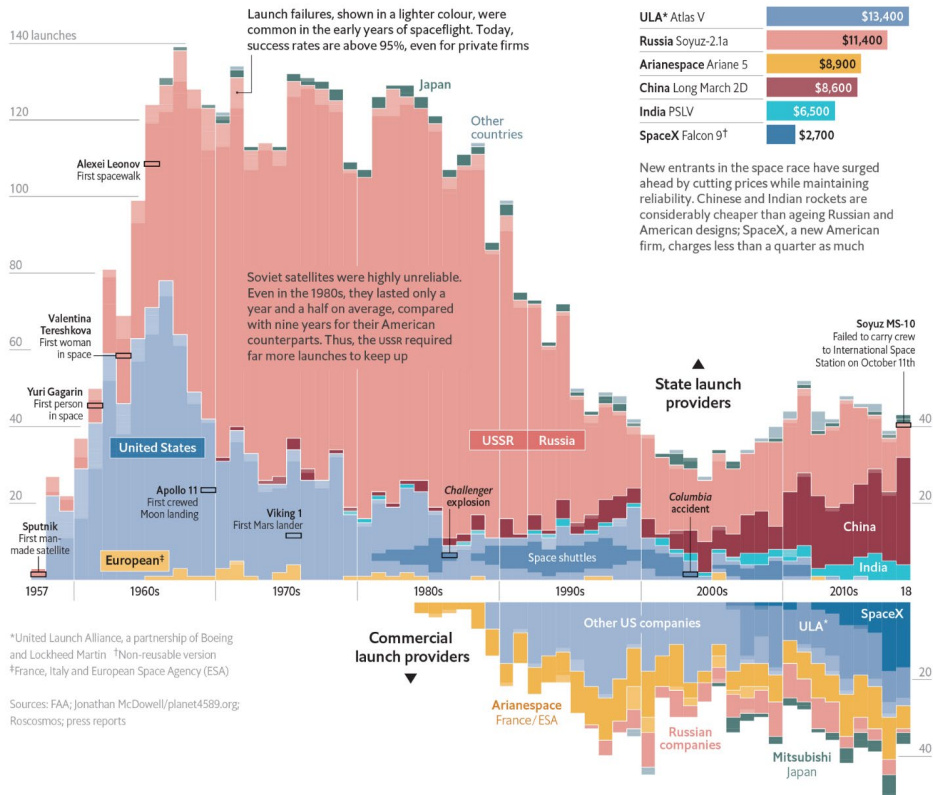
technologyreview.com

Graphic detail

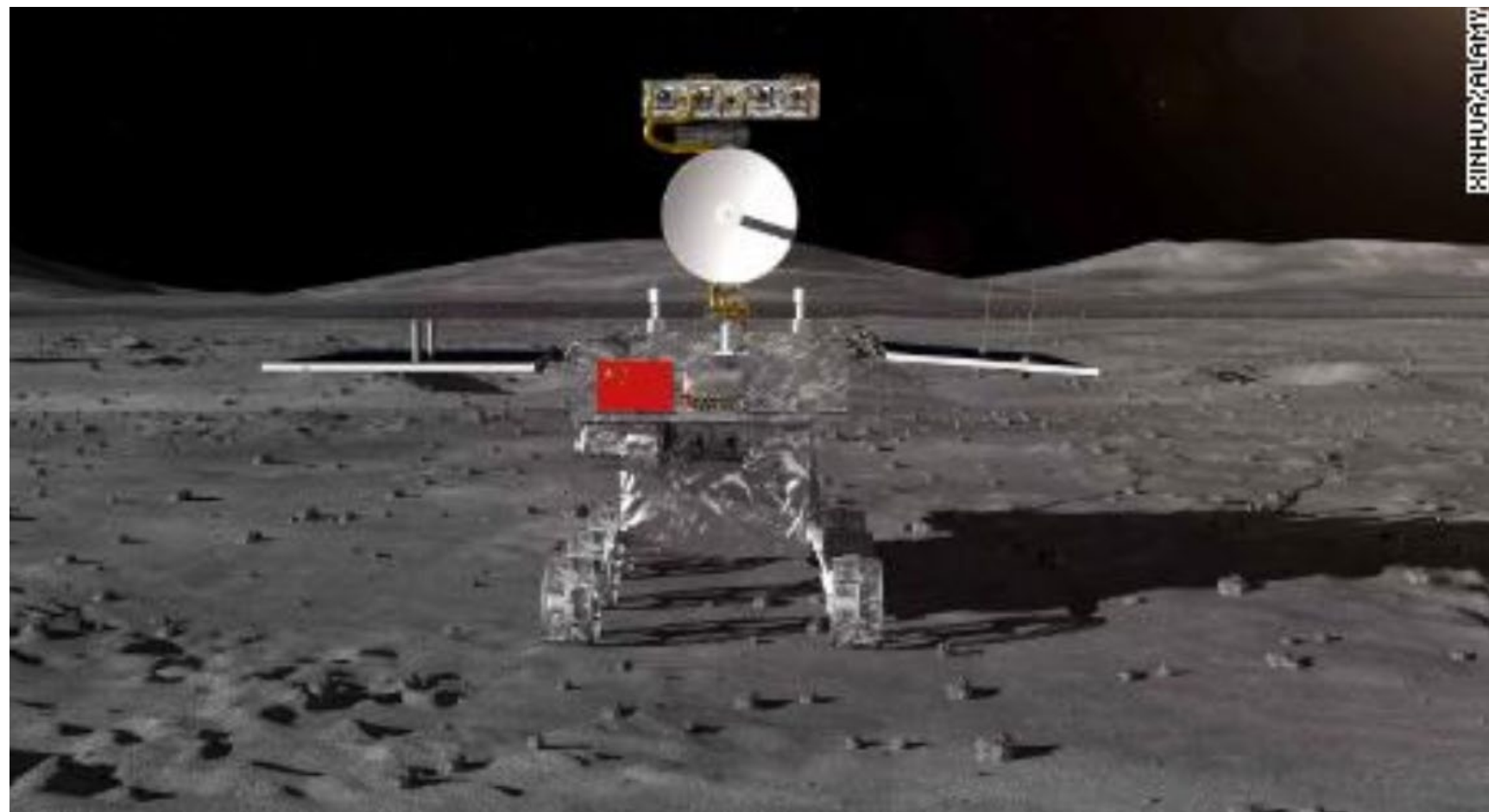
The Economist October 20th 2018 89

Space launches

To Earth orbit or higher, at October 17th 2018



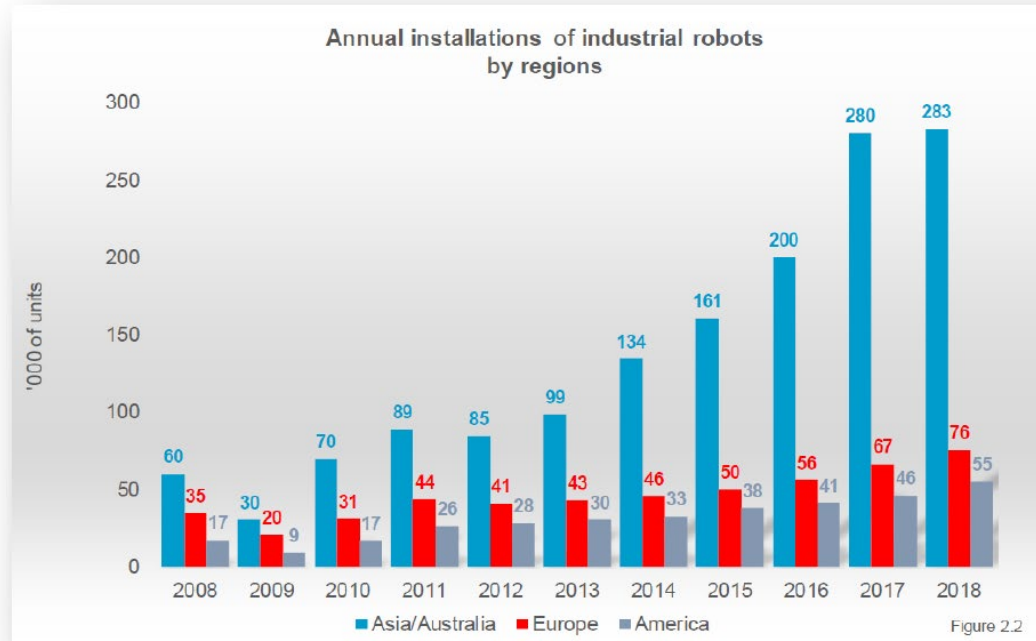
Economist.com



6

ROBÒTICA INTEL-LIGÈNCIA ARTIFICIAL

Ventas anuales de robots industriales por regiones



Fuente: IFR World Robotics Report 2019

Annual installations of industrial robots 15 largest markets 2018

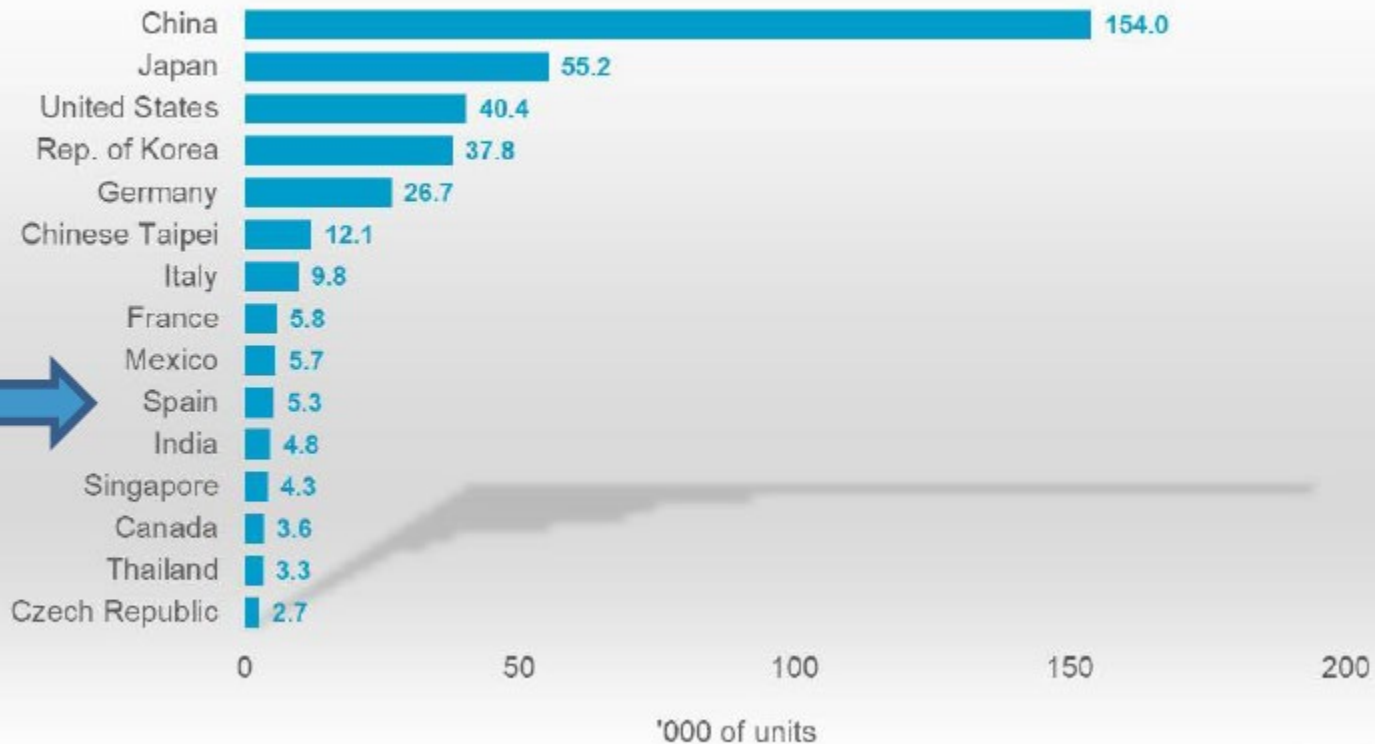


Figure 2.4 a)



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Humanising technology

midea-group.com



QUICK FACTS

\$39.47 bn

total revenue

150,000+

employees

Nº 1 DEL MUNDO

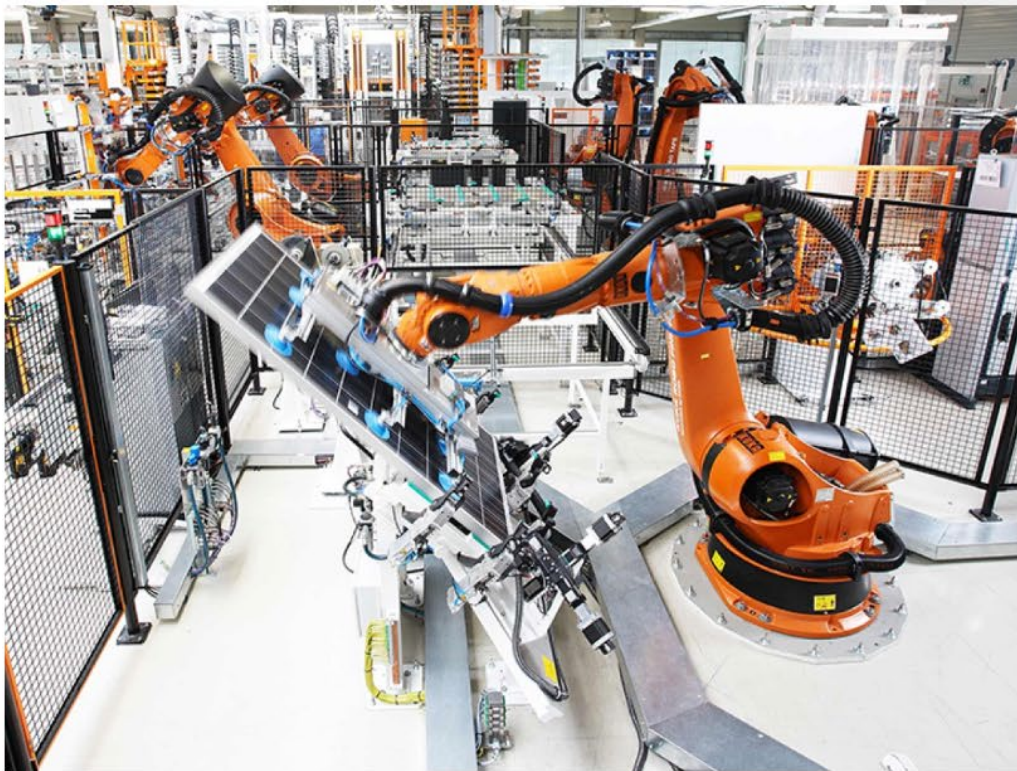
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BUSINESS NEWS 18. MAI 2016 / 09:35 / VOR 4 JAHREN

China's Midea makes \$5-billion bid for German robot maker Kuka



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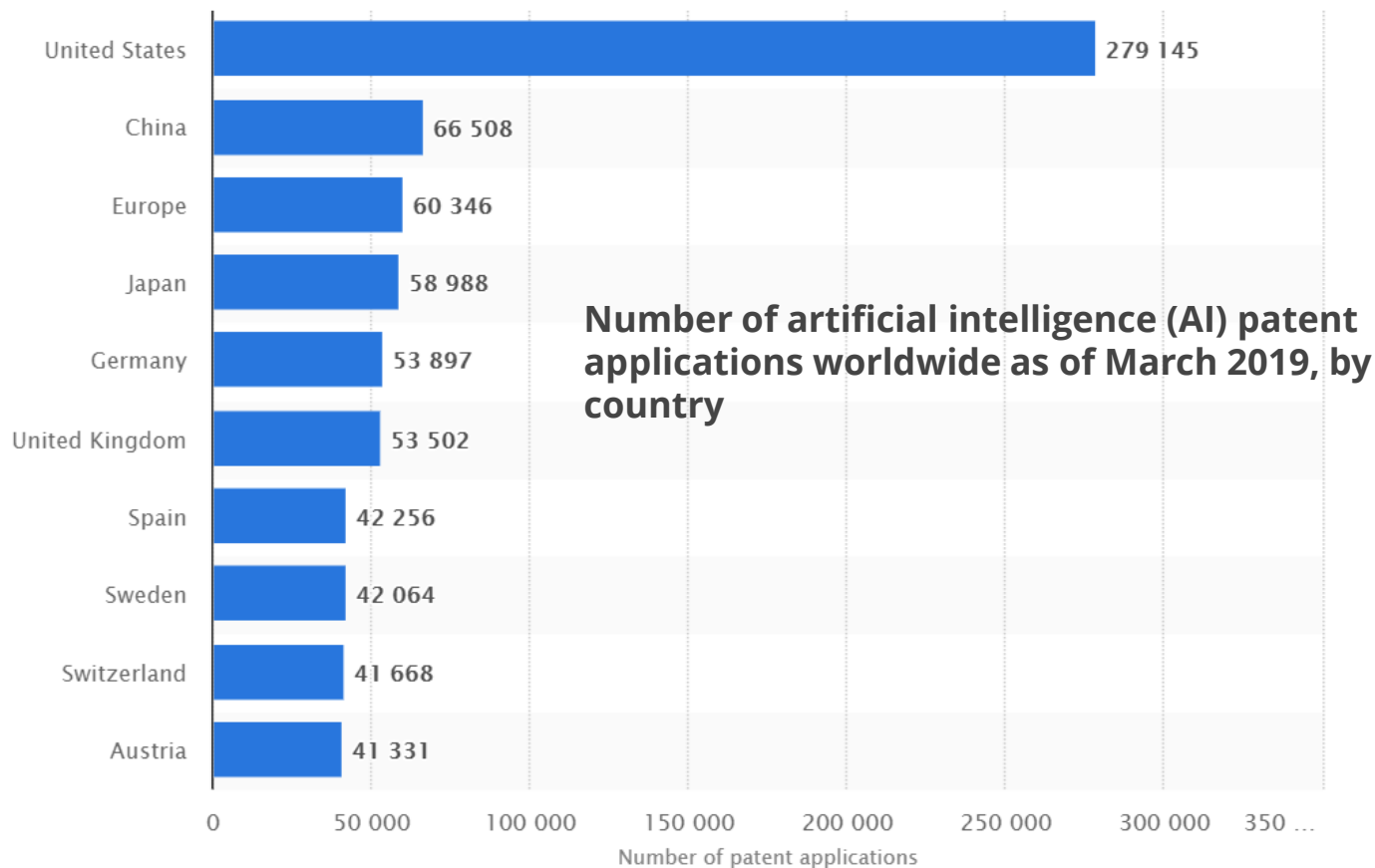
Briefing: Profits for Midea-backed robot maker Kuka fall 80% in 2018

MAR 29, 2019 | IN HEAVY HITTERS, WITH CHINESE CHARACTERISTICS | BY JILL SHEN

1 min read

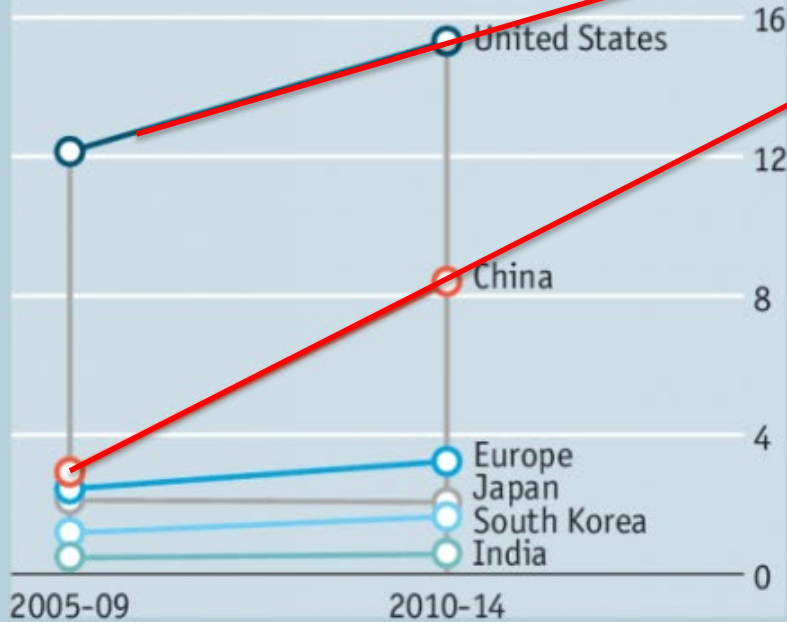
美的收购的机器人巨头库卡，去年利润暴跌八成将开始裁员 – Jiemian

What happened: Two years after being acquired by Chinese consumer electronics giant Midea, German robot manufacturer Kuka reported poor results for 2018. Its sales revenues decreased 6.8% to €3.2 billion (around \$3.6 billion) compared to the prior year, while after-tax profits plummeted 81.2% year-on-year to €16.6 million. The company is has a cost reduction plan in the works with the goal of saving €300 million by 2021, including laying off 350 full-time employees in Augsburg, Germany within the year.



Race of the machines

Number of artificial-intelligence patent applications
'000



Sources: Press reports; Wuzhen Institute

Number of artificial-intelligence companies
Selected countries, 2016, '000



Únete a Xunfei



 | 讯飞录音笔

A.I.就在李阳的身边

**“没有板书也不要紧
笔记照样一字不漏”**

讯飞智能录音笔
高清录音，实时转写文字，准确高效

  **李阳 化学系大三学生**
大三化学一个实验要做一天，中间错一步等于白干。老师讲课一遍就得自己动手，记性再好手速再快也记不下，而录音笔不但记得住，还能看得见。

#AI国货正当潮#

iflytek.com



Toutiao



Toutiao or Jinri Toutiao is a news and information content platform, a core product of the Beijing-based company ByteDance. By analyzing the features of content, users and users' interaction with content, the company's algorithm models generate a tailored feed list of content for each user. [Wikipedia](#)

Founder: [Zhang Yiming](#)

Founded: March 2012

CEO: [Chen Lin](#) (Nov 2018–)

Owner: [ByteDance](#)

toutiao.com

Power Human

We are a world-class AI company with
We provide full-stack solutions to
leading positions across

This Is C

Megvii

Software company



Megvii is a Chinese technology company that designs image recognition and deep-learning software. Based in Beijing, the company develops artificial intelligence technology for businesses and for the public sector. In 2019, the company was valued at USD \$4 billion. [Wikipedia](#)

Founded: 2011

Number of employees: 2,349 (2019)

Total equity: 4 billion USD (2019)

Subsidiary: [Beijing Aresbots Technology Co., Ltd.](#)

Type of business: [Privately held company](#)

| Full-stack AI Solutions |



Personal IoT

Device Authentication

Computational Photography

Face++ AI Open Platform

FaceID Cloud-based Solutions



City IoT

Smart City Management

Smart Community Management

Smart Campus Management



Supply Chain IoT

Smart Logistics

Smart Manufacturing

Smart Retail

Megvii Raises US\$750 Million in Series D Equity Financing to Accelerate AI Innovations

2019-05-08

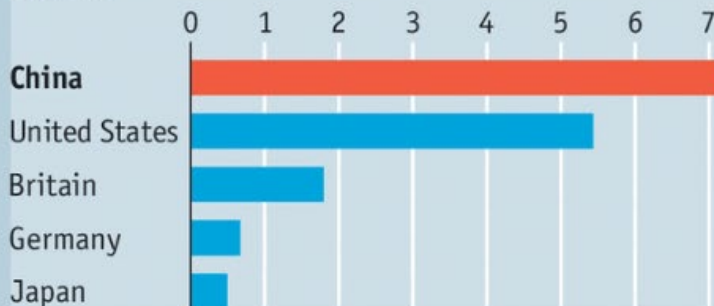
BEIJING, May 8, 2019 – Today, Megvii Technology Limited (“Megvii” or the “Company”) announced that it had closed the second tranche of its Series D equity financing, bringing the total proceeds received in its Series D round financing to approximately US\$750 million.

Participants in the Series D equity financing comprise leading global institutional and strategic investors including Bank of China Group Investment Limited; a wholly-owned subsidiary of the Abu Dhabi Investment Authority (ADIA); Macquarie Group; and ICBC Asset Management (Global) Co. Ltd.

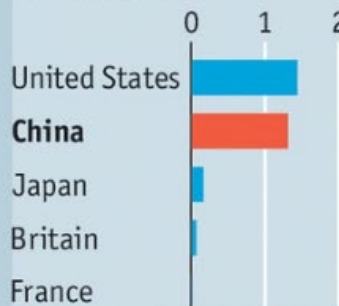
A good place to startup

Chinese venture-capital investment by technology, 2016, \$bn

Fintech



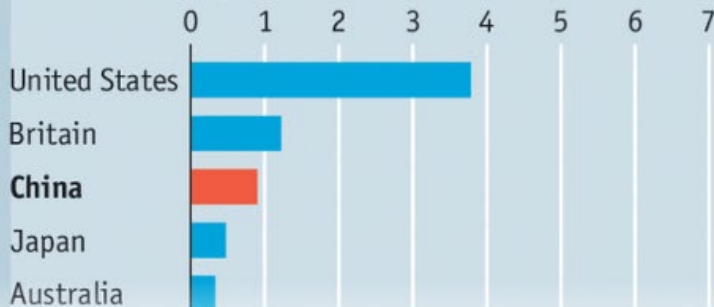
Virtual reality



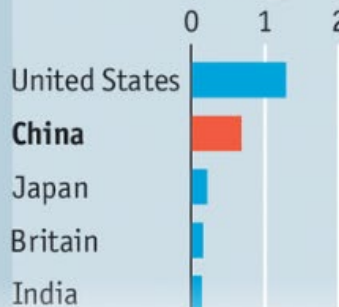
Robotics and drones



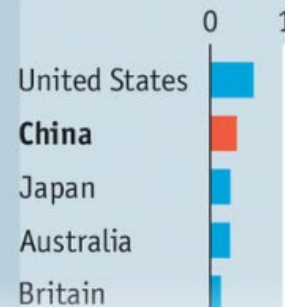
Artificial intelligence



Education technology



Autonomous driving



Source: McKinsey Global Institute

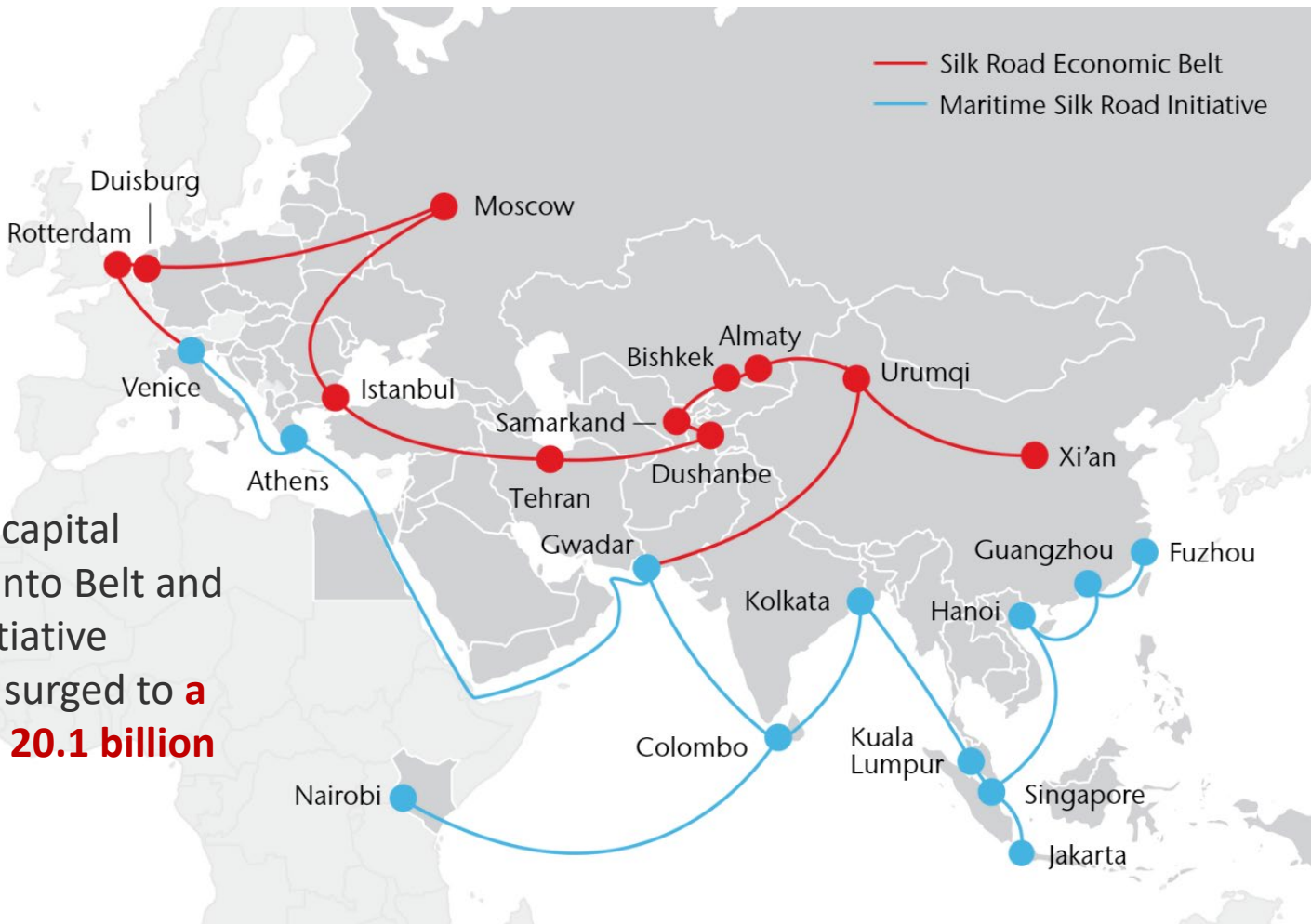
Economist.com

8

NOVA RUTA DE LA SEDA

Belt And Road

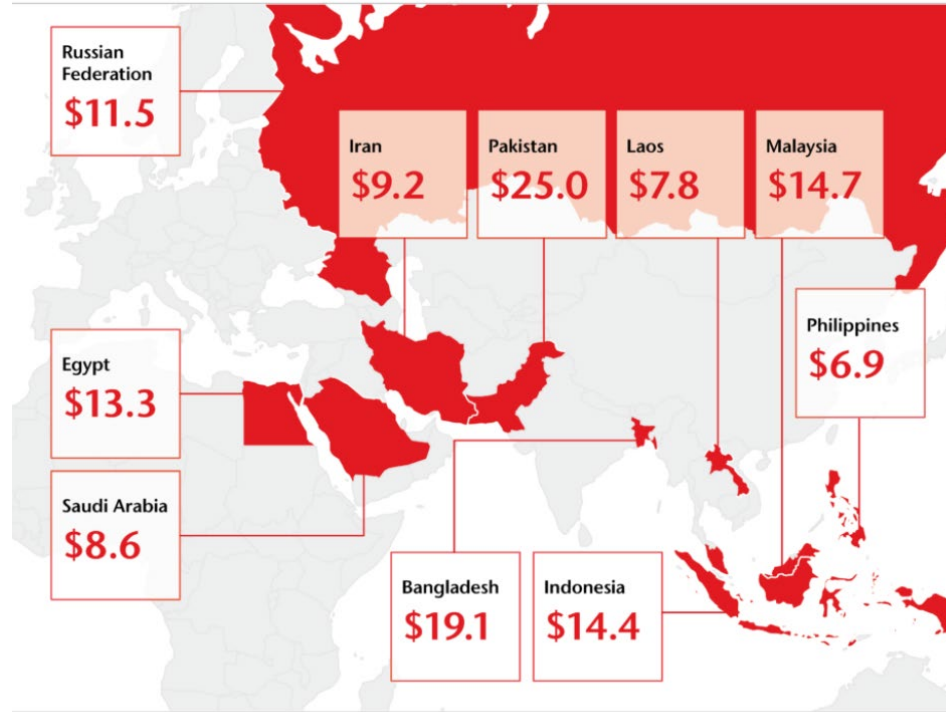
Chinese capital flowing into Belt and Road Initiative projects surged to **a record \$ 20.1 billion in 2017.**



Billion-Dollar BRI Investments

The need for investment in infrastructure varies from country to country, ranging from \$6.9 billion to \$25.0 billion.

Belt and Road investments by country, 2014–17, \$ billion



Sources: RadioFreeEurope, RadioLiberty; Foreign Affairs; China Daily; Business Insider; Republic of the Philippines, Foreign Service Institute, JakartaGlobe; Reuters UK; Knight Frank; World Affairs Journal

Large-scale Infrastructure Investments Along BRI

Many large infrastructure projects are already underway to facilitate the BRI, including dams, ports, bridges and pipelines. The following projects are either planned or have broken ground.



The Myanmar pipeline imports oil into China from the Middle East, avoiding the Strait of Malacca.



Sri Lanka's \$1.4 billion Port City development will connect China to one of the world's busiest maritime trading routes.



This collection of infrastructure projects in Pakistan joins the land and sea routes of BRI.



Investment in the Suez Canal Economic Corridor will improve access to oil from Saudi Arabia.



China's largest foreign industrial park will further integrate the country in Central Asian and European markets.



Spanning from China to England, this railway runs through nine countries and can cross the continent in 18 days.

CHINA BY TRAIN THE LONG, LONG JOURNEY

— China-Europe cargo train route

--- Trans-Siberian Railway



High tech manufacturers in Chengdu, Chongqing and Zhengzhou can now **get their products to Europe in ~15 days** by rail rather than ~45 days by sea.



INSIDE DEVELOPMENT | THE RISE OF CHINESE AID

China's Belt & Road Initiative out-lends MDBs, sees itself as 'global public good'

By *Adva Saldinger* // 23 October 2019

MDB = Multilateral development bank (WorldBank, etc)



CGTN

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PROSPERITY

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1:46 / 2:17





Montenegro fears China-backed highway will put it on road to ruin

Project that has raised country's debt levels shows pitfalls of using Beijing loans



Montenegro's borrowing from China to finance the cost of the road, intended to link the Adriatic port of Bar to Serbia's capital Belgrade, is estimated at €1.3bn © Reuters

Valerie Hopkins in Podgorica and James Kynge in Hong Kong APRIL 10 2019

9

OPORTUNITATS PER A L'EMPRESA CATALANA

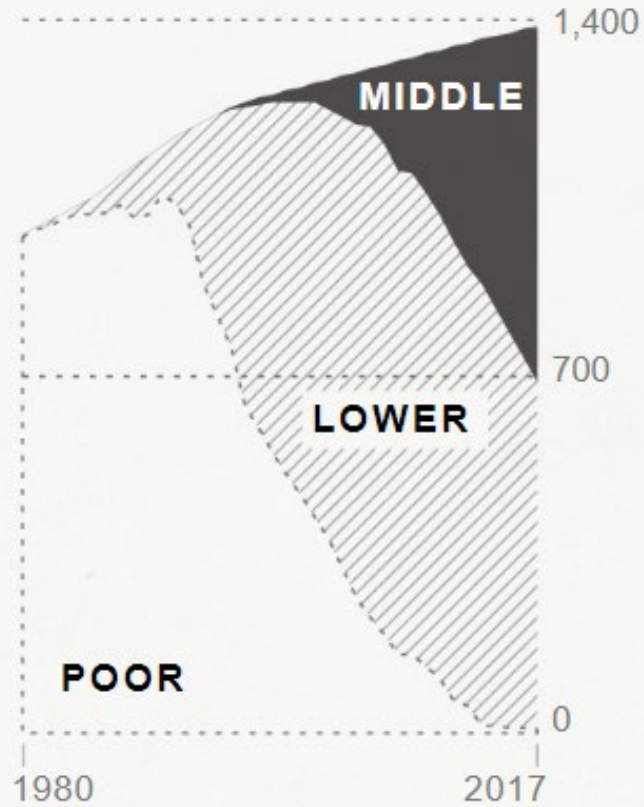
MOLTA, MOLTA GENT







POPULATION IN MILLIONS



AGROALIMENTARI







NÍNXOLS ENORMES



ingrédients:
 Beurre, chocolat noir (sucre, masse de cacao, beurre
 de cacao, poudre de cacao, matières grasses de lait
 (lait de vache), émulsifiant : lécithine de soja,
 poudre de lait entier (lait de vache), vanille
 (arôme), amandes, sel.

Le chocolat noir contient un minimum de 60% de
câpres sèches de cacao.

ingrédients : contient des noix, des dérivés de lait et des produits de soja. Peut contenir des traces de...
...étés. ... endroit frais et sec. Température

ver dans un endroit frais et sec. Température
C) et humidité (50-60%).

...черный шоколад (сахар, тертое какао, сливочное масло, какао-порошок, молочные жиры, сливочное молоко), эмульгаторы: соевый лецитин, сливочное молоко (коровье молоко), ароматизаторы: ваниль, миндаль, соль.

... сухой остаток какао в черном шоколаде –
... менее 60%.

Аллергены: содержит лесные орехи, молочные и соевые продукты. Может содержать следы арахиса.

Хранить в прохладном сухом месте при температуре $(18 \pm 3^\circ \text{C})$ и относительной влажности воздуха 50-60%.

Kakaostrockenmasse, enthält mindestens 60%

Allergene: Enthält Nüsse, Milchderivate
Sesamprodukte. Kann spuren

An einem kühlen, trockenen Ort lagern.

Temperatur (18±3 °C) & Luftfeuchtigkeit (65±5 %).

...fähigkeit (50-60%).

المكونة:
شوكولاتة داكنة، تمر لوز،
شوكولاتة داكنة (سكر)، كتل كاكاو، زبدة كاكاو، مسحوق
سكر حليب (رقري)، مستحلب لبنيين الصويا، مسحوق
سكر حليب، قهقهة طيبيية، لوز، ملح.
(رقري) كامل، الاسم، فانيلا طبيعي، لوز، ملح.
الاسم، قهقهة طيبيية، لوز، ملح.

المركبات الحساسة: يحتوي المنتج على مكسرات ومشروبات
المركبات الحساسة: وقد يحتوي على بقايا من الفول
المركبات الحساسة: وقد يحتوي على بقايا من الفول
المركبات الحساسة: وقد يحتوي على بقايا من الفول

معدن بالمنتج في مكان بار وجاف في درجة حرارة ($18 \pm 3^\circ\text{C}$)
سنة إطوبة (50-60%)

Produced by
La Ronda Emirates L.L.C.
Dubai Investment Park-2
for Notions Group
P.O. Box 37782, Dubai, U.A.E.
Telephone: +9714 8832236
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6 ||291011||053954||



Certified
GF
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The logo is a circular emblem with a green background. It features a stylized white 'V' in the center. The words 'sustainable for' are written in a white, sans-serif font along the top inner curve of the circle, and 'vegetarians' is written along the bottom inner curve.



Recycling symbol and umbrella symbol.

Made in UAE. Dubai صنع في الإمارات العربية المتحدة. دبي

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SALUT

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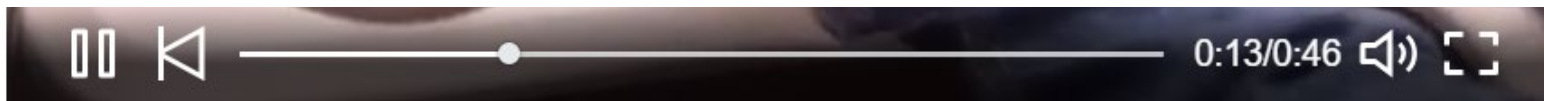
Ping An Good Doctor Has Become the First Online Healthcare Platform with More Than 300 Million Registered Users

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Ping An Healthcare and Technology Company Limited →

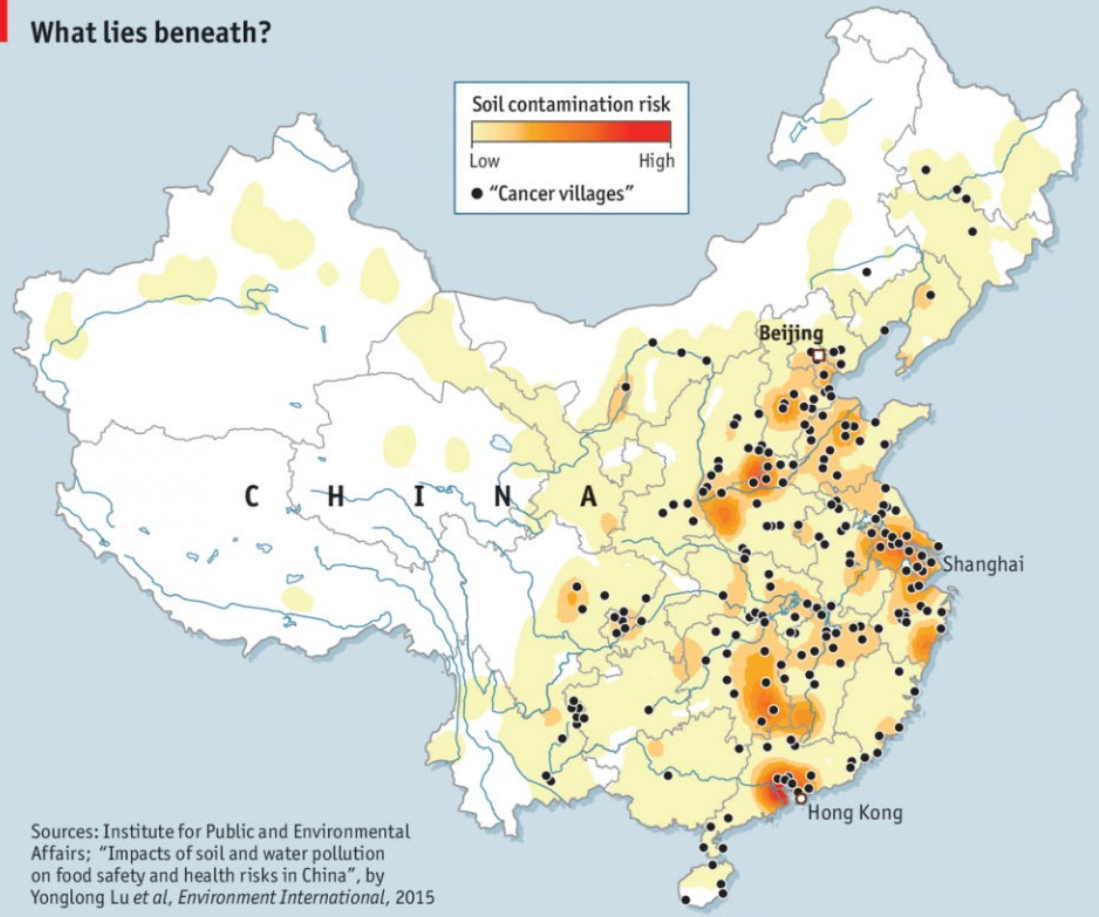
Sep 23, 2019, 02:21 ET

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MEDI AMBIENT

What lies beneath?



EFICIÈNCIA A LES CIUTATS



BENS DE CONSUM



LUXE





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Rings



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目的地 中文/拼音

入住日期 2019-10-27

退房日期 2019-10-28

房间数 1间

住客数 1成人

酒店级别 不限

关键词 (选填)酒店名/地标/商圈

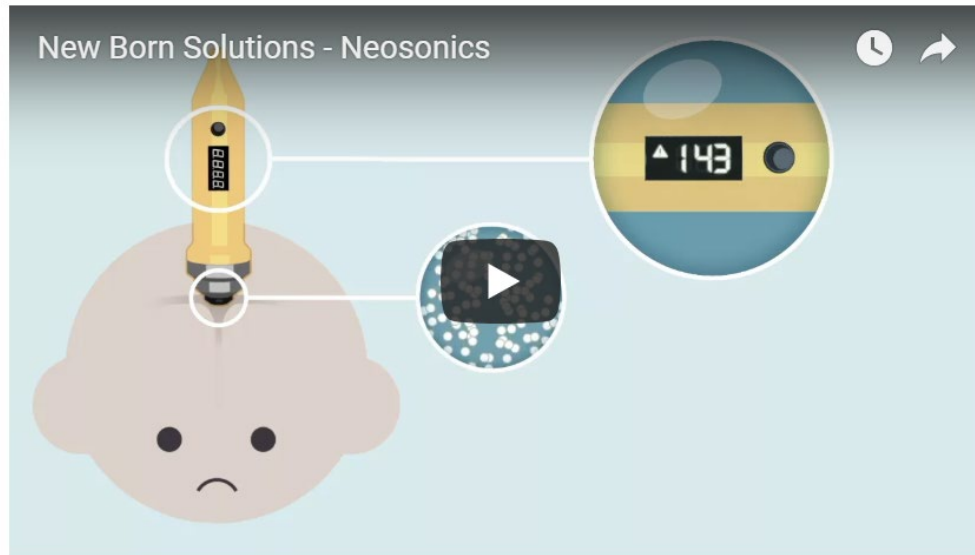
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START-UP

START-UP

SCALE-UP

10

RECOMANACIONS

"Business in China presents incredible opportunities, but it doesn't come without risk"

- Matt Slater, Founder & CEO

**INCOPORAR XINA
A L'AGENDA DE LES EMPRESES**

**EXPLORAR LA XINA
COM A PLATAFORMA
PER ESCALAR LA CIÈNCIA
I TECNOLOGIA APLICADA**



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ESDEVENIR

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