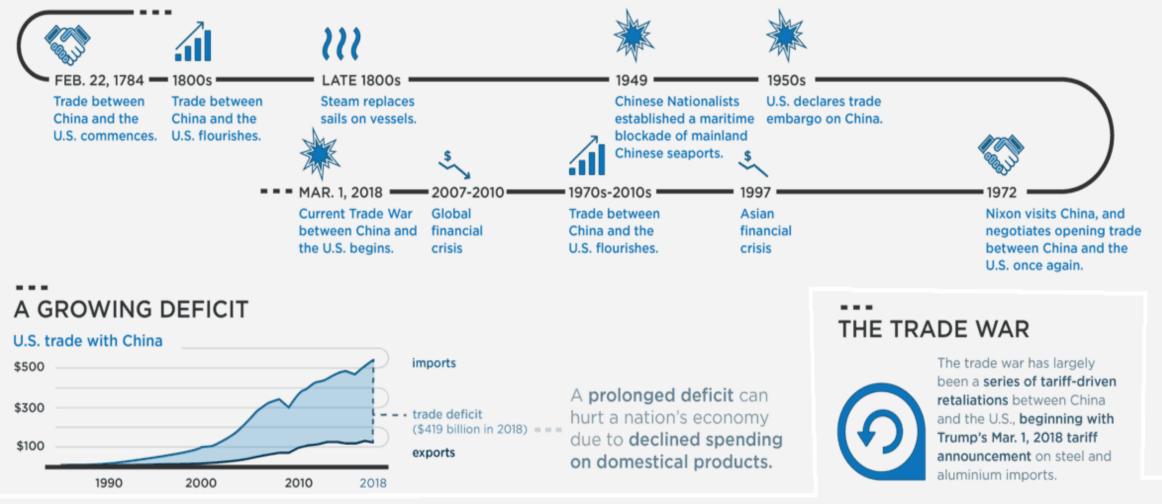
Export Enforcement and National Security

Trade School Pete Mento Mento LLC Friday October 9th, 2020

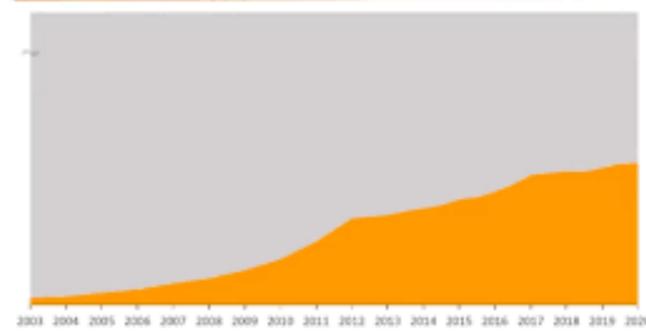


US-CHINA TRADE TIMELINE

The U.S. and China have long been trade partners, but when did it all go sour?



FBI Technology Theft Cases Involving China



00 billion Estimated losses in the United States due to intellectual property theft.

S1.7 trillior Estimated global value of counterfeit and pirated products by 2015.

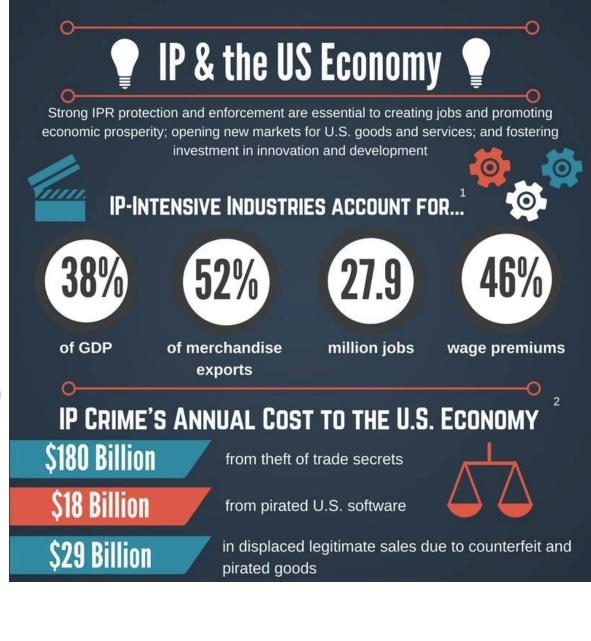


\$5,000,000,000,000

is the total estimated worth of intellectual property in the United States*

*According to the 2013 IP Commission Report

Who does intellectual property theft impact?



PRC's Tools For Acquiring Technology



- Intelligence Services
- Non-Traditional Collectors
- S&T Investments
- Talent Recruitment Programs
- Academic Collaboration
- Research Partnerships
- Joint Ventures
- Front Companies
- Mergers & Acquisitions
- Legal and Regulatory

Systematic, Expansive and Well Funded

 "They've pioneered an expansive approach to stealing innovation through a wide range of actors, including not just Chinese intelligence services but state-owned enterprises, ostensibly private companies, certain kinds of graduate students and researchers, and a whole variety of other actors all working on their behalf." – FBI Director Christopher Wray

Thousand Talents Plan

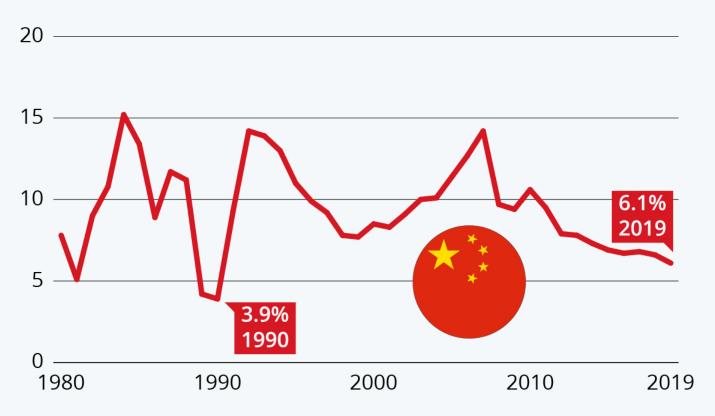
- One of the most prominent Chinese Talent recruit plans that is designed to attract, recruit, and cultivate high-level scientific talent in furtherance of China's scientific development, economic prosperity and national security.
- These talent programs seek to lure Chinese overseas talent and foreign experts to bring their knowledge and experience to China and reward individuals for stealing proprietary information."

PROGRAM OF GLOBAL EXPERTS

"CHINESE TALENT PROGRAM"

China Posts Weakest Economic Growth Since 1990

China's real GDP growth since 1980 (in %)



statista 🌠

Source: National Bureau of Statistics of China

Made in China 2025

The 4 advantages





GRAPHIC BY ZHANG RUIQI/PEOPLE'S DAILY ONLINE

What's up?

China's super-cities are borrowing like mad to build highways, airports to record-breaking skycrapers

Its shadow banking system, in which banks and finance companies extend loans at high interest rates outside regulation is a big cause of worry

11.9

Soume: Bloombeer

Dec 109

14

12

While its central bank is looking to curb debt binge, the govt is forcing easing of credit to keep GDP growing north of 7%

YoY in 96

7.8

China's GDP growth

China debt crash may be the next global crisis

For legendary investor George Soros, the main risk facing the world isn't the euro, or a Japanese asset bubble, but a Chinese debt disaster that's unfolding in plain sight

The magnitude 17.9 trillion yuan.

or \$2.96 trillion – Borrowings by provinces, counties and townships has reached

63% growth of local debt since 2010, much faster than

40% growth of

the economy

69% share of shadow banking of China's 2012 GDP, estimated by JPMorgan

57% of local government debt comes from bank loans, rest from bonds and shadow banking network

How it can go from "Bad to Dead."

- Lack of management commitment
- Inadequate internal investigations
- Inaccurate, incomplete, or misleading reporting to enforcement authorities
- Failure to promptly implement or improve compliance procedures and other remedial actions, including wind down activities
- Concealment, circumvention or other willful conduct
- New violations during the investigation



Penalties for US Export Violations

Criminal Sanctions

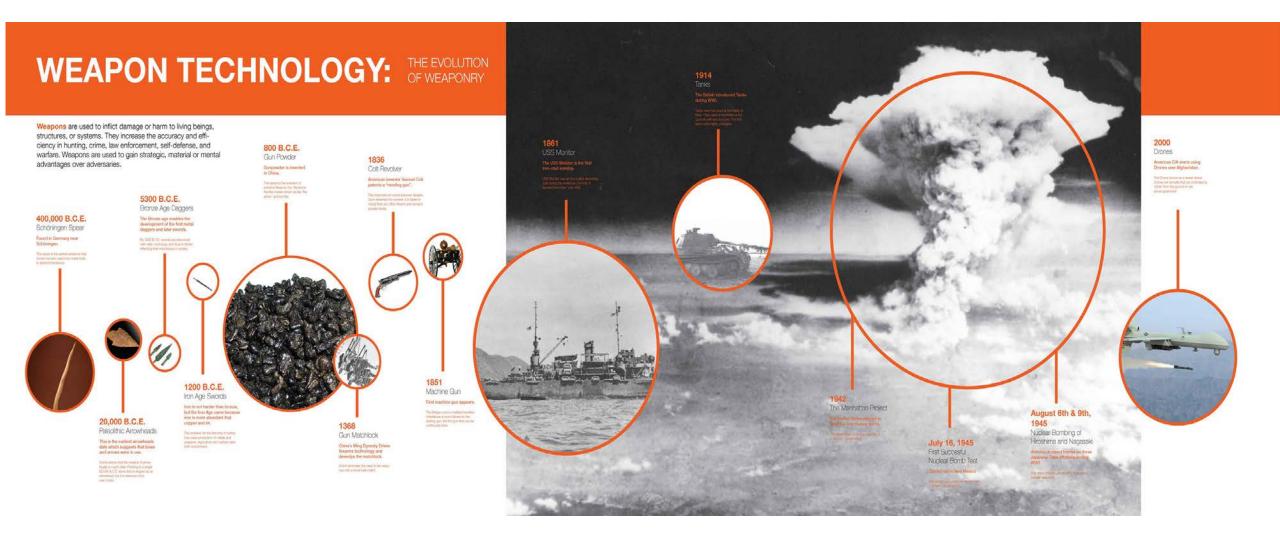
	EAR	ITAR	OFAC	
Organization	Up to \$1 Million	Up to \$1 Million	Up to \$1 Million	
Individual (PI)	Up to \$250,000 and/or up to 10 years in prison	Up to \$1 Million and/or up to 10 years in prison	Up to \$100,000 per violation and/or up to 10 years in prison	

Civil Sanctions

	EAR	ITAR	OFAC
Oganization	Up to \$12,000 per violation	Up to \$500,000 per violation	Up to \$55,000 per violation
Individual (PI)	Up to \$12,000 per violation	Up to \$500,000 per violation	Up to \$55,000 per violation

National Security Is the New Trigger

- Temp.Periscope has been blamed for cyberattacks that have resulted in the compromise of sensitive material related to military technology, including plans to construct a new supersonic anti-ship missile to be deployed by American submarines.
- Spending billions of dollars to develop and field new defense technologies, only to have their effectiveness compromised by a data breach, can be costly for developers and for taxpayers.
- More importantly, it can endanger U.S. service members who rely on that technological advantage to accomplish their missions safely.



HOW ARE BIOLOGICAL WEAPONS DEVELOPED & TESTED?

CHOOSE AN AGENT	Factors considered in choosing an agent include: Pathogenicity (amount required to cause disease); Virulence (disease severity); Incubation (amount of time to cause harm after exposure); Lethality (how deadly the agent is); Transmissibility (how the disease spreads); and Countermeasures (treatments or cures).
	Agents could be purchased from a microbiological laboratory or bank, or isolated from natural sources such as animals, soil, or water. Agents could also be acquired through scientists or technicians working in other BW programs, or created from scratch by altering an existing pathogen's genetic code.
3 ACQUIRE A PRODUCTION METHOD	The production method produces small quantities that could later be scaled up for mass production. The choice of method would depend on the agent, how it would be used and the quantity necessary. Most agents would require nutrients to grow, many of which are widely available due to use in commercial industries.
4 STABILIZE THE AGENT	Biological agents break down over time and eventually die. Stabilization slows an agent's metabolism so they can be stockpiled. Some agents can naturally slow their metabolism by forming spores, and scientists can emulate this process in others through microencapsulation, applying a layer of protective coating.
5 CONCENTRATE THE	Concentrating the agent makes it lethal in small doses. This can be done through vacuum filtration, ultrafiltration, precipitation, and centrifugation.
6 CHOOSE A DELIVERY METHOD	Aerosols, tiny particles that can be suspended in the air and inhaled, are the best method for infecting a person with a biological agent. Some diseases are usually carried by vectors like ticks. But these diseases are often more virulent and easier to disseminate when they are aerosolized.
7 FIELD TESTING	Field testing can be done in a laboratory, through open-air tests in controlled environments, or on animals. There are also rare cases of countries using humans to test agents, such as Japan using prisoners as test agents during WWII, and the U.S. testing tularemia and Q fever on human volunteers from 1954-1973.
8 MASS PRODUCTION	Depending on the agent, large quantities may be needed to carry out a successful attack. Devices such as bioreactors or fermenters can grow cells on a large scale. Environmental conditions inside these devices, such as temperature, pH, and the presence of gases, must be carefully controlled to keep the cells alive.
9 STOCKPILE AND MOBILIZE WEAPONS	Once stabilized and loaded into a delivery system, the weapons can be stockpiled. Even stabilized biological agents will decay over time, so stockpiles do not last indefinitely.



INCLUDING ENGINEERS, COMPUTING, AI EXPERTS AND ROBOTICISTS IN 37 COUNTRIES HAVE CALLED FOR A BAN ON THE DEVELOPMENT AND DEPLOYMENT OF FULLY AUTONOMOUS WEAPONS.

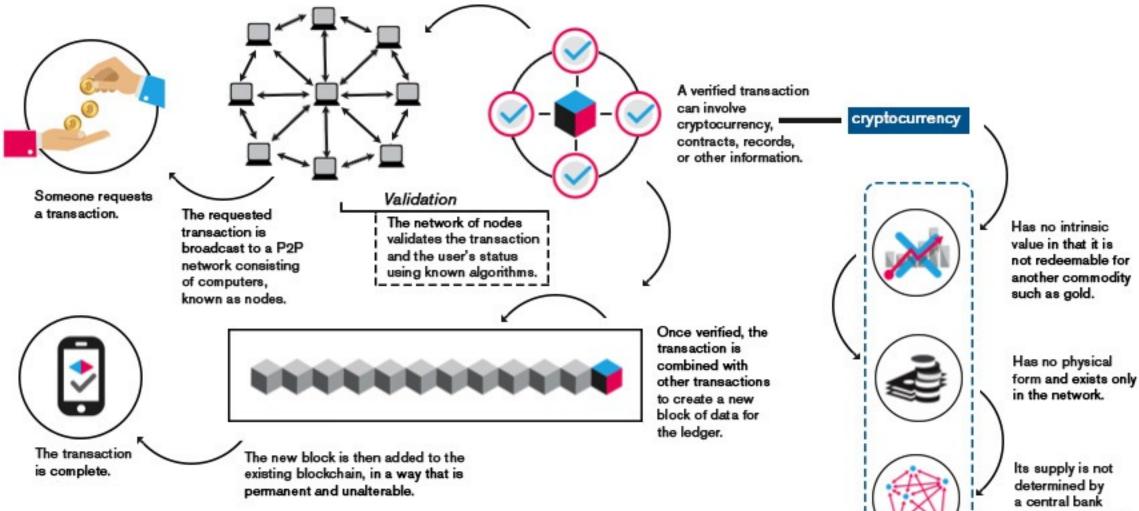




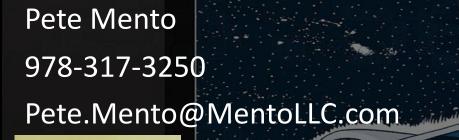
ARE KNOWN TO BE RESEARCHING, DEVELOPING AND TESTING FULLY AUTONOMOUS WEAPONS: THE US, THE UK, CHINA, ISRAEL, RUSSIA AND SOUTH KOREA.

44 STATES

HAVE SPOKEN PUBLICLY ON FULLY AUTONOMOUS WEAPONS SINCE THE HUMAN RIGHTS COUNCIL DEBATE ON 30 MAY 2013.



determined by a central bank and the network is completely decentralized.



Adam With a Million of State



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With Your Host Pete Mento