

Digitally Reimagine Sea Power









Not an allied warship

Allied warship





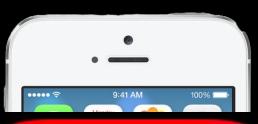
- 1. Everything is *digital* in the 21st century
- 2. Including states' Sea Power
 - Naval power snow a matter digital kill chains
 - Seagoing character of its people (digital natives)
 - Commercial maritime interest in a digital economy
- 3. We are behind in realizing all of this...



Apple (\$3 Trillion) Italy Brazil Canada "Software is eating Bussia world." Google Marc Andreesen, 2011 4 Tech amazon Mex \$10 Trillon The rest of **Microsoft**[®] the S&P 500















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Compute Software **Operations per Second**

Networks **Operations per Second**



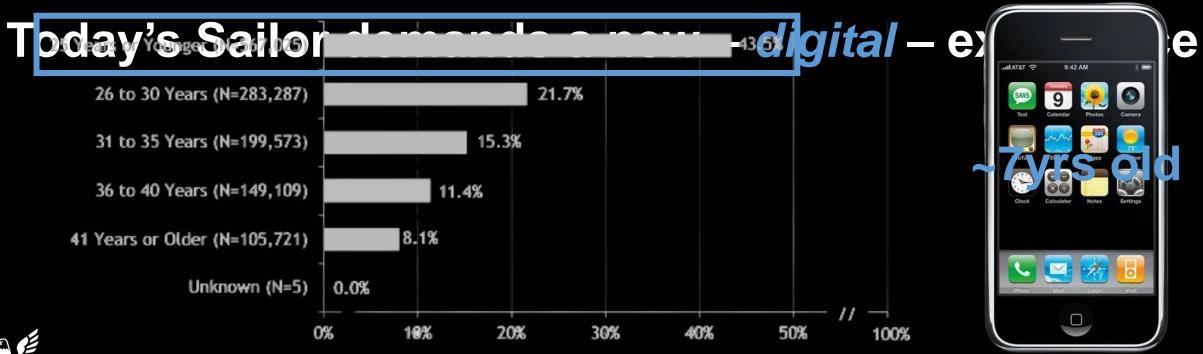




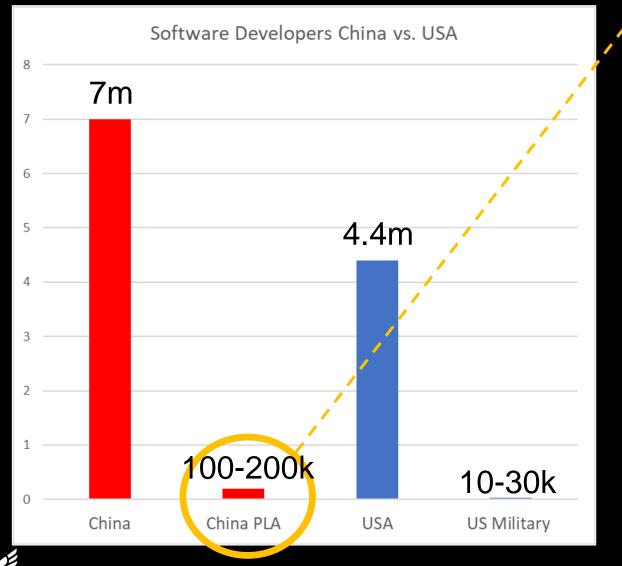
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digital Because they are digital natives



Leveraging digital talent is a national security imperative



PLA Support Force (SSF)

5th PLA Branch (Ground, Navy, Air, Rocket (*Nuke*)), Established in 2015

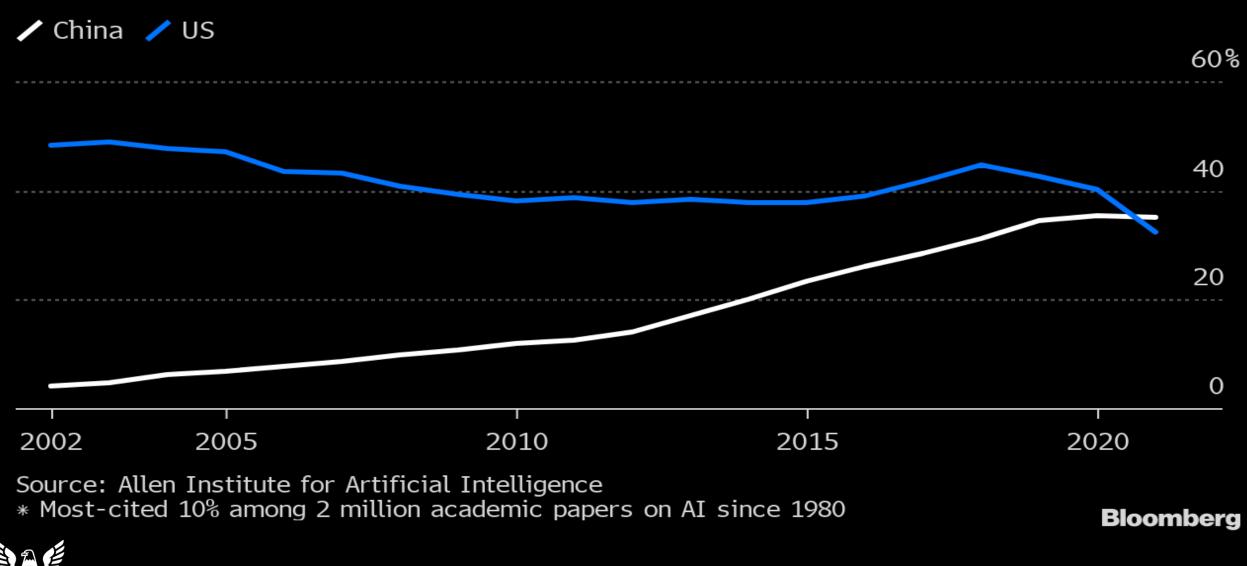
Rapidly develop & integrate digital tech

Cyber Electronic Warfare Software / Data Al/ML And more

Internal Operational Modernization: develop new applications and tools to improve efficiency, effectiveness, and responsiveness of SSF and other military branches.

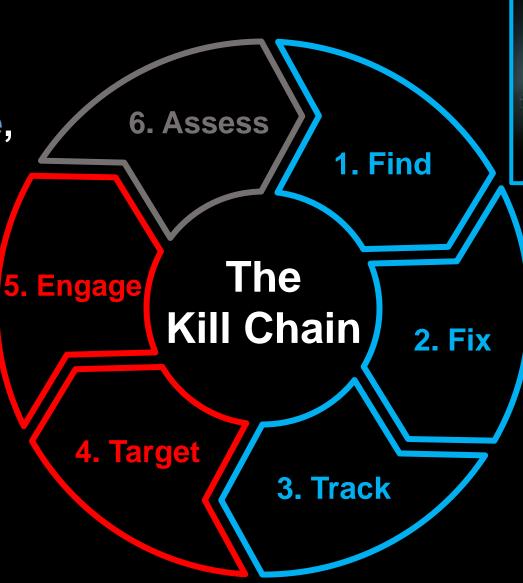
Source: Official PRC and U.S. gov reporting (various)

Brain War China overtakes the US in global share of high-impact AI papers



The Kill Chain, and by extension our tactics, are now defined by software, networks, and computing power.











Over-the-air software + Al updates

Q	Sections	DefenseNews	Air Warfare Land	Naval Space	Cyber C4ISR	Pentagon Cong	ress Globa
		Featured:	<u>Coverage: Modern I</u>	<u>Day Marine</u> > <u>N</u>	Vebcast: Installat	ion Modernization	Whitepa

Naval

US Navy making Aegis updates, training changes based on Houthi attacks

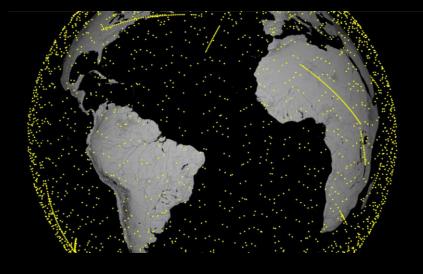
By <u>Megan Eckstein</u>

苗 Thursday, Mar 21, 2024

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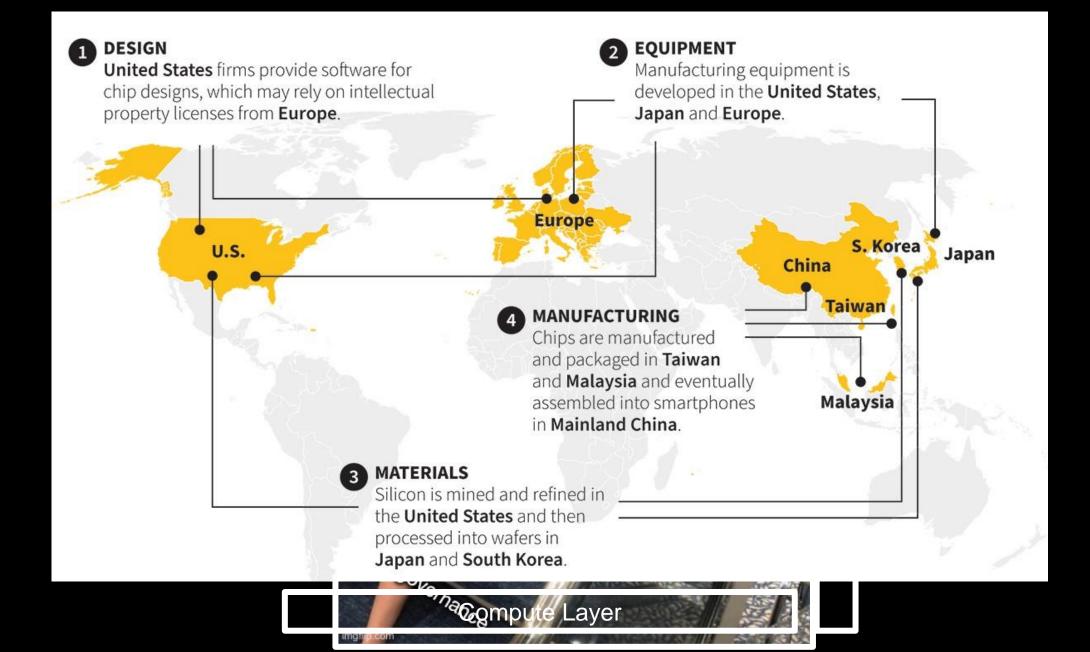


proliferated Low Earth Orbit (pLEO) Satellites for internet at sea











Source: Boston Consulting Group (via Reuters)



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Palau

Inate

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Pacang

Palemban



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Warships will be floating super computers

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What should you do?

- 1. Close the commercial-defense digital gap
- 2. Leverage a new generation of digital talent
- 3. Create digital kill chains to maximize naval power
- 4. Build resilient digital supply chains

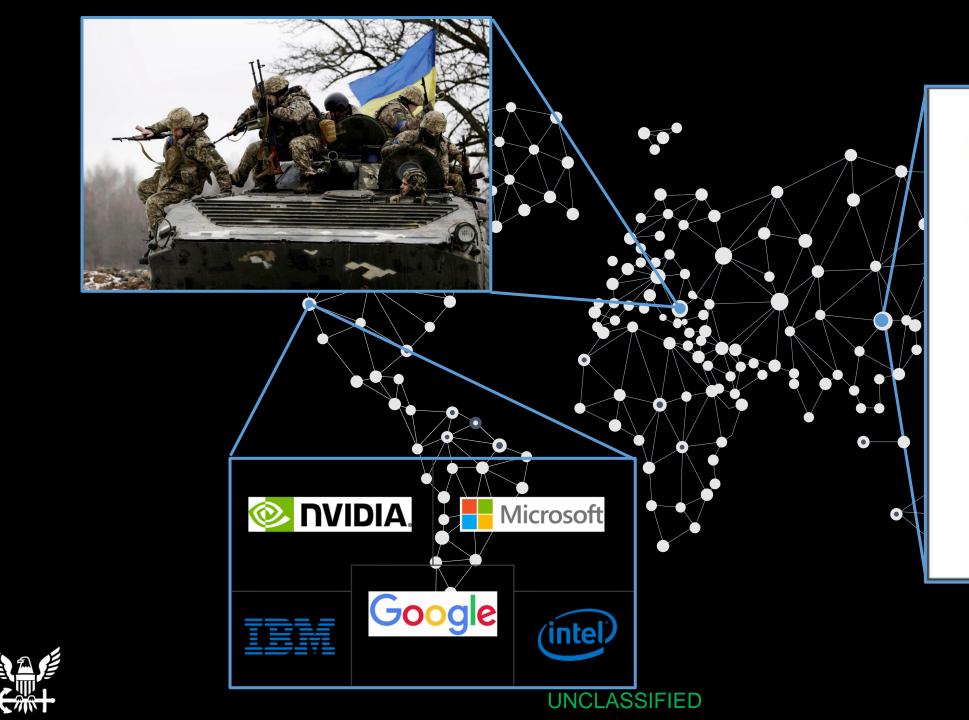


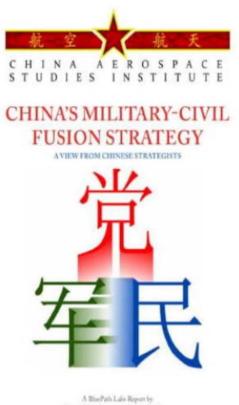
The most damaging phrase in the language is "It's always been that way."

- Rear Admiral Grace Hopper









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thank you

LT Artem Sherbinin Chief Technology Officer, Task Force Hopper U.S. Naval Surface Forces