

Fortifying America's Manufacturing Base: The Reindustrialization Imperative

Jon Quick
CEO, Launchpad



Manufacturing is
THE driver of
US success

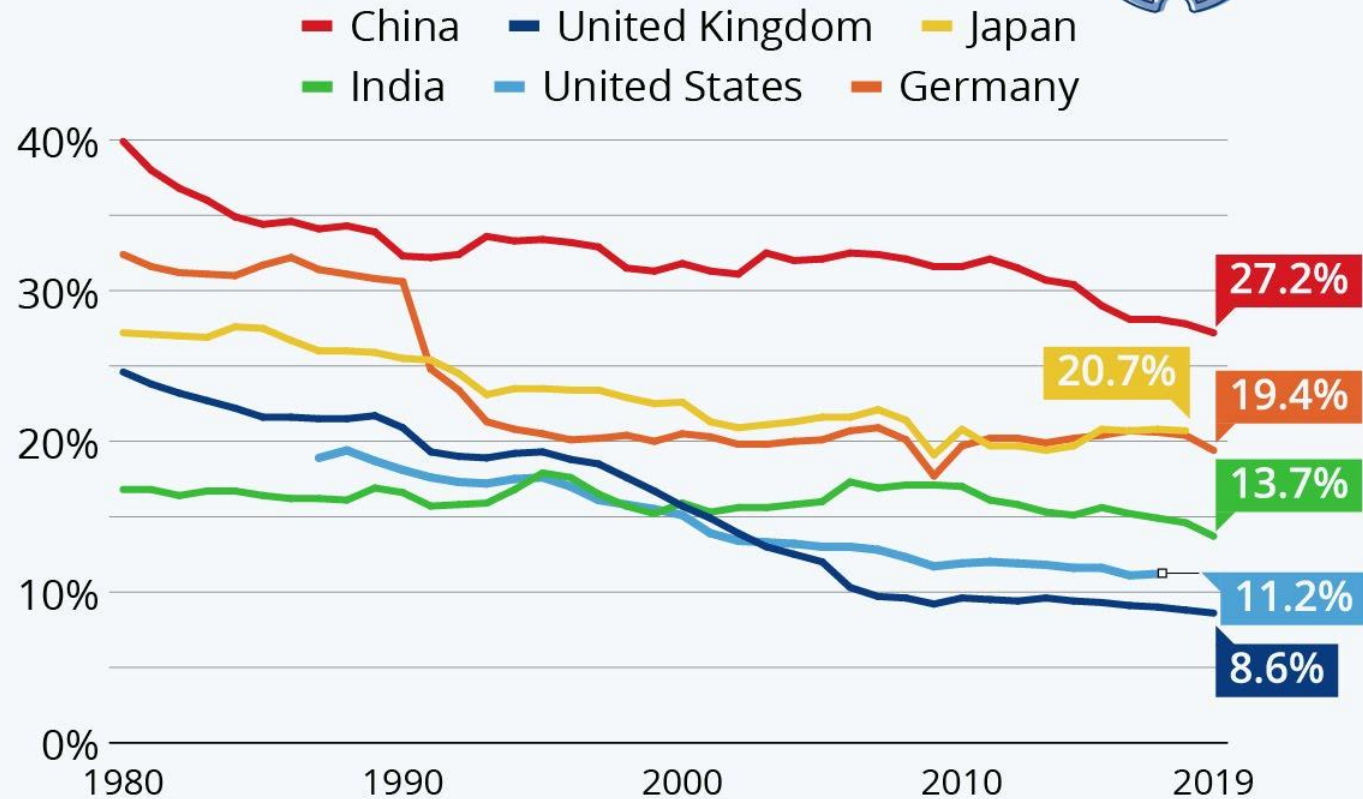


But then...



The Global Decline of Manufacturing

Manufacturing value added as a percentage of GDP in selected countries (1980-2019)

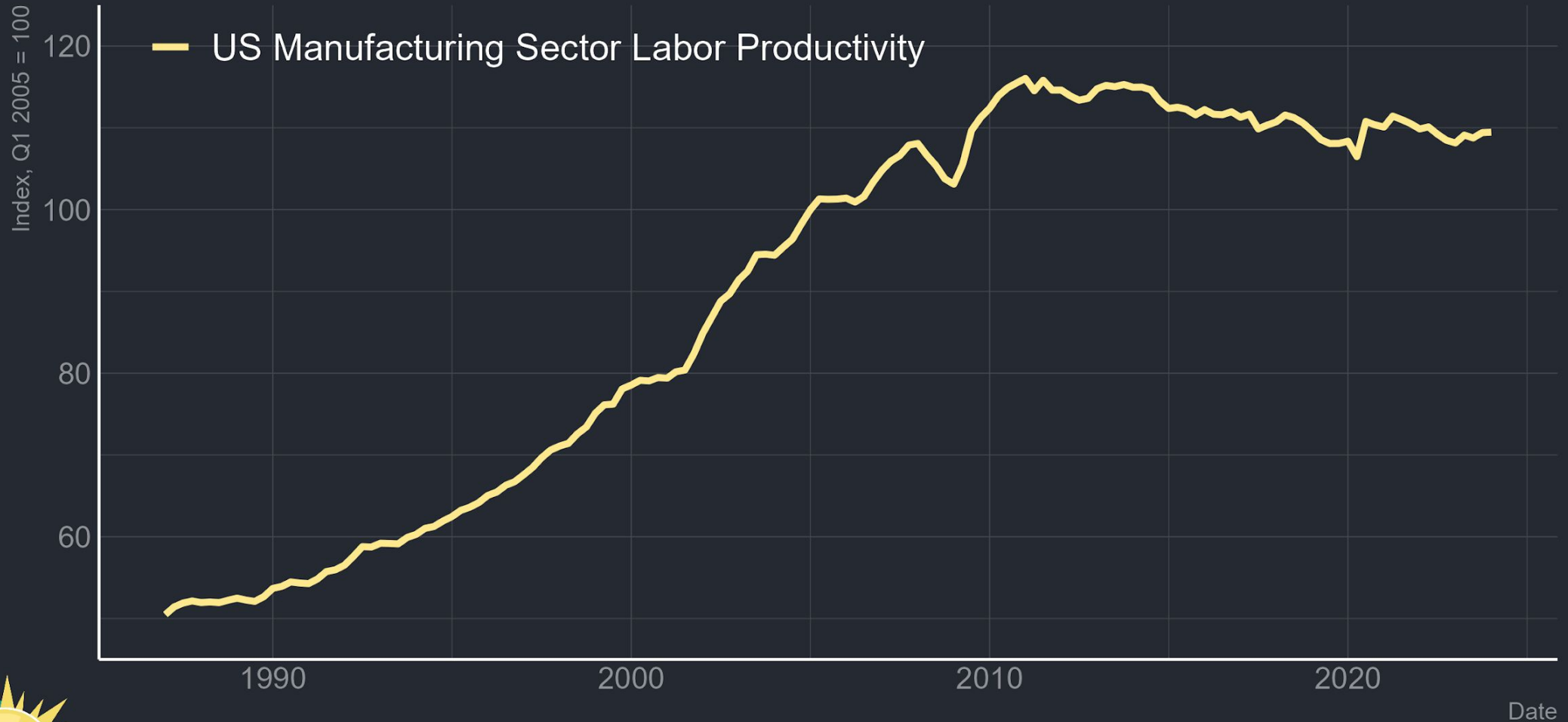


Sources: United Nations and World Bank



US Manufacturing's Productivity Problem

American Manufacturing Productivity Remains Stuck at Pre-Great Recession Levels

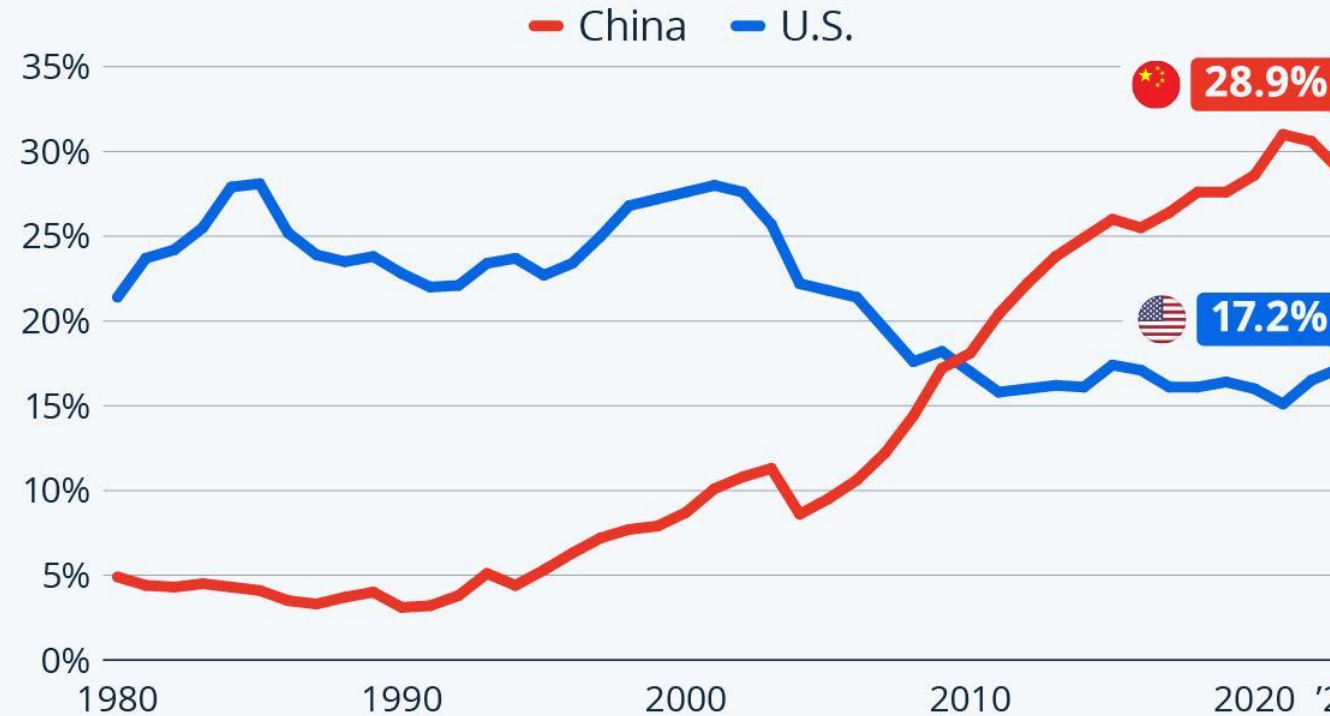


China: Enter the Dragon...

Made in China vs. Made in America



China's and the United States' share of global manufacturing output*



* Output measured on a value-added basis in current U.S. dollars.
Prior to 2004, Chinese data includes mining and utilities.

Source: United Nations Statistics Division



MINERAL LEADING PRODUCER

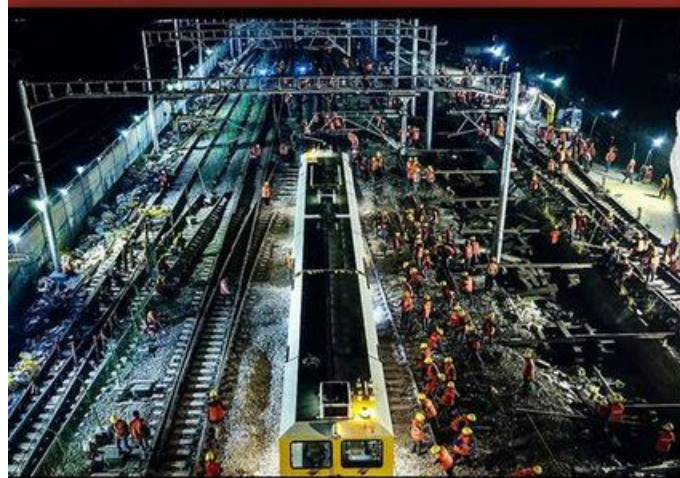
SHARE OF GLOBAL PRODUCTION (%)



CHINA'S GRIP ON CRITICAL MINERALS



China



9 hours to rebuild
a railway station



28 hours to con-
struct a 10-storey
apartment block



10 days to build
a mobile cabin
hospital



USA



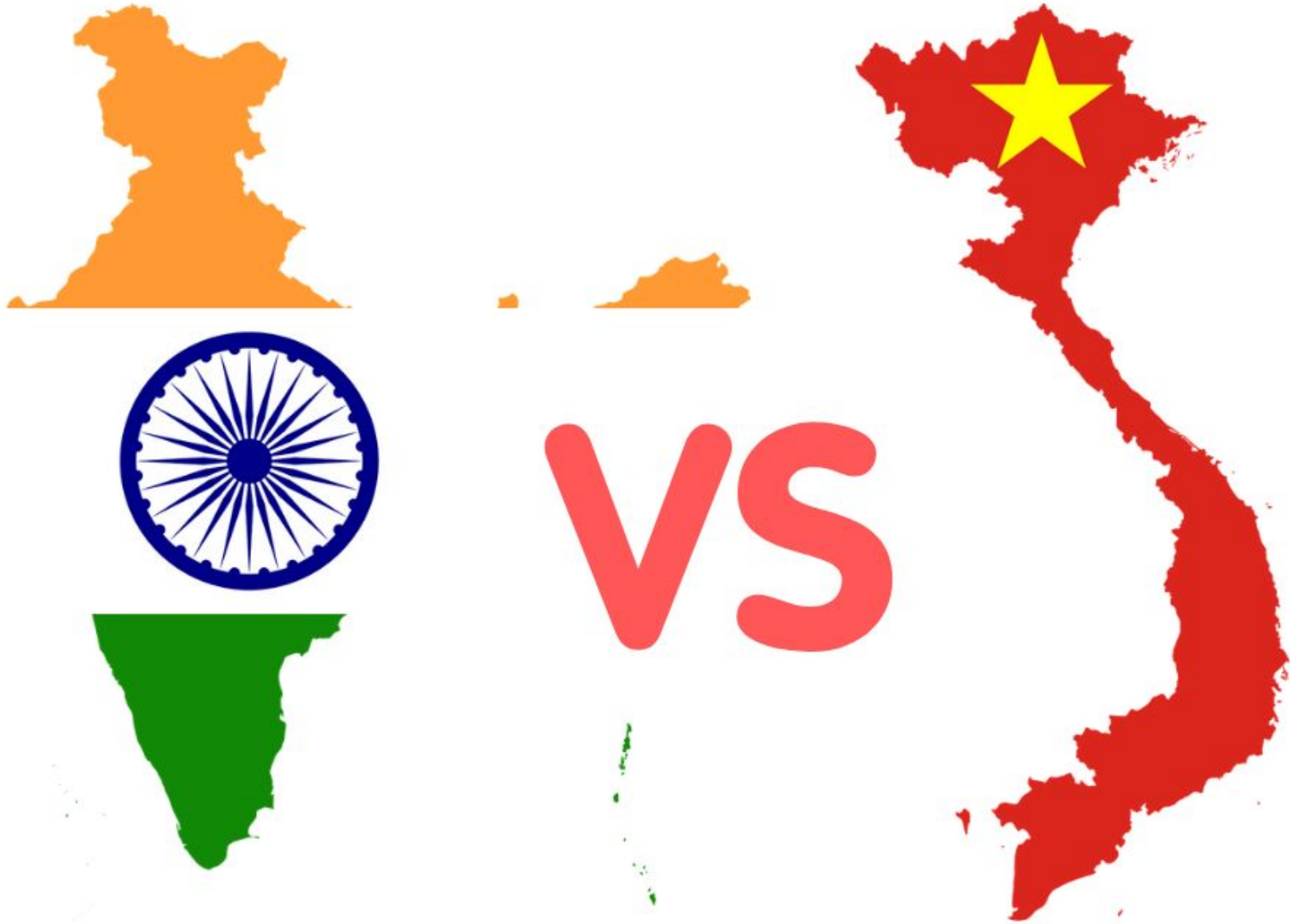
20 years to
rebuild a bridge



16 years to build
a tunnel



3 years to build
a 14 m² public
toilet, which costs
\$1.7m taxpayers'
money



**But the China model
has a...**



**What is the average lifespan of a drone in Ukraine?
(# of flights + total days)**



Innovation windows shrink and that's coming to hardware

Science girl  @sciencegirl Subscribe  

A 17 year old built a mind controlled prosthetic arm for just \$300 using AI, affordable materials, and 23,000 lines of code.

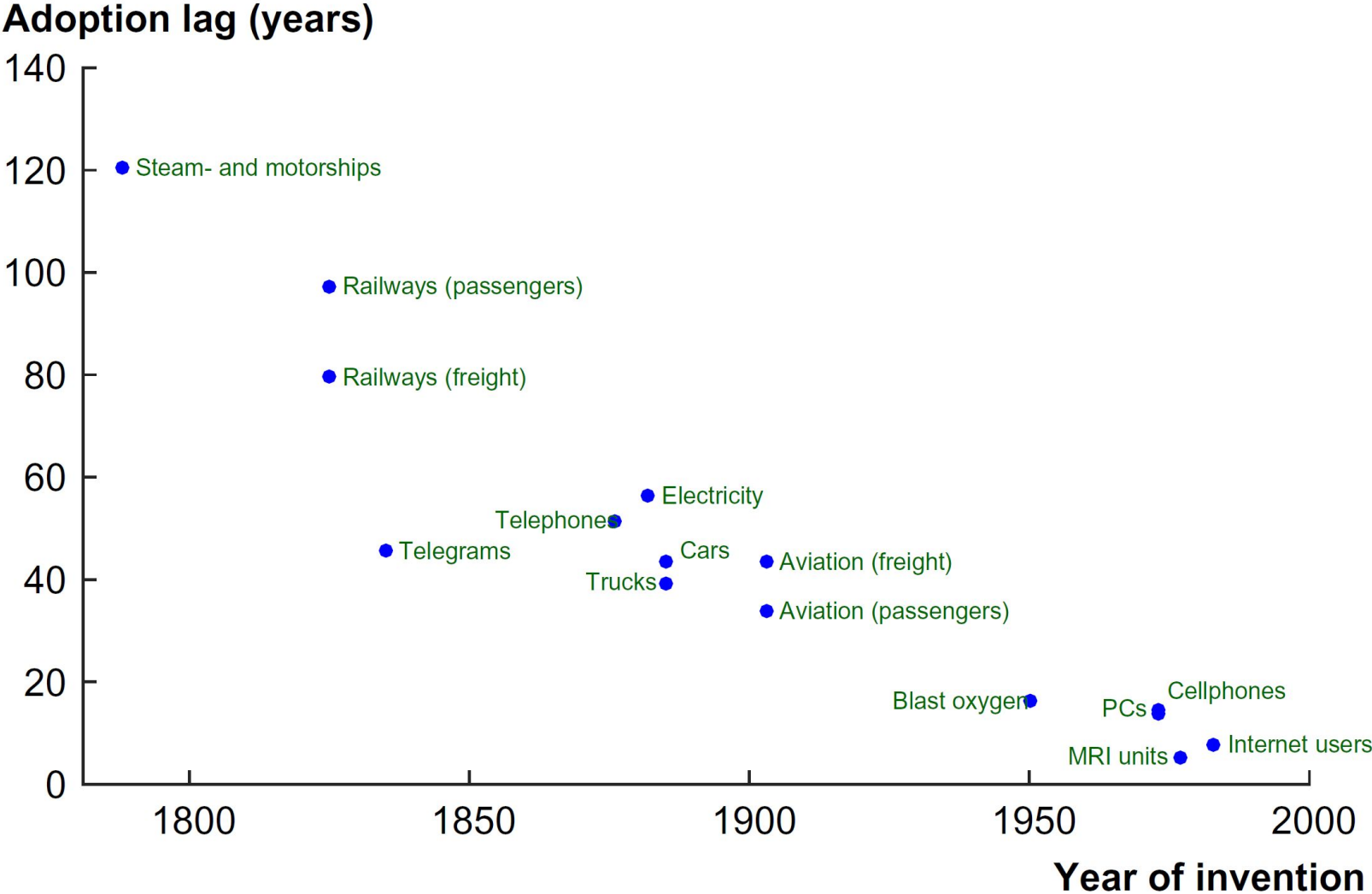


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From **ViralRush**  

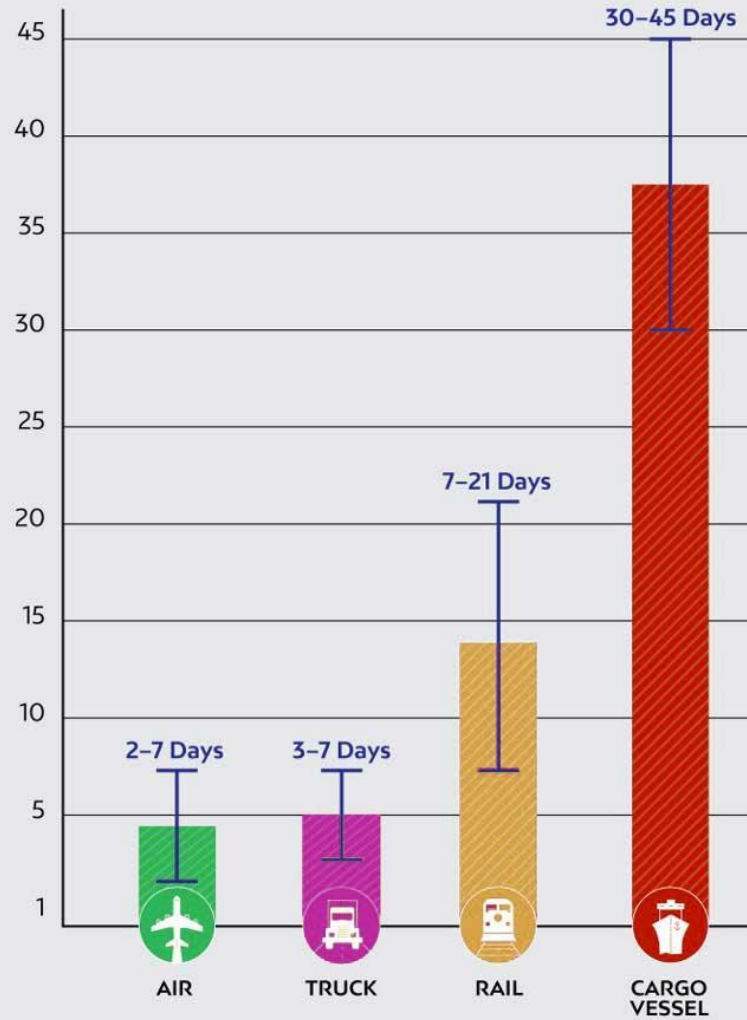
11:53 PM · Dec 1, 2025 · **3,864** Views

Not an
accident



How Long Does Freight Shipping Take?

AVERAGE TRANSIT TIME (IN DAYS)



DISCLAIMER: The information provided in this infographic is based on general estimates only.

> URN
Entire Battlestar has lost pos
just before contact with the enemy
Vortex message.

FULL SYSTEM MALFUNCTION

05/1237Z malfunction

30 DEG 16 MIN W malfunction

700 MB 2695 M malfunction

905/1237Z malfunction

30 DEG 16 MIN W malfunction

1590 MB 2695 M malfunction

85 KT san-eft893||32volys-

050Deg 78 KT 063 Deg 32 Nm

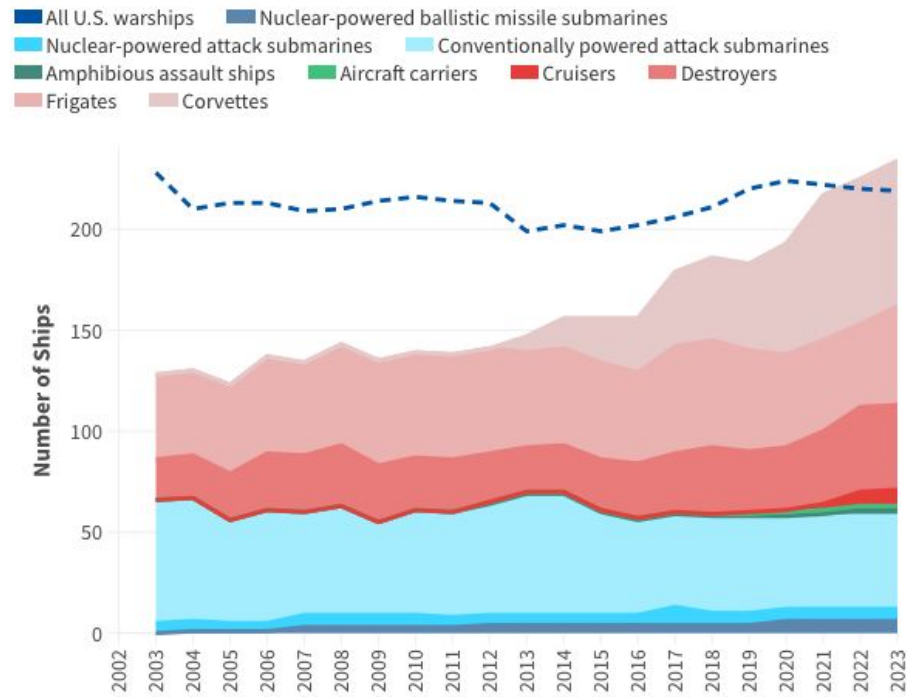
Open wall-malfunction



- ▶ The Lionel toy train company started producing items for warships, including compasses.
- ▶ Ford Motor Company produced B-24 Liberator bombers.
- ▶ Alcoa, the aluminum company, produced airplanes.
- ▶ The Mattatuck Manufacturing Company, which had made upholstery nails, switched to making cartridge clips for Springfield rifles.
- ▶ By the end of World War II, half of the world's wartime industrial production was in the United States.

China Has the World's Largest Navy

Active Chinese Warships by Type



Source: International Institute for Strategic Studies, *The Military Balance*, 2004-2024 editions.

CSIS | TRANSNATIONAL THREATS PROJECT



New rules mean ships can be used by military

By Zhao Lei (China Daily)

Updated: 2015-06-18 07:42

The country has approved a set of technical guidelines that require all civilian shipbuilders to ensure that their new vessels are suitable for military use in an emergency, the China Classification Society has revealed.

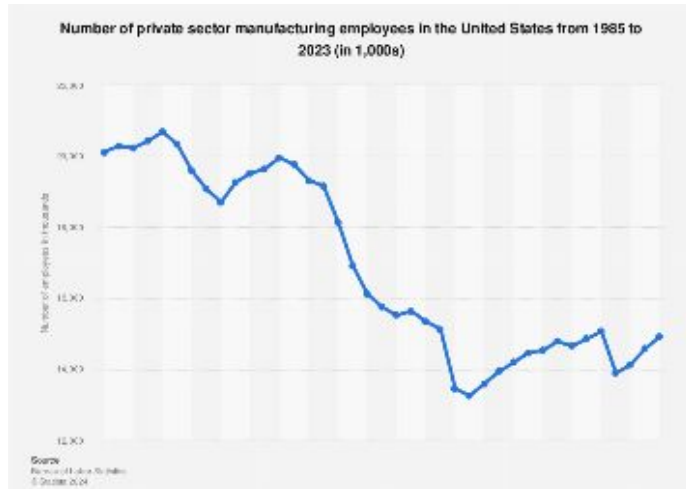
The Technical Standards for New Civilian Ships to Implement National Defense Requirements cover five categories of vessels - container, roll-on/roll-off, multipurpose, bulk carrier and break bulk. They establish specifications and design requirements that will mean vessels can serve national defense needs if they are mobilized, the society said in a statement.



**How the US can have
manufacturing that is:
fast, safe, and flexible**



Manufacturing is USAs Most Critical Problem




2.1m
 Manufacturing jobs could go unfulfilled by 2030.

 **Julian Fried**  @JulianFried · 20h  

US manufacturing wages are 3x the global average. If we want to reshore without inflation the bar is extremely high for labor productivity. We need world class levels automation.

 56  54  639  38K  

11:04   

← Post  

 **S.L. Kanthan**  @Kanthan2030 

This is the next-generation factory of Tesla's #1 competitor — BYD.

Automation, robots, IoT, AI... this is how the Fourth Industrial Revolution is pushing China to dominance in EV.

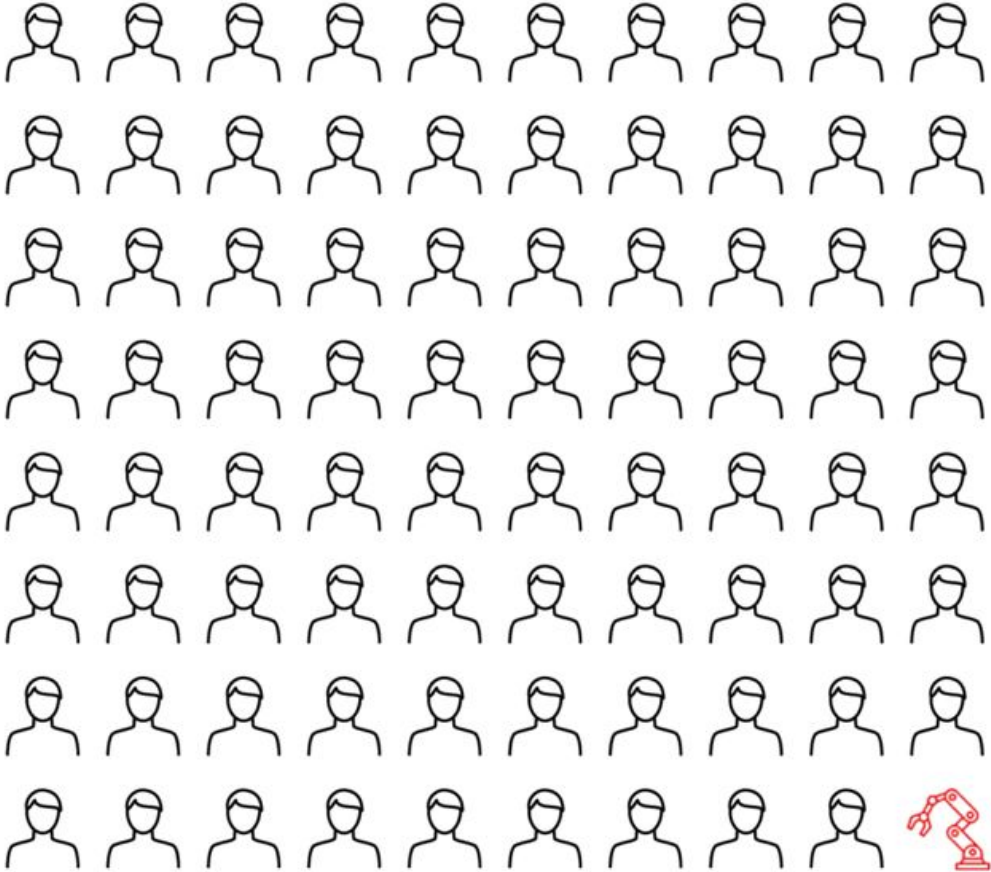
USA needs to upgrade its manufacturing. No amount of tariffs can protect outdated technology.



0:15 

12:44 · 3/20/25 · 102K Views

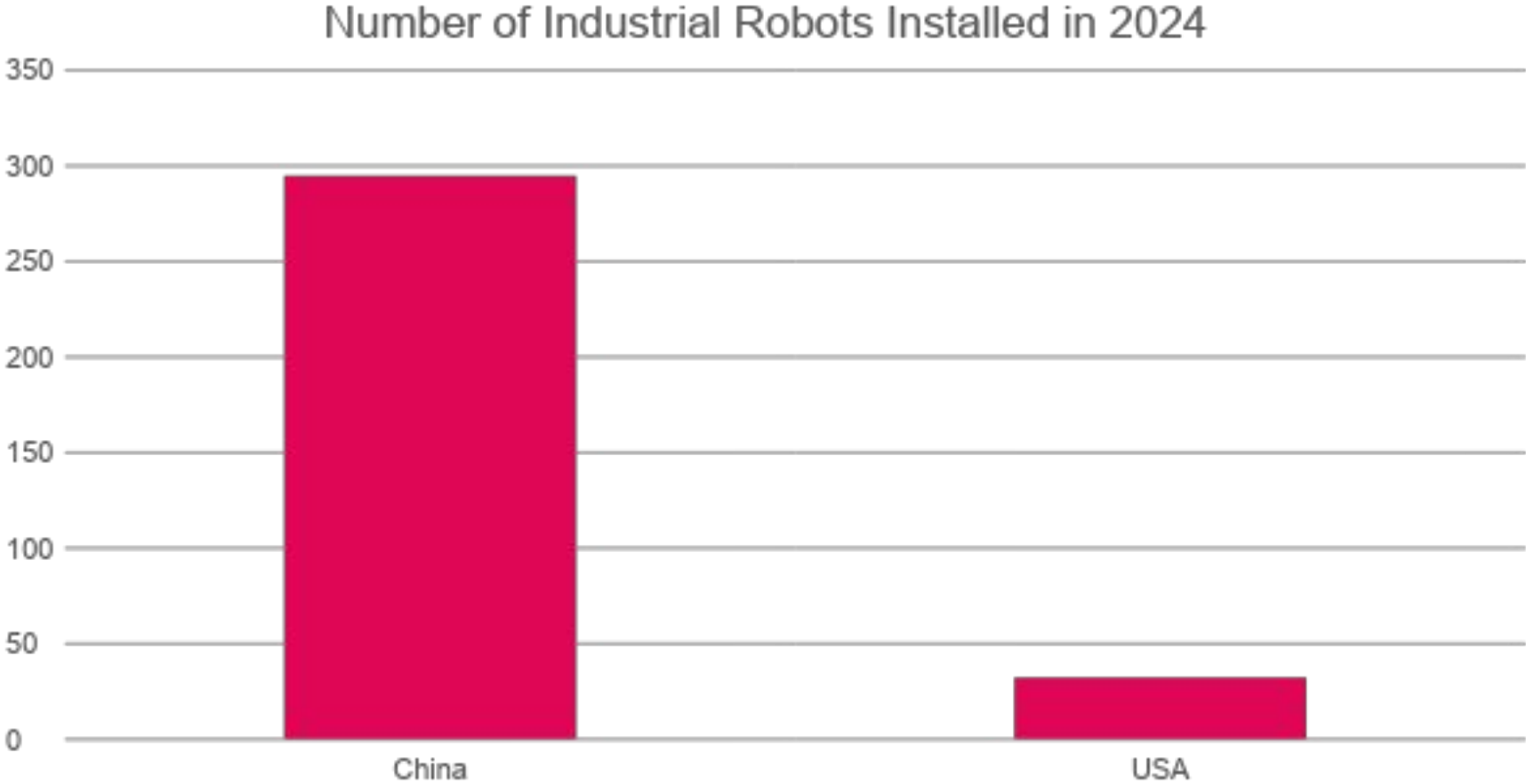
Global employment in manufacturing

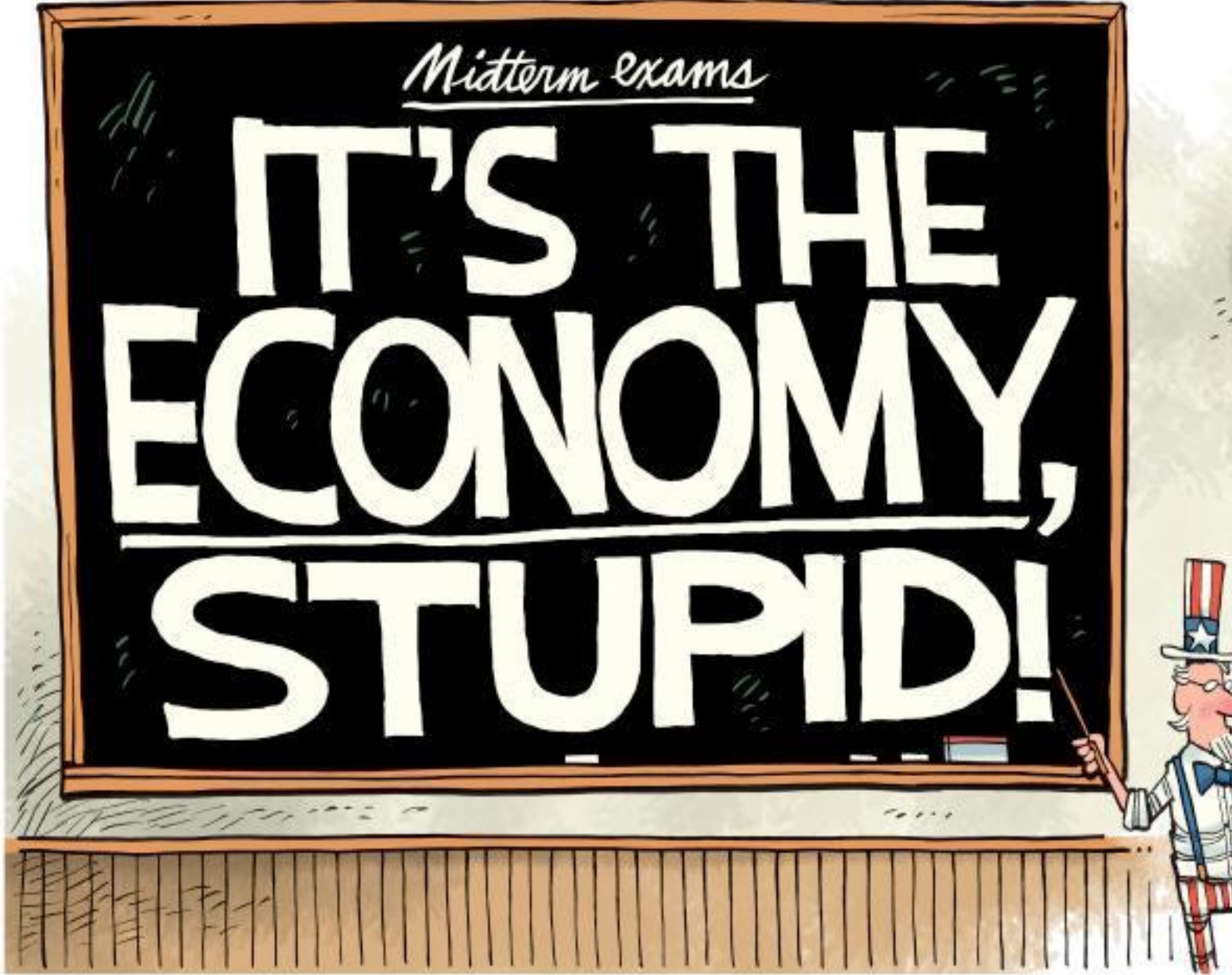


■ Humans

■ Robots

With the existing base not evenly distributed



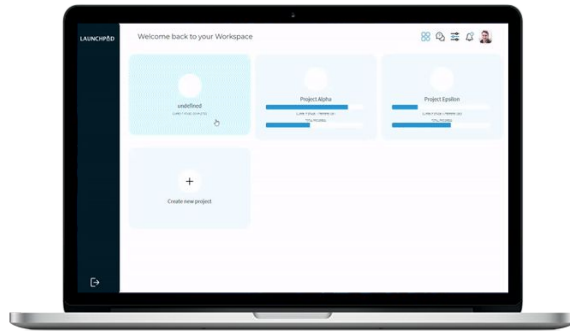


Robots aren't great at everything...



From AI to execution

Use AI to design the workflow



Assembly robots to execute it



Launchpad.build

Proprietary AI-driven simulation Instantaneous delivers quotes and procures parts

Understands components and assembly Programs a robot to assemble it all

Automates DFM suggestions

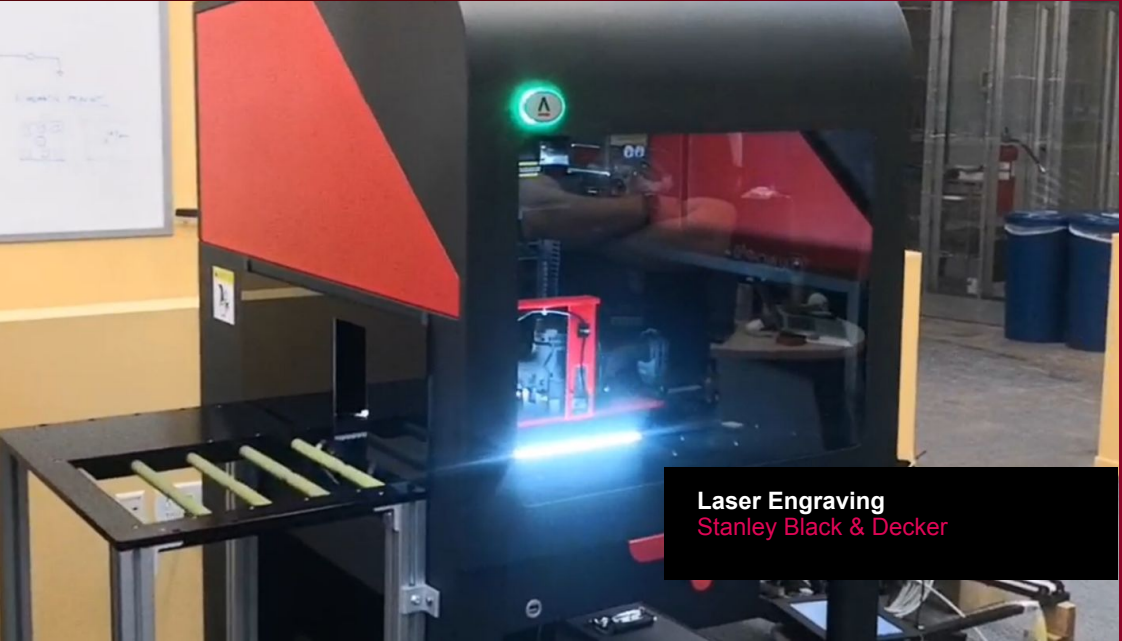
Digitool

10x more cost effective than next best robot

Flexible, modular, and equipped for the job

No code

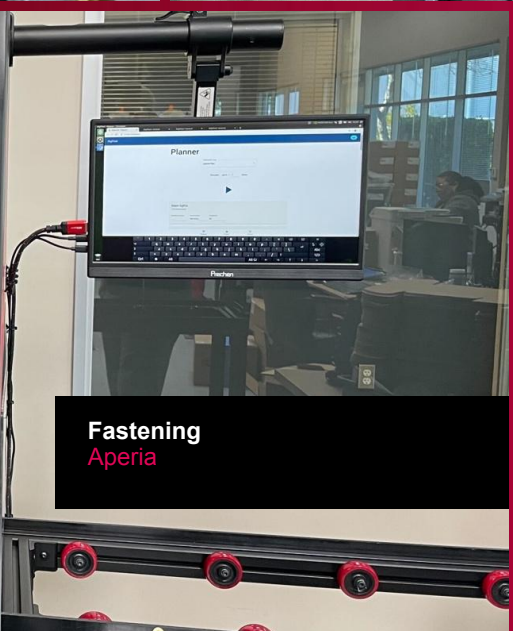
Simplified shipping / delivery



Laser Engraving
Stanley Black & Decker



Fastening / Dynamic Assembly
MI Windows and Doors

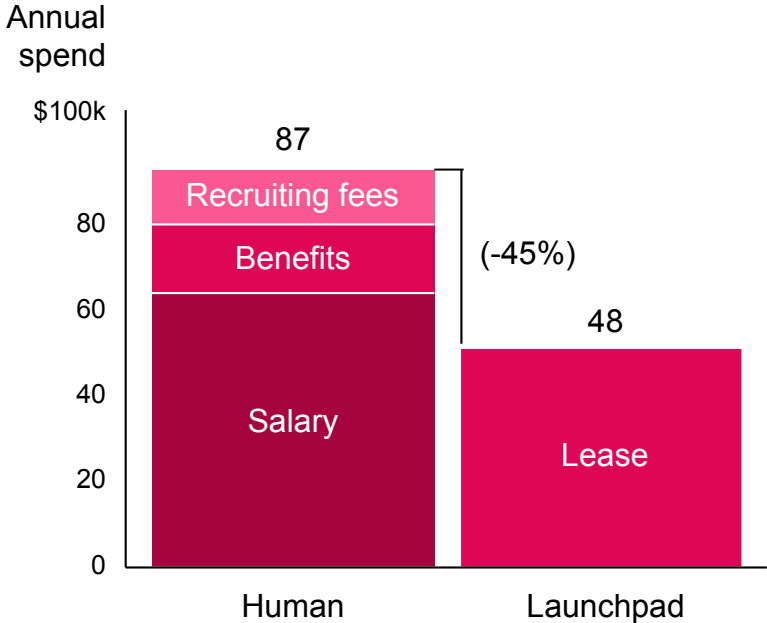


Fastening
Aperia



Pick and Place / Fastening
Sun Hydrolics

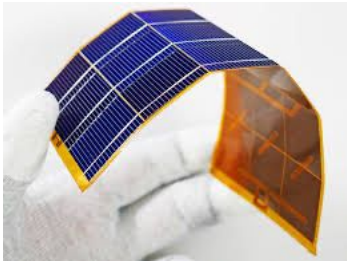
MIWD case study: 263% ROI



45% instantaneous cost savings

Based on a 1:1 human for Launchpad scenario

Launchpad - Assembly Made Easy...



Private Sector is Acting



It's the Year of the Robot. I think there are going to be massive fundraising deals for hardware-based manufacturing buildout in the United States.

David Frieberg



Apple wants to replace 50% of iPhone final assembly line workers with automation
Chance Miller

AGENTIC AI

CODING ASSISTANT
CUSTOMER SERVICE
PATIENT CARE

PHYSICAL AI

SELF-DRIVING CARS
GENERAL ROBOTICS

**Defense will
too...**

Pentagon suspends F-35 deliveries after discovering materials from China

The issue does not affect flight operations of F-35s already in service.



Downtime matters



\$20k/day

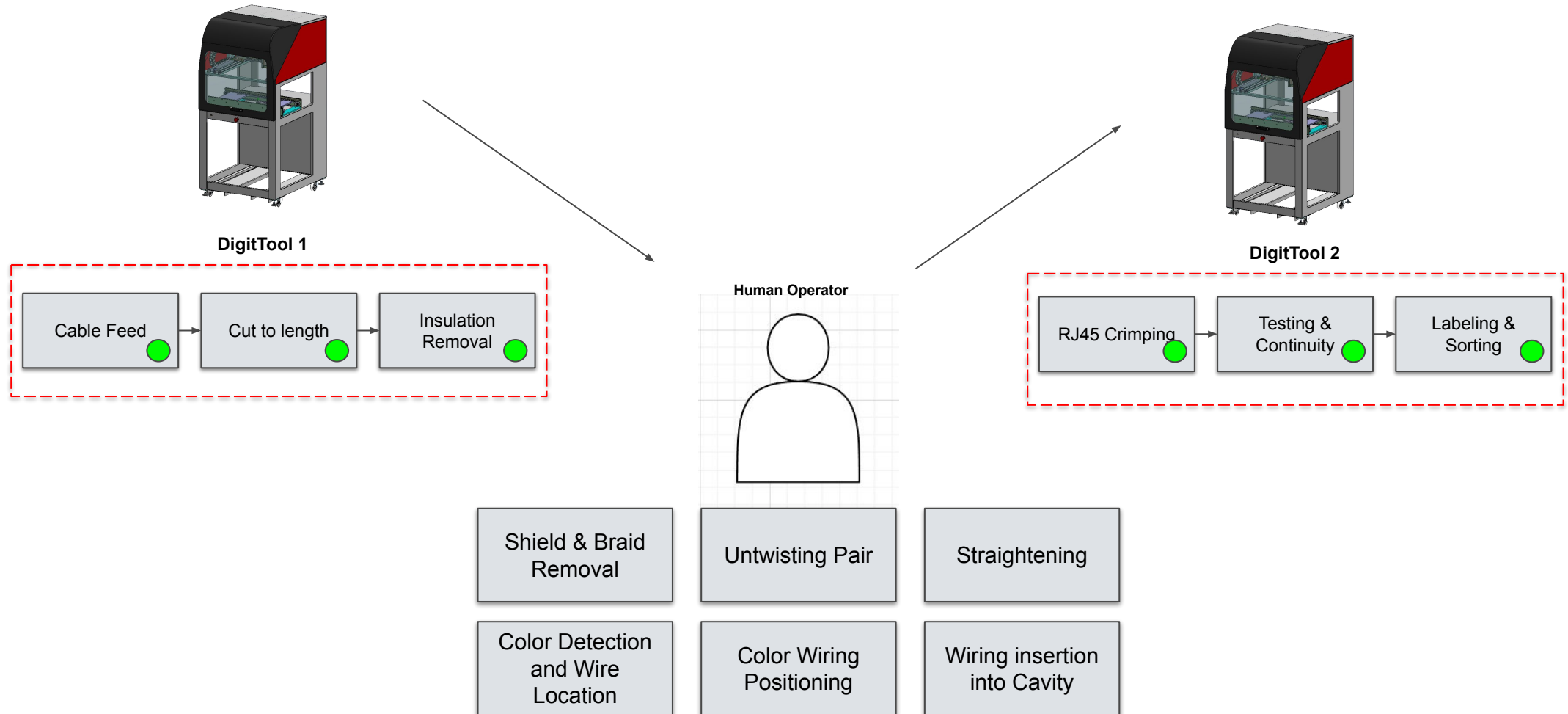


\$140k/day



\$6M/day

Case Study: Cabling





Together, we will reclaim our nation's destiny as the No. 1 manufacturing superpower in the world...

A person wearing a dark, textured coat and dark trousers is walking from left to right, pulling a brown leather rolling suitcase. The person is wearing brown leather shoes. The background consists of large glass windows reflecting the outside world, which appears to be a modern building interior. The floor is a light-colored, polished surface that reflects the person and the suitcase. The overall lighting is soft and even.

It took until 1987 for humans to properly figure out wheels on a suitcase... I'm betting on AI

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