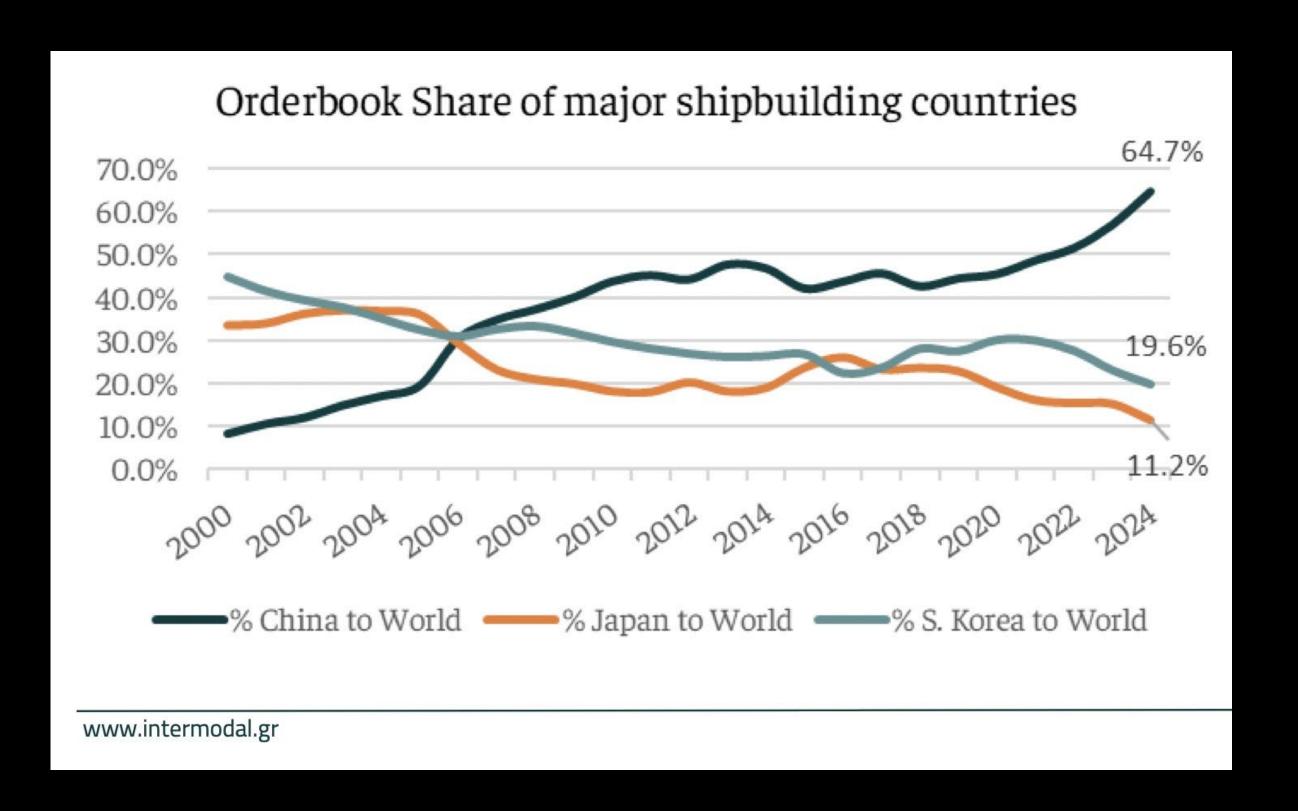
Valstad reviving american shipbuilding

mission the future of shipbuilding in america

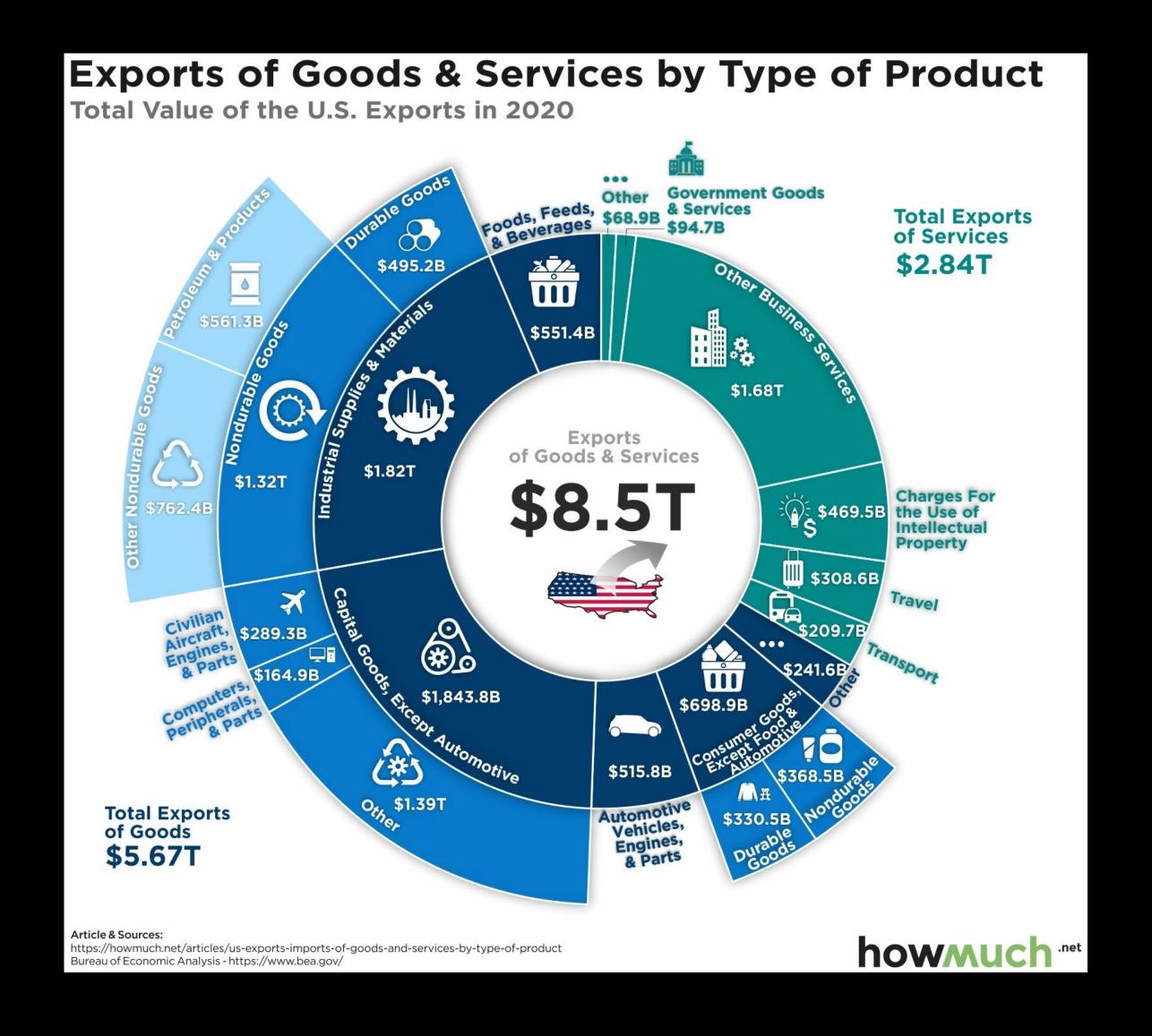
- 1. build the machine that builds the ships.
- 2. rebuild the world's fleet on nuclear energy.

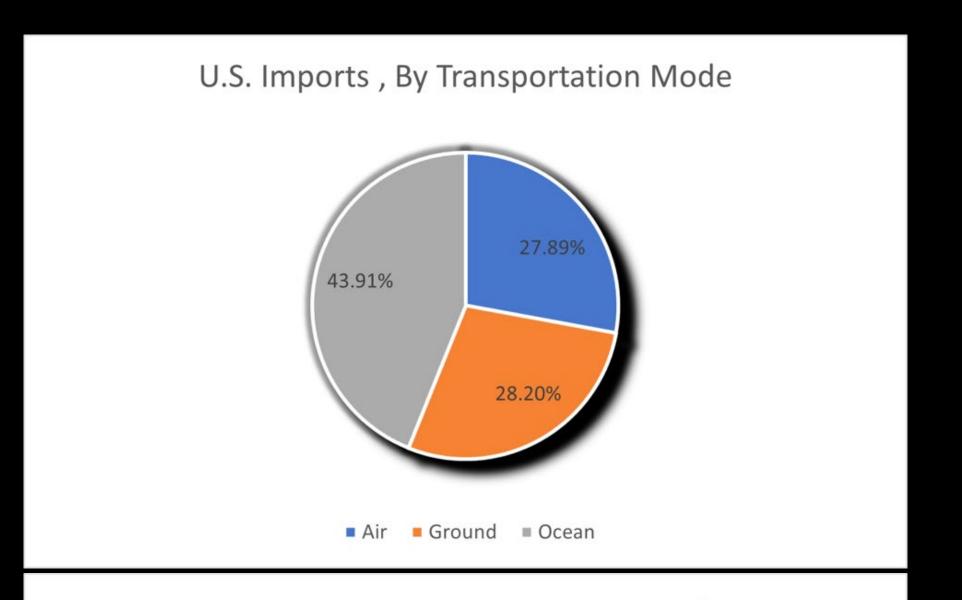
problem china is taking over shipbuilding

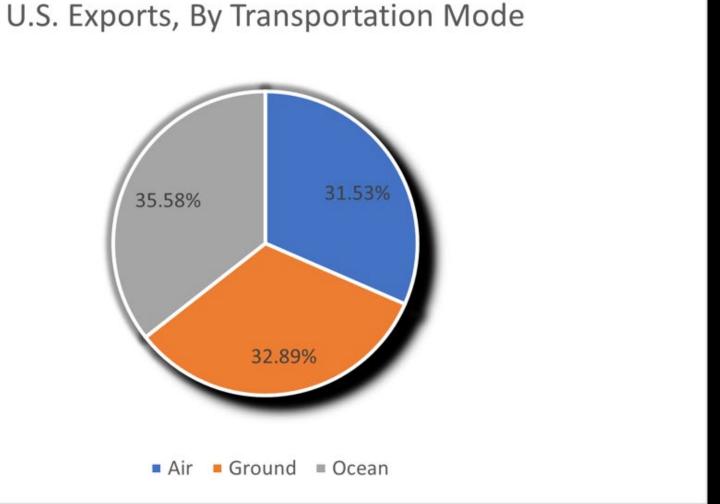
U.S.	VS	CHINA
<200 U.S. Flag Oceangoing Vessels	Fleet	>7,000 Chinese Flag Oceangoing Vessels
<5 Orders (2023)	Shipbuilding	>1,700 Orders (2023)
<153,000 U.S. Workers	Shipbuilding Workforce	>600,000 Chinese Workers
<12,000 Merchant Mariners	Mariners/ Seafarers	>1.7 Million Seafarers



problem us imports & exports rely on ships







xinneng shipyard china is ahead

1700+ acres

can produce 400 vessels/yr

\$700M+ USD equivalent

(claimed) 80% automation

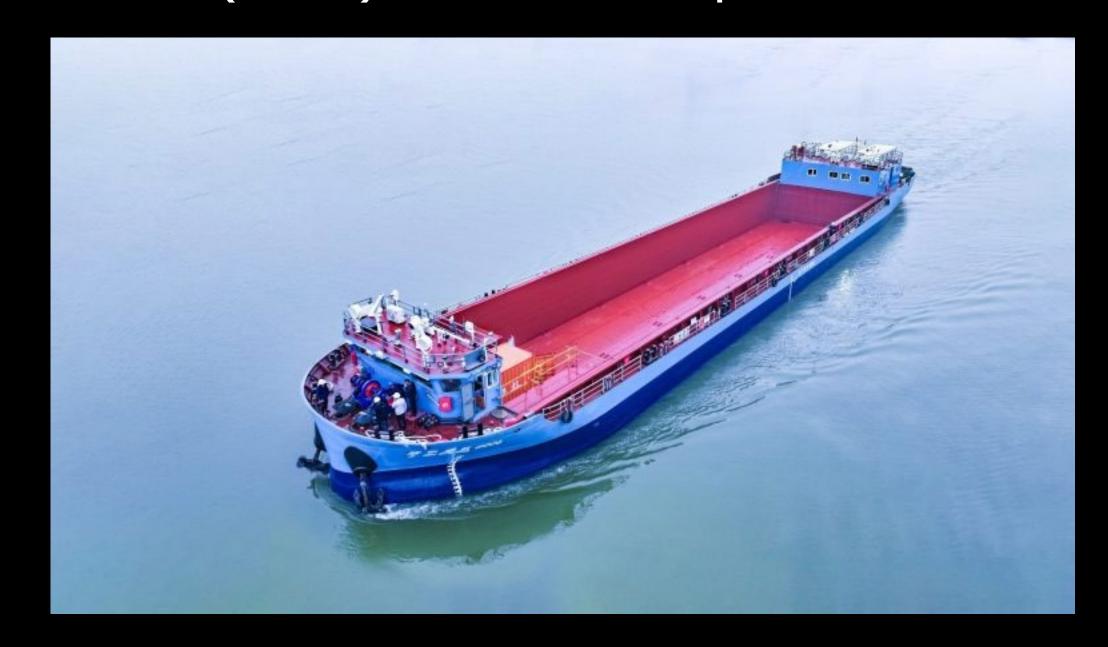


XINNENG Shipyard focused on china's inland market

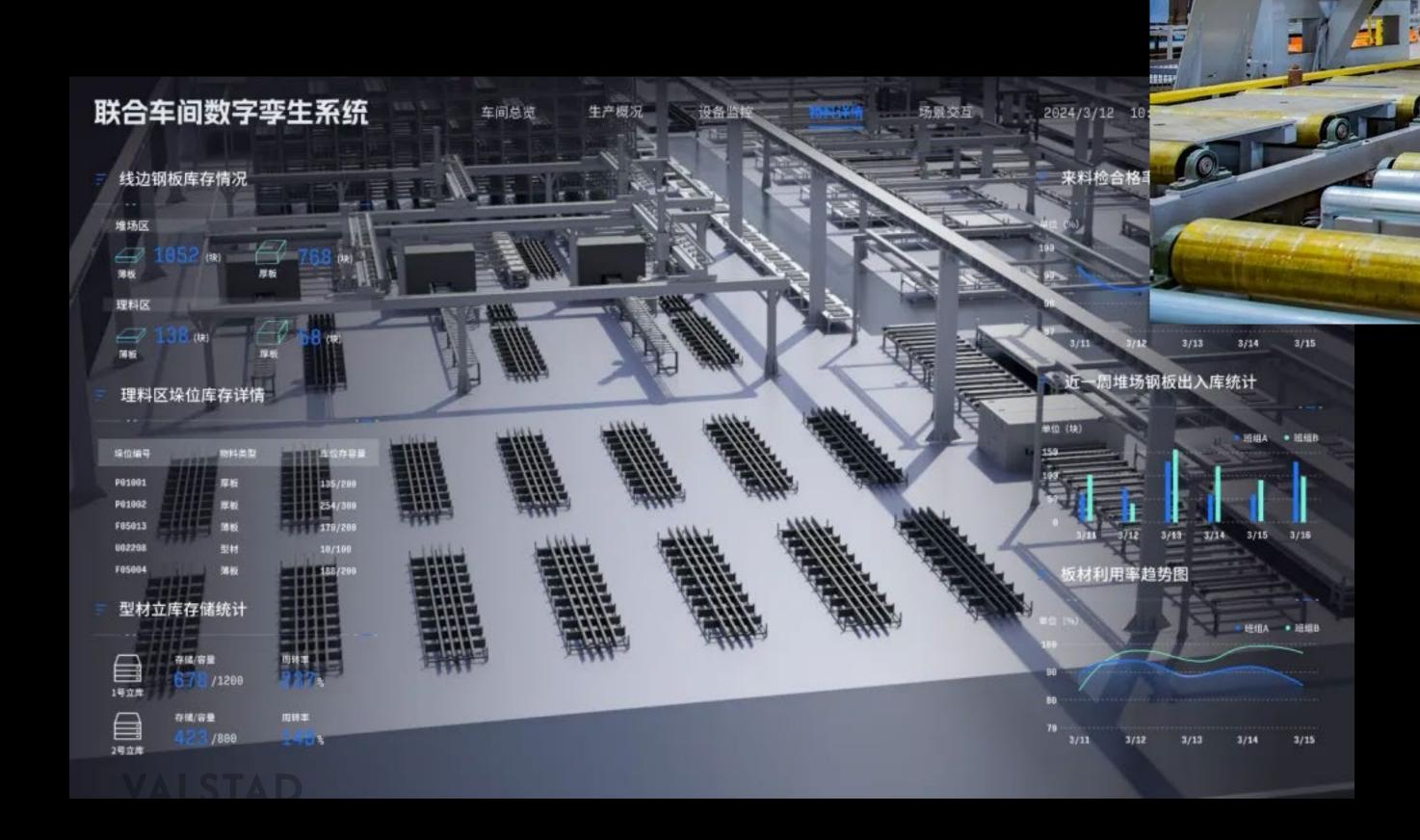
90m (295ft) LNG Transporter



67.6m (222ft) Electric Transporter - 4MWh



Xinneng Shipyard integrated software & robotics



Xinneng shipyard advanced material handling

vision-based pick and place
palletizing strategy for cut parts
robotic gantry cranes





Xinneng shipyard sophisticated warehousing

vertical warehousing strategy
agv's to transport and store parts
similar to amazon warehouse (bottom right)

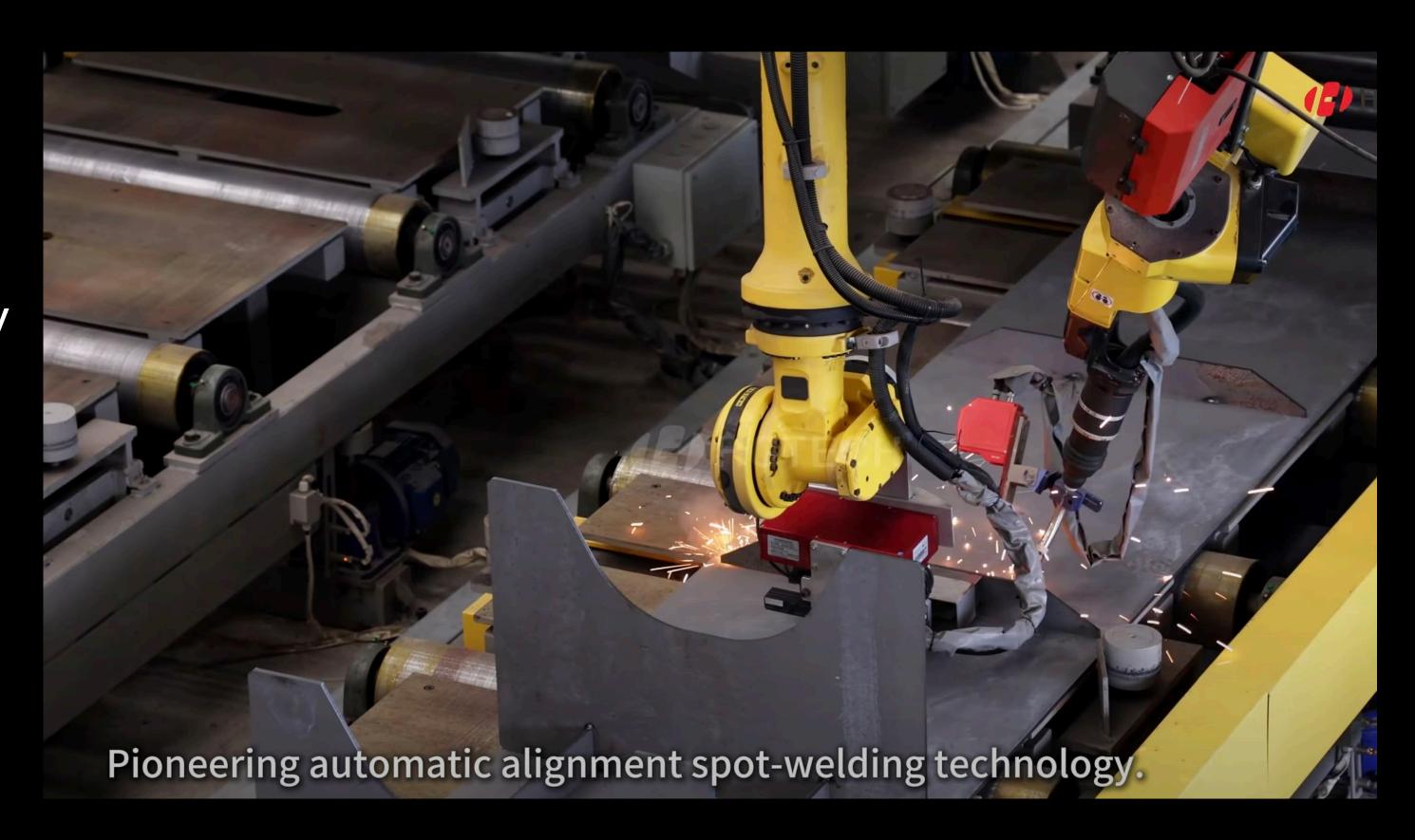




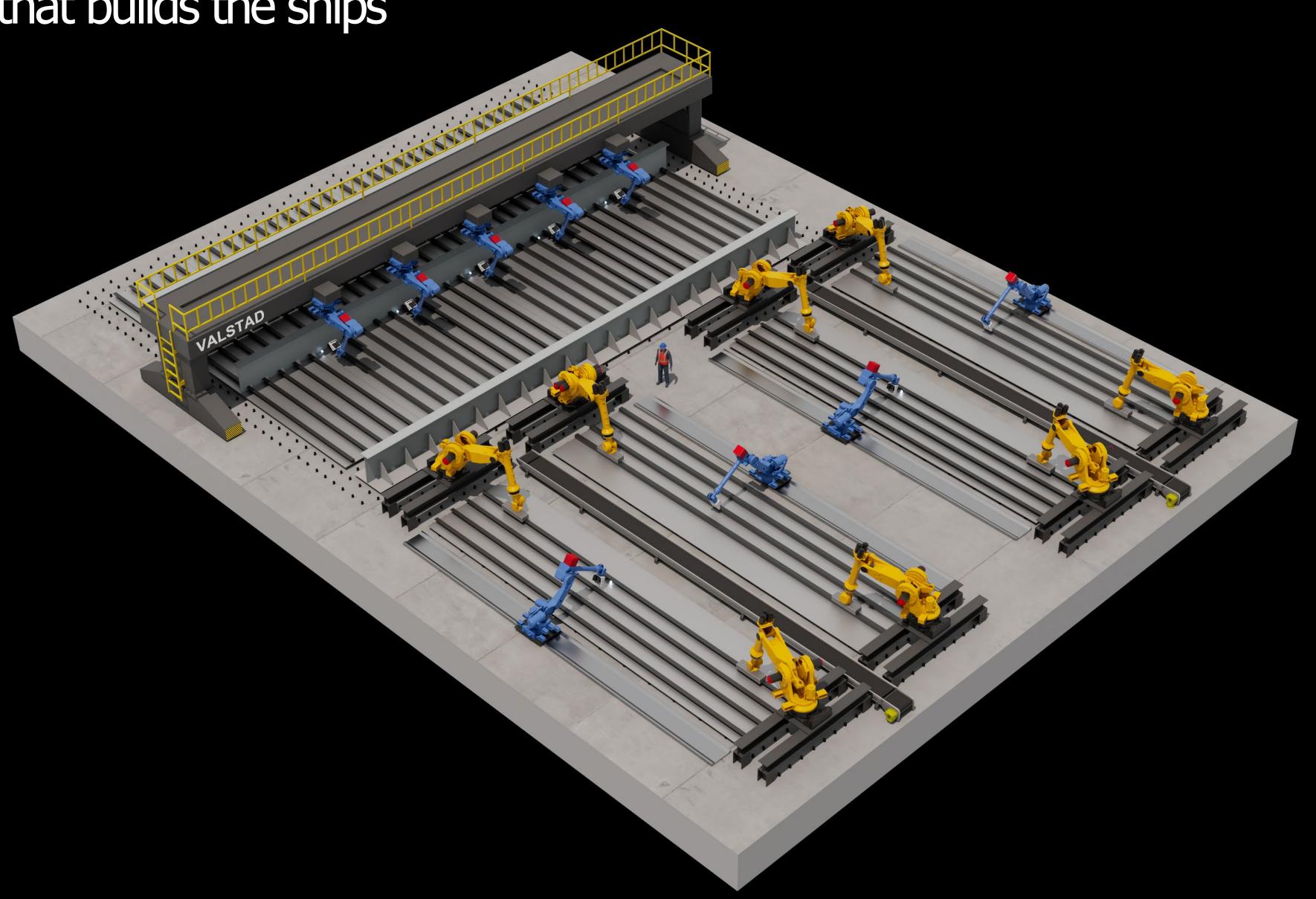
Xinneng Shipyard extensive use of robotics

automated micro-panel assembly teach-free welding

vision-based localization



replicator
the machine that builds the ships





autonomous from material offload to finished panel

modular design, buildable in ~6 months

up to 5x throughput vs. standard panel line

integrated material handling & prep

