

ACQUISITION RESEARCH SYMPOSIUM

ADVANCING U.S. COMPETITIVENESS THROUGH DECISION SCIENCE

MAY 11, 2022

STUDY BACKGROUND

SPONSOR

U.S. Navy's Shipbuilding Industrial Base Task Force (SIB-TF) in conjunction with OSD's Industrial Base Analysis & Sustainment (IBAS) team.

SCOPE

- Geography: Gulf Coast Region
- Trades: Electricians, Metal Fabricators & Fitters, Inside Machinists, and Riggers
- Time Period: 7-year baseline (CY15-CY21) and 5-year forecast (CY22-CY26)

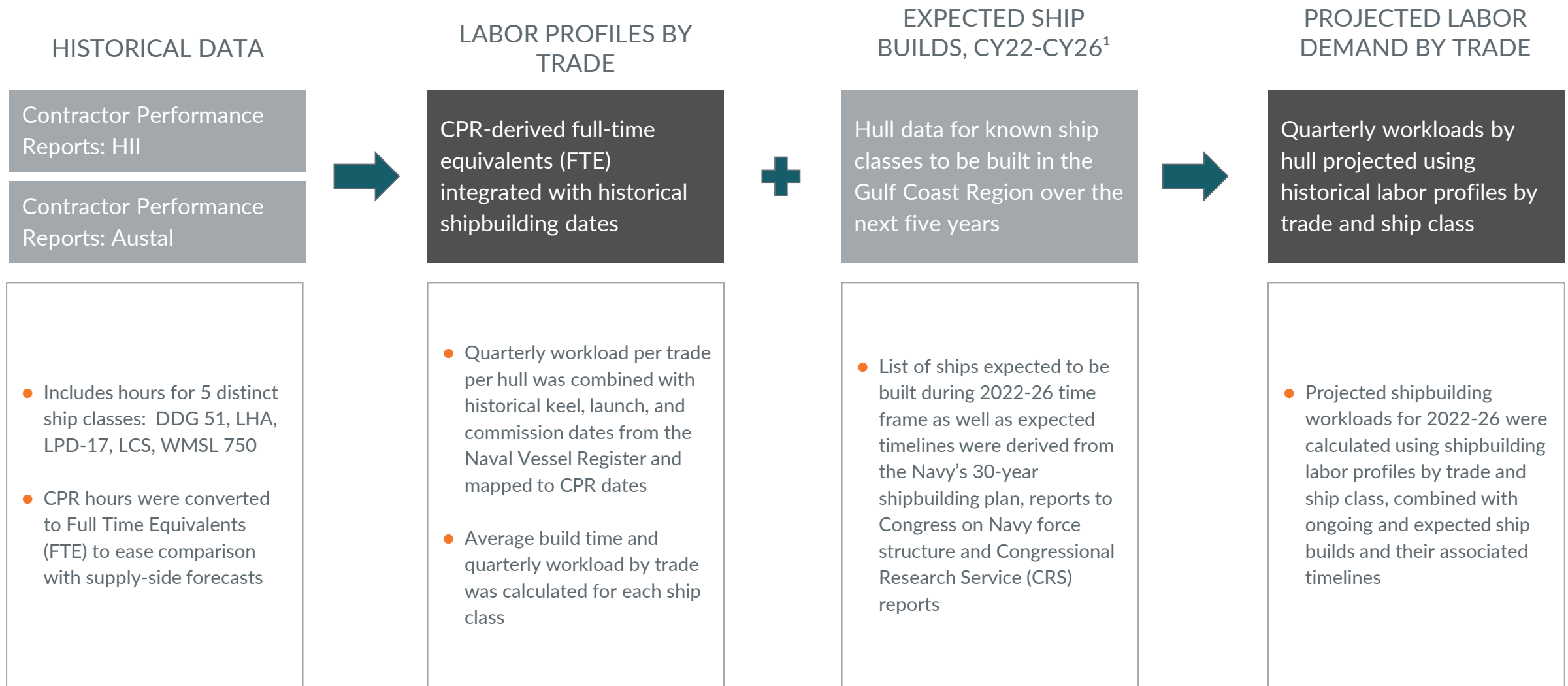
RESEARCH QUESTION 1

Is there an adequate supply of skilled labor in select critical trades to meet current and projected demand for Navy ship construction in the U.S. Gulf Coast?

RESEARCH QUESTION 2

What drives supply and demand for select critical trades in the U.S. Gulf Coast?

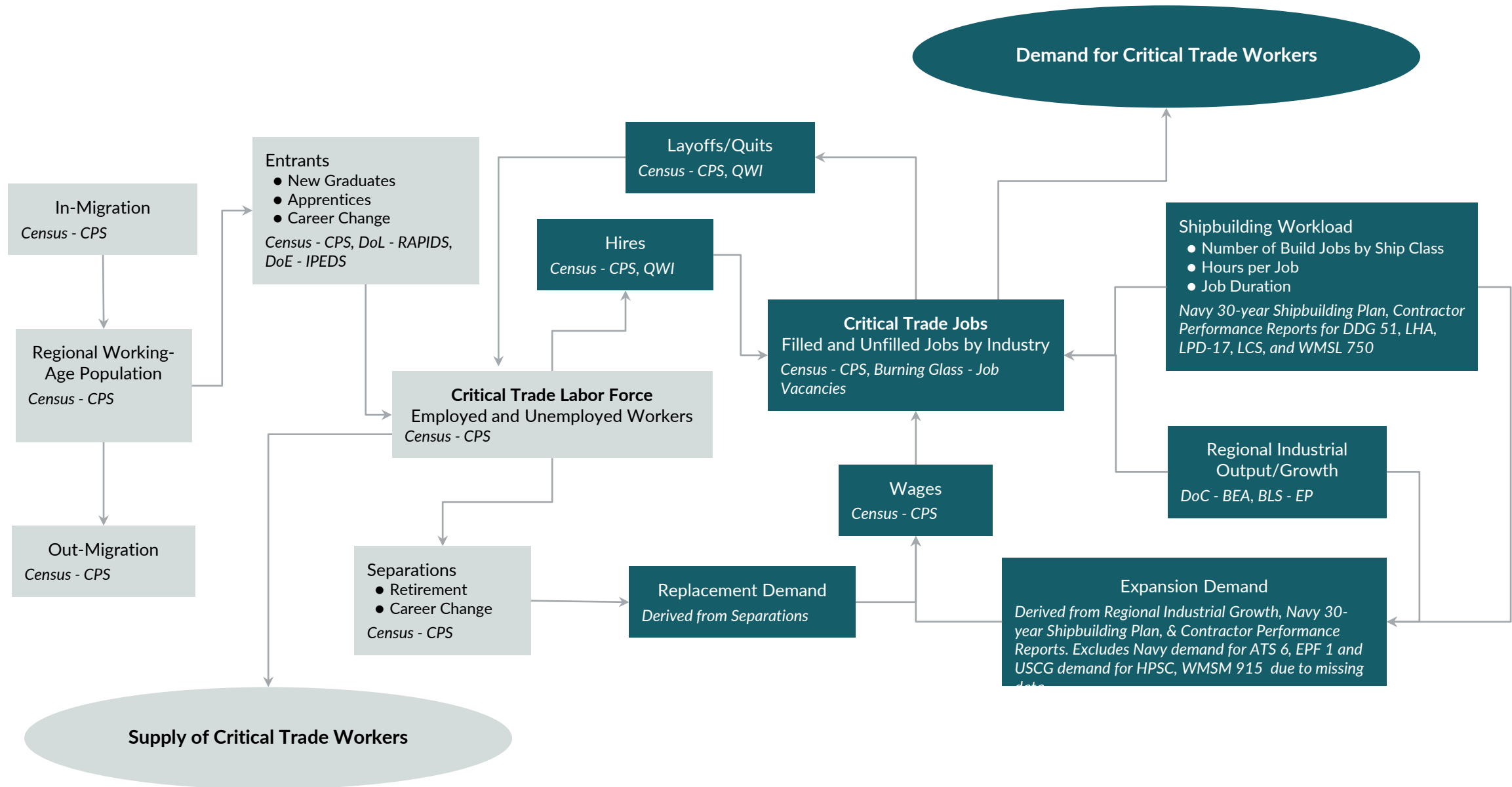
APPROACH & ASSUMPTIONS FOR FORECASTING SHIPBUILDING LABOR DEMAND



¹Expected ship builds for CY22 - CY26 include:

- Ongoing builds: DDG 121, DDG 123, DDG 125, DDG 128, LHA 8, LPD 28, LPD 29, LPD 30, LCS 24, LCS 26, LCS 28, LCS 30, and LCS 32
- Future builds: DDG 129, DDG 131, DDG 133, DDG 135, DDG 137, DDG 139, LHA 9, LPD 31, LPD 32, LPD 33, LPD 34, LCS 36, LCS 38, and WMSL 760

SHIPBUILDING LABOR MARKET MODEL (SLMM)



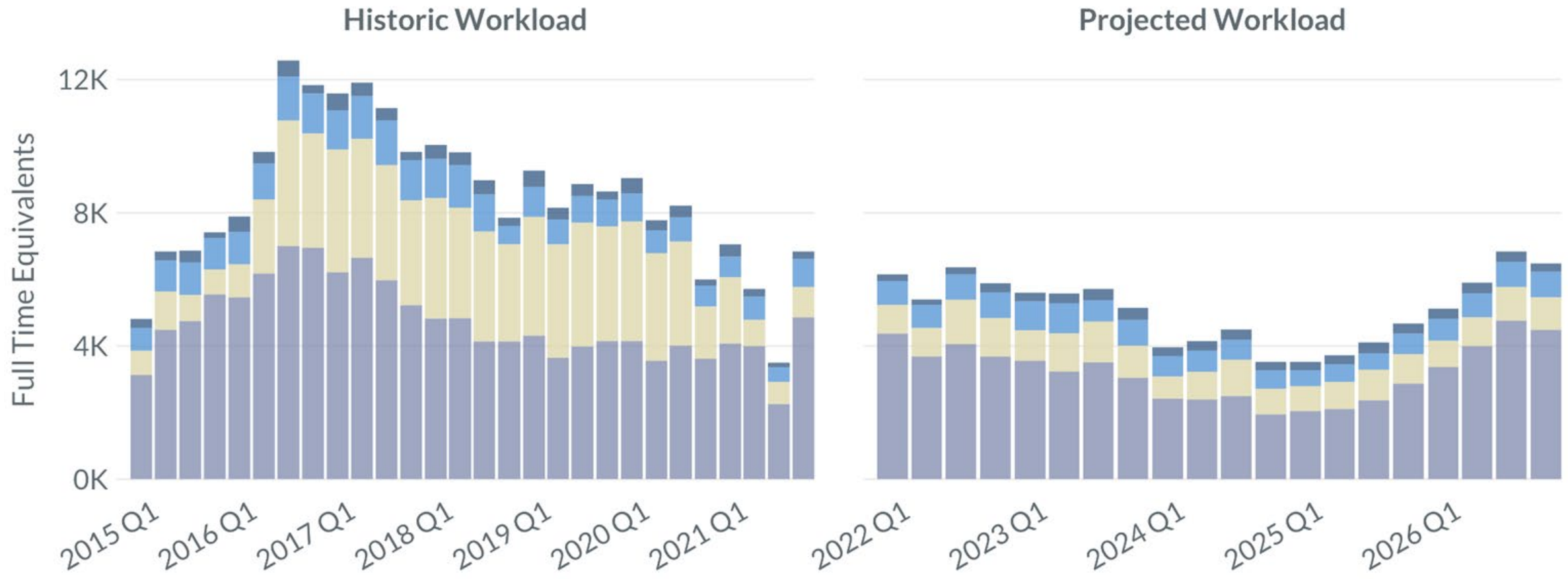
KEY FINDINGS

- DEMAND FOR CRITICAL TRADE WORKERS IS INCREASING – BUT NOT FROM NAVY SHIPBUILDING
- SUPPLY OF WORKERS CRITICAL TO NAVY SHIPBUILDING IS LARGELY FLAT
- NAVY SHIPBUILDERS CAN EXPECT SUFFICIENT LABOR CAPACITY FOR ELECTRICIANS AND RIGGERS – BUT INSUFFICIENT CAPACITY FOR INSIDE MACHINISTS AND METAL FABRICATORS & FITTERS

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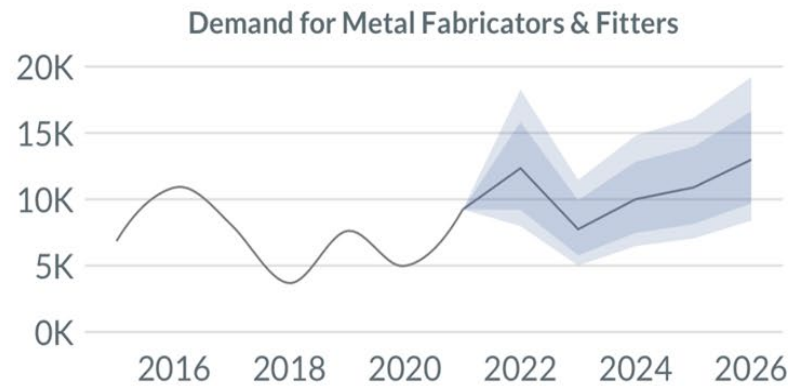
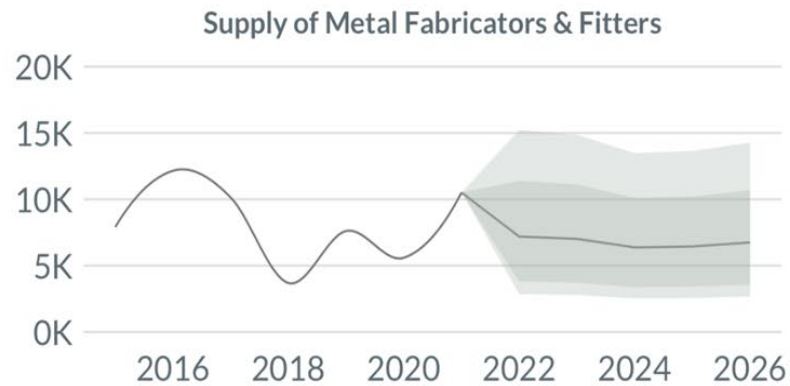
U.S. Gulf Coast Historic and Projected Workload by Trade

Electrician Metal Fabricator & Fitter Inside Machinist Rigger

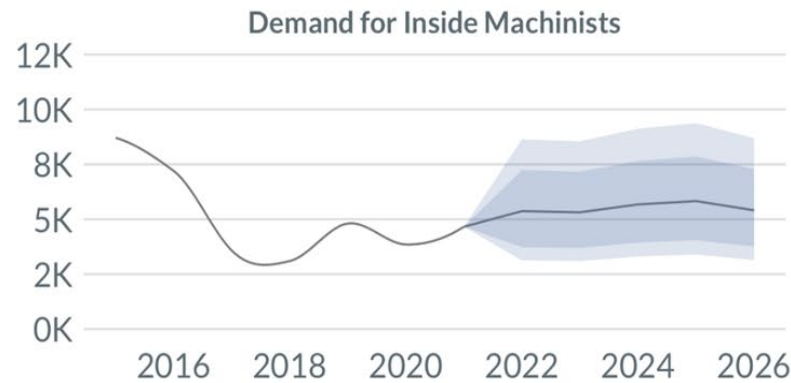
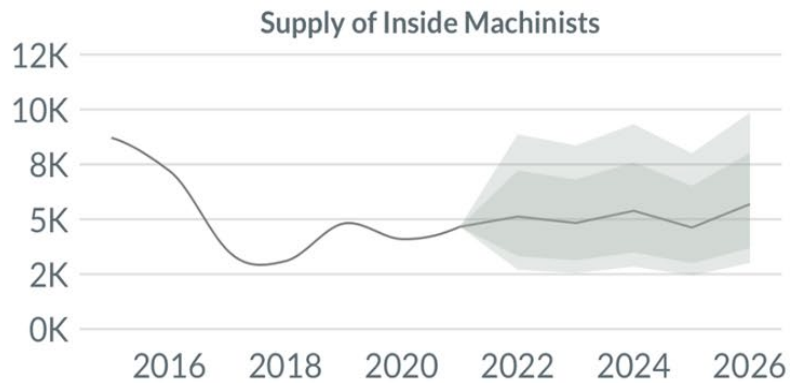


SLMM FORECASTS POTENTIAL IMBALANCES FOR SUPPLY & DEMAND OF METAL FABRICATORS & FITTERS, INSIDE MACHINISTS

Supply & Demand Forecasts for Gulf Coast Metal Fabricators & Fitters & Riggers



	Metal Fabricators & Fitters		
	Average Case	Best Case	Worst Case
2022	-5,153	+7,237	-15,408
2023	-723	+9,854	-8,672
2024	-3,640	+7,015	-12,285
2025	-4,451	+6,595	-13,562
2026	-6,240	+5,880	-16,536



	Inside Machinists		
	Average Case	Best Case	Worst Case
2022	-250	+5,742	-5,934
2023	-487	+5,269	-5,999
2024	-289	+6,024	-6,282
2025	-1,207	+4,612	-6,934
2026	+282	+6,704	-5,691

AREAS FOR FUTURE ANALYSIS



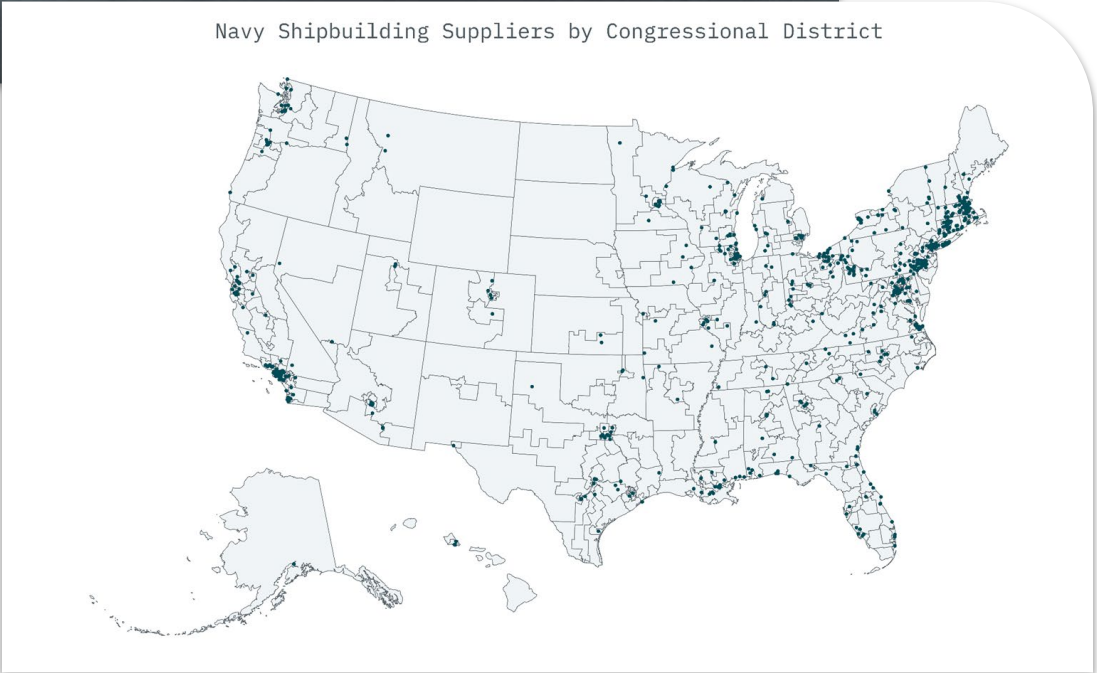
Incorporate a broader set of relevant, critical trades into the Shipbuilding Labor Market Model with refinements & updates to data forecasts



Expand the model to new, critical shipbuilding geographic regions, such as New England



Explore ship and related submarine industrial base supplier networks to look for labor risk in lower-tier suppliers across the country by industry



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