



ADVISORY COUNCIL MEETING

Presented by Macomb Community College, The University of Michigan & The Michigan Department of Labor and Economic Opportunity (LEO)



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Education • Enrichment • Economic Development

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WELCOME

BEN CRUZ

MACOMB COMMUNITY COLLEGE



UNIVERSITY OF
MICHIGAN

KEYNOTE: THE SHIPBUILDING AWAKENING

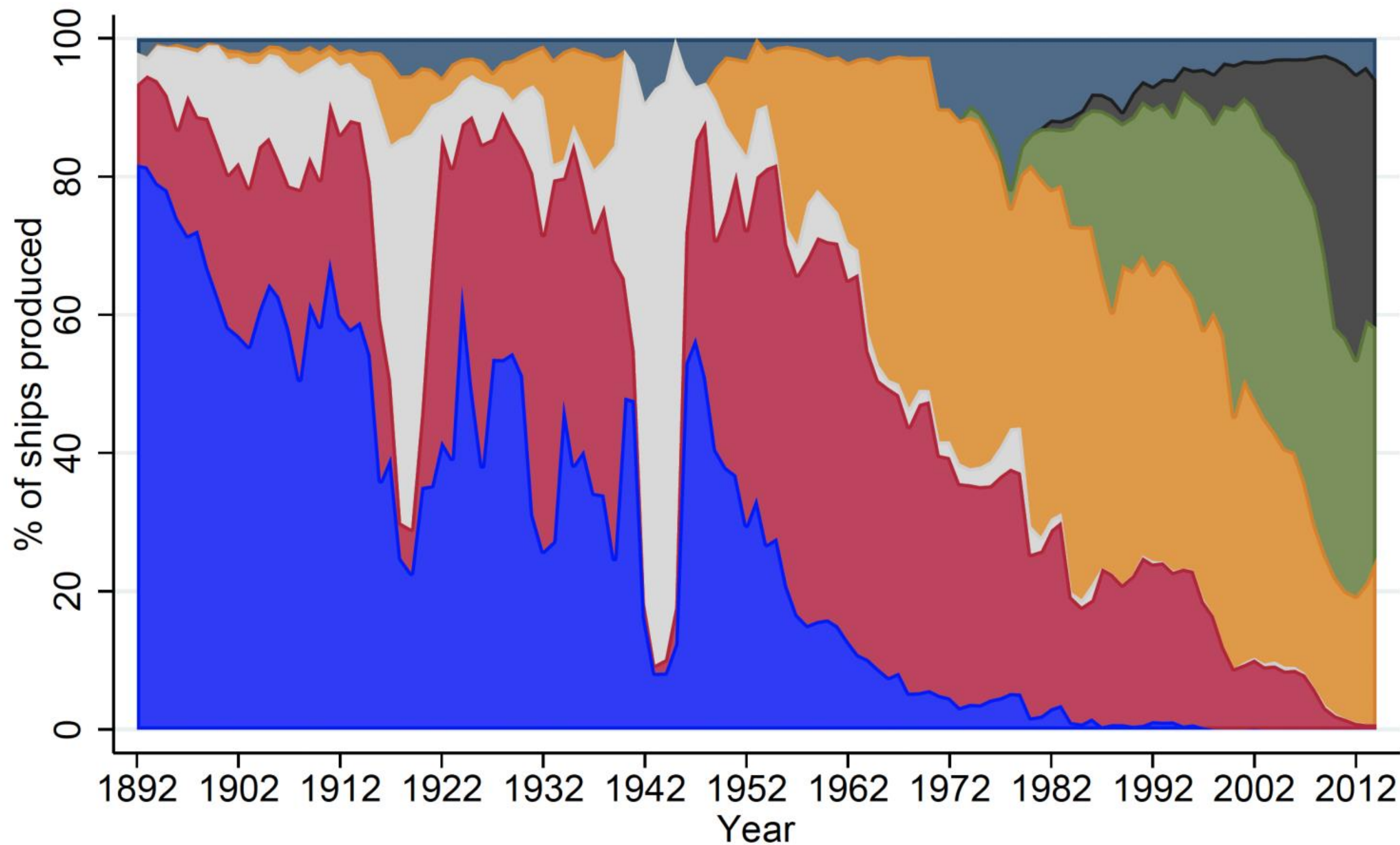
MATTHEW COLLETTE

PROFESSOR, UNIVERSITY OF MICHIGAN

The Maritime Future and Michigan

Thomas McKenney
Associate Professor of Engineering Practice

Matthew Collette
Professor



China has captured majority of a market the US chose to exit



2024

	USA	China
Ships Built	0	>800
Market Share	0.1%	>50%



Share of Commercial Ships Produced by Each Country

Source: <https://cepr.org/voxeu/columns/industrial-policy-lessons-shipbuilding>

There is *bipartisan* support to address shipping and shipbuilding shortcomings



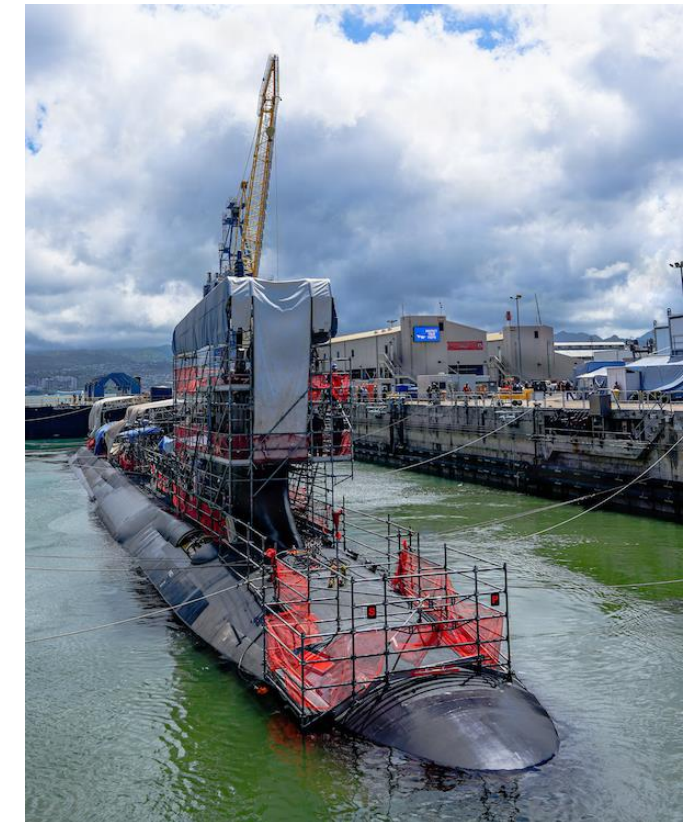
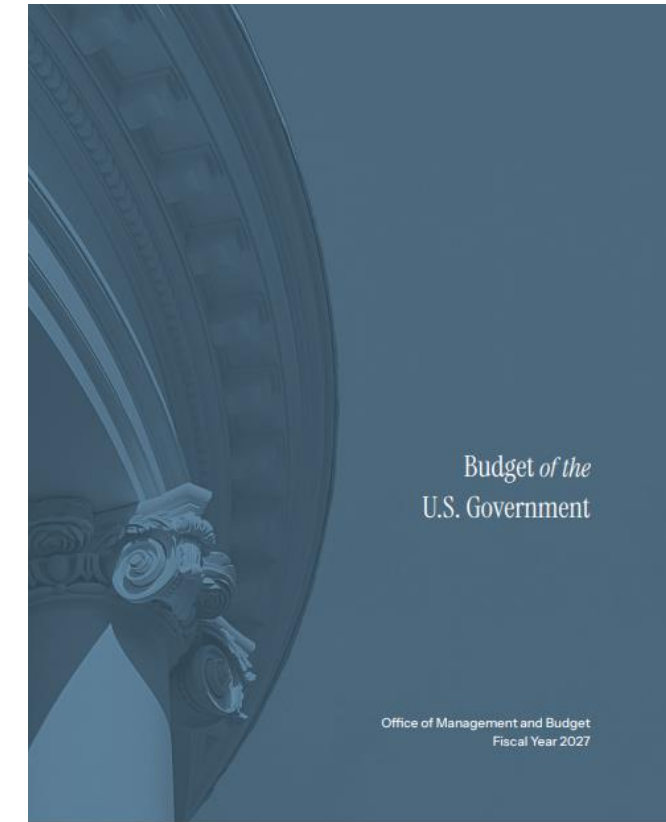
Unfair trade practice allegation/ response – Section 301 action – Biden/Trump



Trump Maritime Dominance EO 14269 / April 9th, 2025



Bipartisan Ships For America Act – 118th/119th Congress



- \$66B for naval shipbuilding – huge increase from ~\$20 billion
- \$5 billion investment in Philly shipyard – crosses over
- \$100s billions in other commitments
- Still problems with new build and repair

The path forward to America's maritime resurgence remains uncertain and requires bold action and leadership

Ships

- China has 5,000 vessels to 300 for the U.S.
- SHIPS Act and related targets: >80 additional ships need to be built in U.S. over the next 15 years
- The U.S. is the first nation to try to reindustrialize a heavy industry like shipbuilding

Technology

- 70-80% of the final value of a ship is derived from its supply chain
- U.S. does not have major marine suppliers; currently uses EU IP

Education & Workforce

- Shipbuilders and suppliers need to hire 250,000 skilled workers over the next decade
- U.S. produces 100 NA&ME graduates annually to Korea's ~ 2,000 and China's ~ 10,000

Leverage Great Lakes assets to drive America's maritime resurgence through innovation, collaboration, and education

Integrated Regional Ecosystem

- Access an integrated network of universities, shipyards, skilled trades, ports, and technology partners

Global Gateway to U.S. Maritime

- Single point of entry to U.S. maritime markets, R&D partnerships, policy guidance, and investment pathways

Adjacent Industry Transition

- Bridge automotive, defense, and manufacturing expertise into high-growth maritime markets with deep history in manufacturing

The Great Lakes advantage

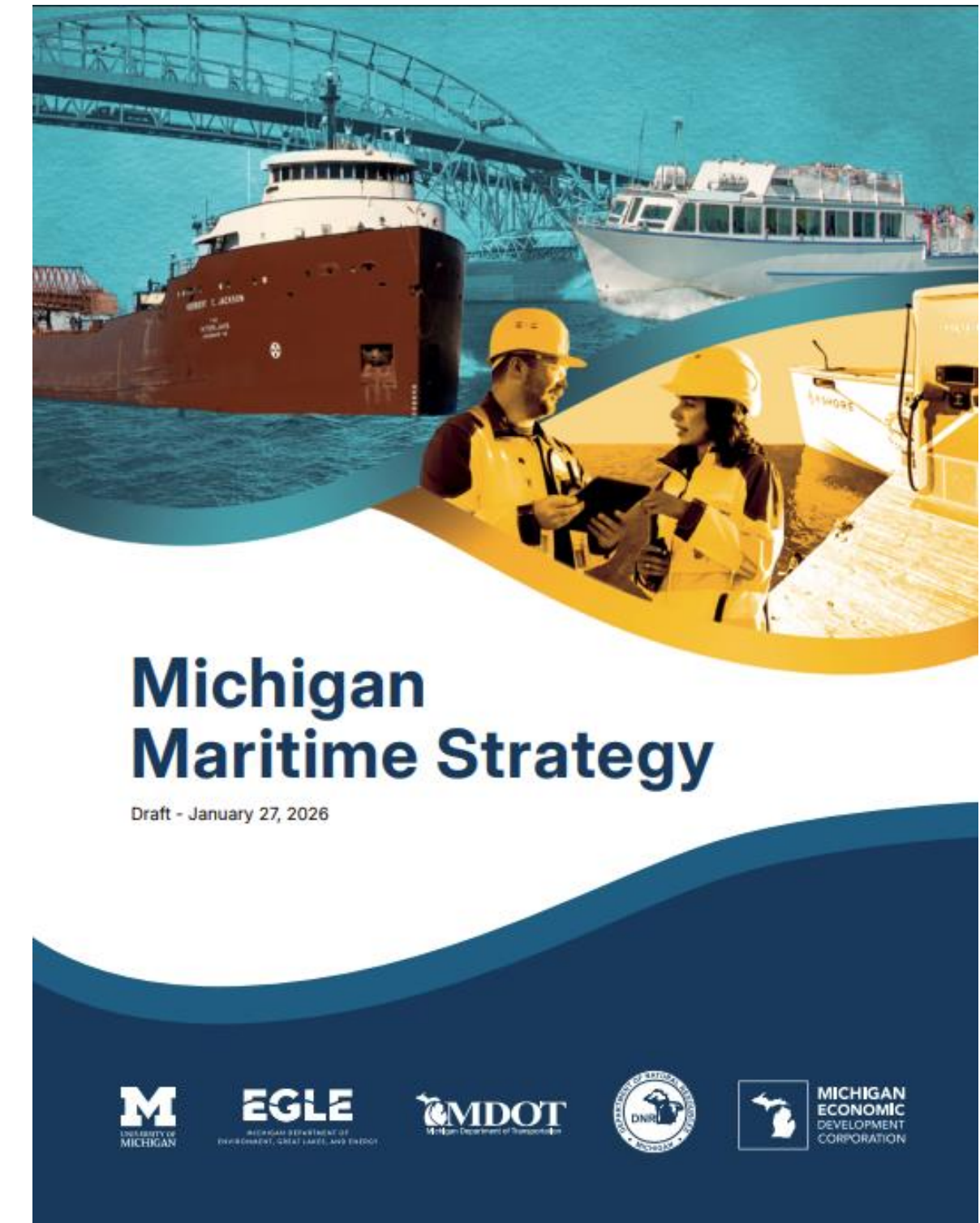


“Where dormant capacity meets disruptive opportunity.”

State of Michigan's Maritime Strategy

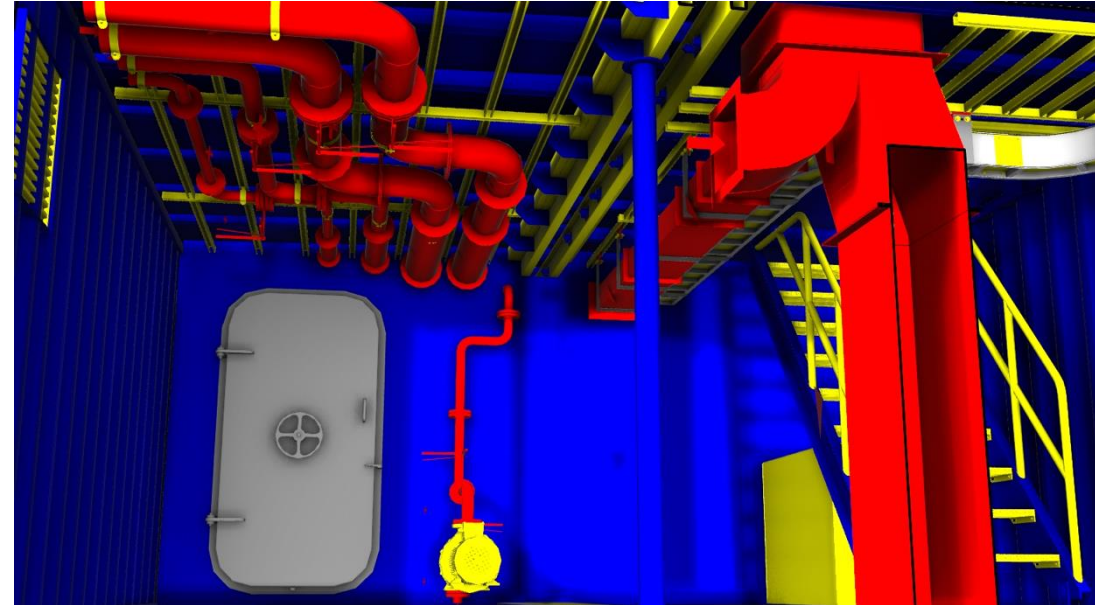


- First-ever maritime strategy that aims to protect the Great Lakes, create jobs, and attract investment
- Six core areas to prioritize:
 1. Modernize port and intermodal infrastructure
 2. Grow Michigan's maritime manufacturing economy
 3. Accelerate adoption of advanced vessel technologies and fuels.
 4. Lead the nation in recruitment, training, and retention of the maritime workforce
 5. Cultivate a thriving maritime innovation ecosystem
 6. Increase sustainability, resilience, and revitalization of recreational harbors, marinas, and boating access sites



Partnerships and investment are growing quickly in this space

**Look to
Michigan**



- U of M invests \$3.75 million of internal funds to transition GLMI to *Michigan Maritime Institute*
- Numerous partnership events and interest in moving forward in Michigan



SITE #2

FDI looking around the Great Lakes region

Strong recreational markets as well

Workforce is the key to going from future capability to boats in the water!

- Navy alone projects 250,000 workers required
- “I know what I am building until 2035” – shipyard executive
- Commercial work is additional on-top of this – Hanwa Philly alone is looking at 10,000 new jobs
- Supply chain jobs will also grow – 70% of the value
- Who will train the workers and who will bring home the paychecks?



Thank you!

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MICHIGAN DEPARTMENT OF
**LABOR & ECONOMIC
OPPORTUNITY**



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FIRESIDE CHAT: BUILDING MICHIGAN'S MARITIME WORKFORCE

**CHRIS REILLY, MACOMB COMMUNITY COLLEGE
REY GUZMAN, STATE OF MICHIGAN (LEO)**

MEET THE PANEL

JERAN CULINA

Moderator & Senior
Manager of Business
Leaders United



CHRIS REILLY

Director of Workforce &
Continuing Education for
Engineering and Advanced
Technology



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AMY KRAATZ

Talent Development Liaison
Industry Engagement,
Sector Strategies
Workforce Development



Michigan's Shipbuilding and Maritime Strategy

- Michigan's maritime economy supports transportation, recreation and fishing
 - 33 active ports that handle over 50 million tons of cargo
 - Contributes \$3B+ to Michigan's economy
 - Supports 17,000+ jobs
- Plays a key role in 350,000+ shipping-related jobs across the U.S. and Canada
 - \$50B in economic activity supporting binational region's \$9.3T economy
- **Michigan Maritime Strategy** – 10-year plan to capitalize on the state's strategic position in the Great Lakes region and its extensive maritime assets



Michigan Maritime Manufacturing (M3) Initiative

- \$50M initiative supports Michigan's maritime defense workforce
- Focuses on submarine production skills: welding and CNC machining
- Partners community colleges with K–12 outreach
- Includes veteran retraining and recruiting
- Features a Navy-funded \$15.4M training center at Macomb Community College
 - 162 graduates through the first seven cohorts
 - 88 CNC machinists and 74 welders



Michigan Industry-Driven Skills Training Program (MIDSTP)

- Funded by \$8M USDOL Industry-Driven Skills Training Fund award and \$3.6M state investment
- Supports efforts to revitalize domestic shipbuilding industry
- Builds on the success of the M3 Initiative
- Helps train workers in **welding, marine electrical systems, advanced manufacturing and other skilled trades**
- Will support training for up to **720 workers** in high-demand shipbuilding trades



Michigan Industry-Driven Skills Training Program: Maritime Equipment and Instructor Expansion

- Funding for Community Colleges
- Supports **equipment purchases, instructor training and recruitment, and lab retrofits**
- Expands training capacity for high-demand **maritime and shipbuilding occupations** under MIDSTP
- Strengthens Michigan's maritime talent pipeline
- Supports high-skill, high-wage career pathways
- Enhances readiness for national defense workforce needs
- Advances statewide goals including **Sixty by 30**, Michigan Maritime Strategy, infrastructure readiness, and economic growth





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CLOSING REMARKS

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THANK YOU!

MIAUTOMOBILITY.ORG