

# **WASHINGTON STATE FERRIES NEW VESSEL PROCUREMENT UPDATE**

## **Joint Transportation Committee**

**CHAD ROUS, VESSELS ENGINEER  
PROGRAM MANAGER**

October 9, 2023

Roger Millar, Secretary of Transportation

Amy Scarton, Deputy Secretary of Transportation

# JLARC 2023 HYBRID-ELECTRIC FERRY REPORT

## JLARC to evaluate design-build contracting for hybrid electric ferries

- Compare WSF's policies and practices to industry best practices
- Assess opportunities to decrease vessel construction costs & ensure operational efficiencies

2022 Supplemental Transportation Budget

JLARC staff consulted with VARD Marine, Inc., a firm with expertise in marine engineering and procurement to assist with the review

JLARC Preliminary Report | Hybrid, Electric and Hybrid-Electric Design Contracting and Procurement

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## Legislative Auditor's Conclusion

**The Legislature** should consider revising state law to allow alternatives that increase ferry acquisition speed and the value to the state.

**WSDOT Ferries Division** should improve its cost estimation, payment, and other practices.

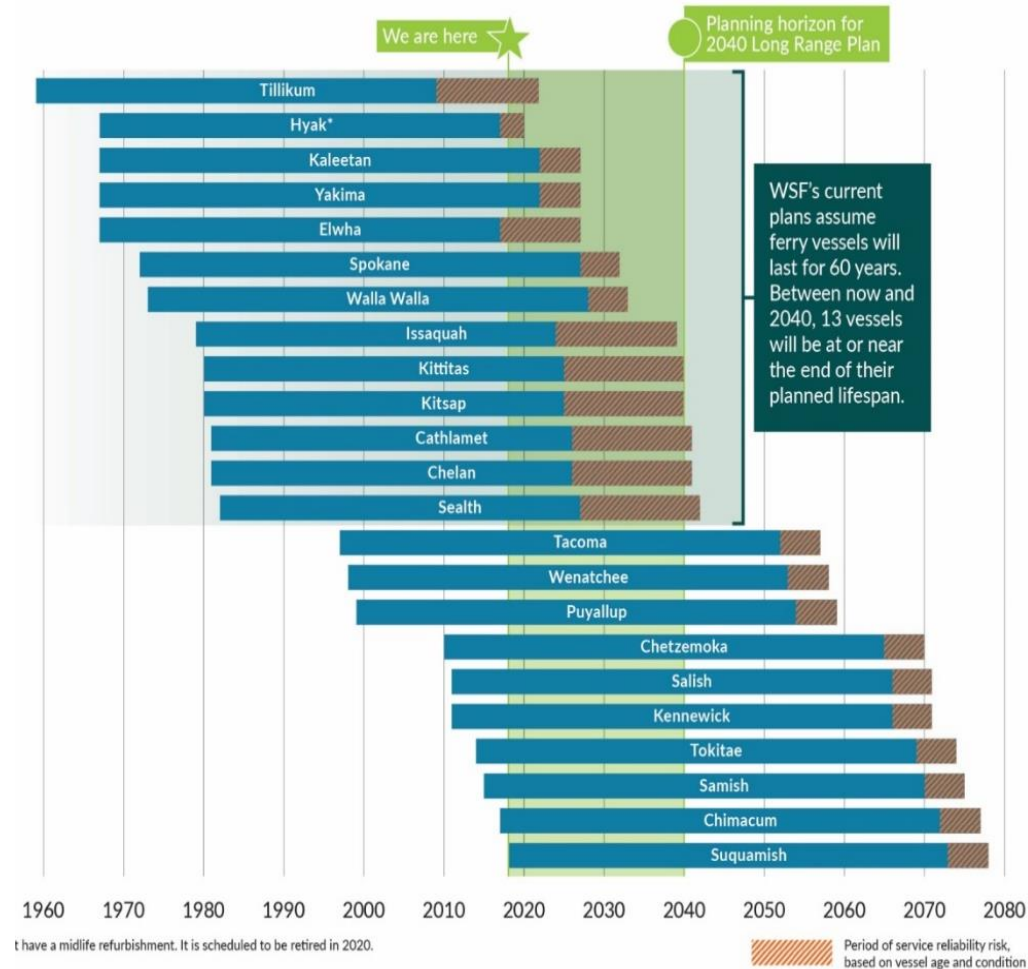
JLARC Preliminary Report | Hybrid, Electric and Hybrid-Electric Design Contracting and Procurement

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# GROWING THE FLEET

- 26 vessels needed
- 21 vessels currently
- 15 vessels in service due to scheduled maintenance, repairs, and propulsion system upgrade
- 13 vessels will be near or at end of their planned lifespan by 2040
- 2040 Long Range Plan calls for building 16 new vessels by 2040



# HB 1846 (2023): ADDRESSING WSF VESSEL PROCUREMENT

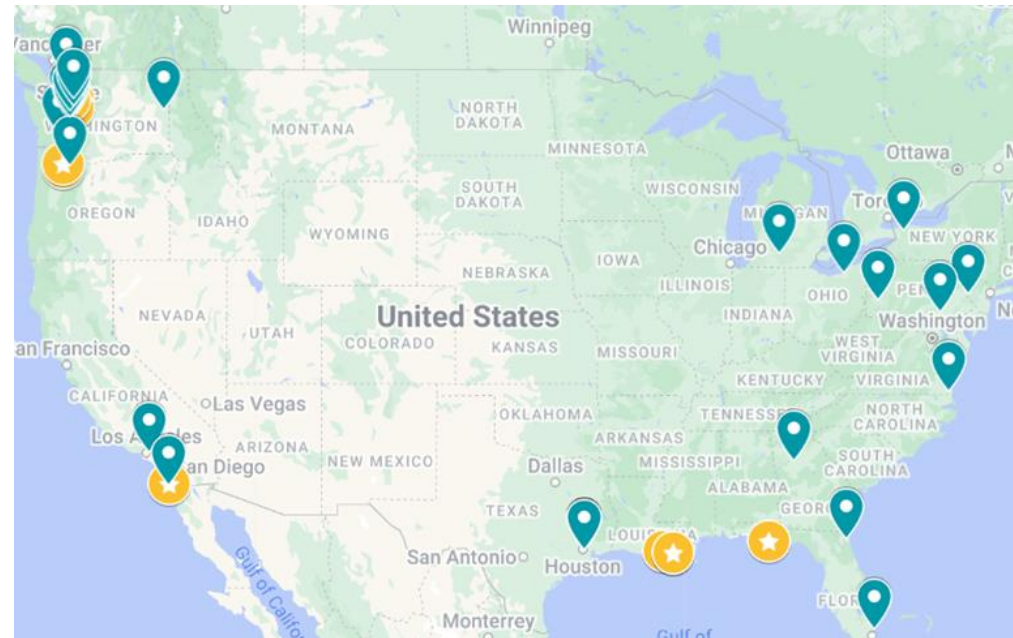
Provides opportunity for:

- **Nationwide** contract solicitation
- Design build, **design-bid-build**, or lease-to-own delivery options
- One- or **two-contract** approach for new hybrid-electric Olympic Class vessels; minimum of two total vessels/ maximum of five total vessels



# NATIONWIDE COMPETITION

- National interest: 52 interested parties (12 prime contractors)
- Ongoing conversations with shipyards around the country
- Credit for Washington shipyards: 13% additional value to balance competition for Washington state contractors



★ Primes      📍 Subs

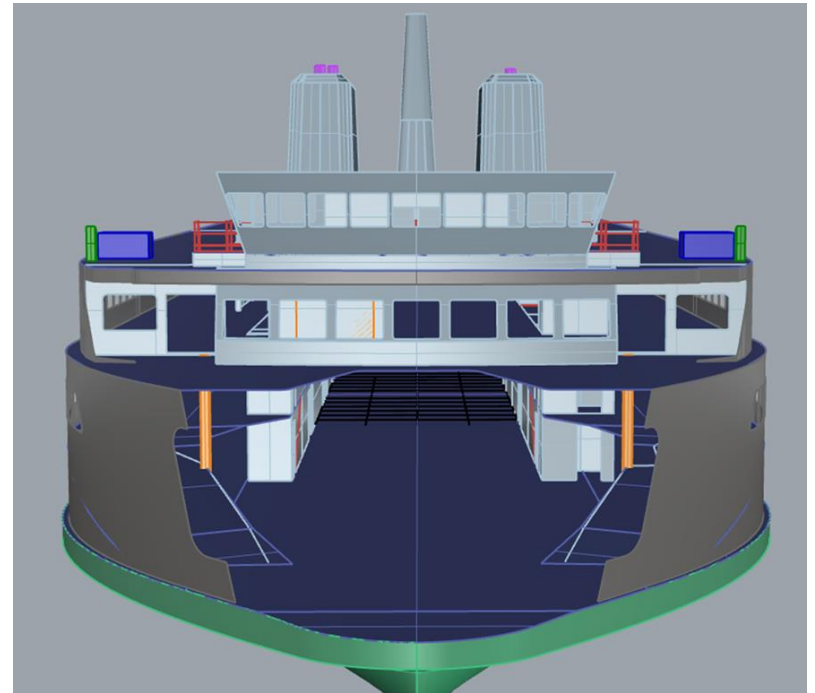
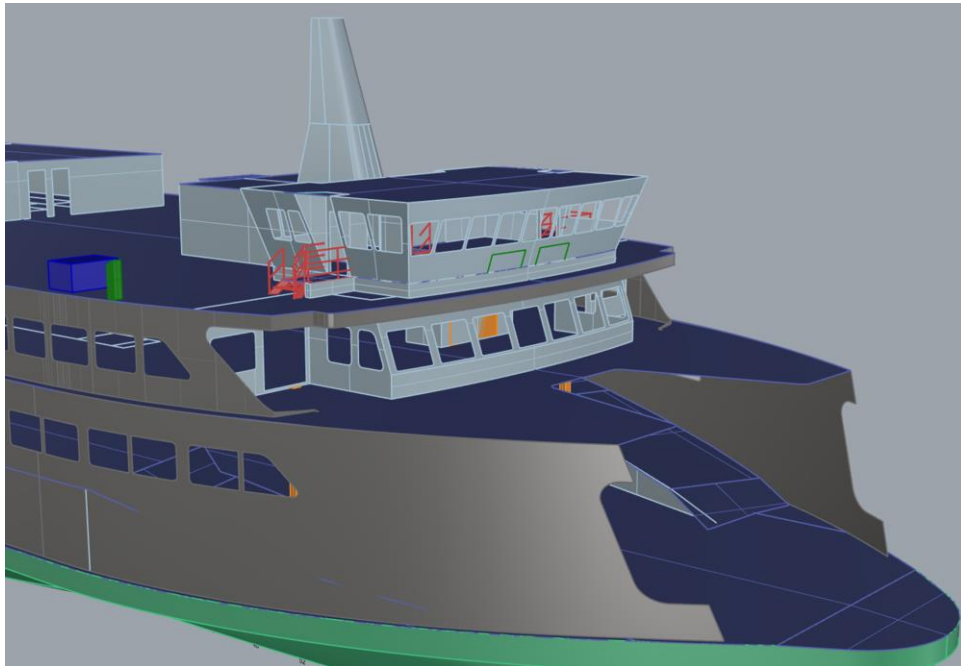
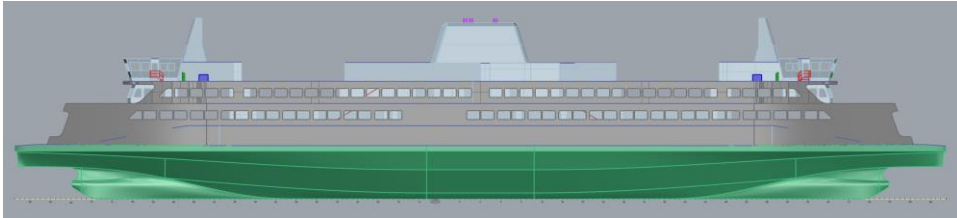
# ENSURING BEST VALUE WITHIN DESIGN-BID-BUILD DELIVERY

Design refinements to reduce risk and lower lifecycle costs

- Battery systems
- Vessel charging system
- Increase reliability
- Engineering automation and fire detection for crew reduction
- Optimize hull performance: mid-body extension, lowering pilothouse, reduce hull drag

# IN-PROGRESS RENDERING

As of September 2023



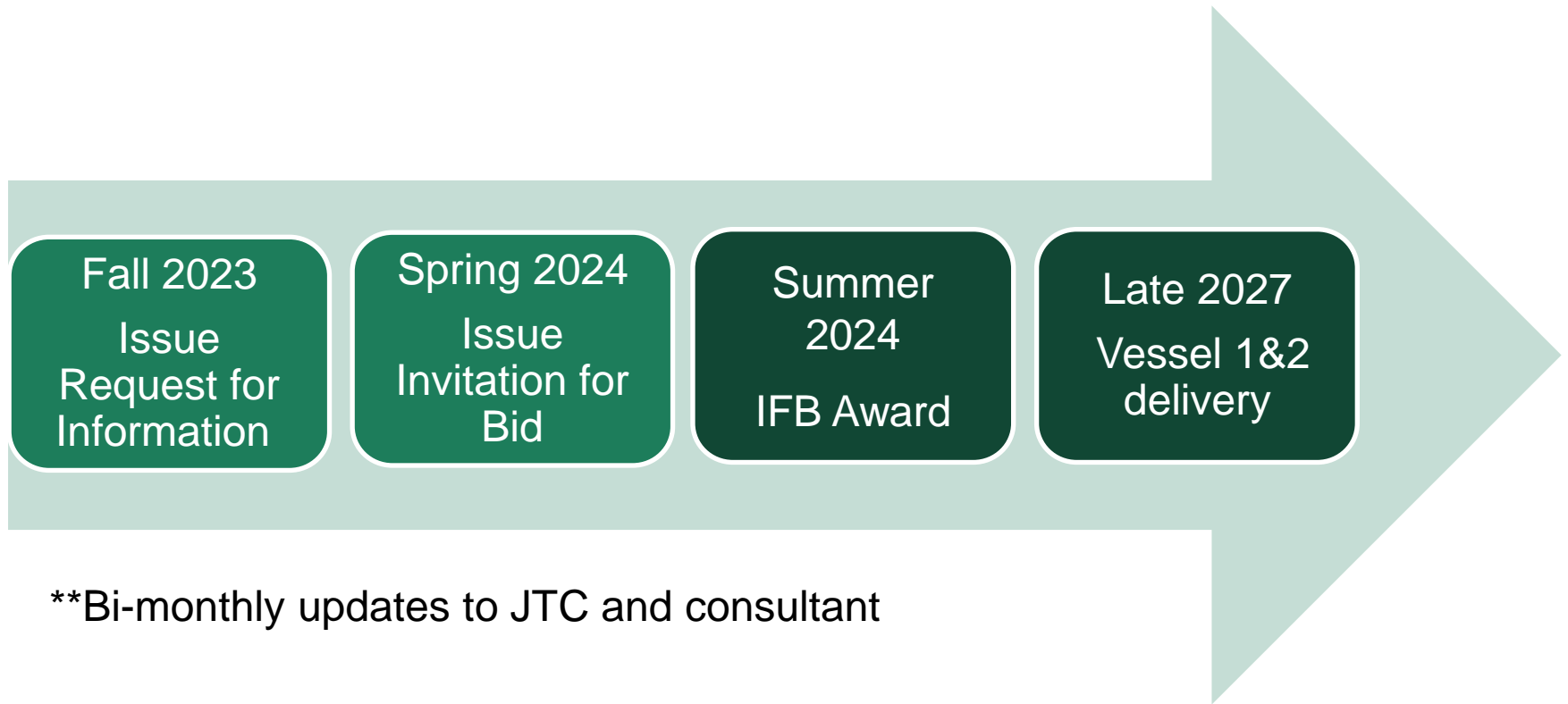
# PROPULSION SYSTEM INTEGRATOR REDUCES RISKS

- Updating design based on WSF refinements
- Equipment supplier
- Construction support (Owner's Representative)





# ESTIMATED DELIVERY MILESTONES



\*\*Bi-monthly updates to JTC and consultant

# QUESTIONS?

For additional information on  
WSF New Vessel Procurement, please contact:

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