Washington State Ferries 2040 Long Range Plan

Technical Advisory Group

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Meeting objectives

1. Confirm Technical Advisory Group roles

2. Provide background data on WSF existing conditions

3. Evaluate 2040 Plan strengths, weaknesses, opportunities, and threats

Agenda

- Welcome and introductions

- Affirm group roles and responsibilities

- Existing conditions

  - Fleet

  - Terminals

  - Origin and destination data

- SWOT analysis

- Next steps

Technical Advisory Group roles

The role of the Technical Advisory Group is to:

- Help ensure the plan uses the most up to date local, regional, and state data

- Review and provide feedback on draft plan elements

- Represent local perspectives

- Help disseminate plan updates and public involvement opportunities within local jurisdictions

- Collaboratively engage with TAG members

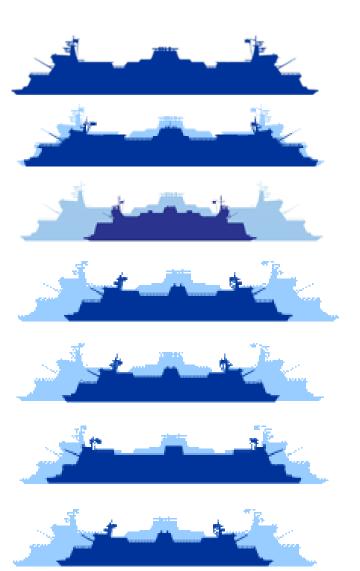- Assist in building/maintaining support for the plan

Technical Advisory Group roles

The WSF project team will:

- Provide background materials, data, and public input

- Respond to questions and requests quickly and as thoroughly as possible

- Attend TAG meetings to answer questions and inform discussion

- Consider and address TAG input when developing the plan

- Report back to TAG members on how the project team considered and addressed input in the final plan

Washington State Ferries fleet

- **Largest**
- **Large**
- **Smallest**
- **Medium**
- **Newest**
- **Old**
- **Oldest**

Jumbo Mark II

Jumbo

Kwa-di Tabil
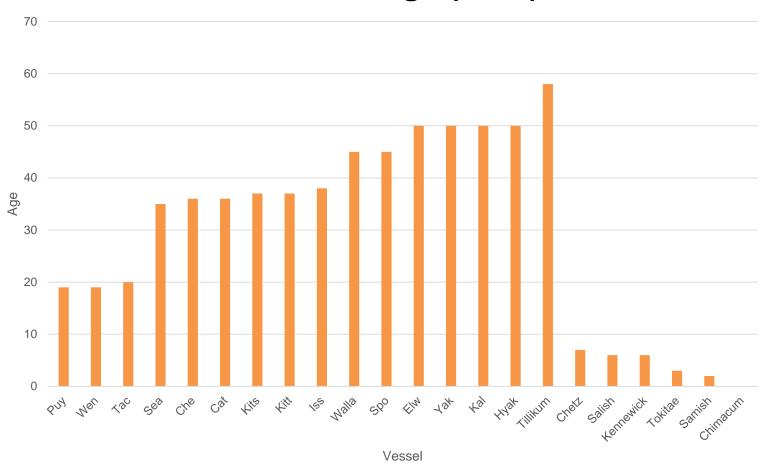
Issaquah

Olympic

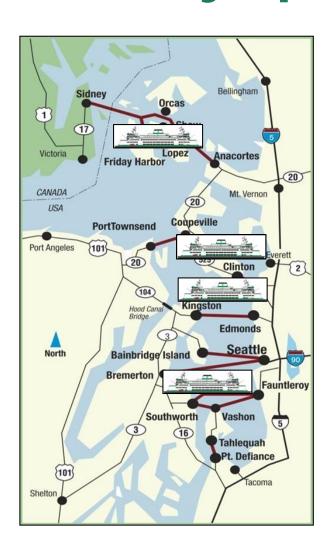**Super**

Evergreen State

Aging fleet

Vessel Age (2017)

New Olympic Class vessels

- 2014 – *Tokitae*
- 2015 – *Samish*
- 2017 – *Chimacum*
- 2018 – *Suquamish*

Oldest vessels in the fleet

- Super Class, 1967
  - M/V Hyak
  - M/V Kaleetan
  - M/V Yakima
  - M/V Elwha

- Evergreen State Class
  - M/V Tillikum, 1959

Terminals

2017 Terminal operations: 100 year seismic event

![red square] **Terminal out of service**

![green square] **Terminal remains open**
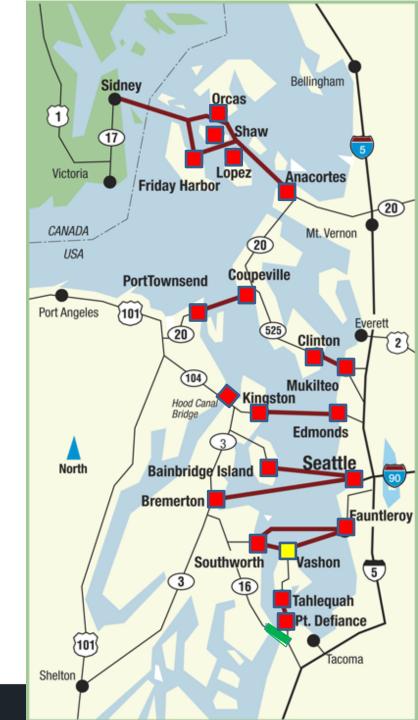(May have reduced service)

2027 Terminal operations: 100 year seismic event

🟥 Terminal out of service

🟩 Terminal remains open
(May have reduced service)

WSDOT

2017 Terminal operations: 1000 year seismic event

🟥 Terminal out of service

🟨 Terminal may require repairs

🟩 Terminal remains open

2027 Terminal operations: 1000 year seismic event

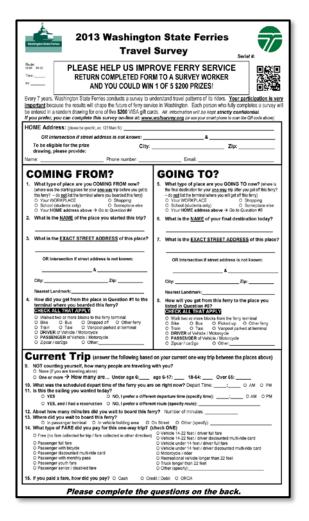🟥 Terminal out of service

🟨 Terminal may require repairs
Life Safety Design Criteria

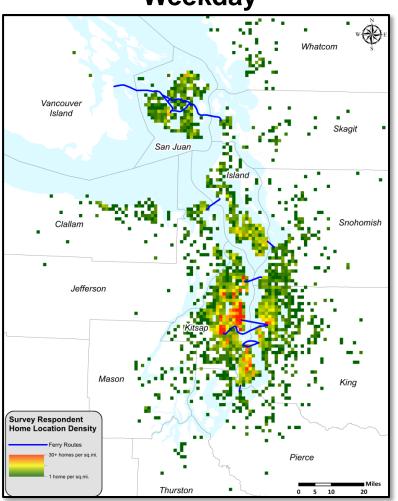🟩 Terminal remains open

WSDOT

Origin-Destination Travel Survey overview (2013)

- WSF conducts survey every 7 years to identify changing trends in ferry user travel patterns
- Topics include:
  - Trip origin and destination locations
  - Travel mode
  - Trip purpose, frequency
  - Demographics
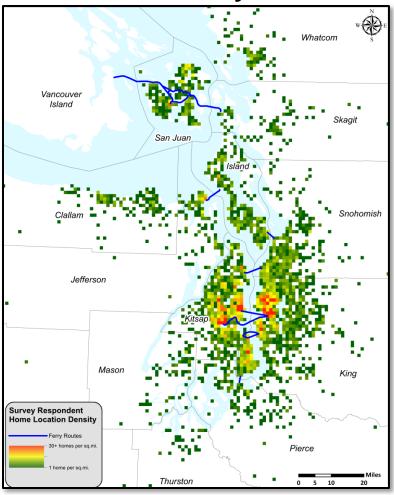- Paper and electronic format
- 16,000 completed surveys
  - Cost: $600k

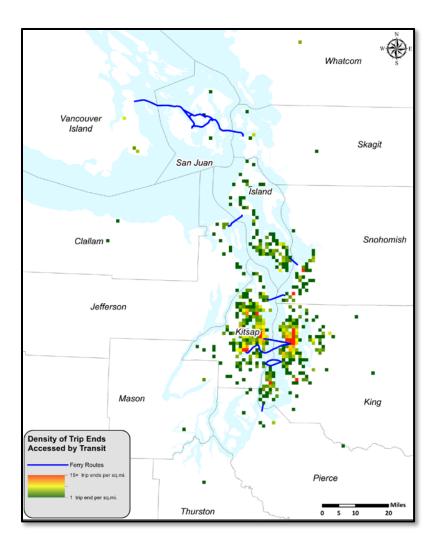# O-D Survey results: Rider home locations

Weekday

Saturday

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O-D Survey results: Transit access to terminals

- Ferry riders connecting by transit account for:

  - **13%** of weekday ridership

  - **4%** of Saturday ridership

- Transit use concentrated close to ferry terminals

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O-D Survey results: Non-motorized connections

Walk access to and from terminals:

- 15% of weekday ridership
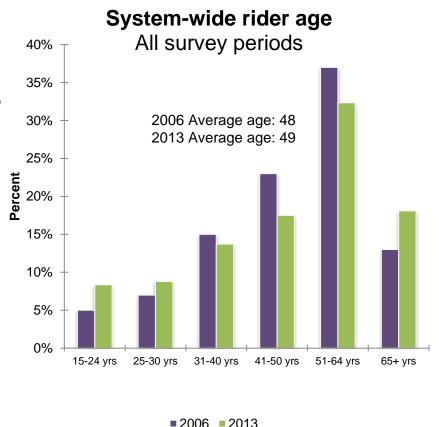- 11% of Saturday ridership

Bike access to and from terminals:

- 3% of weekday ridership
- 1% of Saturday ridership

O-D Survey results: Vehicle boardings that could shift to non-motorized

- Approximately **12%** of survey respondents who boarded by car live within 2 miles of the ferry terminal

- About **15%** of vehicle boardings have a trip origin <u>or</u> destination within 2 miles of the terminal

- **3%** of vehicle trips have both an origin <u>and</u> destination within 2 miles of the terminal
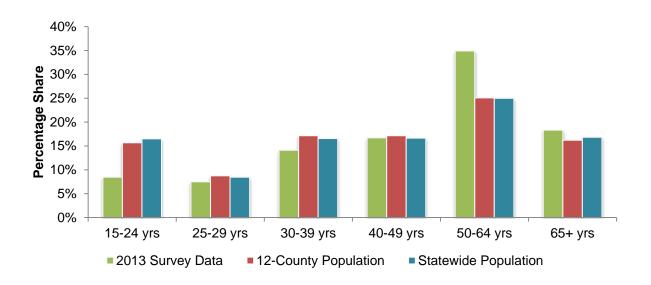
O-D Survey results: Aging population of riders system-wide

- Baby Boomers are shifting into retirement age, while Millennials are emerging as a larger group than Generation X

- **18%** of riders are retired

- Another **14%** not already retired are planning to retire in the next 5 years

System-wide rider age
All survey periods

2006 Average age: 48
2013 Average age: 49

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O-D Survey results: Aging population of riders system-wide

- Higher percentage of survey respondents in 50 to 64-year range compared to 12-county and statewide populations

Data Source: Washington State Office of Financial Management (OFM)

O-D Survey results: System-wide findings

Population growth and ridership

Year	12-county Population	System-wide Ridership
1999	3.9 million	72,200 per day
2006	4.3 million	65,300 per day
2013	4.6 million	61,700 per day
2016	4.9 million	66,315 per day

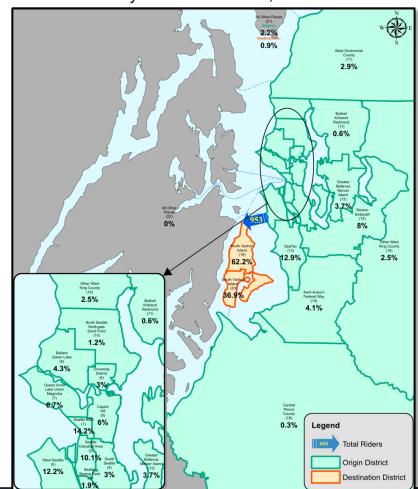# O-D Survey results: Origin and destination district maps

Seattle–Bainbridge Island
Weekday PM Peak Period, Westbound

Fauntleroy–Vashon
Weekday PM Peak Period, Westbound

Long Range Plan SWOT analysis

- Strengths (Internal)

- Weaknesses (Internal)

- Opportunities (External)

- Threats (External)

Look ahead

- WSF finalizes plan scope and hires consultant

- Next TAG meeting: November

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