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: Jumbo Mark II
- Large: Jumbo
- Smallest: Kwa-di Tabil
- Medium: Issaquah
- Newest: Olympic
- Old: Super
- Oldest: Evergreen State
Aging fleet

Vessel Age (2017)
New Olympic Class vessels

- 2014 – Tokitaue
- 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

- Terminal out of service
- 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)
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**
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
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
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 or destination within 2 miles of the terminal

• 3% of vehicle trips have both an origin and 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
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

<table>
<thead>
<tr>
<th>Year</th>
<th>12-county Population</th>
<th>System-wide Ridership</th>
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<tbody>
<tr>
<td>1999</td>
<td>3.9 million</td>
<td>72,200 per day</td>
</tr>
<tr>
<td>2006</td>
<td>4.3 million</td>
<td>65,300 per day</td>
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<tr>
<td>2013</td>
<td>4.6 million</td>
<td>61,700 per day</td>
</tr>
<tr>
<td>2016</td>
<td>4.9 million</td>
<td>66,315 per day</td>
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</tbody>
</table>
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