

MAGNOLIA BRIDGE PLANNING STUDY



PRESENTED TO THE MAGNOLIA COMMUNITY COUNCIL
MARCH 20, 2018



PROJECT PURPOSE & GOALS

Mission:

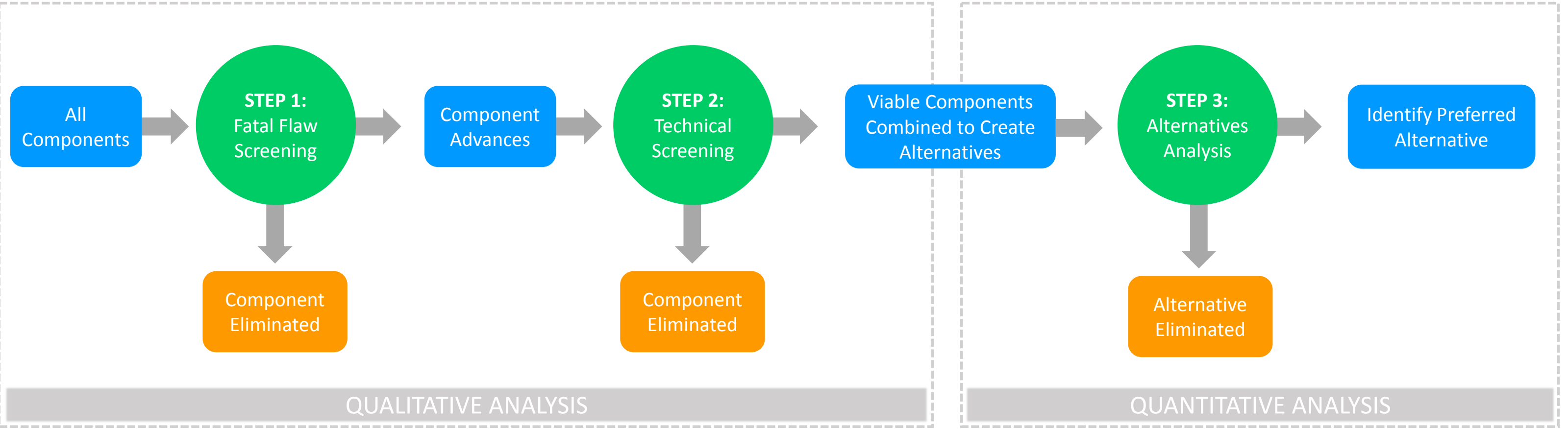
Develop an alternative that provides safe and efficient access to the Magnolia area that has stakeholder support and is financially feasible.

Project Goals:

- *Provide a safe route(s) to Magnolia.*
- *Provide reliable and redundant access to and from Magnolia.*
- *Any new route must be grade separated from the BNSF Mainline railroad tracks.*
- *Provide a route that will support Magnolia Village.*
- *Maintain or improve traffic flow on, and connections to, the 15th Avenue W corridor.*
- *Maintain access to the Smith Cove waterfront and improve connection between Magnolia and the Smith Cove waterfront.*
- *Maintain or improve access to Terminal 91.*
- *Improve the level of bicycle and pedestrian connections within and beyond the project area.*
- *Consider future ST3 light rail project when evaluating alternatives.*
- *Design an alternative that is financially feasible.*
- *Minimize or mitigate environmental impacts.*
- *Minimize disruption during construction.*



EVALUATION PROCESS



Fatal Flaw Criteria:

- Maintain access to the Smith Cove waterfront and improve connection between Magnolia and the Smith Cove waterfront
- Must be grade separated from the BNSF Mainline railroad tracks
- Maintain or improve access to Terminal 91 (T91)
- Must be financially feasible

Component to replace the existing Magnolia Bridge was considered and found to be fatally flawed

Technical Screening includes:

- Traffic operational need
- Geometric feasibility

↑
WE ARE HERE

Alternative Analysis include:

- Traffic operations metrics (travel time, intersection delay, etc.)
- Cost Estimates
- Right-of-Way Impacts
- Construction Disruption and Duration

PROJECT COMPONENTS



Component 1: West Uplands Perimeter Road

- New roadway parallel to existing Elliott Bay Trail
- Required to provide access to/from Elliott Bay Marina and Smith Cove
- Required to provide access between Magnolia and Elliott Bay Marina and Smith Cove
- Only works in conjunction with other components

PROJECT COMPONENTS



PROJECT COMPONENTS



Component 3: Dravus St Improvements

- Improves existing access to/from Magnolia
- May include upgrades to intersections at 15th Ave W and 20th Ave W and/or the Dravus St Bridge
- Conceptually component works independently

PROJECT COMPONENTS



PROJECT COMPONENTS



Component 5: Armory Way Bridge

- Provides new access to/from Magnolia
- Options for 15th Ave W access include intersection treatment (5A) or braided fly-over ramp (5B)
- Conceptually component works independently

PROJECT COMPONENTS



PROJECT COMPONENTS



Component 7: Magnolia Bridge Segment

- Improvements to existing Magnolia Bridge segment
- Provides direct access to/from Port properties
- Provides partial access to/from Magnolia in combination with other components
- Relieves pressure on Galer Street Flyover
- Particularly important to freight traffic
- Conceptually component works independently however, if intended for public use, only works in conjunction with other components



PROJECT COMPONENTS



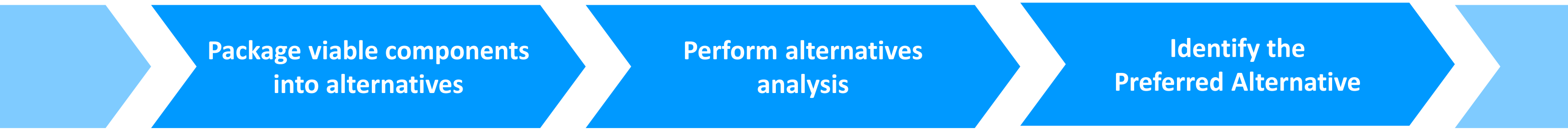
Component 8: Alaskan Way Connector

- Extend portion of Alaskan Way
- Provides access between Port property/Magnolia Bridge segment and Galer St Flyover
- Provides partial access to/from Magnolia in combination with other components and/or the Galer Street Flyover
- Relieves pressure on the Galer St Flyover
- Only works in conjunction with other components

PROJECT COMPONENTS



NEXT STEPS



ALTERNATIVE ANALYSIS METRICS:

Mobility and Connectivity

- *Vehicular Access to and from:*
 - *Magnolia*
 - *Marina/Waterfront*
 - *Terminal 91*
- *Traffic Flow on 15th Avenue*
- *Bicycle and Pedestrian Connections*
- *Transit Access*

Environmental Impact

- *Adjacent Land Use (Acquisition, Noise, and Visual)*
- *Sensitive Areas (Cultural, Historic, and Natural Resources)*
- *Natural Hazards (Steep Slopes and Seismic Susceptibility)*

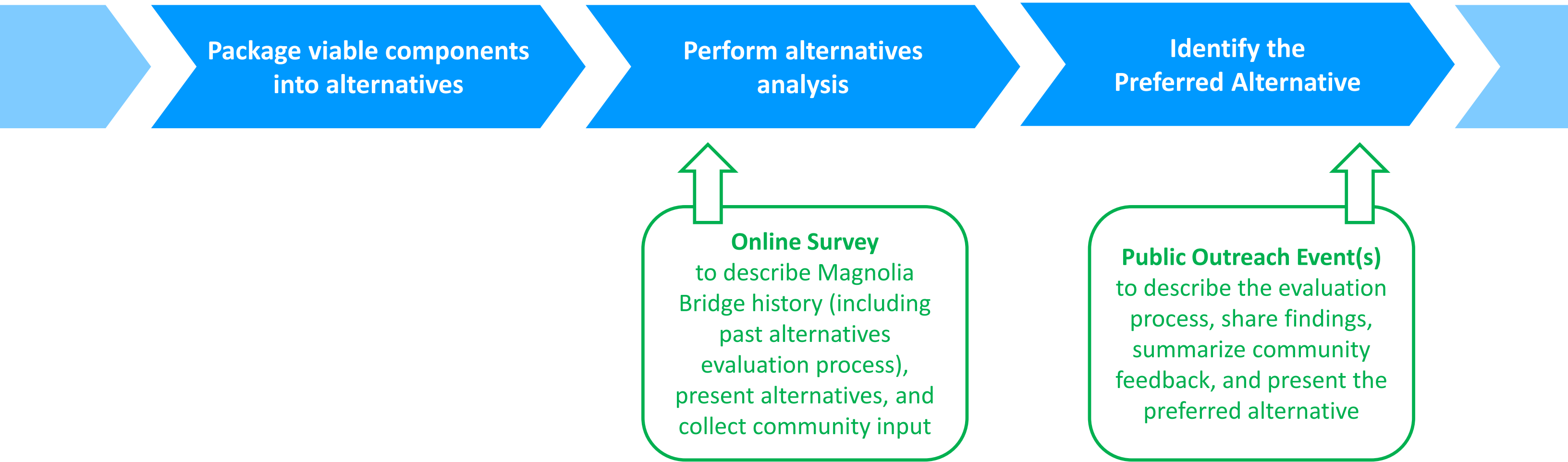
Implementation Characteristics

- *Project Cost*
- *Construction Duration and Impact*
- *Stakeholder Support*

Other Considerations:

- *Neighborhood Advisory Committee (NAC) Agreement*
- *Sound Transit’s Link alignment*
- *Freight access and Port security protocol*

NEXT STEPS



THANK YOU

QUESTIONS?



Wes Ducey, Project Manager
Seattle Department of Transportation
wes.ducey@seattle.gov
206.684.7033