Study Introduction:
SamTrans Adaptation & Resilience Plan

Board of Directors
May 2019
Study Scope

- The study will analyze SamTrans facilities’ vulnerability to climate change impacts, including extreme heat and sea level rise, storm surge and flooding.
- The study will identify, evaluate and estimate costs for adaptation strategies to make SamTrans more resilient to these impacts.

**Study Cost $218,120**

**Awarded October 2018**

<table>
<thead>
<tr>
<th></th>
<th>Caltrans Grant</th>
<th>SamTrans Match</th>
</tr>
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<tbody>
<tr>
<td>$193,102</td>
<td>$25,018</td>
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Study Purposes

- Advise the Board of the scale of climate risks facing the organization
- Minimize the cost of climate impacts to SamTrans
- Inform short-, mid- and long-term capital investment, facilities and operational decisions
- Provide Action Alternatives that can be integrated into planning and policy
- Identify opportunities for SamTrans to mitigate climate impacts
What Other Agencies Have Done

- Integrated resilience into asset management
- Created resilient design standards
- Invested in new resilient infrastructure
- Prepared for long-term disaster management
- Modified or moved operations
- Hardened infrastructure
San Mateo County Projected Climate Change Impacts

“Local Roads & Public Transit Assets in Project Area”

County of San Mateo Sea Level Rise Vulnerability March Assessment 2018
<table>
<thead>
<tr>
<th>Date</th>
<th>Project Title</th>
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</thead>
<tbody>
<tr>
<td>February 2017</td>
<td>Climate Change and Health Profile Report San Mateo County</td>
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<tr>
<td>March 2018</td>
<td>San Mateo County Sea Level Rise Assessment</td>
</tr>
<tr>
<td>2010 - Present</td>
<td>Adapting to Rising Tides</td>
</tr>
<tr>
<td>2017 - Present</td>
<td>Resilient By Design</td>
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<tr>
<td>2019 - Present</td>
<td>Sea Change San Mateo County</td>
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</table>
SamTrans Coordinating Regionally

- SamTrans Working Group
- Local SB1 Grantees
- Municipal Planning
- Resilient By Design
- Transportation Working Group
- Adapting to Rising Tides

SMC Climate Collaborative
Project Management Structure

SamTrans Board of Directors

General Manager
Jim Hartnett

Executive Steering Committee
Carter Mau (Deputy GM)
April Chan (Planning)
Derek Hansel (Finance/Treasury)
David Olmeda (Operations)
Seamus Murphy (Communications)

SamTrans Project Management Team
Amelia Timbers (Planning, Sustainability)
Christy Wegner (Planning Director)

Advisory Team/ TAC
Representatives from:
- Caltrans
- SamTrans Facilities
- San Francisco Airport
- San Carlos Airport
- City of South San Francisco
- City of San Carlos
- County of San Mateo
- BCDC Adapting to Rising Tides
- Resilient By Design
- MIG

Louis Berger/ WSP Consultant Support
# Study Deliverable Schedule

<table>
<thead>
<tr>
<th>Month 2019</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>July 2019</td>
<td>North and South Base Sea Level Rise, Storm Surge and Fluvial Vulnerability Assessment</td>
</tr>
<tr>
<td>December 2019</td>
<td>SamTrans Heat Vulnerability Assessment</td>
</tr>
<tr>
<td>January 2020</td>
<td>Event Scenario Memo</td>
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<tr>
<td>February 2020</td>
<td>Workshops Discussing Study at Bus Bases</td>
</tr>
<tr>
<td>July 2020</td>
<td>North &amp; South Base Sea Level Rise, Storm Surge, Flood and Heat Action Alternatives</td>
</tr>
<tr>
<td>October 2020</td>
<td>Action Alternatives Lifecycle Cost and Benefit Evaluation</td>
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<tr>
<td>February 2021</td>
<td>Final Adaptation &amp; Resilience Plan</td>
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<tr>
<td></td>
<td>Description</td>
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</tr>
<tr>
<td>May 2019</td>
<td>Study Introduction</td>
</tr>
<tr>
<td>Spring 2020</td>
<td>Update Board on Key Findings of Interim Deliverables</td>
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<tr>
<td>Spring 2021</td>
<td>Adopt Study</td>
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</tbody>
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Questions?

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Principal Planner, Sustainability
timbersa@samtrans.com
(650) 508-7713