Adaptation Road Map
Data-Driven Climate Planning for Regional Transportation
Sacramento Area Council of Governments (SACOG)

Mapping the Route

Climate Impacts Report
• Used Cal-Adapt, GIS, and Excel to develop region-specific projections
• Impacts included temperature rise, changes in precipitation & runoff, and increased risk of wildfire & landslides
• Compiled findings in technical paper

Transportation Infrastructure Research
• Evaluated asset types such as roads, bridges, railways, facilities, and transit
• Studied effects of both short-term catastrophic events and long-term gradual climate trends
• Needs more detailed asset-level analysis

Adaptation Options Report
• Framed through four approaches: maintain & manage, strengthen & protect, enhance redundancy, retreat
• Researched existing & new techniques
• Collected potential set of options for each climate impact

Ask for Directions!

CHALLENGES
Transportation climate adaptation is a newly emerging practice. There are no standard metrics, data is scarce and scattered, and local climate projections are uncertain.

OPPORTUNITIES
The next phase the project will emphasize stakeholder engagement to encourage regional collaboration in creating a comprehensive and regionally relevant assessment.

Lessons Learned

Laura Moser entered CivicSpark after studying Civil and Environmental Engineering and working in construction site environmental compliance. Following her service year, she will be exploring Chile for several months before pursuing a career at the intersection of engineering and environmental policy.

Are We There Yet?

We recently celebrated the unanimous adoption by the SACOG Board of Directors of our Sacramento Area Transportation Climate Adaptation Plan (pictured right). However, this is a high-level plan, and much work remains to implement the adopted adaptation measures. The next step is to conduct an asset-level vulnerability assessment to more thoroughly evaluate climate impacts on critical infrastructure.

Next Steps