

# EQI User Guide | Test Exercises

**Instructions:** The following exercises are designed for the EAC Data Implementation Subcommittee members to serve as test users of the Draft EQI User Guide. Please refer to the user guide, EQI web map, and EQI analytical tool (beta) when completing these exercises.

## Exercise #1: Identifying Underserved Communities

### Hypothetical Project: East Bay Bus Rapid Transit (BRT) Expansion

#### Project Description:

This is a proposed Bus Rapid Transit (BRT) line that will run along International Blvd in Oakland, extending into San Leandro. The line will run from the intersection of International Blvd & 1st Ave in downtown Oakland to East 14th St & Davis St in San Leandro. The BRT line will improve transit access, reduce commute times, and serve transit-dependent populations.

**Prompt:** You are evaluating the proposed transportation project.

**Objective:** Determine whether the project is located within an EQI-identified underserved community.

#### Steps:

1. Open the EQI web map.
2. Locate the project area.
3. Turn on the "Underserved Communities" layer.

**Output:** Is the project located within an EQI-identified underserved community?

Yes  No

#### Discussion Questions:

- How easy was it to locate the project?
- What challenges did you encounter when interpreting the layer?

## Exercise #2: Identifying Transportation Burdens

### Hypothetical Project: State Route 99 (SR-99) Multimodal Corridor Improvement

#### Project Description:

This is a proposed transportation improvement project along State Route 99 in Fresno, extending approximately from the SR-99 & Clinton Ave interchange to the SR-99 & Jensen Ave interchange, including key on- and off-ramp intersections at McKinley Ave, Belmont Ave, and Ventura Ave. The project includes adding dedicated bus lanes, improving pedestrian crossings, upgrading bike infrastructure, and implementing traffic calming measures along key segments of the corridor.

**Prompt:** You are evaluating the proposed transportation project.

**Objective:** Determine whether the project location meets any of the EQI criteria based on the EQI map layers.

#### Tasks:

1. Open the EQI web map.
2. Locate the project area.
3. Turn on the "Traffic Exposure" layer.
4. Turn on the "Access to Destinations" layer.
5. Turn on the "Transportation-Based Priority Populations" layer.

**Output:** Does the project location meet any of the EQI criteria?

Yes  No If yes, which layers apply?

#### Discussion Questions:

- How easy was it to locate the project?
- What challenges did you encounter when interpreting the layers?

## Exercise #3: Screening for SB 960 Eligibility

### Hypothetical Project: State Route 99 (SR-99) Multimodal Corridor Improvement

#### Project Description:

This is a proposed Complete Streets project along California State Route 99 in Fresno, extending approximately from the SR-99 & Herndon Ave interchange to the SR-99 & Kings Canyon Rd interchange, including key on- and off-ramp intersections at Shaw Ave, Olive Ave, and Ventura Ave. Improvements include sidewalks, protected bike lanes, upgraded crosswalks, and transit priority features.

**Prompt:** You are evaluating the proposed transportation project with Complete Streets features (e.g., sidewalks, crosswalks, bike lanes) to determine the level of engagement that's needed. SB 960 requires targeted engagement to be conducted for projects with Complete Streets features that impact underserved communities. Projects are assumed to have an impact on underserved communities if the project is located within 500 meters (1,640 feet) of one or more underserved communities.

**Objective:** Determine SB 960 eligibility based on the proximity of this project to underserved communities.

#### Tasks:

1. Download the EQI Version 1.0 spatial data.
2. Open the data in ArcGIS Pro or other spatial analysis software package.
3. Use the SB 960 screening instructions to determine whether the project is within 500 meters (1,640 feet) of one or more underserved communities.

**Output:** Is the project located within 500 meters of an underserved community?

Yes  No

#### Discussion Questions:

- How intuitive was the distance/proximity analysis?
- What additional tools or features would improve this task?

## Exercise #4: Interpreting the EQI Analytical Tool Results

### Hypothetical Project: State Route 152 (SR-152) Complete Streets & Safety Enhancement

#### Project Description:

This is a proposed safety and multimodal improvement project along California State Route 152 (SR-152) in Gilroy, extending approximately from the SR-152 & Santa Teresa Blvd intersection to the SR-152 & Uvas Pkwy intersection, including key intersections near Monterey Rd and First St. The project includes new sidewalks, protected bike lanes, improved crosswalks near schools and commercial areas, bus stop upgrades, and speed reduction measures.

**Prompt:** You are scoping a proposed transportation project to determine its community impact.

**Objective:** Understand how project components influence transportation burdens and benefits.

#### Steps:

1. Follow the user guide instructions to input a project into the EQI analytical tool.
2. Download the project report generated by the EQI analytical tool.
3. Review the relevant EQI indicators in the project report.
4. Identify relevant equity impacts based on the project components.

#### Output:

- List the key EQI indicators affected by the proposed project.
- Briefly describe the nature of the impact (positive, negative, or neutral).

#### Discussion Questions:

- Was the report easy to interpret? Why or why not?
- What additional information, if any, would you need to more clearly interpret the report?