

Final Project



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01
 THE PROBLEM
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The Problem:

Poorly Lit Pathways... Creates unsafe atmosphere for 01 pedestrians, runners, and bicyclists Prevents residents from utilizing SRT, thus limiting the social and 02 economic potential of nighttime vitality Perpetuates inequities 03 between more affluent areas and low income areas along the SRT







02 [OUR MOTIVATION]

1 Cultivating Safer, More Inviting Public 2 Spaces

The Covid-19 pandemic highlighted the need and importance of maintaining and creating safe, free, and accessible public spaces within cities. Providing a more inviting environment along the SRT could increase night light activity & create a sense of community among residents & visitors. Particularly with Philadelphia, cities with large rivers tend to have historically been sites of heavy industrialization. Now that cities are evolving and there is less of a need for those industries, activating these spaces as places that are enjoyable and interactive can be beneficial to residents and city economies.



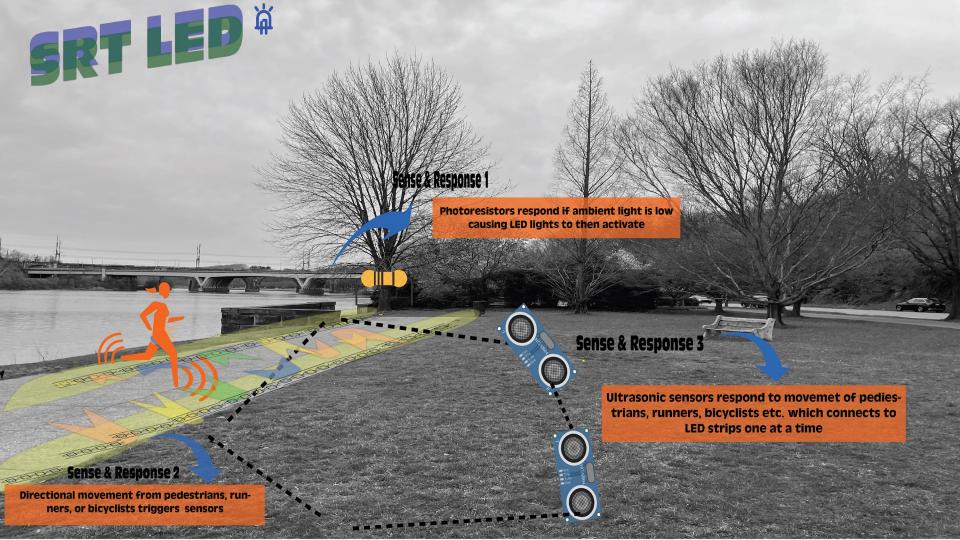
[SITE LOCATION]

Location



04

[THE DIAGRAM]







Photoresistor

senses ambient light



if low, responds by allowing power to motion sensors



Ultrasonic Sensor 1

senses movement

Ultrasonic Sensor 2

senses movement





respond with light when first PIR sensor activates

Adjacent LEDs LEDs along path

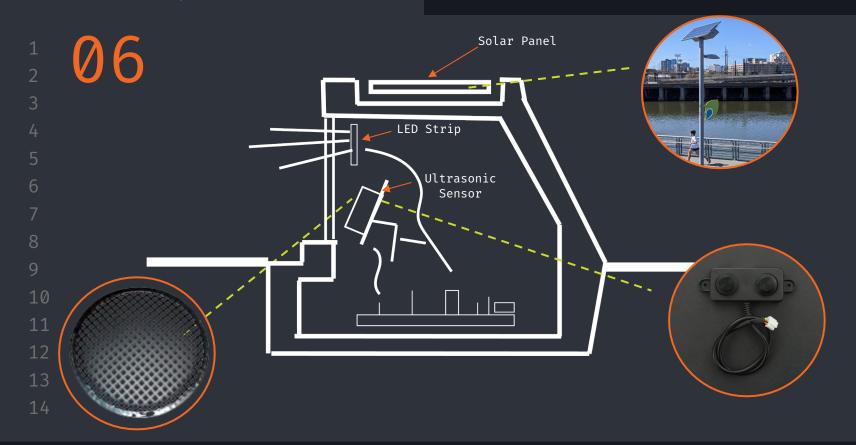
Responds with light in movement direction when second ultrasonic sensor activates

Motion sensor and LED icons by Arthur Shlain/The Noun Project

06

[SCALING UP]

How would this work in the real world?



06 LET'S SEE HOW IT WORKS!

