

# PROJECT PROFILE

## SIDEWALK LABS

Toronto, Ontario, Canada



**Mitigating the most uncomfortable conditions can make a meaningful difference in the time that outdoor areas can be utilized by residents for business and recreation.**



**RWDI worked alongside Partisans Architecture, BBB Architects and Public Work (landscape architects) to help Sidewalk Labs identify ways to significantly increase the annual number of “thermally comfortable” daytime hours in Toronto’s Quayside neighbourhood.**

RWDI developed passive strategies moderate people’s experience of weather and climate, managing wind, rain and sun exposure, while

consuming little or no energy. Our team carried out computational fluid dynamics (CFD) and solar modeling work to validate the efficacy of various approaches – first modeling the baseline weather and climate conditions in the Quayside neighbourhood, and then assessing how our interventions, such as canopies, heat lamps, and the orientation of streets and buildings, would affect the human experience.

### SERVICES

Microclimate studies