# Mission Statement

In just a few months Toronto will be the proud host of the world’s third largest international multi-sport games. Inspired by the 7,000 athletes that will travel to Toronto to put their training, skills and perseverance to the test, we have created this ***Bike to the Pan Am Games***application. We seek to provide users with a handy tool to attend events utilizing the Toronto’s Bike Share program. By providing a live feed of available bikes at each Bike Share terminal, bike friendly routes spreading in Toronto, as well as 500 m and 1 km buffers around each Games venue, it is our goal that users will be able to easily determine how to navigate their way to an event by bicycle.

# “Bike to the Pan Am Games” Characteristics

The data for this application was obtained from Toronto’s Open Data website, as well as Pan Am Games website. From the Open Data website, we downloaded a shapefile containing the Pan Am Games venues in Toronto, an XML live feed for Bike Share Toronto, and another shapefile of Toronto’s bikeways. Event information was extracted from Pan Am Games website with the help of an ArcGIS Script tool. The venues shapefile was joined to the events table so our published Feature Layer contains both information.

The purpose of our application is to provide attendees of the games with valuable information about the events and to encourage them to take advantage of Bike Share Toronto and the area’s bikeways. With live information, a user can determine the current number of available bicycles and docks at each Bike Share terminal. When clicking on a terminal, they can learn its location, the number of bikes and docks that are available, and the terminal’s number. This will ensure that people travelling in groups will find a terminal with enough bikes. With well configured pop-ups, the attendee can also view easily the locations that different sporting events take place. More specifically, they can review the type of event occurring, the date, venue name, address, a link to the municipality’s website, and an image of the venue linked to the venue’s website. By including the bikeways in the Toronto area, cyclers can plan their route to the event they are attending. Although it may not be feasible for those that are attending games outside of Toronto to utilize the Bike Share program, our hope is that by showing how many terminals there are and the ease with which bikeways can be accessed, those that are in the downtown area will take advantage of this awesome resource.

The user could benefit from many configured widgets in the application, including *Query*, *Legend*, *Layer List*, *Directions*, *Bookmark*, *Basemap*, and *About*.

An appealing feature of our Pan Am Games app is that the user can query information about the events by the event itself, the date, or the venue. The results appear on both panel and map for the user to view. For example, if you wanted to catch a boxing match, you would select Search by Event, choose Boxing from the drop down list, and click Apply. Now you can browse the ten boxing events in Oshawa. If someone else were only in town for the weekend, they could select Search by Day, choose July 18, Saturday, apply, and then have access to all events on this day. Clicking on one entry in the panel, the map will zoom to that event.

The Legend contains the symbology for the Pan Am Games, obtained from the Pan Am Games website. It also displays the graduated symbols for the Bike Share terminals. These are displayed based on the number of available bikes, where the larger symbols represent terminals with a larger number of available bikes. Another appealing aspect of this application is that this layer is dynamic and changes as the Toronto Bike Share updates their data. This widget also communicates that the bike friendly routes are highlighted by a light green colour.

The Layer List widget allows the user to turn layers on and off as they need. For example, the user may check the 500 m venue buffers to examine what are nearby.

The Directions widget allows you to find directions between destinations if you are driving a truck, a car, or walking. Unfortunately, there is not an option for biking, but the user may get sufficient information through overlay other travel routes on top of bike friendly routes. They can also choose destinations by clicking on a venue or Bike Share terminal on the map.

We have also included the widget that allows the user to change the basemap, read information about our cool web mapping application, and select pre-made bookmarks for areas of interest. They can also add their own bookmarks, if for example they plan to attend many hockey events.