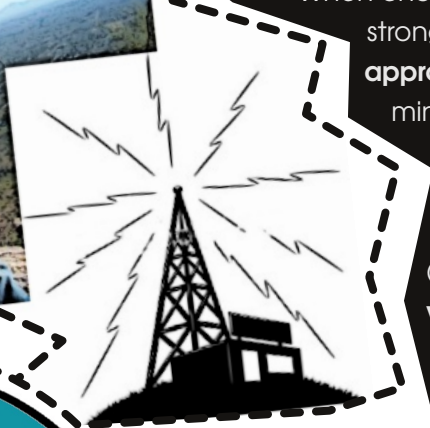
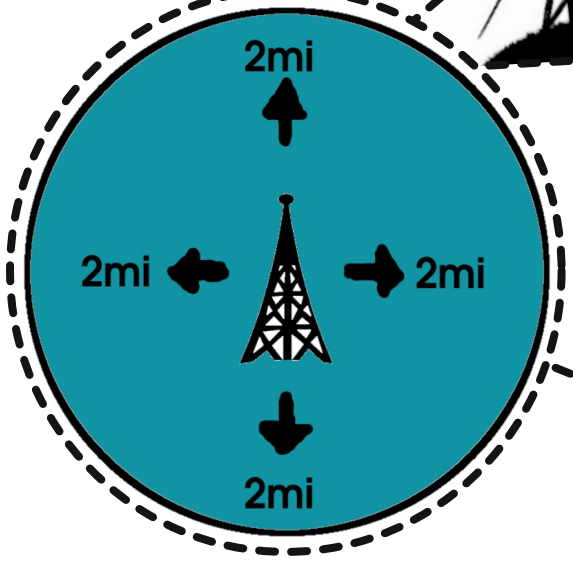


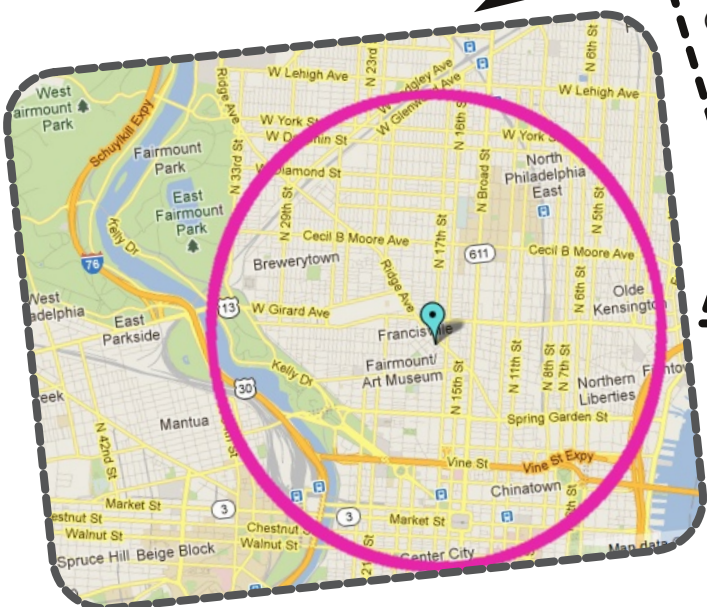
How to define area of coverage and ideal antenna location for your LPFM!!!



Find an Antenna Location
An antenna location is the place where you will also place your transmitter.
When choosing this location keep in mind that the strongest signal will cover an area of approximately 2 miles in radius. Keep this in mind when you look for an antenna site.
Define area of coverage
Draw a circle of 2 miles radius on a map that represents the area (neighborhoods) that you want to serve with your radio signal. Now try to look for places that will potentially cover those neighborhoods, tall buildings, structures that you potentially would have access to.



You can draw circles on a map by hand, or you can use an image editor. The important information that you need in order to determine your circle is that the neighborhoods that you want to serve are inside of this circle. If somebody is helping you to find an available channel and transmitter site for your radio project, it would be very important to get the exact location of the center of the circle. You can determine this location by getting coordinates or by the name of intersections (streets) right at the center of the circle.
Drawing simple polygons also could be very useful for anyone helping you determine an ideal transmitter antenna site. It is very easy to draw polygons using google maps. The following page is a simple guide showing how to use this tool and share your polygons.

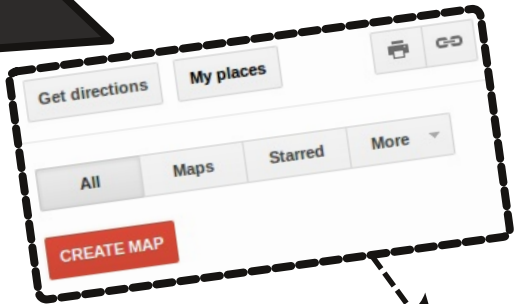


Check this out!!!
<http://radiospark.org>

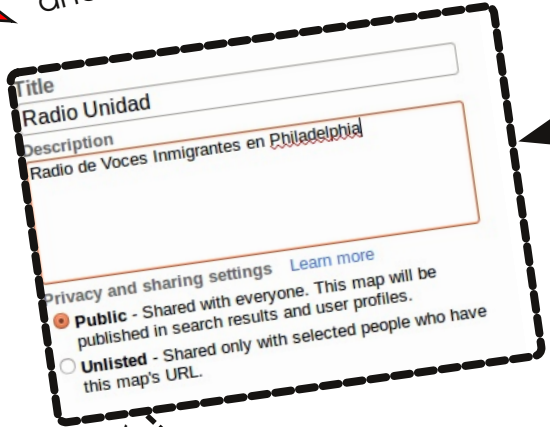


Drawing polygons!!!

1 Go to <https://maps.google.com/> and click on **Create a map**

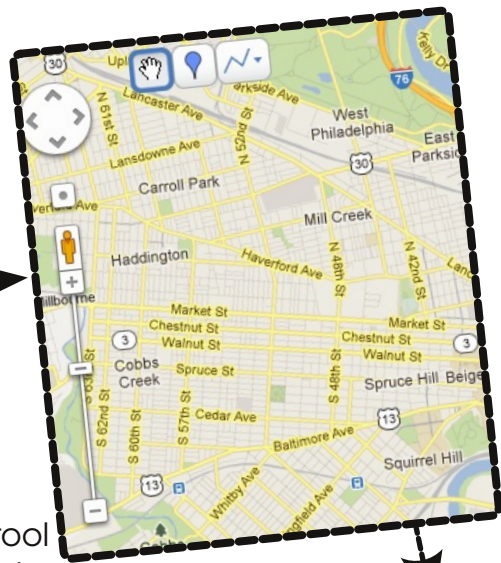


2 name your project and add a brief description

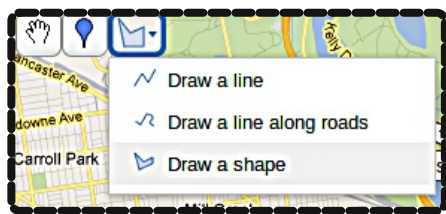


your map

will look something like this



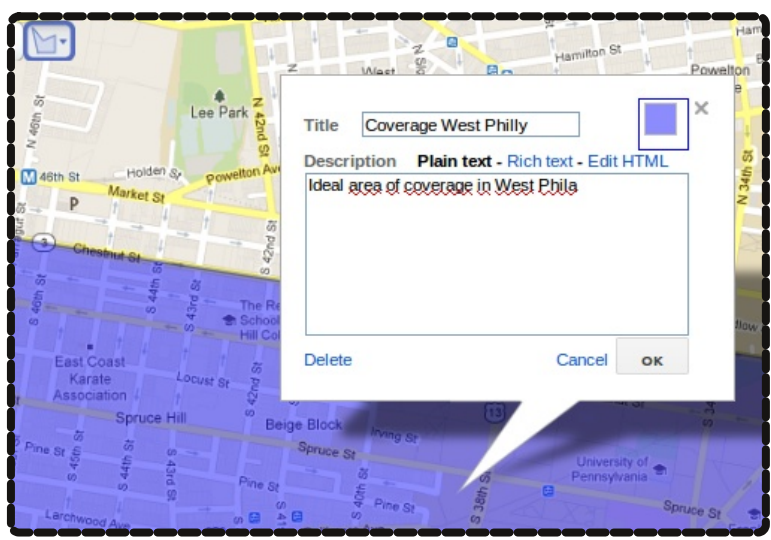
draw your polygons



select the draw a shape tool

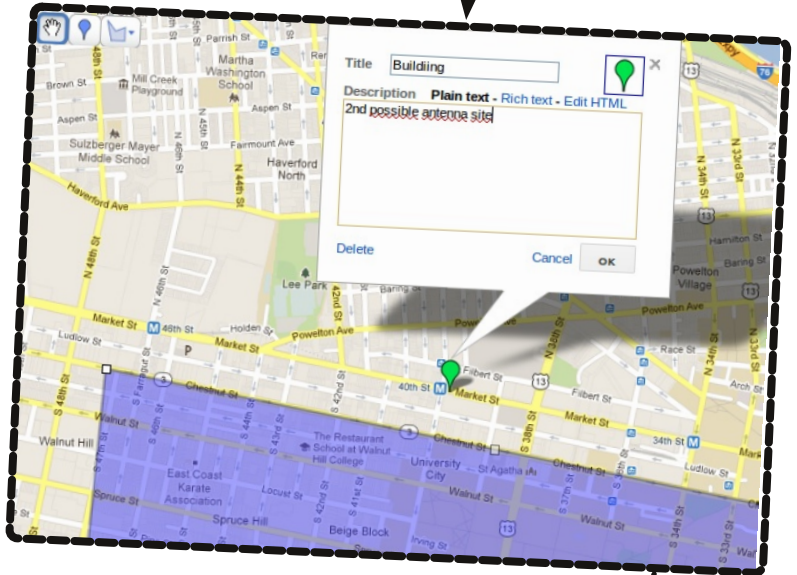
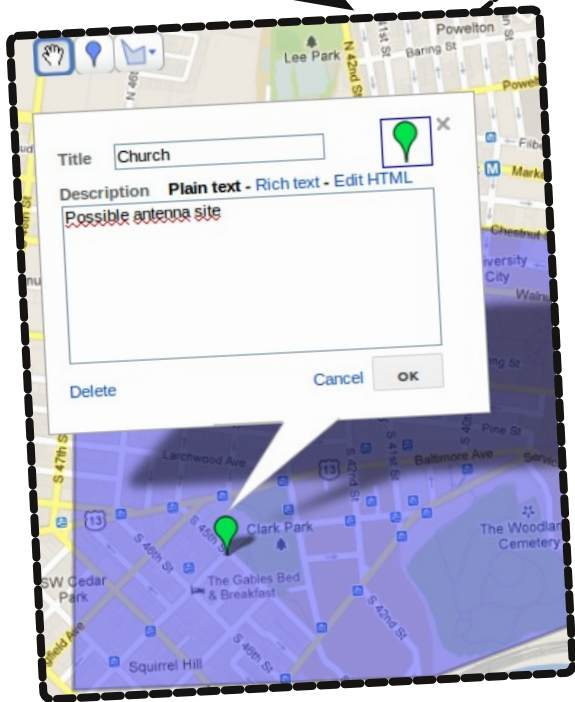
draw your polygon! Make sure to include all the neighborhoods you want to cover with your radio signal

name your polygon and add a brief description

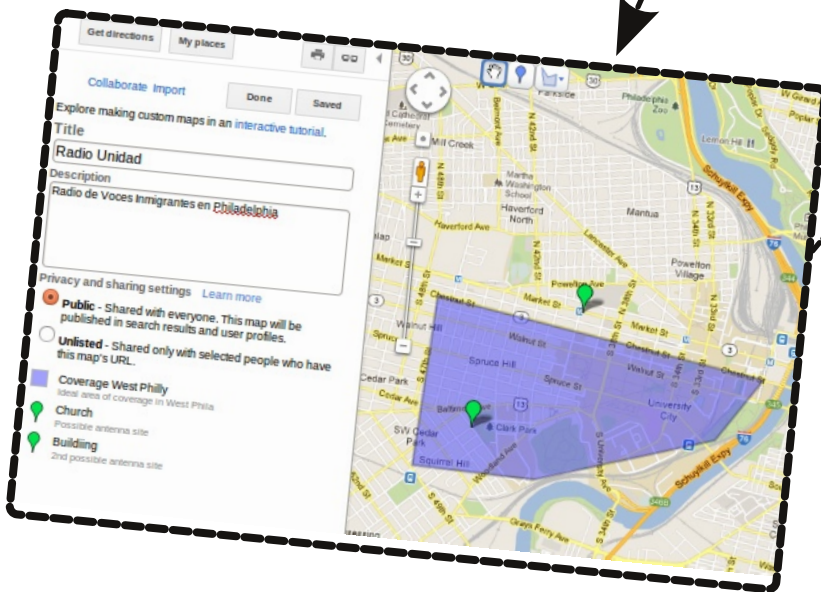


4 on the map, tag sites where you could potentially place your antenna (buildings, existing towers, etc) !!! Use the tag tool

you can tag several different places you have in mind and/or several potential antenna sites. They don't need to be inside of the polygon, but don't go too far!!!



your map will look something like this



5

Copy the link to your map. That way you could share it with engineers and with Prometheus!!!



Yay!!! You just drew a polygon and defined an area of coverage for your radio station!!



take the airwaves!!!



<http://prometheusradio.org>