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Adaptive Response Modeling Using GIS

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Adaptive Response Modeling using GIS

Bike GIS: BRB Reflection

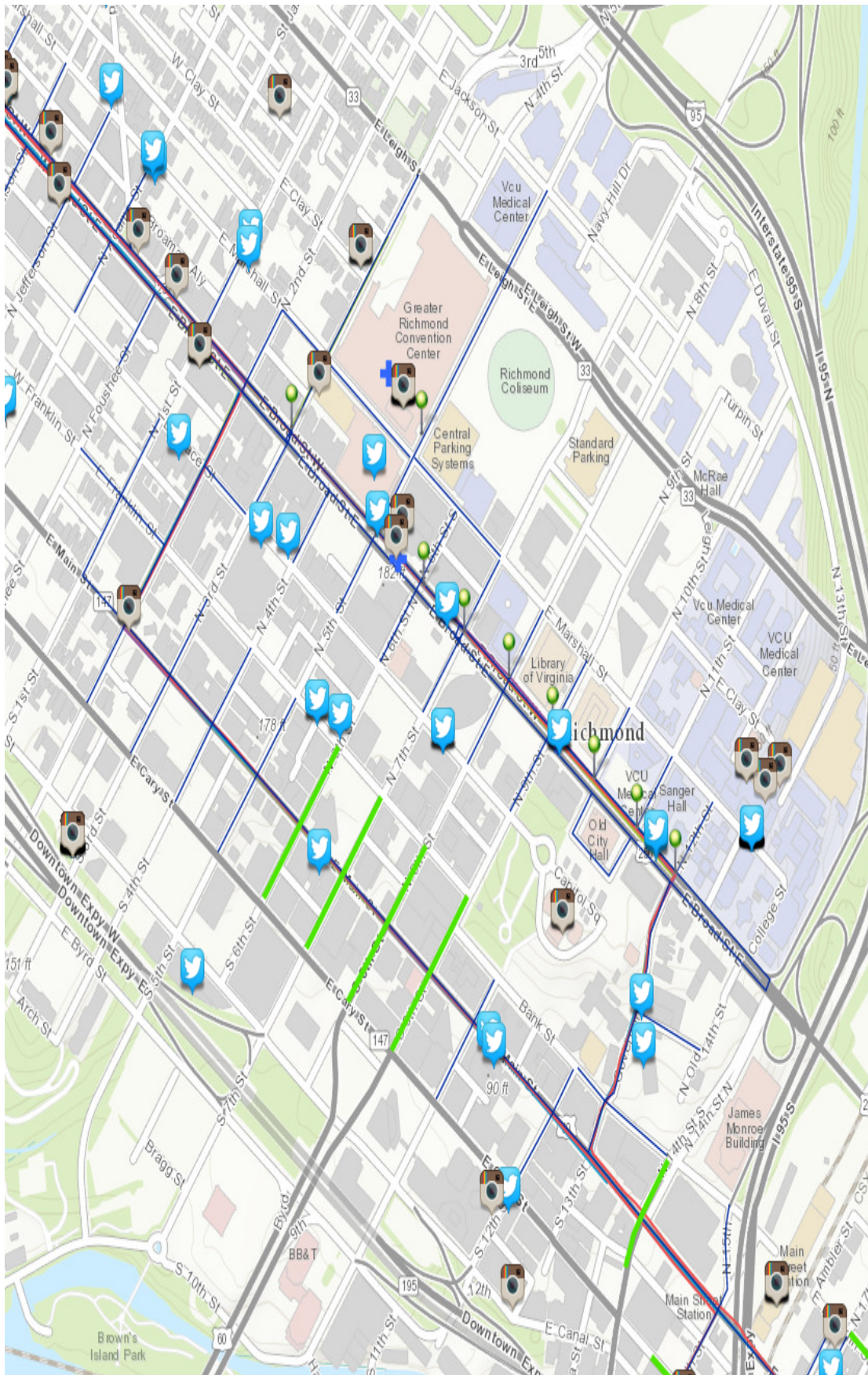
One Part of the Whole



— Image courtesy of Courtney Gabriel's blog
<http://rampages.us/gabrielcj/2015/10/05/>.

The 2015 UCI ([Union Cycliste Internationale](#)) Road World Championships came to our hometown of Richmond, Virginia in September. The influx of spectators and sheer reach of the bike race created a unique learning opportunity for the VCU community. Our course, Adaptive Response Modeling course, also known as Bike GIS, was a class created to introduce students to the use of spatial and analytical thinking applied in the context of geospatial technology to create an adaptive response model of the event. The bike race was a perfect, real life situation we were able to leverage in order to teach students how to read and adapt to a live event.

We held an in classroom session during one of the races to simulate situation room where students were tasked with creating their own maps, importing data they thought would be relevant to the project and finally assessing the spatial distribution of tweets to determine where crowds were forming and how waste services for the UCI race could be re-located to better serve race spectators.



- Here is an example of what a final map created by our students looked like. You can see the bike race routes, road closures and most importantly for us, the geographic locations where tweets and instagram posts were posted from. Green pins represent “Eco-stations” for recycling and waste.

Below are links to parts of our student blogs that demonstrate how they themselves adapted to the situation and began to think of themselves as moving parts of a larger picture.

Here are additional examples that describe different student experiences of the event and what they took home from the course:

- <http://rampages.us/bikegistruong/>
- <http://rampages.us/291gisniceca/>
- <http://rampages.us/benavidesjmbikegis/tag/uci/>
- <http://rampages.us/wangdangs/2015/10/04/richmond2k15/>
- <http://rampages.us/gabrielcj/2015/10/05/>
- <http://rampages.us/whocooks4you/>
- <http://rampages.us/pfszbikegis/>
- <http://rampages.us/brucegenerator/2015/10/05/arcgis-mapping-the-journey/>