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Collaborative WCU GIS for Education, Research, and Outreach

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Collaborative WCU GIS for Education, Research, and Outreach
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FINAL REPORT: Sustainability Research and Creative Activities Grant
October 26, 2018

As WCU integrates sustainability into curriculum, public engagement, and campus-based research, GIS tools/data are critical for management, research, collaboration, and communication. A shared, WCU campus GIS has been published and the Center for GIS and Spatial Analysis continues to collaborate with the Office of Sustainability and faculty on the dissemination and use of our WCU GIS platform.

The results of the project are included, below, with links to the online resources which include data, maps, and story maps. Only half of the grant money was spent as all three of my student workers accepted summer internships that began immediately after finals. Since new hires would have required summer session payroll (with a mid-June cutoff), I decided that there was little incentive to replace this group.

As a result of this grant, GIS tools and 2D/3D data are part of many campus projects and we have published improved resources. The project objectives included;

1) **Create web-maps and Story Map presentations:** Complete and ongoing. The deliverables include:

- **Campus Web Map for Faculty Research:**
<http://wcupagis.maps.arcgis.com/apps/webappviewer/index.html?id=ef45caa4ac0c475f94006893d2a10cea>
- **Spotted Lantern Fly Student Data Collection:**
<https://wcupagis.maps.arcgis.com/apps/Cascade/index.html?appid=860e68f67bab402ca2f8d0ae22a1112a>
- **WCU GIS HUB for Data, Presentations, and Models:** <https://data1-wcupagis.opendata.arcgis.com/>
- **User Guide Story Map:**
<http://wcupagis.maps.arcgis.com/apps/Cascade/index.html?appid=3d55b85b79294da0ba34d481f1ea2028>

2) **Demonstrate/recruit faculty participation:** Complete and Ongoing. Only a handful of the faculty interviewed had on-campus research projects that could be mapped. Since the online maps update, as new data is added, I will continue to add research and projects, as data is collected. An example of collaboration is the Spotted Lantern Fly Project done by John Pisciotta, Biology faculty and recipient of a, Sustainability Research and Creative Activities Grant and his student, Chris “Kit” Catranis. Using Kit’s data, collected in the Gordon, we created a web map and attached our field data collection app (ArcCollector) layers to this. This map is shared to the public:

Pisciotta and Catranis Map:

<http://wcupagis.maps.arcgis.com/apps/View/index.html?appid=2a9c6062877545dd8841c356ba978486>

3) **Hold a training workshop, to recruit and institutionalize faculty use:** Partially complete. The process of institutionalizing faculty use is progressing. The workshop did not happen. The data collection and web site work took longer than expected. The resources are now online and I will continue to promote and support this process. I presented this work at a Fall 2018 Sustainability Research and Practice Seminar, *WCU's Campus as a Collaborative Classroom, Research, and Presentation Space: Our Open, Web-based GIS Hub*, Wednesday, September 5, 2018.