

Earth Analytics Applications Project Status Presentation

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Recap of project goals:

“As an output of my research I hope to create a tool to prioritize sites for reforestation that accounts both for biodiversity priority areas and for those places where community support is strong enough to ensure the long-term success of the reforestation project”

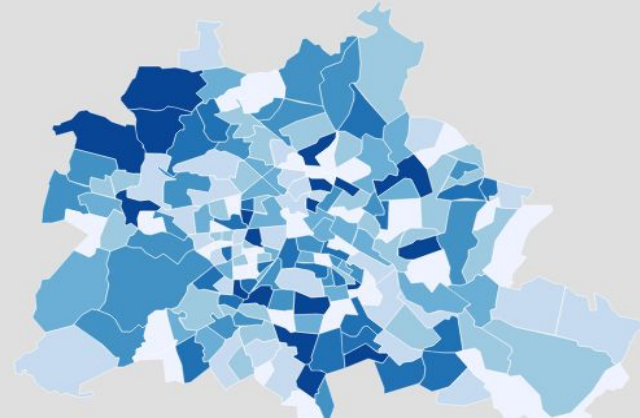




Reminder: What are RShiny and Leaflet?

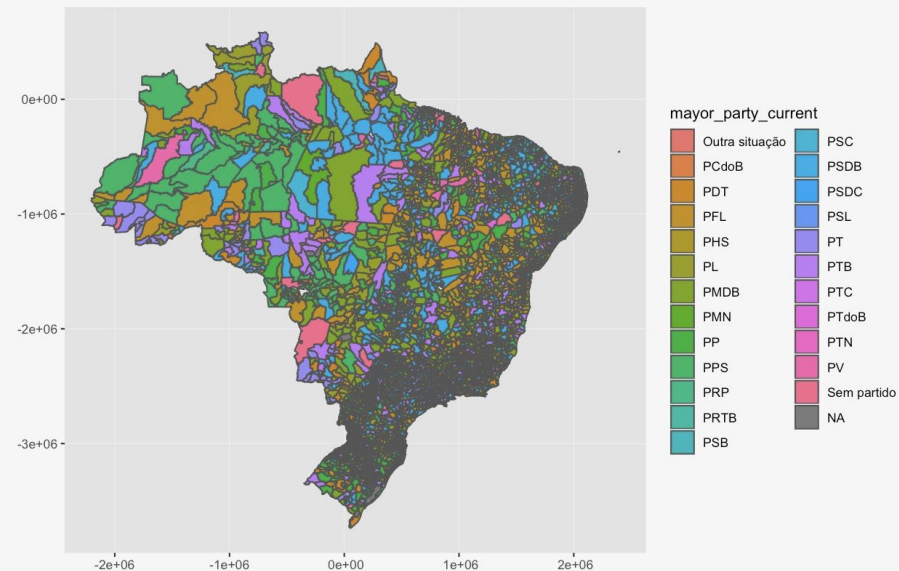
- ▶ RShiny is an interactive web application framework for R that can be used for exploratory data analysis and visualization, to facilitate remote collaboration, and share results
- ▶ Leaflet is a powerful open-source Javascript library that powers interactive maps on the web

Description of end products:

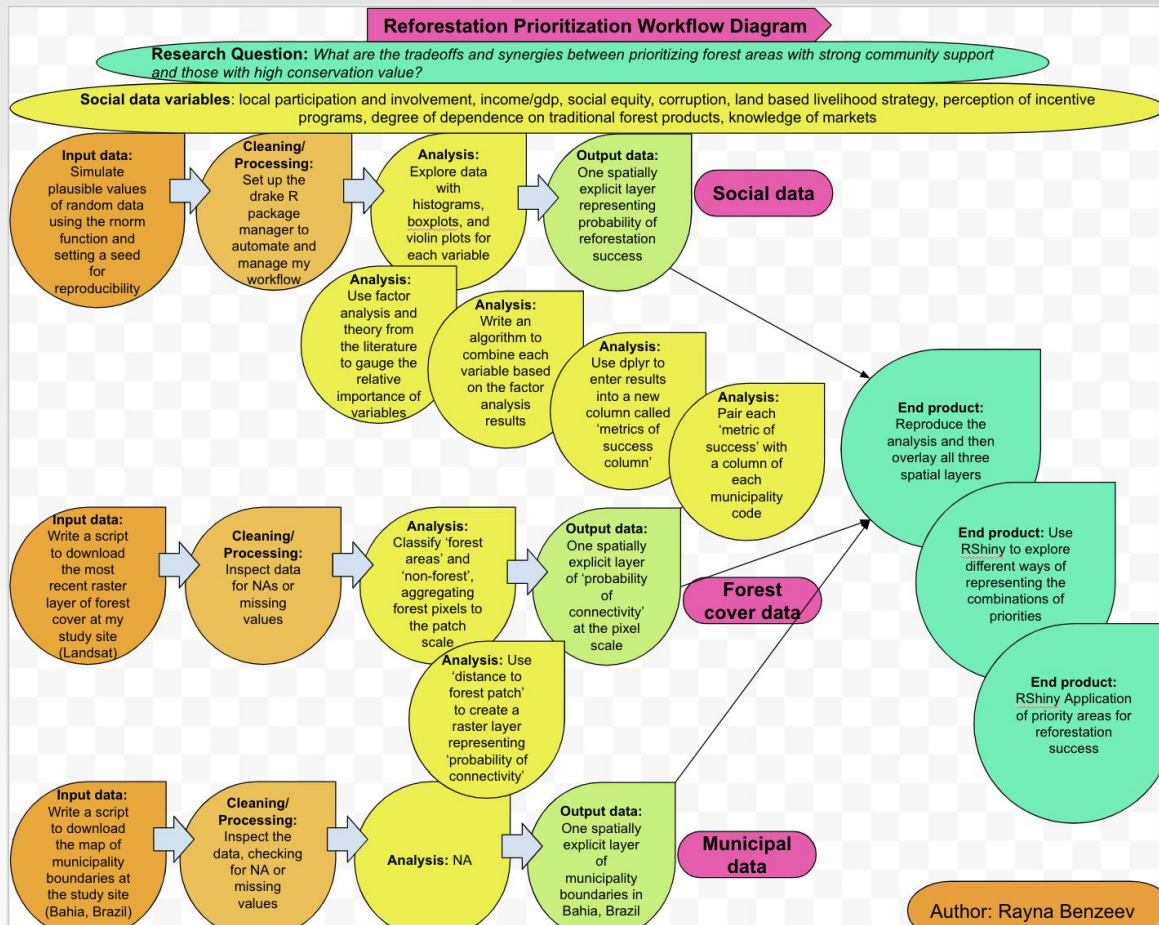


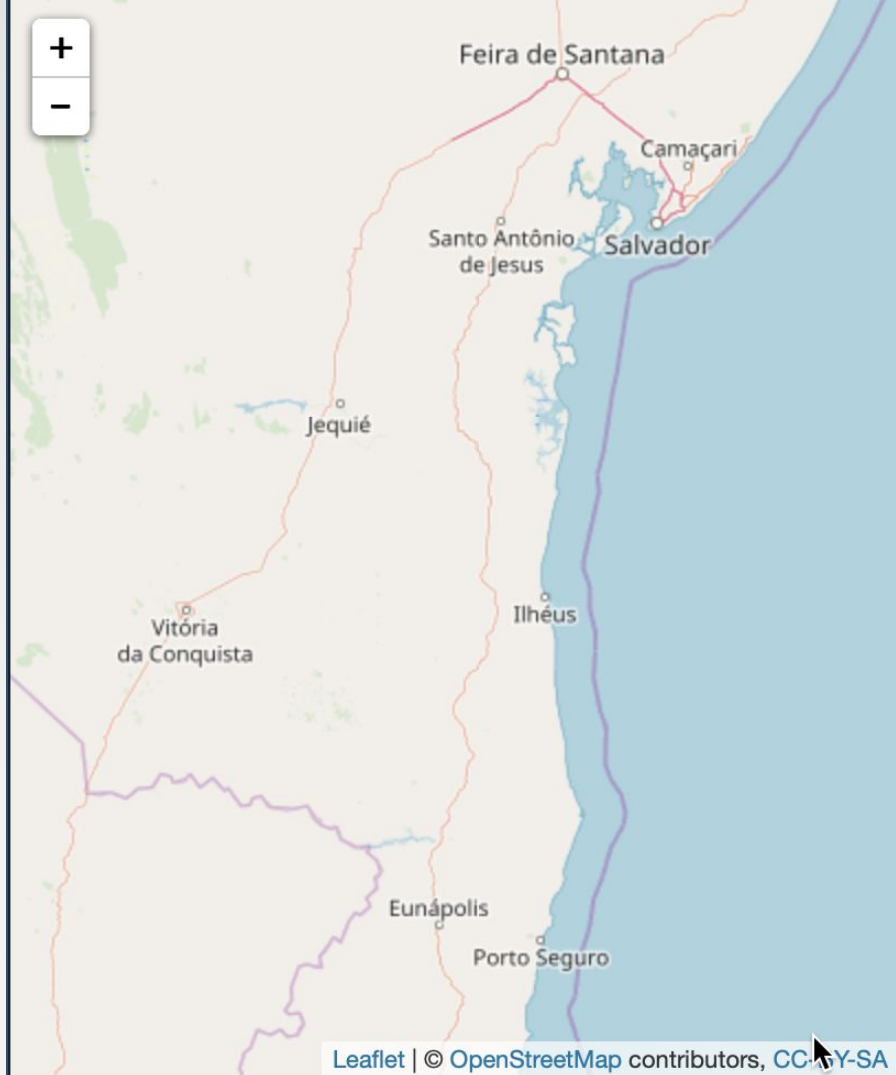
Plot

Data

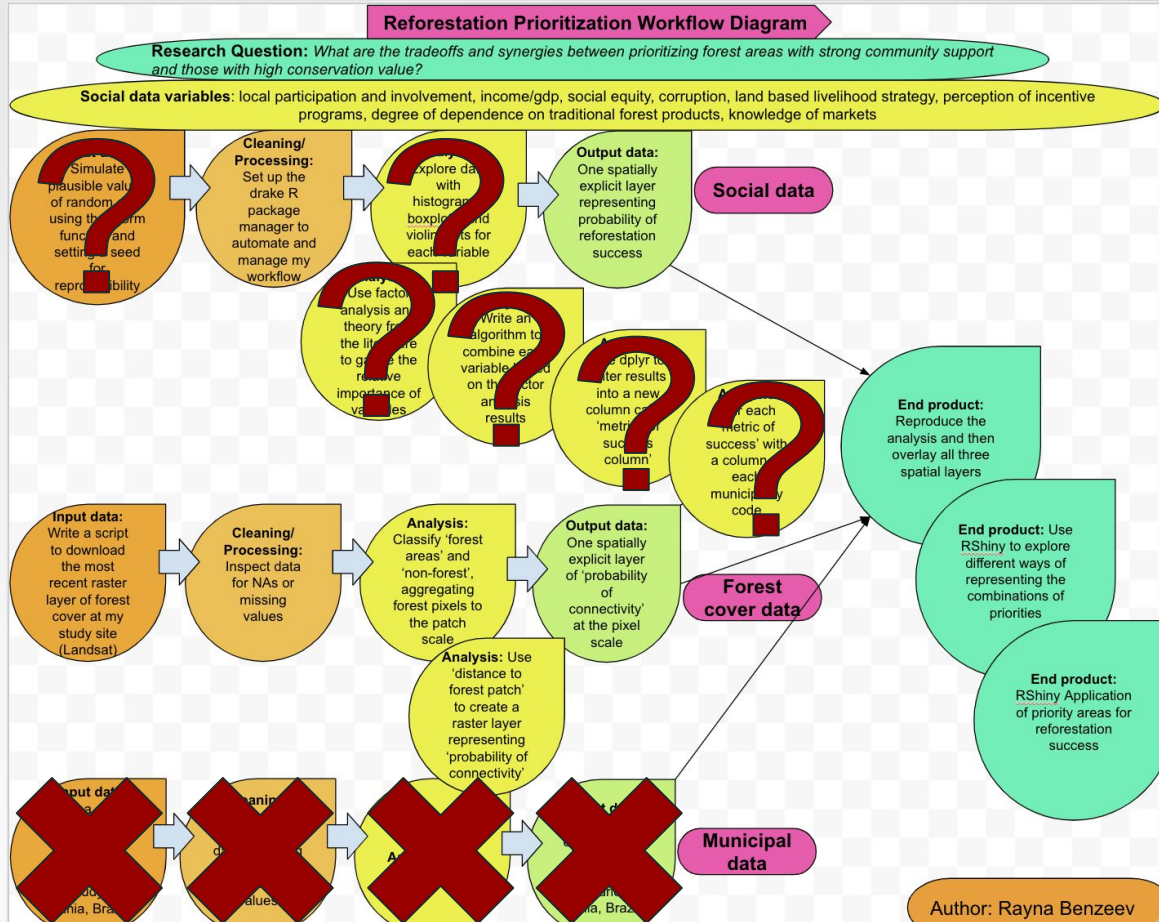


Completed Tasks





Completed Tasks





Current Challenges

- ▶ rJava package

```
> library(xlsx)
Error: package or namespace load failed for 'xlsx':
.onLoad failed in loadNamespace() for 'rJava', details:
  call: dyn.load(file, DLLpath = DLLpath, ...)
  error: unable to load shared object '/Library/Frameworks/R.framework/Versions/3.5/Resources/library/rJava/libs/rJava.so':
    dlopen(/Library/Frameworks/R.framework/Versions/3.5/Resources/library/rJava/libs/rJava.so, 6)
: Library not loaded: /Library/Java/JavaVirtualMachines/jdk-9.jdk/Contents/Home/lib/server/libj
vm.dylib
  Referenced from: /Library/Frameworks/R.framework/Versions/3.5/Resources/library/rJava/libs/rJ
ava.so
  Reason: image not found
```




Remaining Tasks

- ▶ Learn how to use Drake and set it up in R
- ▶ Create an updated workflow diagram
- ▶ Integrate my knowledge of Rshiny and Leaflet with the code of the Strassburg et al. paper
- ▶ Amend the code to crop for my study site
- ▶ Simulate ecological models