## Running r3PG:

* R3PG can take inputs of the following data:
  + # site
  + # species
  + # climate
  + # thinning
  + # parameters
  + # size\_dist
* The data inputs required to run the model (and run the script 7\_run3PG) have been included in the ‘data/input’ folder as two csvs:
  + climate\_033.csv
  + inputs\_033.csv
* **If you just want to run the 3PG function and play with that, head to 7\_run3PG.R**

1\_r3PG\_InitialTest

* Getting to grips with the similarities and differences between the R implementation and the Excel version

2\_Make\_climateNA

* Uses a DEM to generate climate data required for 3PG
* We use this script to generate climate data for an entire study area
* Data for a subset area has been included in the ‘data’ folder as a csv (climate\_033.csv)

3\_Forest\_Mask

* Create a forest raster of the study area. This mask is included on the teams site. It is created by using a landcover dataset created from the NTEMS dataset

4\_align\_crop\_function

* I found that collecting all the different rasters from different data sources meant that the extents didn’t always match perfectly (off by a few meters), so this script is really about getting all of the target rasters back to match up exactly

5\_Tile\_Raster

* Tiling all of the rasters into manageable chunks – this is why the inputs for the 3PG script have a subscript (033 in this case)

6\_Latitude

* Currently not used but will be needed

7\_run3PG

* This is where the function is run (run\_3PG)
* The input data is included in the data/input folder, so you should be able to run this script as a standalone