AssessmentPart1：Comparison on Two maps Using Different Software: RStudio and ArcGis

GIS, as a comprehensive discipline, is a computer system for inputting, storing, querying, analyzing and displaying geographic data. It is increasingly used in various fields of real life, providing solutions, methods and convenience for solving practical problems. This report will evaluate the benefits and drawbacks of RStuido and ArcGis and give a review in terms of data source they used, workflows, good practice and other relevant considerations.

RStudio is the language environment which connects the code and drawing and it is also a carrier of visualisation which operates statistical analysis and image output. The benefits of RStudio is of free and open source. It is easy to understand and operate. While ArcGis is not free but presents good looking. It does not need code and it only need to input data. Both data they used is the same: “London Data.xls” and “BoundaryData- england\_lad\_2011.shp.”

In comparison, ArcGis is much easier to understand and operate than RStudio relatively. Because the total steps of workflows of ArcGis are less than RStudio. RStudio runs much slower than ArcGis depend on the device system used. Running RStudio needs more patient for even several hours which is normal.

Employment rate is the chosen topic to compare these two tools better and to analyse the content and value later.