

Introduction

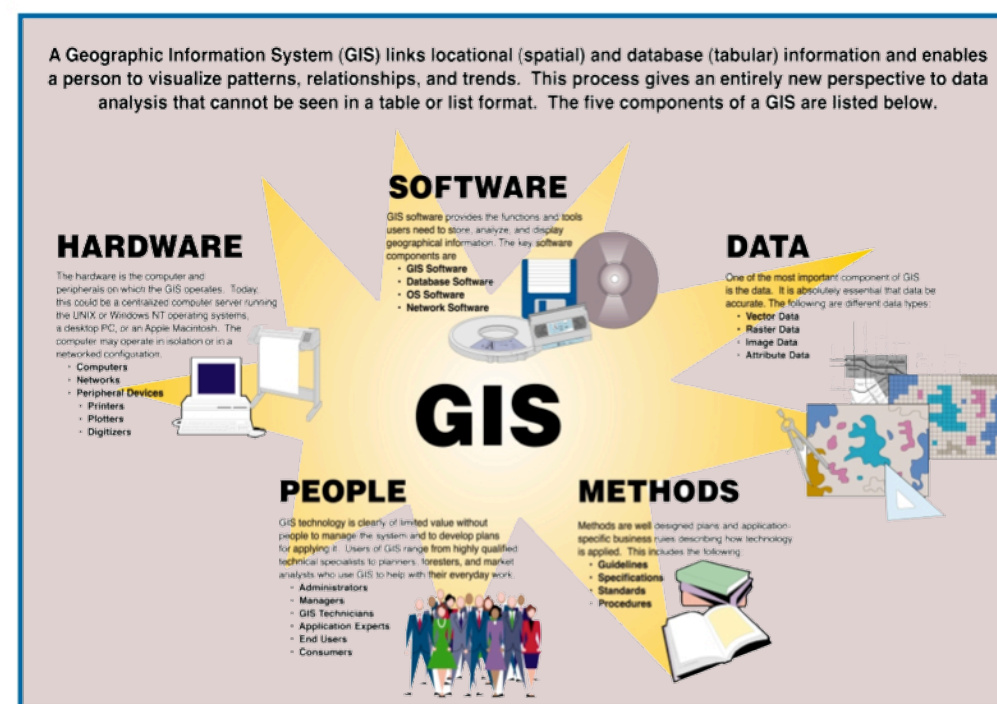
Statistical maps and graphs are frequently proposed to help convey to the eyes an increasingly complex size, scope and range of data. Using maps to present data are an excellent way to visualise information in a certain location that helps to identify geographic trends. It is common place for economic indicators, government spending, election results and disease distribution.

Meningitis Cause & Effects

Meningitis is referred to the infection of meninges and the membranes that covers the brain and spinal cord. The infection is caused by a variety of different organisms, including viruses, fungi and bacteria. Viral meningitis are more common but less severe. The rate of disease is highest in children under five with the pick incidence in those under one year old, but it can affect all age groups.

Geographic Information System

Health geography is an area of medical research that use GIS and mapping techniques to study the impact of people's surroundings on their health. GIS efficiently address illnesses to geographical links. It stores, manipulate and analyse all type of geographical and spatial data.

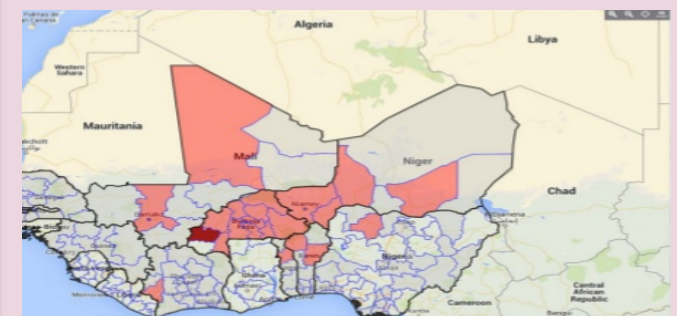


To create an analytical and descriptive solution, researcher need to have the necessary skills to use Geographic information system and ability to access the accurate patients' data from trustable data centre such as NHS. Although, privacy and confidentiality must be in place but this study doesn't't use any identifiable personal data.

Objectives

- The purpose of this study is to produce a statistical map that demonstrate the meningitis outbreak in Wales in 2012-2014.
- Also, Identifying Patterns in Disease Distribution to control and prevention of infectious disease.
- Disease surveillance will become even more feasible with the use of GIS and spatial analytical techniques.

Colour shading is the most common type of statistical maps for demonstrating standardised data such as percentages, densities and rates.



References

- <http://geography.about.com/od/culturalgeography/a/medicalgeograph.htm>
- <http://www.meningitis.org/news-media/warning-of-rise-in-meningitis-29960>