



Geospatial Operational Insights for National Library Board (NLB)

Project Abstract

ANLY482 – Analytics Practicum AY16/17 Term 1

Prepared by:

Team Qui Vivra Verra

LIU Bowei

PONG Chong Xin

TEO Hui Min

Supervised by:

Prof KAM Tin Seong

Associate Professor of Information Systems

Abstract

The National Library Board (NLB) of Singapore has grown and evolved with the time. It was first established with the focus of becoming a nucleus of national heritage and culture, holding a large archive of books and collections which document the past. The needs of the society are now turned in the direction for the emerging technologies, with the business and community requiring an extensive information database to function and work. Hence, it is of utmost importance that the NLB is able to serve such need, for the nation state to continue thriving.

The aim of this project is to create a geospatial dashboard for the NLB to conduct what-if analyses with respect to changes in library demand. Each library seeks to provide a unique value-added service to its local community, and the regional ones are able to extend its outreach to areas further away. Where is the best location for a new library in Singapore? How will the patronage levels for the libraries change if this particular library is closed for upgrading projects? These are questions that we seek to answer in a scientific way, using patron insights from the library combined with data analytic techniques. The geospatial dashboard will give the NLB an overview of all the libraries in Singapore, and future policies and implementations will be facilitated with a better understanding of the library network effect.