

GIS training 28-30 November 2016

Lecturers: Hu Suk Lee (DVM, PhD) and Thanh Le Viet (PhD)

The training learning objectives for GIS Spatial Analysis (intermediate level) are:

- Basic GIS analysis including creation and spatial relationship (interpolation, density analysis, proximity analysis, coincidence, intersection, overlap, visibility, and accessibility)
- Building spatial models including detecting and quantifying patterns, prediction and risk mapping
- Epidemiological analysis using GIS

Day 01 (November 28, 2016 - Monday)

Time	Activity	In-Charge
Morning Session		
8:30-9:00	• Welcome Remark	Hu Suk Lee
	• Introduction	Thanh Le
	• Overview & Briefing	
9:00-10:20	GIS Foundation – Introduction to QGIS	Thanh Le Viet
10:20-10:40	<i>Tea/coffee break</i>	
	<i>Hands-on: Getting started with QGIS</i>	
12:00-13:30	Lunch break	
Afternoon Session		
13:30-15:00	Cartography Foundation	Thanh Le Viet
15:00-15:30	<i>Tea/coffee break</i>	
15:30-17:00	Hands-on: Making a map with QGIS	Thanh Le Viet

Day 02 (November 29, 2016 - Tuesday)

Time	Activity	In-Charge
Morning Session		
08:30-10:00	Spatial analysis I - Introduction of SaTScan Exercise (using SaTScan)	Hu Suk Lee
	- Lepto data: space cluster analysis - FMD data: space-time cluster analysis	
10:00-10:30	<i>Tea/coffee break</i>	
10:30-12:00	Continued... Exercise (using SaTScan)	Hu Suk Lee
	- Lepto data: space cluster analysis - FMD data: space-time cluster analysis	

	Seasonality analysis - Viral encephalitis data: seasonality analysis Exercise (using R) - Viral encephalitis data: seasonality analysis Introduction of Time Series analysis (if time is available)	
12:00- 13:30	Lunch break	All
Afternoon Session		
13:30-15:00	Spatial Analysis II	Thanh Le Viet
15:00-15:30	<i>Tea/coffee break</i>	
15:30-17:00	Hands-on: Performing spatial analyses with QGIS	Thanh Le Viet

Day 03 (November 30, 2016 - Wednesday)

Time	Activity	In-Charge
Morning Session		
08:30-10:00	Mini projects: Team-up the trainees to several groups for a mini project Q&A	Thanh Le Viet
10:00-10:30	<i>Tea/coffee break</i>	
10:30-12:00	Mini-project	All
12:00- 13:30	Lunch break	
Afternoon Session		
13:30-15:00	Mini-project	All
15:00-15:30	<i>Tea/coffee break</i>	
15:30-17:00	Group Presentation	All