Day Three
Spatial Data Analysis for Decision-making Support

Length: 8 hours
Requirements:
- Equipments for the duration of the training:
  - Laptop or tablet
  - Access to Internet
- Prerequisite:
- Recommended:

Introduction: Data is one of the most powerful tools that humans can use to develop and improve their countries, analysing the current situation in addition to expecting the future results.

- Spatial data and spatial analysis methods allow us to understand geographic patterns and relations of socio-economic, physical or environmental conditions.

Learning outcomes: By the end of this module, participants will be able to:
- Take insight of GIS as a decision support system
- Understand how GIS can support decision making in different applications.
- Know the methodology used in deprivation modelling for IdeAMapSudan project
- Understand how to create a deprivation framework that is relevant to Sudan context

Summary Agenda

Min.	Time	Activity	Description	Presenter
30	08:30 – 09:00	Registration	Participants signing up	
60	09:00 – 10:00	Lecture	GIS as a Decision support system	Mustafa
30	10:00 – 10:30	Lecture	Mapping socio-economic vulnerability	Andrea
30	10:30 – 11:00	Discussion	Q&A	
30	11:00 – 11:30	BREAK	Breakfast	
90	11:30 – 13:00	Lecture	IdeamapSudan - The approach and modelling methodology	Asjad/Wafaa
30	13:00– 13:30	BREAK	Coffee Break + Pray	

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IdeaMapSudan Project
Training Workshops - Non-GIS Specialist Group
GIS Main Concepts and its Importance for Decision Making

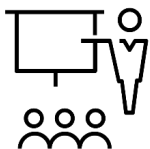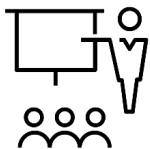**Date**: 19 to 21-September -2022

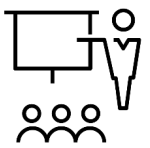|				
30	13:30 – 14:00	Lecture	IDeaMapSudan- Khartoum state deprivation mapping - exploring IdeaMapSudan system	Fatima/Mosub
60	14:00 – 15:00	Discussion	Feedback and Open discussion	
15	15:00 – 15:15	BREAK		
30	15:15 – 16:30	Discussion	Feedback and Open discussion	
15	16:30 – 16:45	Wrap-up		

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Guide

Activity / Time	Description	Resources / Materials
Registration 30 minutes	**Participants signing up**	**Registration list**
	Record the name, contact, and signature of each participant so that you can stay in touch.	
Lecture 60 minutes	**GIS as Decision support system** https://docs.google.com/presentation/d/1Pa3c4TWxmyrdHQ9uwHIWfr5OKYZculh5/edit#slide=id.gb4bd63aa3f_0_0	**GISDSS.ppt**
	Potential uses for spatial data in different disciplines and how it can help in decision making interesting application cases (locally relevant examples) ● Flood exposure.. area with regular flood ● covid-19 risk mapping	Projector (alternatively, make notes on flipchart or whiteboard)
Lecture 30 minutes	**Expert lecture**	
	Mapping socio-economic vulnerability the case of Kigali (RWANDA)	
Discussion 30 minutes	**Q&A**	
Lecture 90 minutes	**IdeamapSudan - The approach and modelling methodology** https://docs.google.com/presentation/d/1D2BxIA4_oEF6c6lkY1fs5RG6OSieG2O1/edit	
	- Explain the concept of multi level deprivation - Examples of deprivation modelling (UK, Delhi) - IdeaMap conceptual framework for deprivation - IdeamapSudan (study area, selected domains and indicators, analysis)	Projector (alternatively, make notes on flipchart or whiteboard)

IdeaMapSudan Project
Training Workshops - Non-GIS Specialist Group
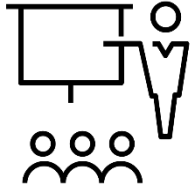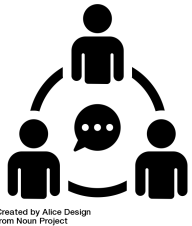## GIS Main Concepts and its Importance for Decision Making

Date: 19 to 21-September -2022

Lecture 30 minutes	**IDeaMapSudan- Khartoum state deprivation mapping - exploring Ideamapsudan system** https://docs.google.com/presentation/d/1D2BxlA4_oEF6c6lkY1fs5RG6OSieG2O1/edit	
	- Explore Khartoum state deprivation maps - Explore Ideamapsudan System	Projector (alternatively, make notes on flipchart or whiteboard)
Discussion 60 minutes	**Participants feedback and comments on IdeamapSudan (questions link)**	**questions on jamboard**
 Created by Alice Design from Noun Project	-	Display answers on screen
Wrap-up 15 minutes		