

DAY ONE

Introduction to Spatial Data and QGIS

Time	Activity	Description	Presenter
08:30 – 09:00	Registration	Participants signing up	
09:00 – 09:15	Lecture	Welcome and Overview of IdeamapSudan	Inas Ali, Project Coordinator
09:15 – 09:45	Lecture	Introduction to GIS Modelling	Mustafa Hamza, ToT team
09:45 – 10:00	Discussion	Q&A	
10:00 – 10:15	Lecture	Using Secondary Data	Wafa Abdulsakhi, ToT team
10:15 – 10:45	Lecture	Introduction to OGC Web Services	Asgad Abid, ToT Team
10:45 – 11:00	Discussion	Q&A	
11:00 – 11:30	BREAK	Breakfast	
11:30 – 12:30	Demo	Examples of Open Data Sources	Wafa Abdulsakhi, ToT team
12:30 – 13:00	Lecture	Data Quality and Validation	Fatima Salah, ToT team
13:00– 13:30	BREAK	Coffee Break + Prayer	
13:30 – 14:00	Lecture	Primary Data Collection	Wafa Abdulsakhi, ToT team
14:00 – 14:45	Demo	Introduction to QGIS	Mustafa Hamza, ToT team
14:45 – 15:30	Exercise	Working with QGIS	Mustafa Hamza, ToT team
15:30 – 15:45	BREAK	Break	
15:45 – 16:30	Exercise	Working with QGIS	Mustafa Hamza, ToT team
16:30 – 16:45	Wrap-up		

DAY TWO

Spatial Data Collection & Analysis

Time	Activity	Description	Presenter
08:30 – 09:00	Registration	Participants signing up	
09:00 – 10:00	Demo	Open Data Collection Tools - Q-field	Fatima Salah, ToT team
10:00 – 11:00	Exercise	Q-field - Import data from Q- field to QGIS	Fatima Salah, ToT team
11:00 – 11:30	BREAK	Breakfast	
11:30 – 12:00	Lecture	Introduction to Vector Data Analysis	Mustafa Hamza, ToT team
12:00– 13:00	Exercise	Vector Analysis using QGIS	Mustafa Hamza, ToT team
13:00– 13:30	BREAK	Coffee Break + Pray	
13:30 – 14:00	Lecture	Introduction to Raster Data Analysis	Fatima Salah, ToT team
14:00 – 15:30	Exercise	Raster Data Analysis using QGIS	Fatima Salah, ToT team
15:30 – 15:45	BREAK	Break	
15:45 – 16:45	Exercise	Raster Data Analysis using QGIS	Fatima Salah, ToT team
16:45 – 17:00	Wrap-up		

DAY THREE

Earth Observation

Time	Activity	Description	Presenter
08:30 – 09:00	Registration	Participants signing up	
09:00 – 09:30	Lecture	Introduction to EO	Mustafa Hamza, ToT team
09:30 – 09:45	Discussion	Q&A	
09:45 – 10:35	Lecture	Introduction to Digital Image Processing	Mustafa Hamza, ToT team
10:35 – 11:00	Discussion	Q&A	
11:00 – 11:30	BREAK	Breakfast	
11:30 – 12:15	Lecture	Introduction to Image Classification	Musaab Hatim, ToT team
12:15 – 13:00	Demo	Image Classification (ML Methods) Accuracy Assessment	Musaab Hatim, ToT team
13:00– 13:30	BREAK	Coffee Break + Prayer	
13:30 – 15:30	Exercise	Image Classification (ML Methods) Accuracy Assessment	
15:30 – 15:45	BREAK	Coffee Break	
15:45 – 16:30	Exercise	Change Detection	Mustafa Hamza, ToT team
16:30 – 16:45	Wrap-up		

DAY FOUR

Modern Geospatial Methods

Time	Activity	Description	Presenter
08:30 – 09:00	Registration	Participants signing up	
09:00 – 09:30	Lecture	Introduction to OBIA	Mustafa Hamza, ToT team
09:30 – 09:45	Discussion	Q&A	
09:45 – 11:00	Exercise	OBIA in QGIS	Mustafa Hamza, ToT team
11:00 – 11:30	BREAK	Breakfast	
11:30 – 12:00	Lecture	Buildings Footprint Extraction	Mustafa Hamza, ToT team
12:00 – 12:15	Discussion	Q&A	
12:15 – 12:45	Lecture	Building Morphometrics	Mustafa Hamza, ToT team
12:45 – 13:00	Discussion	Q&A	
13:00– 13:30	BREAK	Coffee Break + Pray	
13:30– 14:00	Lecture	IDeaMapSudan - The approach and modelling methodology	Fatima Salah, ToT team
14:00 – 15:00	Lecture	IDeaMapSudan- Khartoum state deprivation mapping - exploring IdeaMapSudan system	Wafa Abdulsakhi, ToT team
15:00 – 15:30	Lecture	Feedback and Open discussion	
15:30 – 15:45	BREAK	Coffee Break	
15:45 – 16:15	Lecture	Feedback and Open discussion	
16:15 – 16:45	Wrap-up	Conclusion & Certificates	