



RISC TRAINING PROGRAMME GEOGRAPHICAL INFORMATION SYSTEMS - GIS

Two-Day Introductory / Intermediate Tutorial

INTRODUCTION TO GIS

- Basic components - historical development - case studies

INFORMATION SYSTEMS

- Spatial Elements of Data - Reality v Representation - Methodologies for describing spatial positioning - Accuracy, Precision, Error -Data Storage and Retrieval - Linkage to Databases - Data Standards - Data Dictionary - Qualitative Issues - Legal Issues

MAP DATA

- Vector - Streets - Buildings – Grids - Raster - Street Directories - Land Maps - Aerial Photography - Satellite Imagery - Scale and Resolution - Linking Data to Maps

VISUALISATION

- Pins on Maps - Right Sizing - Regions - Divisions - Beats- Thematic Maps – Hotspotting - Spatial Analysis - Density - Interpolation – Buffering - Comparative Statistics

EMERGING TECHNOLOGIES

- Global Positioning Systems - Remote Sensing - Geographical Profiling

WORKSHOP

- Data Collection - Validation - Selective Analysis - Plotting - Manual GIS Interpretation - Hotspotting - Information for Action

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