



## **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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