

# Advanced GIS Workshop for Geo-Spatial Intelligence: 2-Day Workshop

This 2-day workshop aims to teach utilization of GIS for the purpose of Geo-Spatial Intelligence application. This is a growing area of study with both national security and commercial applications. Its major goal is to facilitate geographic representation, simulation and anticipation of behaviors and activities of both individuals and the organizations to which they belong over a physical space and in a spatial context.

## WHO SHOULD ATTEND

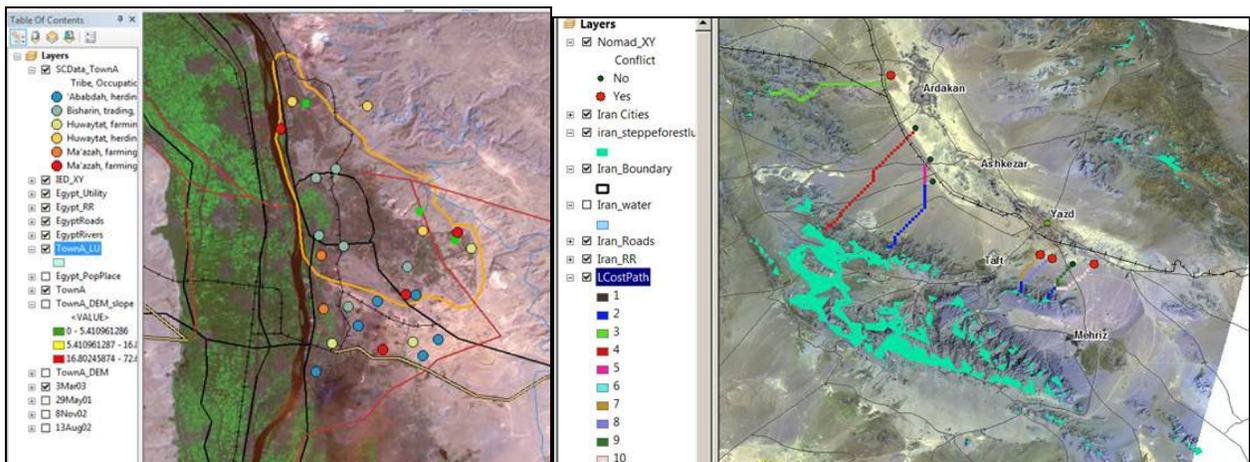
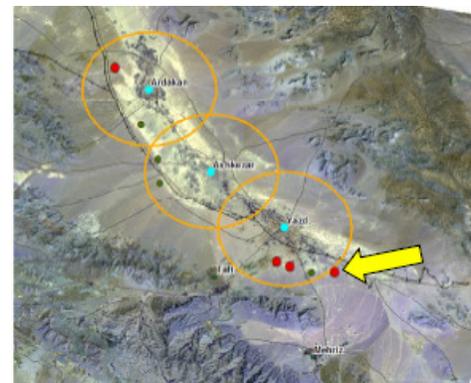
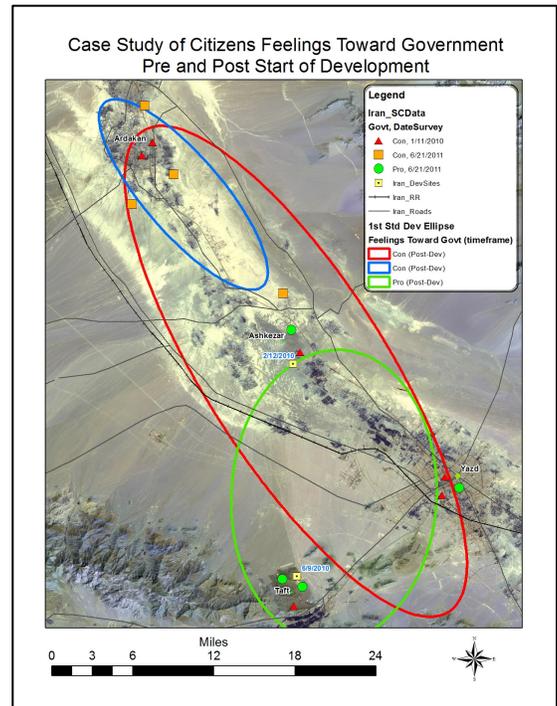
- > Computer scientists and engineers
- > Geographers and cartographers
- > Planners and environmental scientists
- > Application specialists
- > People interested in changing careers
- > Law enforcement officers and administrators
- > Crime analysts and coordinators
- > Database and system administrators
- > EMS and first response professionals
- > Public health administrators
- > Intelligence Analysts
- > Geospatial Intelligence Analysts
- > Social Scientists

## Major Topics Covered

- Advanced Spatial Analysis Tools
- Point Density Function
- Kernel Density Function
- Utilization of DEMs and Imageries
- Viewshed Analysis
- Cost Surface Analysis
- Distance Analysis
- Directional Distribution Analysis
- Standard Deviational Ellipse

## Case Studies

- Case Study 1: Crime Analysis
- Case Study 2: Analysis of IED explosion risks on Youth
- Case Study 3: Evaluation of IED Assistance
- Case Study 4: Analyze Effects of Development
- Case Study 5: Investigate Nomadic Mobility



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