

## Course Completion Report ArcGIS Spatial Analyses

Course 4.3

**NORPLAN** 

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ArcGIS Spatial Analyses - Course Completion Report.docx

### 1 CONTENT

- Course data
- Course objectives
- Training focus group
- Practical and theoretical work
- Course evaluation: comments from participants
- Recommendations for next or other courses

### 2 COURSE DATA:

|                         |  |
|-------------------------|--|
| Name of course:         | ArcGIS Spatial Analyses                              |
| Number of participants: | 14 trainees from: RuWatSIP, MRRD, MEW, DACAAR, USAID |
| Location for training:  | RuWatSIP Conference Room, MRRD                       |
| Date of implementation  | 5 August 2013  |
| Course organiser        | Abdullah Barat                                       |
| Supporting presenters   | Prof. Zarinkhail                                     |

### 3 COURSE OBJECTIVES

The main objective of this course was to show usage and differences between raw data and spatial data in GIS field and further analyses of spatial data. The course was to let GIS users understand the importance and workability of spatial data and working and analyzing the data in ArcGIS. Spatial data give possibilities to users to make analytical maps and produce fruitful reports using GIS technologies. GIS products (maps, charts, tables, reports) are used to represent valuable data and such information is used for decision making and research. This course was planned to support GIS users in getting ideas to differentiate between different data representations and analyses in the field of GIS.

This training course was hoped to familiarize trainees with spatial data and their usage and analyses in GIS.

### 4 TRAINING FOCUS GROUP

This training was planned to train GIS related people who use GIS, manage and analyze data in GIS during their daily activities. Spatial analyses in GIS is one important feature and it makes GIS using more productive. Therefore, understanding and using spatial analyses in governmental organizations of Afghanistan as well as partner organizations in this country will directly support GIS users community to have rich representation of a limited set of data in GIS. GIS users technical groups are from MRRD, MEW, DACAAR, USAID and participants from some other organizations were invited for this training. For the time being, the focus group for this training consisted from GIS related fellows in mentioned organizations.

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The focus group of the course was consisted from: 2 from GIS-MIS Unit of RuWatSIP/MRRD, 3 from Engineering Unit of RuWatSIP/MRRD, 3 from ESD/MRRD, 1 From MEW, 2 from DACAAR, 3 from MSI/USAID

## 5 PRACTICAL AND THEORETICAL WORK

This course was a 1 day training. The theoretical and practical sessions were mixed up to achieve the targeted goals and to deliver the planned topics to the trainees. The theoretical presentation was to discuss general guidelines and methods and to show different types of data. The spatial indexed name and the purpose of this was covered during presentations. At the same time, practical activities were organized to see results of analyses. Different approaches shown and popular methods explained.

The practical sessions covered some important topics including: geoprocessing (buffer, clip, intersect, union, merge, dissolve, search), data conversion between raster and vector, distance grids, density grids, reclassify and combine grids and finally calculating grid areas.

Theoretical topics which were discussed to support practical sessions included: spatial analyses definition, toolbar, extension, temporary and permanent grids, analysis parameter setting, and etc.

## 6 COURSE EVALUATION: COMMENTS FROM PARTICIPANTS

The course evaluation is available on the web in full with comments. In summary the questions for evaluation and the participants response in percentage were as follows:

**Question 1:** Did the training course meet your expectations? 1=Completely, 2=Partially, 3= Not at all,

Response: Completely : 36%, Partially 64%, Not at all 0%.

**Question 2:** What do you think about the overall relevance of training course? Considering the limits on your time and the topics discussed? 1= Too Long, 2= Just right, 3 = Too short

Response: Too Long : 0%, Just right 45%, Too short 55%.

**Question 3:** How the relevant was the training workshop to your organization or project's need? 1= Very relevant, 2 = Somewhat relevant, 3 = Not relevant

Response: Very relevant: 91%, Somewhat relevant 9%, Not relevant 0%.

## 7 RECOMENDATIONS IF THE COURSE WAS TO BE REPEATED

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1. The course duration of one day does not look fine. 55% of selection of participants shows that course was too short. It is expected to make this course 2 days for the future if conducted.
2. Almost 91% of participants are agree with the course relevancy to their job. The remaining 9% (1 person) was agree to somewhat relevancy. Therefore, this course is recommended for future to be conducted with a longer duration.

Report prepared by: Professor Zarinkhail, GIS-MIS Adviser, Norplan, August 2013