Esri Summer Camps in Rwanda and the Democratic Republic of Congo

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Esri Rwanda Ltd.
The goals of Esri Summer Camps
Observe – Understand - Apply

+ The Summer Camp is an applied GIS project
+ Link GIS theory learned at school with practical work in the field
+ Learn how to use a GPS
+ Collect geographic and attribute data with GPS and questionnaires
+ Prepare, edit, analyse and visualize data using GIS
+ Learn how to present results
+ Close collaboration with an institution (e.g. Ministries and Educational bodies), local and international GIS experts

Conduct a real project within a week with high school pupils
The structure of the project in general

+ A topic is defined together with a Partner
+ Each year Esri Rwanda launches a "Map Competition" by inviting secondary school pupils to submit a GIS map and a motivation letter
+ Usually 150 to 200 pupils participate in the map competition
+ A committee led by Esri Rwanda selects the twenty best submissions
+ The top twenty pupils are invited to participate in the Summer Camp
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<th>Time</th>
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The Esri Summer Camps at a glance

The first ESRI Summer Camp 2008:

**Structural Analysis at the City Border of Kigali (Sector Kinyinya, Gasabo District)**

+ Data collection and inventory control: Land use, water and electricity distribution
+ Partner Gasabo District, CGIS-NUR, RNRA (former NLC)
Esri Summer Camp 2008: The results in posters and maps
The Esri Summer Camps at a glance

The second ESRI Summer Camp 2009:

Environmental situation at Lake Muhazi

- Data Collection: Water quality analysis, land use at the shores of the lake, living conditions of the population
- Partners: REMA (Rwanda Environmental Management Agency), CGIS-NUR, RNRA
Esri Summer Camp 2009: The results presented in maps
The third ESRI Summer Camp 2010:

Population Census

+ Conduct a «micro census»
+ Linking statistical data with geographic information
+ Partners: National Institute of Statistics of Rwanda (NISR), CGIS-NUR, RNRA
Esri Summer Camp 2010: The results in maps and posters
Esri Summer Camp 2010: The results in maps and posters
The Esri Summer Camps at a glance

The fourth Esri Summer Camp 2011:

An online Tourist Map of the City of Kigali

- Collection of tourist information in Kigali (~1’000 Points of interest)
- Partners: Rwanda Development Board (RDB), CGIS-NUR
The result - online
The Esri Summer Camps at a glance

The fifth Esri Summer Camp 2012:

Planning of two rural villages supported by GIS

+ Data Collection of houses and existing roads, land use today, planned roads
+ Interviews with Sector authorities and local population about their visions
+ Draft plans and proposals for two villages
+ Partners: Ministry of Local Government (MINALOC), CGIS-NUR, RNRA
The results – online
The results – online
Putting the results of the Esri Summer Camp 2012 into practise

Unveiling the poster of the new village and

building the new roads for «Rudakabukirwa», Gasabo District
First Esri Summer Camp with the «Université Evangélique en Afrique», Bukavu, Democratic Republic of Congo

Establishment of a Health Database for the City of Bukavu

+ Introduce pupils of secondary schools in Bukavu to Geographic Information Systems
+ Collect health data using a GPS and a questionnaire to establish a preliminary health database for the City of Bukavu
+ Analyse the current health situation: facilities and accessibility

+ Partner: Governor & Ministry of Health, South Kivu, Brot für die Welt
The sixth Esri Summer Camp 2013:

**Improving Customer Services for Power Supply in Kigali**

- The participants of the Esri Summer Camp 2013 will capture relevant electricity facility data
- Analyse how problems in an electricity network can be solved faster and how power supply to the customers can be improved
- Partner: EWSA (Electricity, Water and Sanitation Authority), JICA, CGIS-NUR