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Arcadia

Arcadia's RMS MasterPlan
Terms of Reference
(Assignment)

Electronic Government Office
Ministry of the Interior

Contents

Introduction

Last May, the government of Arcadia decided to allocate a budget of 45 Million Crowns for the implementation of a *national risk management system (RMS)* over a period of 5 years. The system has to be organized at municipal level where each municipality places focus on their own risk needs. The parliament will commit the budget after the approval of a "master plan".

You are a member of the RMS-project Team instated to advise the Minister of the Interior who is responsible for the implementation of the Arcadian RMS.

The job of the RMS-project Team is to draft the so-called "master plan" that is needed to get the money granted. The plan must comprise the justification for the need of an RMS, a detailed overview of the risk management activities supported by the system at municipality level, and a test implementation. This implementation should illustrate how the proposed design supports municipality activities *especially focusing on risk management -in three main areas:*

1. Emergency response
2. Spatial planning (land use planning)
3. Environmental Impact Assessment (EIA)

The document containing the master plan has to be submitted to the Minister of the Interior, and the proposal has to be discussed with a group of experts in the field. This discussion will take place on Friday the 28th of December 2012. Based on the outcome of the discussion the parliament will vote for release of the budget.

Assignment

The RMS-project Team has to prepare a presentation. The presentation should contain findings of the group work, i.e. a detailed proposal of the municipal RMS system. This proposal should contain the purpose and objective of the RMS, the description of the distribution of activities among the stakeholders and a brief description of the objectives of each activity. Lastly, the presentation should contain conclusions and recommendations on the tasks ahead.

A number of speakers have been asked to share their experiences on topics related to RMS development. These sessions should provide much needed support to the work of the RMS-project Team (see timetable).

On Wednesday the 28th of November 2012 one or two of the members of the Team will present the findings and achievements of the group regarding the "master plan" for the Arcadian municipality RMS.
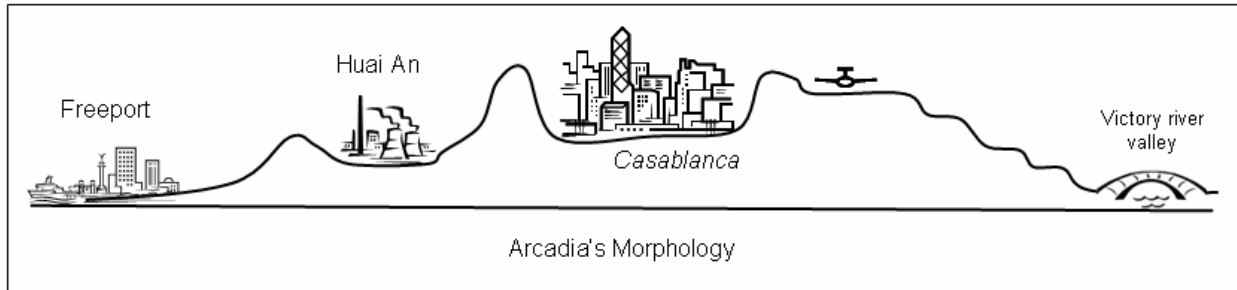
Terms of Reference

Read the text about the 'Arcadian RMS-plan' (above), and the 'Facts and Figures' of Arcadia (below), Use that information to address the following questions:

1. Organize in groups of 5 people and choose one specific area of risk management: emergency response, spatial planning or EIA. Choose a specific municipality.

2. Decide in your group which types of risk you want to address with respect to you municipality. Analyze the risk management phases related to your area and define the activities to be supported by the system.

   Using the chosen activities, create a *scenario*. Write a description, identify the stakeholders, and enumerate the services to be assembled.

   "*Scenario: is a crisp, concise description of a real-life situation that a system is likely to face in its working environment, along with*

Arcadia's Morphology

the definition of the response expected from the system."

3. Establish (and list) which core spatial datasets have to be available to the Arcadian RMS. Explain your decisions. In addition, describe the relationship between datasets and stakeholders. Explain who should be responsible for what services, and how these services are integrated to provide the desired results.

4. Select those techniques that can be used for the architecture of the envisaged Risk Management System for Arcadia (repositories and/or catalogues, platforms, architecture e.g. thin or thick clients, standards, etc.) Explain your selection and additionally demonstrate by means of your test implementation (technology, distribution, services).

5. Address policy issues that (may) influence the functions of the Arcadian RMS, both positively and negatively. What are the potential measures and countermeasures regarding these organizational issues that can secure a proper functioning of a created RMS? (institutional & legal aspects, licenses, copyrights, training).

6. Sketch the user interface and functionality of your proposed system (for each type of users). Specify the web services needed to realize the interfaces and illustrate how users are supposed to use the service.

7. Prepare material for the discussion in the form of a presentation.

Arcadia – Facts and Figures

- *Area*: 56,234 km², including islands. (disaster prone area)

- *Population*: 6,775,120; density per square kilometer: 120.

- *Population growth*: 1.2 %

- **Number of households:** 2,276,126

- *Capital*: Casablanca

- *Main Cities*: Freeport, Huai An, Springfield, Marcuria

- *Political system*: Republic with elected president and single-chamber parliament

- *Administrative divisions*: 14 provinces. 383 municipalities, 5 regions

- *Language*: Allthongue + Topy language. Allthongue is spoken by the majority of society. Topy is spoken by a minority (especially by immigrants)

- *Religion*: Paradise Church (over 90 %)

- *Currency*: 1 Crown = 100 pieces = € 0.42

- *GNP*: Gross National Product: € 32,000 (per household)

- *Economy*: agriculture (10% of the land), forestry, mining of iron and uranium ore, metallurgic processing, automotive, chemical and electrical industries, international trade.

- *Mobile connections*: 3,980,214

- *Smartphone percentage*: 40%

- *Stand alone PCs*: 250 000 (declining)

- ***www-connected PC's***: 1 800 000 (increasing)

- ***Employees in GI companies***: ± 25000
- ***GI-industry related companies***: 120 (forest inventories and mining exploration mainly)

- A national mapping and a cadastral agency exist.

- No nation-wide digital spatial datasets available. However, local and provincial datasets are available. Several ministries manage these datasets.

- The capital, Casablanca, is a metropolitan area composed of 10 contiguous municipalities with independent municipal governments.

- Planning and infrastructure development are difficult areas due to the lack of integration in the metropolitan area.

- Environmental protection and sustainability as well as support to emergency services during disaster such as flooding and earthquakes are priorities of the central government.

Census data
Reference data:
- Addresses
- Place names
- Images
Other data:
- …

Other issues

Potential stakeholders that can be used for the exercise include:

- NMA – National Mapping Agency
- ECC – Emergency Control Center
- LG-M – Municipality, different municipal departments
- NEA – National Environmental Agency
- MIL - Specialized branch of the military forces
- …

Relevant data items may include:

Topographic data:
- Terrain (elevation)
- Rivers, lakes, ...
- Green areas
- Buildings
Critical infrastructure:
- Water supply
- Food storage and distribution facilities
- Natural gas and fuel storage and supply
- Financial systems (banks …)
- Government offices
- Health facilities
- Schools
- Electricity generation and distribution (nuclear plants …)
Land use:
- land cover data (from satellite imagery)
- various municipal structure plans
Emergency response:
- Police
- Fire stations
- Military
Transportation:
- Roads
- Highways
- Railway systems
- Airports
Businesses:
- Business registers (restaurants, shopping centers, hotels ...) → not available to the general public
Weather:
- Weather data and sensors
Industry:
- Factories
- Chemical plants
- Deposits
Population:
- Civil Registers → not available to the general public