Challenges of sharing geospatial data in the Central Asian context Yvo Weidmann

October 31th – November 2nd, 2013 Berne





Agenda

- 1. Introduction
- 2. External factors
- 3. Internal factors
- 4. Knowledge management
- 5. Summary



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Introduction External factors Internal factors Knowledge management Summary





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Knowledge management

Summary

Small-scale hydro power plants study

Ministry of Energy

Important GI component 10

Project time [month]

Geo Idee 15

Project launched Project office not provided Difficulty to find skilled GI staff Knowledge about existing geodata not available Project office after not planned renovation available Thematic GIS layers within the government not available

Base maps within the government not available

Data of international hydrological projects not accessible Hydrological data not provided

Staff after salary payment not at work anymore

Hydrological data with massive Copy-Paste errors provided

Project office sealed Expert mapping of watersheds failed Expert assessment of hydrological data failed

Project closed. No further access to the data.

patial

Groups of factors for success



Introduction **External factors Internal factors Knowledge management** Summary **External factors Governmental structures Educational system Historical background** Corruption Legal framework **Cooperation and coordination** among organizations Geo

Idee

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State secrecy -> corruption

"... Topographical, thematic and other maps in scale 1: 100 000 and larger (1: 50 000, 1: 25 000, etc.) according to the law "On State Secrets", are seen as restricted materials. Provision of this act shall be binding on the territory of the Republic of Tajikistan and beyond, regardless of the source of information. ..."

"... The State Committee on land use planning and Geodesy of the Republic of Tajikistan, Tajik Geology, Company and organizations **having the license may produce cartographic materials.** ..."

Basic regulations for the protection of state secret, approved by the General Directorate of State Secrets under the Government of the RT (Parts 1 & 2, 2003)







State secrecy -> corruption

- 1. Geoinformation historically defined as state secret
- 2. No access to the information for local experts cuts off "Spatial Thinking"
- 3. Impossible to build an officially working SDI
- 4. Unclear access to data leads directly to corruption
- 5. International organizations limit their activities in the field of geoinformation
- 6. Geodetic transformation parameters are secret and limits data integration





Introduction External factors Internal factors Knowledge management Summary



Ge@spatial

------ Data

Geo ldee

Introduction External factors Internal factors Knowledge management Summary Competition and missing cooperation between organizations

- Development cooperation is an industry
- Missing independent (governmental) body managing geodata
- Many organizations acting like silos
- Silos can be right next to each other, but they do not interact

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Example Geodatabases Natural Hazard

Missing coordination of international organizations

- At management level limited awareness about GI.
- Cost-efficiency has low priority.
- Requires political influence at governmental level.
- Needs long-term engagement in the field of GI.

Example Metadatabase

- No financing for long-term infrastructures.
- Missing superior structure with long-term perspective.
- Prototype versus
 Implementation

Knowledge management

Quality of data Availability of data Capacity building Map literacy Projects completed, ongoing and forthcoming Staffing policies **Knowledge of key persons** and organizations

Geo Idee

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Capacity building

- Brain drain and emigration.
- Post civil war generation.
- Differentiation between Research / Teaching / Implementation.
- Corruption.
- Low level primary and secondary schools.
- Missing language skills.

Staffing policies

- Limited engineering positions in project management.
- Almost no senior geospatial experts in project and review teams.
- Design and layout of GI projects done by juniors.
- Average duration of stay of international staff about

Geo Idee 2 years.

Half-life of collective memory

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Half-life of collective memory

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🕇 Data

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Introduction

Thank you for your attention, and let's share ideas ... and beer ...

... at the GeoBeer #5 tonight 19:30

