



ALAGaC



SBDistrict
GOVERNOR
ADMINISTRATION
OFFICE

SUKHBAATAR DISTRICT'S GEOGRAPHICAL INFORMATION DATABASE

12 August 2005

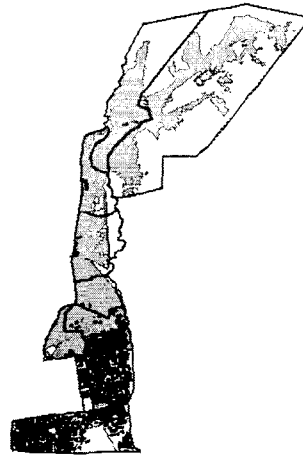
ALAGAC, Geodesy and Cartography
Division

D.Munkhtsetseg, N.Adilbish,
P.Altantsetseg, L.Mandkhai



Contents

- Purpose
- Activities carried out
- Difficulties
- Benefits
- Future plan
- Discussion





Purpose

- To produce a **national program** on Mongolian national spatial data infrastructure

- To produce a model Geographical Information Database /example of Sukhbaatar district/

- To improve the coordination of stakeholder activities; integration, update and maintenance of data



Sukhbaatar District's GID

Stakeholders:

1. ALAGAC, Geodesy and Cartography Division
2. SBD Governor's Administration Office

Financing:

Financed by above two organizations

Duration:

6 months since 15 March 2005

Software:

GeoMedia Pro 4.0

Access



Other stakeholders

Ministry of Construction and Urban development

ALAGAC

ADB Loan Project "Cadastral mapping and Land registration"

Sukhbaatar District Governor's Administration Office

Sukhbaatar district Tax office ...



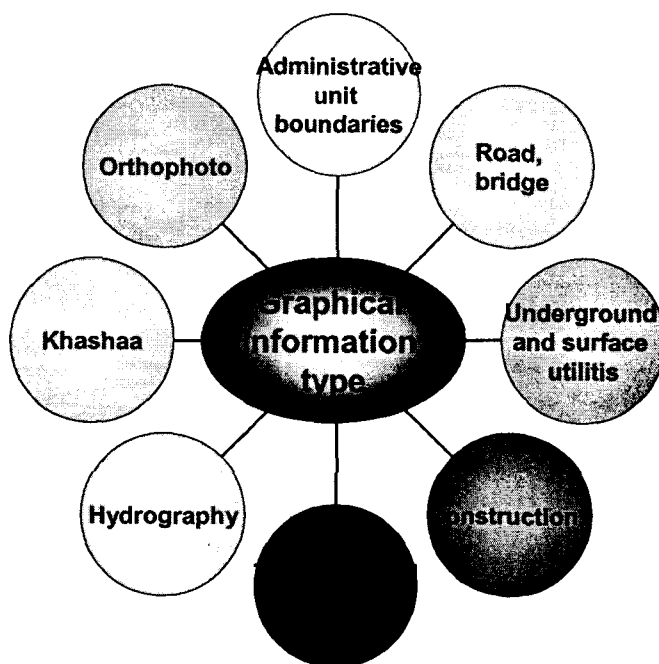
Data resources

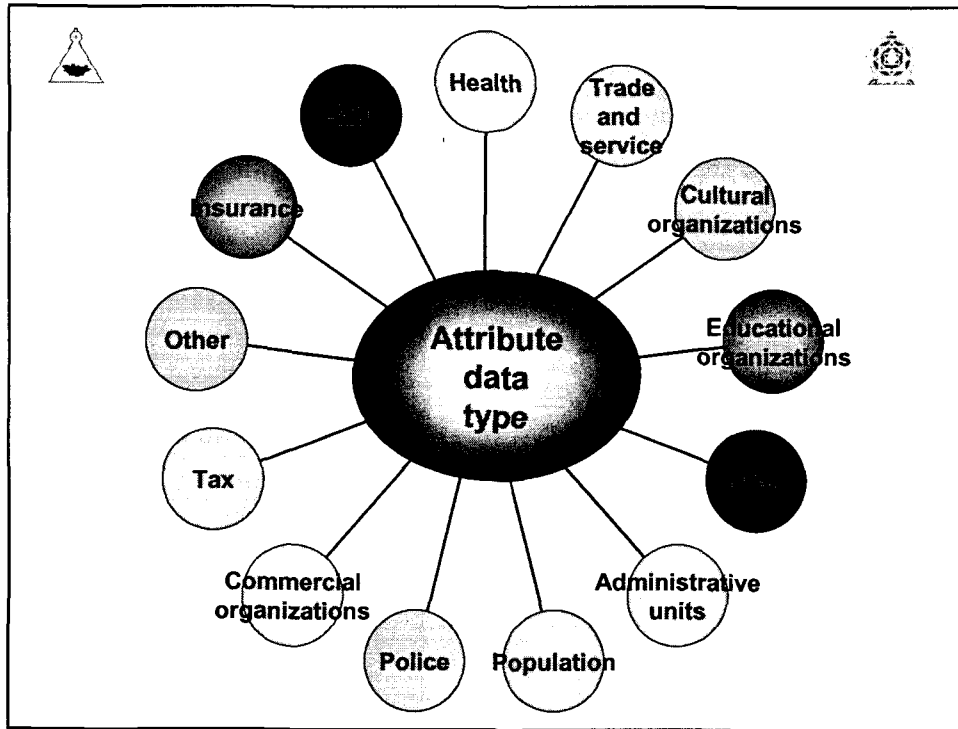
- Graphical informations
 - ✓ Cadastral maps
 - ✓ Topographical maps
 - ✓ Orthophoto
 - ✓ Scheme
 - ✓ Field measurement data



Data resources

- Attribute data
 - ✓ Data of Land Information System
 - ✓ Original materials about district's commercial organizations
 - ✓ Data from stakeholders
 - ✓ Citizens' information





Some statistics

- 5 824 commercial organizations /tax payers/
- 144 679 /citizens' information/
- 552 organizations /trade and service/
- 81 /Hospitals/
- 29 organizations /cultural/





Some statistics

- 94 /Factories/
- 90 /Schools and kindergartens/
- 9 268 /Registered parcels/
- 9 022 /Parcels for house hold use/
- 2 500 /Sewage wells/



Activities carried out

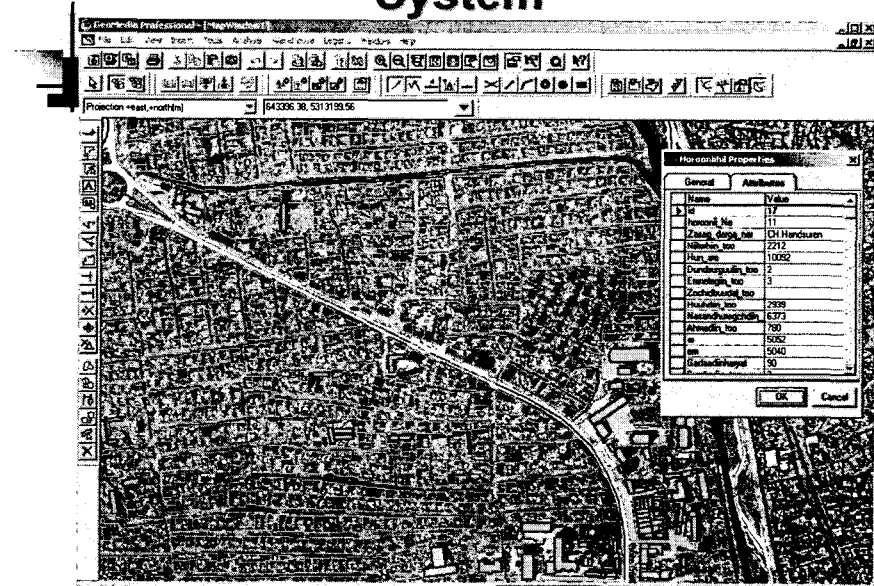
- Produced a preliminary design of database
- Digitization of collected attribute data
- Transformed to one format
- Digitization of base maps



Activities carried out

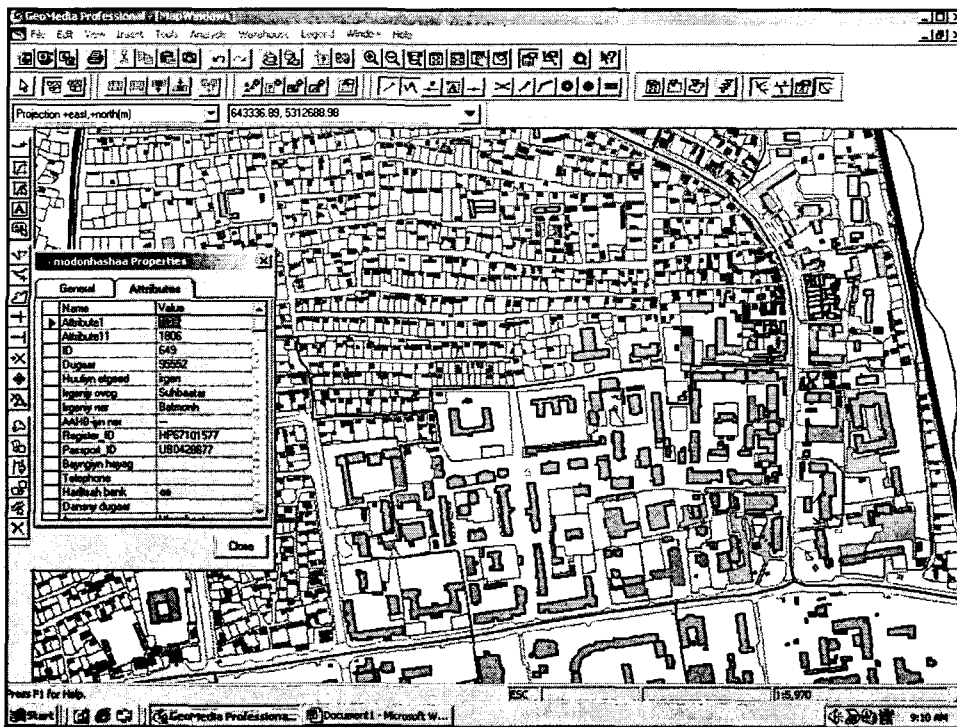
- Insertion of some data from Land Information Database
- Field clarification and collection of information
- Inputted all sewage utilities data
- Inputted citizens' information of all khoroos /smallest administrative unit in district/

Connected to the Land Information System



The screenshot displays the GeoMedia Professional interface. The main window shows a map with a grid overlay. A 'Horizontal Properties' dialog box is open, displaying a table of properties for a selected object.

General	Attributes
Name	Value
Record No	11
Zoning Group	CH Handuon
Area	2312
Perim	10092
Durandussein	2
Landwidth	3
Zonidussein	2939
Perim	2939
Mass-Share	6373
Area	760
Perim	9262
Perim	5040
Surface	90





Field clarification

- Since 2005.06.20 7-13 students worked totally 323 person/hour
- For field clarification:
 - Changes based on Aerial mapping/ 2002.11/, cadastral survey of ger district /2003.10/ were registered
 - A field survey on firms and organizations was made /related to map/
 - A survey related to land valuation was performed



Difficulties

- Secret or inaccessible information
- Paper or analogical data
- Differences in data format
- Lack of connection between information
- Lack of information renewal



Difficulties

- Shortage of evaluation on recorded information
- Differences in data format of LIS
- disordered situation of addresses
- absence and lack of location information
- uncertainty and lack of underground lines and networks



Objectives of GIS

- Urban construction and planning
- To provide required information on society and economics
- To set a possibility to order and unify disordered information
- To set an opportunity on displaying attribute information connecting with maps through location
- To improve mutual relations between the organizations



Due to establishment of GIS:

At the Governor Administrative Offices of Khorooos:

- Opportunities to see extensive information including with maps on households and organizations in the concerned khoroo
- regularly and rapidly updating of information
- To conduct various surveys on civil information of the khoroo
- To classify information



Due to establishment of GIS:

To specialized organizations such as:

- Health
- Educational
- Cultural and scientific
- Trade and service
- Tourist
- Industrial and service
- Police



Due to establishment of GIS:

At the Governor Administrative Offices of Districts:

- To establish a unified database of Khoroos,
- To create database on required information of district departments and to establish information flows between themselves
- To remove repeated information and responsibilities of departments
- To remove lack of information
- To use unified information in all departments



Due to establishment of GIS:

To customers:

- To obtain demanded information from one place
- Multi-purposed searching system
- Open information
- Various kinds of advertisement
- Occasions on exchanging information
- To support updating procedure of information



Future plan

- To collect required field data
- To conclude a procedure on connecting picture data with attribute data
- To add information on lines and networks of land and underground



Future plan

- Monitoring and clarification
- To connect civil information with other information
- To install database into khoroos and departments
- To organize training courses

Discussion

Comments

Suggestions

**Thank you for your
attention**