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Cadastral index map

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Abstract:

- The cadastral Index maps need show lot of information of land such as data owner, geometry land, encumber rights to land, land easements, restrictions on land use, administrative and cadastral division of the territory, surveying data, the land use type and other, which is stored in attribute data. For a visualization of legal status of land parcel using indexes, which consist of legal and other information of the land. For labeling many information of land parcel was written expression by author, for a simultaneous conclusion of an inscription from many fields of attributive data in a own style, gives the chance to automation of hand works. The author offers to use this expression by mapping maps monitoring and valuation agriculture lands and other maps which is possible view lot of information land units.

Objective

- How to create cadastral index map using ArcGIS 10
- Study Land legalization
- Land Information in Cadastral index map
- Way to labeling more land information

Map showing land title

- Cadastral map
- Cadastral index map

Cadastral map is official map showing land parcel boundaries. Cadastral maps may also show forms of land use such as buildings and may be held in digital form as a database.

Cadastral index map

- A map showing the legal property framework of all land within an area, including property boundaries, administrative boundaries, parcel identifiers sometimes the area of each parcel, road reserves and administrative names*.

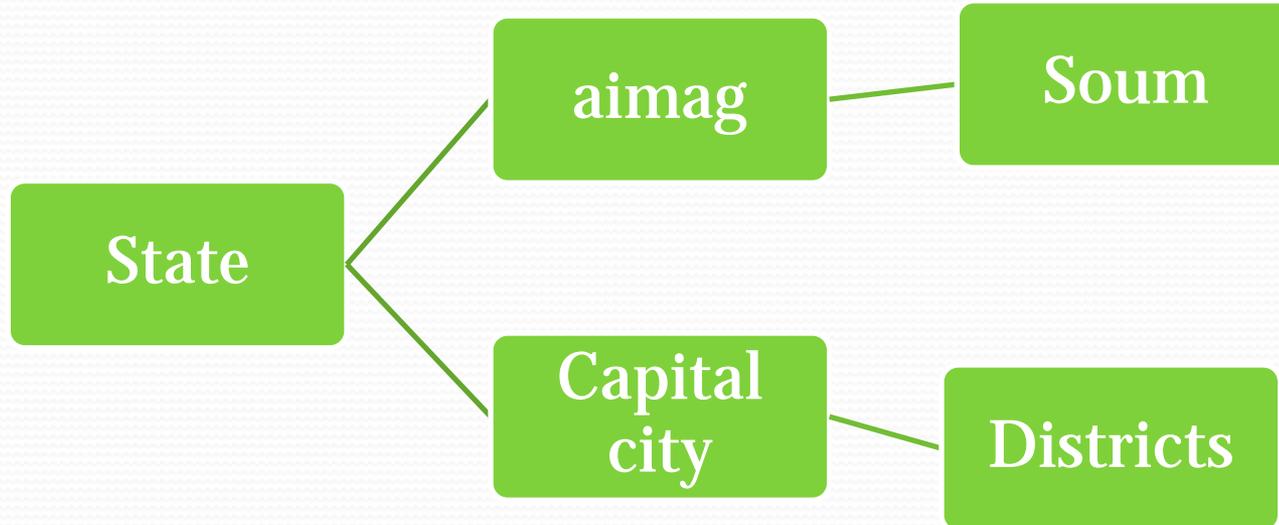
* Land Administration in the UNECE region

Cadastral index map in Mongolia

- Cadastral index map shows boundaries of parcels and real estate objects which have been strongly connected with the land plots, and also various groups of land legal relations: land servitude and all restrictions.
- Cadastral index map shows name land owners, its registration number, address, land use type , area and land use deadline

Information land parcel

- Information land parcel is in digital forms and stores in Land Information Database of each administrative units of Mongolia.



Land information in map

- **unique and unambiguous**
- **complex and compact**

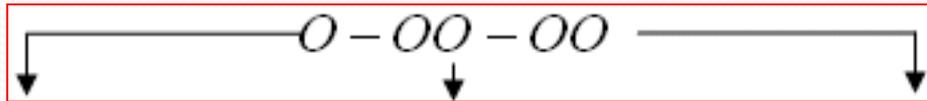
Information in the cadastral index map

$индекс = \{ KKKKKK - KKK \mid SSS.S \mid O - OO - OO \}$

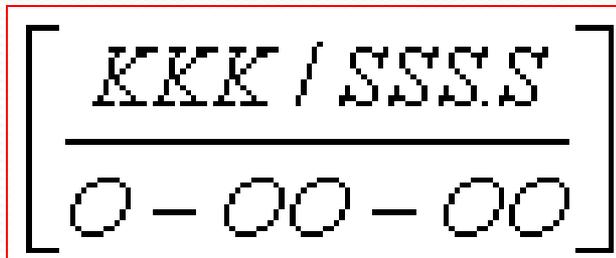
where

$KKKKKK - KKK$ – identification number of land parcel

$SSS.S$ – area



Land use type – restrictions or easement – **term land use**



Structure of information is showing in the cadastral index map

How to do this using ArcMap

Attributes of pasture

FID	Shape	PCL_	CON_	IND_ID	ARI	ID_PAS
424	Polygon	100	52	88a	5	054
428	Polygon	100	37	28	30	037
163	Polygon	100	22	29-24	13	022
185	Polygon	200	18	42	6	018
187	Polygon	200	19	42	9	019
188	Polygon	200	9	42	10	009
190	Polygon	100	12	28	10	012
210	Polygon	100	20	28	7	020
262	Polygon	100	61	20	7	063
272	Polygon	100	11	05a	23	011
276	Polygon	100	30	00	3	030
294	Polygon	100	16	85	11	016
302	Polygon	200	56	42	11	060
303	Polygon	100	57	42	5	059
309	Polygon	100	26	105a	24	026
326	Polygon	100	36	85a	24	036
330	Polygon	100	15	24	17	015
333	Polygon	300	23	105	17	023
346	Polygon	400	21	204	2	021
348	Polygon	100	60	83a	7	062
350	Polygon	200	7	42	33	007
354	Polygon	200	25	42	35	025
361	Polygon	100	5	104a	2	005
362	Polygon	100	2	24*85	1	002
363	Polygon	200	29	42	37	029
364	Polygon	100	6	29-32	37	006

Label Expression

Expression |

Label Fields

Double-click to add a field into the expression

Show Type ▾

ACRES
AREA
PERIMETER
ID_SUB
ID_SERV
T_SERV
ID_PAS

Append Show Values... Display coded value description

Expression

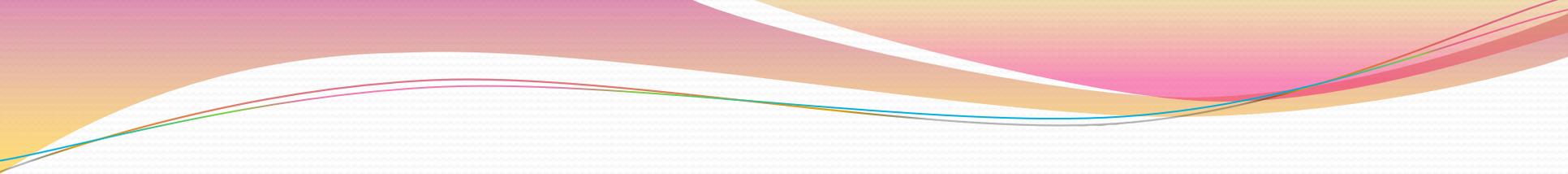
Write a function named FindLabel for the selected parser. Advanced
Add fields as parameters to the function.

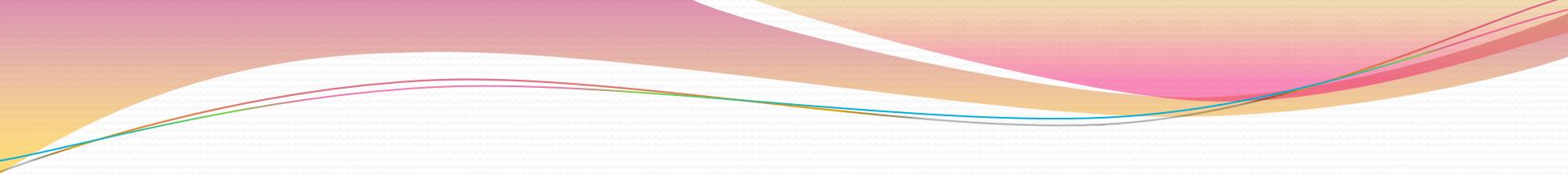
```
Function FindLabel ([ID_PAS], [AREA_HA], [ID_SUB], [ID_SERV], [T_SERV])  
FindLabel = CStr ([ID_PAS]) & "-" & FormatNumber ([AREA_HA], 1) & _  
vbCrLf & "-----" & vbCrLf &  
CStr ([ID_SUB]) & "-" & CStr ([ID_SERV]) &  
& "-" & CStr ([T_SERV])  
End Function
```

Verify Reset Help Load... Save...

Parser: VBScript

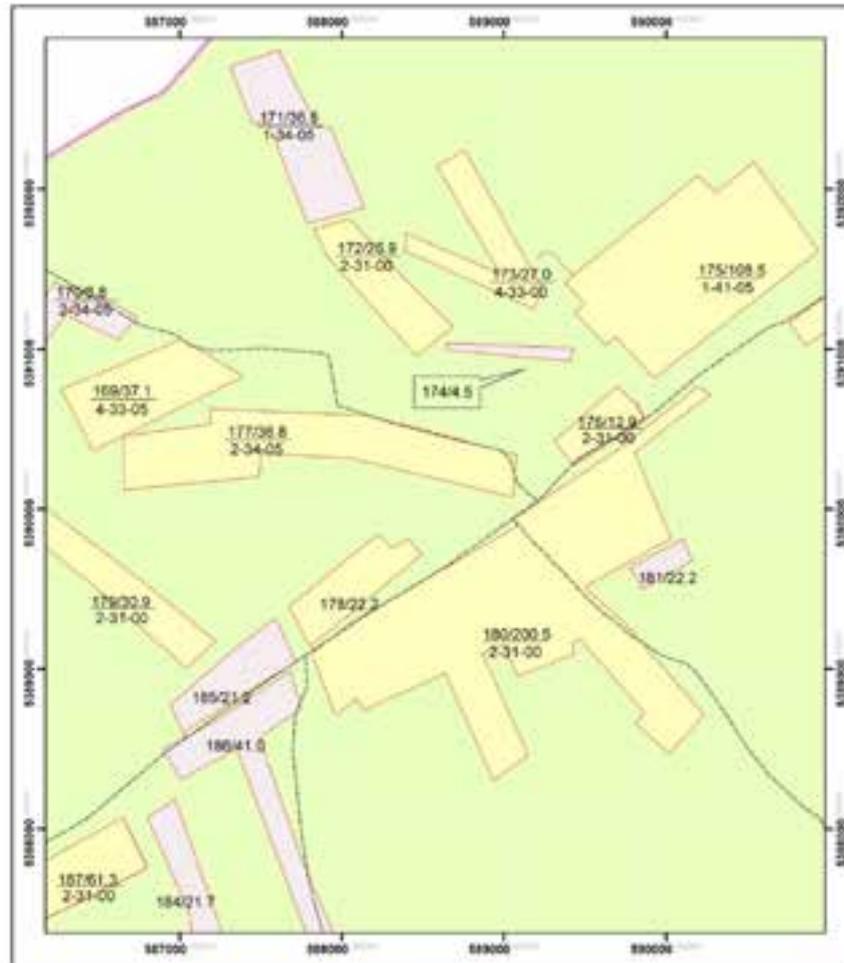
OK Cancel

- 
- **Less time**
 - **No handwork**
 - **More information**



Examples

Фрагмент карты правового положения пахотных земель Борнуур сум Центрального аймака



Условные обозначения

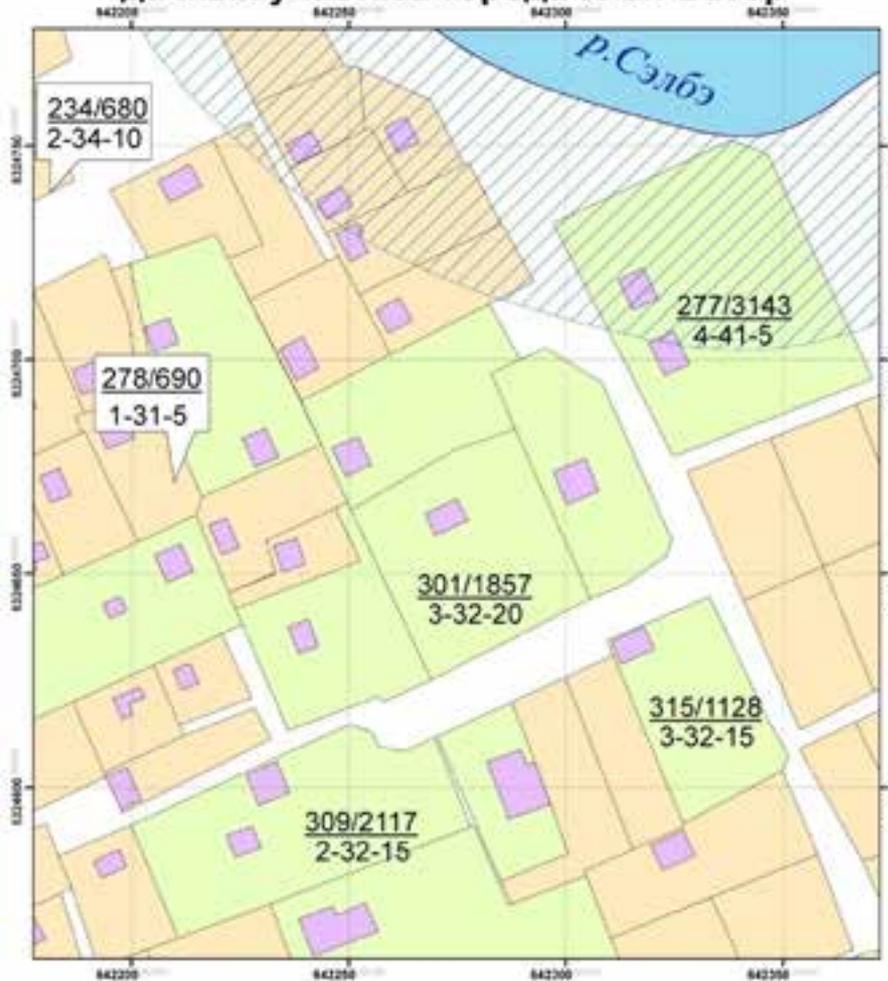
- Граница сумона
- Грунтовые дороги
- Пастбища
- Пашня
- Земель

— Граница достоверных участков

- 171/06.8
2-34-05
- Новая земельный участка / площадь (га)
Субъект права-виды обременения- срок действия
- Субъекты права:
1 - собственник; 2 - землеуладитель;
3 - землепользователь; 4 - арендатор.
- Код Види обременения**
31 - Земельный участок под арендой
33 - Земельный участок под субарендой
34 - Земельный участок под ипотеку
41 - Земельный участок под арестом имущества

Масштаб 1:25 000

Фрагмент карты правового положения земель дачных участков города Улан-Батор



Условные обозначения

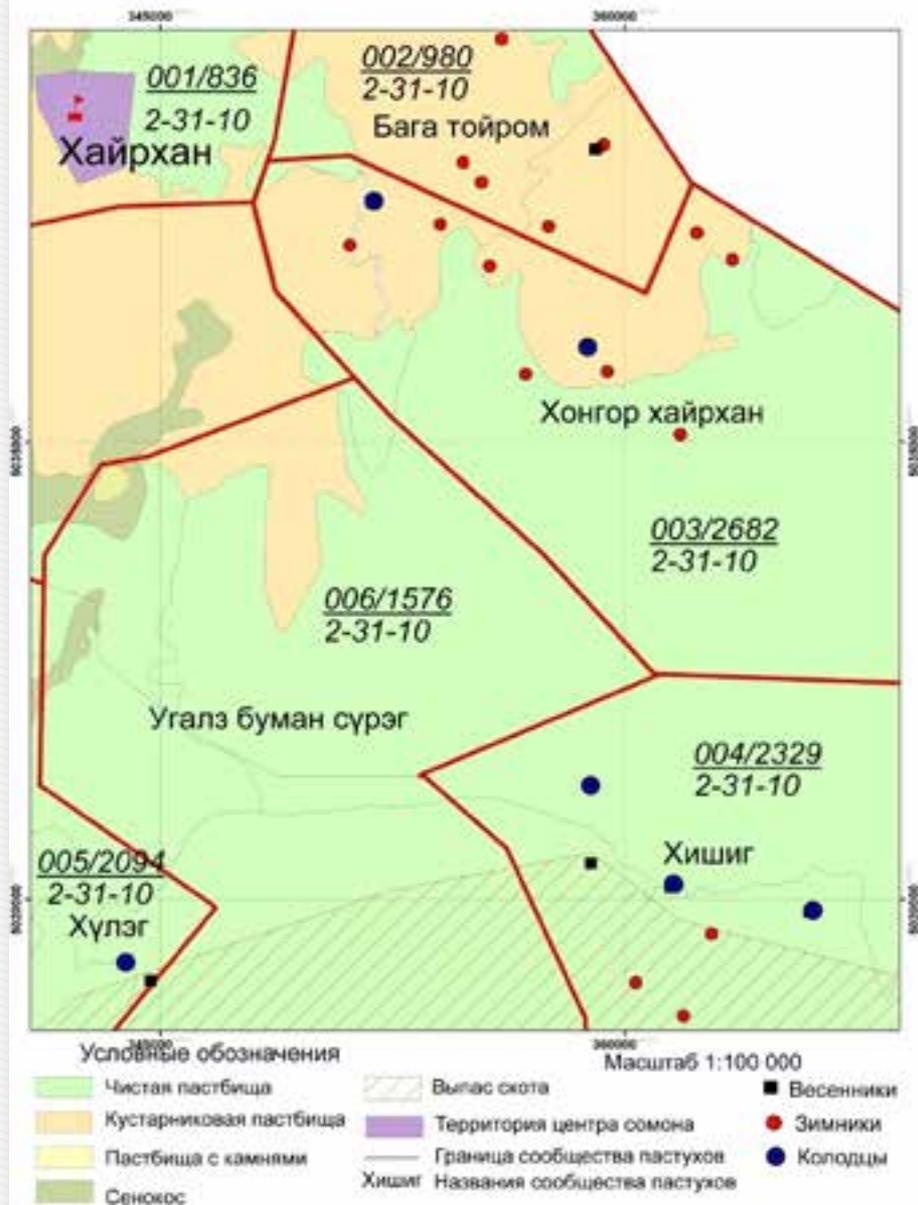
Масштаб 1:1000

- | | | | |
|---|---|---|------|
|  | частные участки |  | река |
|  | частные участки с площадью свыше 700 м ² |  | дома |
|  | защитная зона реки | | |

309/2117
2-32-15

Номер участка/ площадь (м²)
Субъект-виды обремен.-срок

Фрагмент карты использования пастбищных земель



Thank you for attention

