

## Experience of Cadastral Information Supply via Internet

Michael KLEBANOV, Joseph FORRAI



TS 31 – Portals and Land Administration  
Joseph Forrai, Michael Klebanov  
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## INTRODUCTION

*Survey of Israel (SOI) is the top governmental institution, setting standards, initiating legislation, licensing surveyors, supporting and initiating R&D, managing and maintaining national geodetic infrastructure and national GIS.*

*SOI is responsible for cadastral mapping, supervises preparation of cadastral block maps and mutation plans and approves them, maintains and stores original records and drawings pertaining to the cadastral process.*

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## INTRODUCTION (cont.)

*Cadastral information is stored in SOI as a result of its statutory activity of managing and supervising the cadastral process.*

*Urgent task of implementing an effective data supply mechanism occupies central place in SOI efforts to make this service simple, available and reliable.*

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## REGISTRATION METHOD AND CADASTRAL PROCESS

Land registration method in Israel (Registration of Titles) is based on the *Torrens principles*:

- *The State is responsible for description of parcels' boundaries as they were registered in the Land Registry Office.*
- *Subject of registration is the land parcel.*
- *Parcel's boundaries and the objects situated inside the parcel (buildings, walls and fences) are thoroughly surveyed, and parcel's area is calculated.*

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## CADASTRAL INFORMATION SUPPLY

Historically, cadastral process, based on hand made maps and manual geodetic calculations, was accompanied by *registering basic information at the SOI* for further supply.

In the past there was a specific form of *recording mutation plans in the blocks for dual purpose*:

- *To list mutation plans ID.*
- *To present the numbers of existing parcels planned to be changed and the new ones to be created by means of a mutation plan and to be registered in the Land Registry Office.*

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## CADASTRAL INFORMATION SUPPLY (cont.)

Block Number	New Parcels Numbers	Old Parcels Numbers	M. Plans ID
1007	64-67	64-65	1
	64-65	64-65	2
	64-65	64-65	3
	64-65	64-65	4
	64-65	64-65	5
	64-65	64-65	6
	64-65	64-65	7
	64-65	64-65	8
	64-65	64-65	9
	64-65	64-65	10
	64-65	64-65	11
	64-65	64-65	12
	64-65	64-65	13
	64-65	64-65	14
	64-65	64-65	15
	64-65	64-65	16
	64-65	64-65	17
	64-65	64-65	18
	64-65	64-65	19
	64-65	64-65	20

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## CADASTRAL INFORMATION SUPPLY (cont.)

Some years ago SOI initiated a project of developing a computerized information system ("Computerized Block Cards Index" - CBCI) based on cadastral process that provides input of reliable information about block parcels and mutation plans.

CBCI became an important part of the whole cadastral process supplying essential data to the professionals (not necessarily to surveyors but also to municipal plan designers, lawyers, land assessors and to some others specialists).

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## FREE INTERNET ACCESS TO CADASTRAL DATA

Disadvantage: in order to obtain important information, the client was obliged to arrive personally to SOI office.

After analyzing the situation, SOI made a strategic decision to expand the new developed CBCI system access by supplying its information via Internet.

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## FREE INTERNET ACCESS TO CADASTRAL DATA (cont.)

New information system "Block / Parcel Index" (BPI) was developed on the basis of CBCI system to provide essential cadastral information to professional surveyors, to private persons and to governmental agencies engaged in cadastral process via Internet.

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## FREE INTERNET ACCESS TO CADASTRAL DATA (cont.)

The BPI system enables to perform search operations according to the kind of information available to user: mutation plan ID number, block and parcel number.

On the basis of this information user can get the following data:

- Block details: list of mutation plans, old parcels numbers, new parcels numbers, parcels transfer from one block to adjacent one.
- Mutation plan details: block number, involved parcels numbers, surveyor's license number and his contact details.
- Parcel's history details: the origin of the parcel (original arrangement or re-parceling) and the mutation plan ID which canceled it.

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## BLOCK / PARCEL INDEX SYSTEM

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## BLOCK DETAILS

Block	New Parcels	Old Parcels from Adj. Block	Old Parcels	Block	M. Plan ID
106			96.97	16/1959	1
112-114			103,6-7,	289/1969	2
			19-12		3
			60-62,64-65	792/1969	4
	1	93	11553	2/1974	4
	125			3/1974	5
107-111			91,102-104	68-70	6
131			58-61,64-65	7/1978	6
				609/1981	7
115-130,132			91,102-104	610/1981	8

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## MUTATION PLAN DETAILS

מס' חלקה	שטח	מס' חלקה	שטח	מס' חלקה	שטח
112	10100	108-110	116-117,138	200	3
5	11	10100			

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## PARCEL'S HISTORY

מס' חלקה	שטח	מס' חלקה	שטח	מס' חלקה	שטח
33	10100	276	540007	1	1

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## USERS' FEEDBACK

64,000 visitors to the website during 7 months.

In August 2006: 650 visitors per day.  
Excellent users' comments!

# SUCCESS!!!

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## PERSPECTIVES OF A FURTHER DEVELOPMENT

Saving results of the BPI system  
"transactions" *in desirable format.*

Implementation of digital image information supply through Internet.

Binding the BPI system (based on alphanumeric data) to the GIS data obtained in the cadastral process.

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# THANK YOU FOR YOUR ATTENTION

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