

**Twenty-fifth session
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Activities relating to the Working Group on Toponymic Data Files and Gazetteers

Estonian Place Names in the National Information System and the Place Names Register*

* Prepared by Mall Kivisalu (Estonia), Land Board of Estonia, in collaboration with Aule Kikas (Estonia), Ministry of the Interior and Peeter Päll (Estonia), Institute of the Estonian Language

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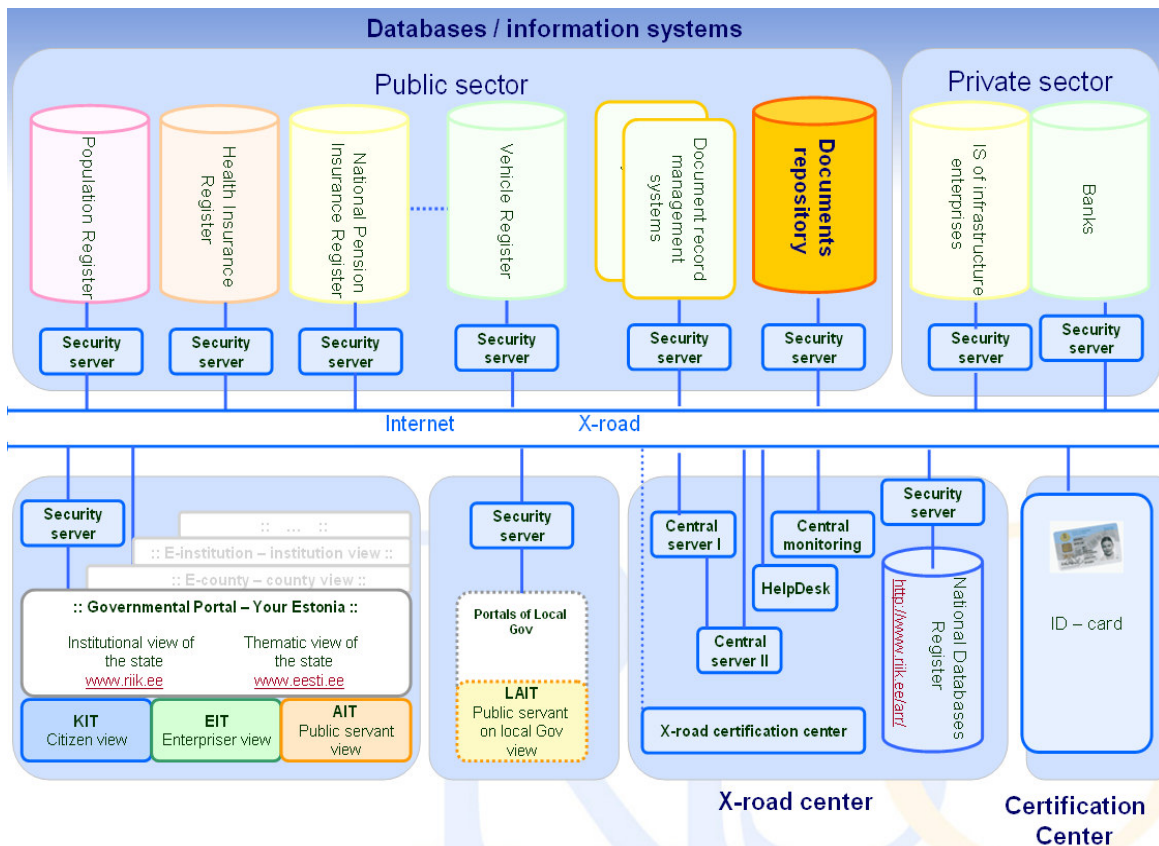
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- Estonian national information system
- ADS – support system for maintenance of databases
- National Place Names Register

Since July 1st, 2008 the Land Board of Estonia (Maa-amet) is responsible for maintaining the National Place Names Register. The Land Board has integrated the Place Names Register into its other systems dealing with address data, cadastral information, etc. The Place Names Register has been redesigned on a new basis and in January 2009 the new version became available also on the web, with bilingual interface (Estonian, English). Use of the data is encouraged in every way, there is no charge for using the database. Web addresses are given at the end of the document.

Estonian national information system

The following picture indicates some of the most essential elements of the system.



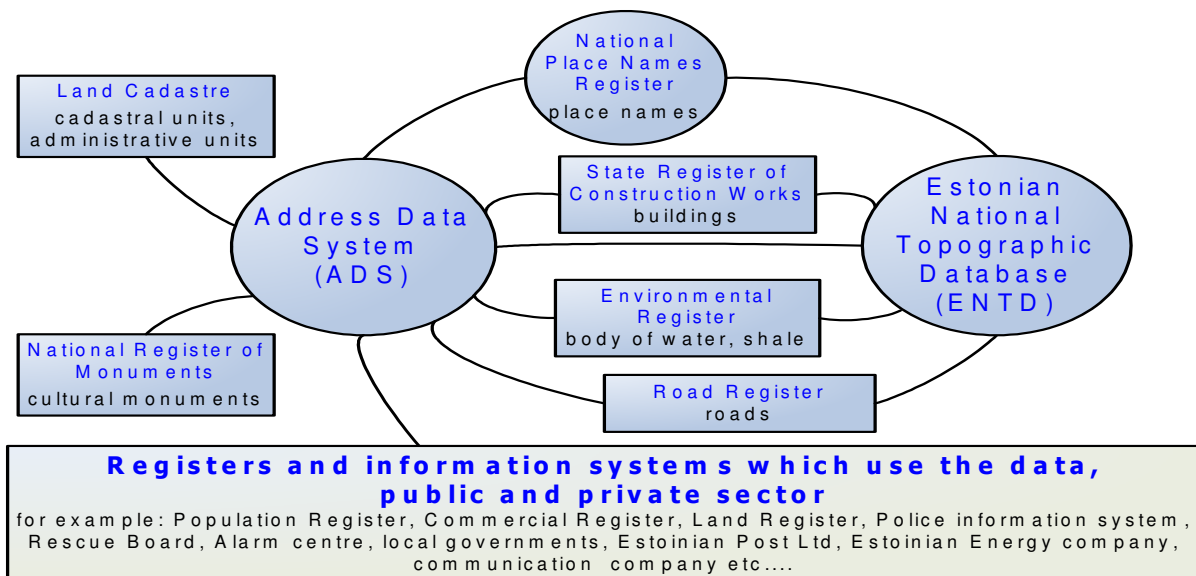
The main elements are:

- 1) systems and registers of the public sector. Only a few of them are shown. Place Names Register, ADS and the Estonian National Topographic Database (ENTD) belong into this category;
- 2) databases of the private sector (e.g. banks, enterprises of infrastructure);
- 3) government information portal – Your Estonia - with all services, meant for people;
- 4) local government information systems;
- 5) national register of databases, X-road certification center;
- 6) ID-card certification center.

X-road is an environment designed to facilitate the exchange of data between various databases. More information is available (in English) at <http://www.ria.ee/index.php?id27309>.

Registers

The following scheme indicates the position of the Address Data System (ADS) and the Place Names Register with regard to other databases that are important for the establishment and use of place names.



ADS is not responsible for creating data itself but collects address data from different information systems, so that there would be no need for users to make data requests from several databases.

Spatial data is created for the most part in the Estonian National Topographic Database (ENTD); other information systems can use their data.

ADS is a support system for the maintenance of databases, consisting of (in the context of place names):

- a **central technological solution** (ADS administration system):
 - including interfaces for processing address data and providing address services, and databases processing address data ;
- **requirements** for
 - the form of addresses,
 - the establishment of geographical addresses,
 - officials processing the address data,
 - the official processing the ADS administration system,
 - address services,
 - the processing of addresses.

The ADS includes, among others, the following data:

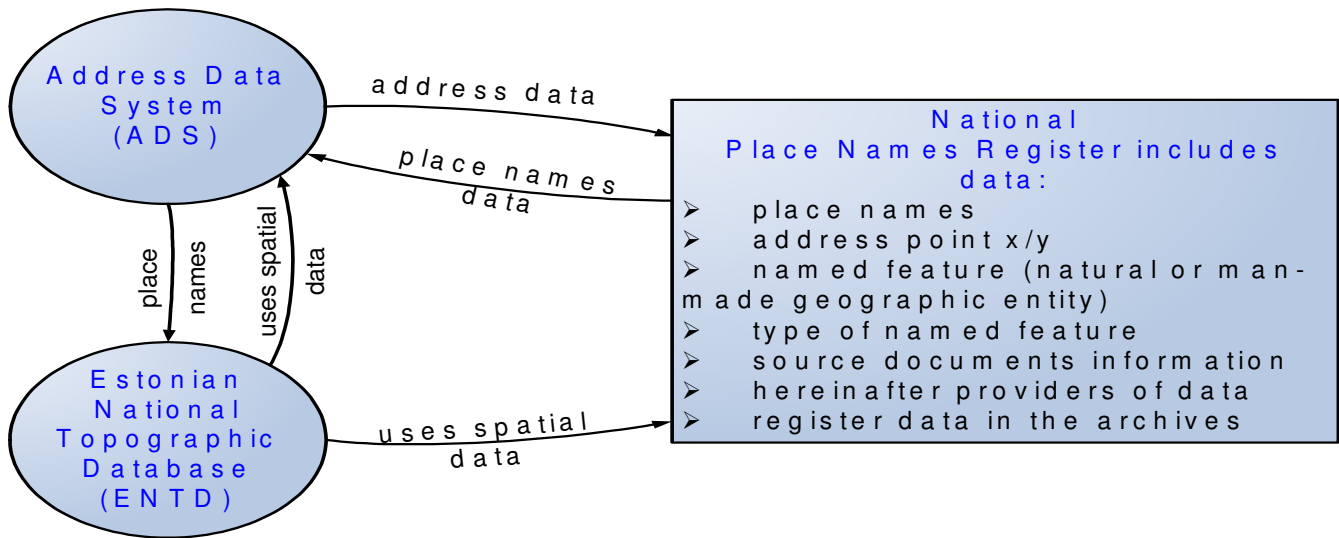
- place names,
- geographical addresses,
- coordinates of address points,
- the dates of commencement and termination of the validity of the address data,
- information on the status of address objects,
- spatial addresses.

National Place Names Register

Official place names are entered in the National Place Names Register. Also the set of data concerning place names in the national cartographic database constitutes the National Place Names Register. A guiding principle in designing the new register has been the cross-usage of information between various databases. The data must always come from its originator, i.e. the authority responsible for creating or collecting the information; other systems, as much as possible, must not duplicate the data but use the X-Road environment to update their data from its originators.

Data exchange

The exchange of data between the Address Data System, the Estonian Topographic Database and the National Place Names Register at present is realized in the way shown on the following scheme. In January 2009 development for a new software of the Place Names Register was completed simultaneously with the public service of the register.



New public service of the Place names register

Public service interface is available both in Estonian and in English. The following is the opening form of the service.

X-GIS(4) Portal

Riikliku kohanimeregistri avalik teenus
 Vastutav töötaja Siseministeerium
 Volitatud töötaja Maa-amet

X-GIS(4) Portal

Home

SEARCH FROM PLACE NAMES REGISTER

Additional information about the Place Names Register can be obtained: from the web pages of the [Ministry of the Interior](#), the [Place Names Board](#) and the [Land Board](#)
 * X-GIS map window needs Macromedia Flash Player v8.0
 * As a result of Search these place names will be displayed that correspond to all predefined criteria
 * Empty Fields do not limit the selection

Place name or part of name

starts with *

Place name status

Place name procedure status

Language

Type of named feature

Additional information (remarks)

County

Municipality

Settlement unit

Identifier

Space filter (L-Est coordinate system)

X-coordinate L-EST (6 300 000-6 700 000)

Y-coordinate L-EST (300 000-800 000)

Extent (m)

Place Names Register <http://www.maaamet.ee/kvr/>

Find E-mail Home

The service allows to search place names by:

- a name or a part of the name,
- status,
- language,
- the type of named feature,
- administrative affiliation (county, municipality, populated place),
- using the Space filter.

Query results

The first 1,000 results of the query will be displayed as a table:

Please review search terms, over 1000 results found, only the first 1000 results shown!

: names found

Language	Place name status	Place name procedure status	Type of named feature	Additional information	County	Municipality	Settlement unit	X	Y	Identity Number of a Place Name
▼ ▲	▼ ▲	▼ ▲	▼ ▲	▼ ▲	▼ ▲	▼ ▲	▼ ▲	▼ ▲	▼ ▲	
eesti	ametlik põhinimi	kehtiv	liikuspind		Harju maakond	Tallinna linn	Lasnamäe linnaosa	6589784.2	548690	Identifier
eesti	ametlik põhinimi	kehtiv	liikuspind		Harju maakond	Tallinna linn	Keskinna linnaosa	6587103.3	542751.8	Identifier
eesti	ametlik põhinimi	kehtiv	liikuspind		Harju maakond	Tallinna linn	Keskinna linnaosa	6589268.8	542875.5	Identifier

Query results can be exported

The whole list of search results can be exported to *.csv file. There are no restrictions for capacity, if needed, the entire register can be exported:

maakond		linnaosa				figure	
Harju maakond	Tallinna linn	Pirita linnaosa	6594668.18	549412.73	Identifier	Spatial figure	EKI
Harju maakond	Tallinna linn	Lasnamäe linnaosa	6588087.1	545239	Identifier	Spatial figure	EKI
Harju maakond	Tallinna linn	Pirita linnaosa	6595003.48	549687.99	Identifier	Spatial figure	EKI
Harju maakond	Tallinna linn	Lasnamäe linnaosa	6587931.96	547340.62	Identifier	Spatial figure	EKI
Harju maakond	Tallinna linn	Kristiine linnaosa	6586974.82	540167.95	Identifier	Spatial figure	EKI
Harju maakond	Tallinna linn	Mustamäe linnaosa	6585020.2	537417.58	Identifier	Spatial figure	EKI

561...	641...	721...	801...	881...	961...
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[Export CSV](#)

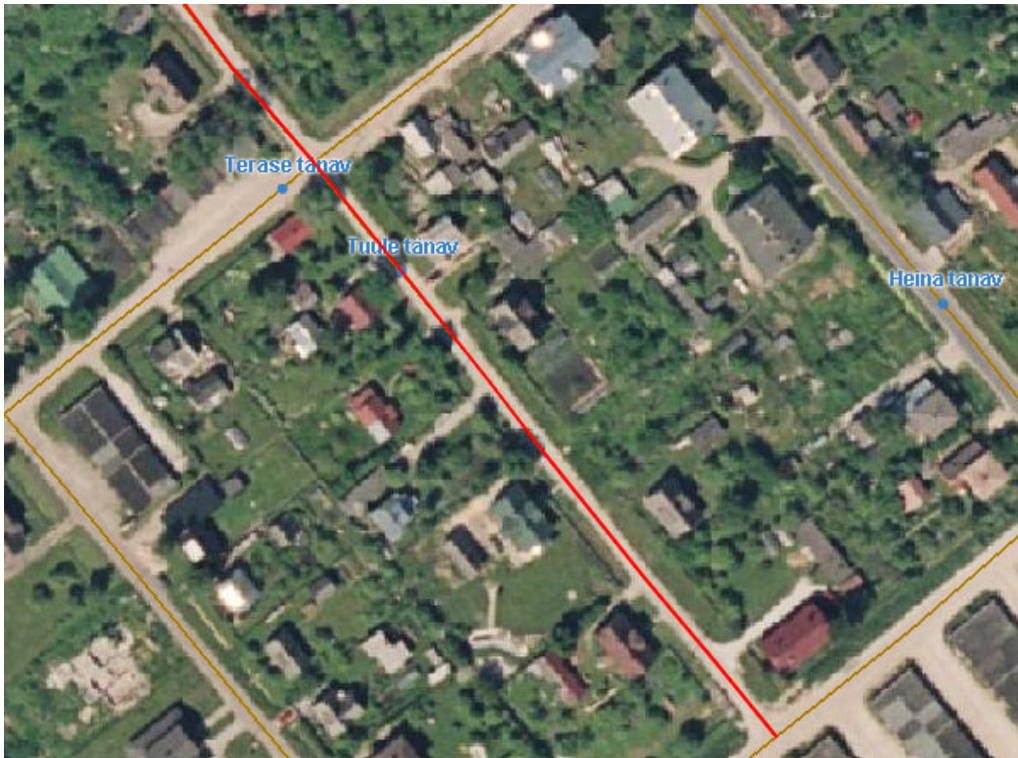
Map application and additional information

The user will be able to move to the location of the object on the map (by clicking 'Identifier' or 'Spatial figure') and to see the full record of the place name (title of the document establishing the name, etc. in Estonian):

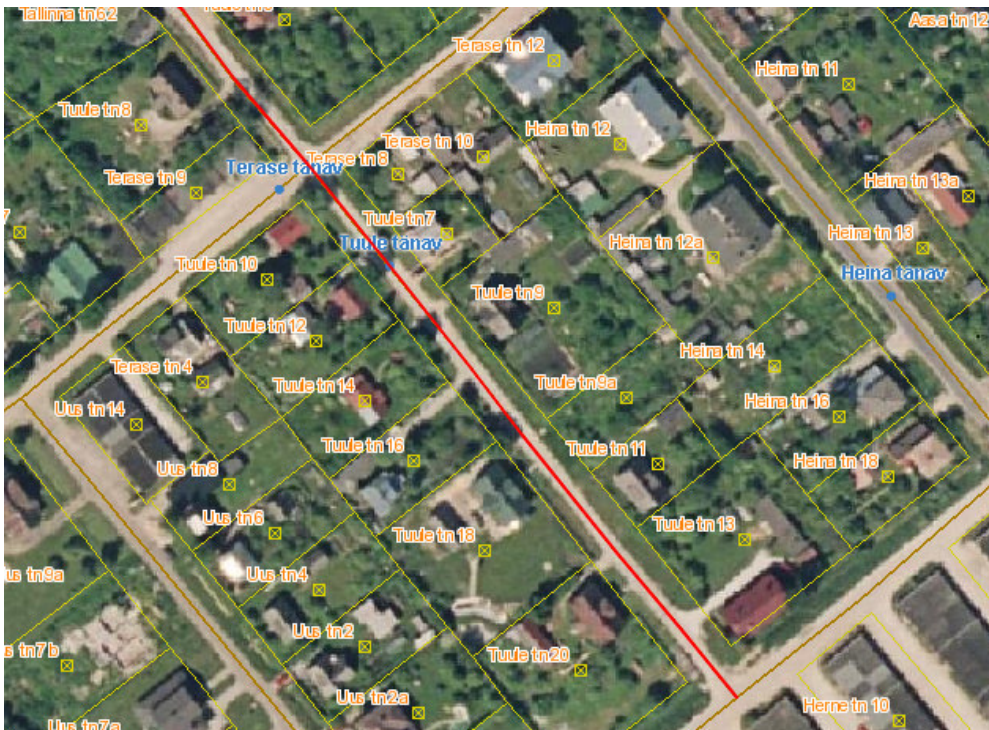
X	Y	Identity Number of a Place Name	ADS_OID (to map)	EKI	Place name in full record
↕ ⤴	↕ ⤴				
6589784.2	548690	Identifier	Spatial figure	EKI LINK	Record
6587103.3	542751.8	Identifier	Spatial figure	EKI LINK	Record
6589268.8	542875.5	Identifier	Spatial figure	EKI LINK	Record
6589263.5	542930.6	Identifier	Spatial figure	EKI LINK	Record

Use of official place names in ADS

The following screenshots will give an idea of the map interface of the register.



Road's name in the Place Names Register, address point x/y and road's geometry in ENTD



Cadastral parcel geometry and geographical addresses in Land Cadastre

More information is available on the web:

- Place Names Act:
<http://www.legaltext.ee/et/andmebaas/paraframe.asp?loc=text&lk=et&sk=en&dok=X70058.htm&query=kohanimeseadus&tyyp=X&ptyyp=RT&pg=1&fr=no>
- The Place Names Board of Estonia <http://www.eki.ee/knn/index2.htm>
- Government of the Republic Regulation No. 251 of 20 December 2007 “Address Data System”:
<http://www.legaltext.ee/et/andmebaas/paraframe.asp?loc=text&lk=et&sk=en&dok=XXX0011.htm&query=aadress&tyyp=X&ptyyp=RT&pg=1&fr=no>
- The Place Names Register is available at: <http://xgis.maaamet.ee/knravalik/>.
- National Place Names Register in English: <http://xgis.maaamet.ee/knravalik/knr?LANG=EN>
- Estonian Land Board: <http://www.maaamet.ee/>
- Web Map Server: <http://xgis.maaamet.ee/>
- Address Data System (ADS) :
http://www.maaamet.ee/index.php?lang_id=2&page_id=472&menu_id=78
- The original presentation document: <http://www.maaamet.ee/docs/ADS/UNGEGEN.ppt>