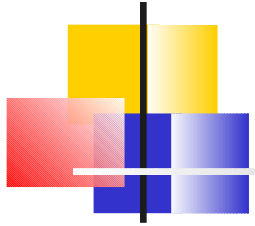




Tallinn on move towards digital city

Vaino Olev
02.03.2006



General data about Tallinn

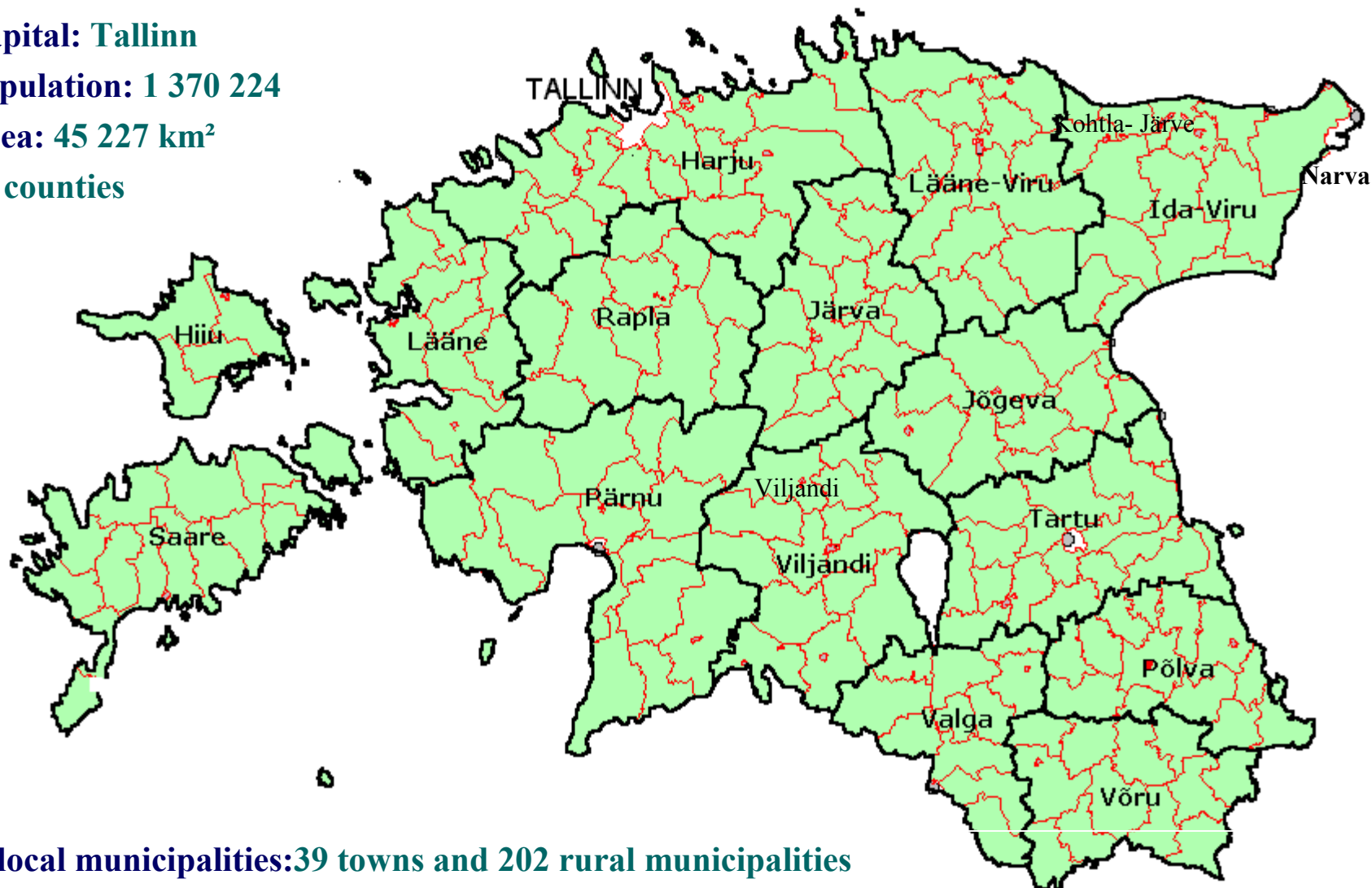
Republic of Estonia - Rural municipalities

Capital: Tallinn

Population: 1 370 224

Area: 45 227 km²

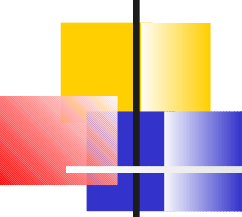
15 counties



241 local municipalities: 39 towns and 202 rural municipalities

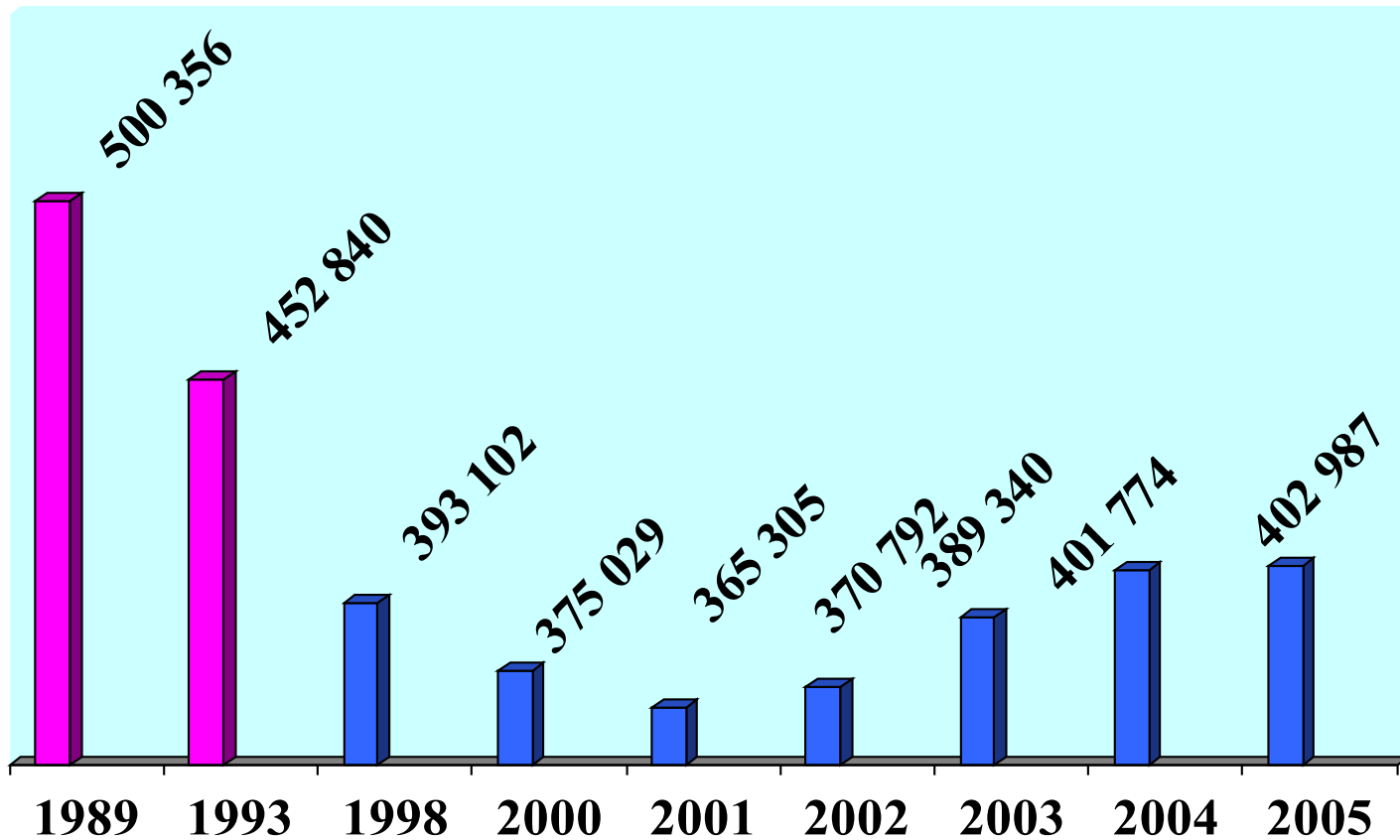
(227 local municipalities: 33 towns and 194 rural municipalities since 10.2005)

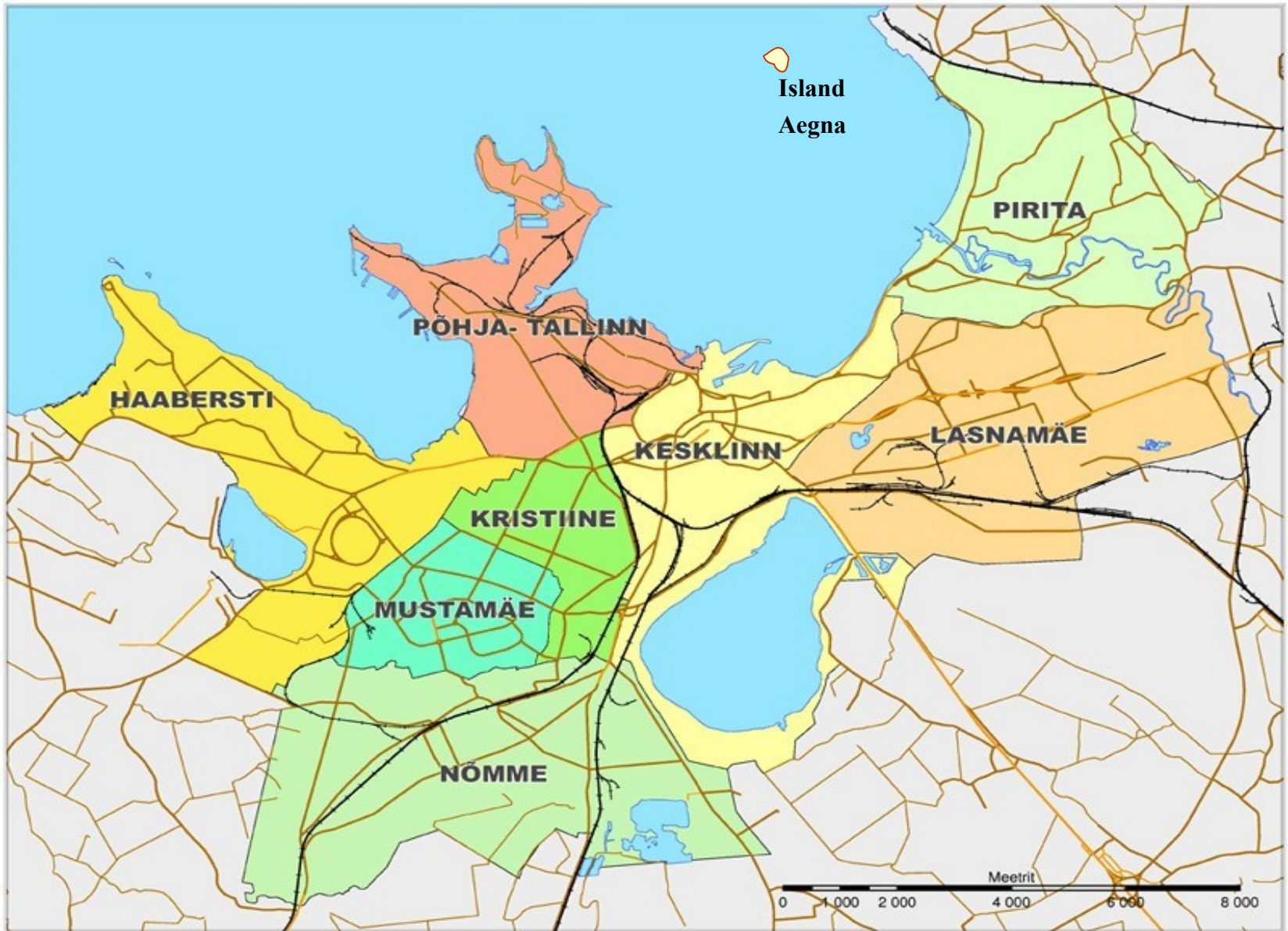
The biggest and the smallest municipalities



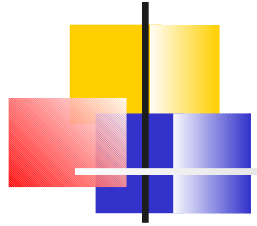
	POPULATION
Tallinn	402 987
Tartu	100 413
Narva	69 012
Kohtla- Järve	44 267
....
Vormsi	317
Piirissaare	101
Ruhnu	101

Tallinn population 1998-2005





TALLINN CITY DISTRICTS ;



*e*Tallinn action plan
-
framework of City *e*Services
development

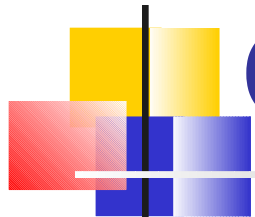


eTallinn action plan

- Agenda - adopted by Tallinn City IT Council in October 2002
- Main idea - Lead the economic and social transformation of the information society in its most local and direct form
- eTallinn = framework for development of City eServices

On-line Sales and Ticket Checks

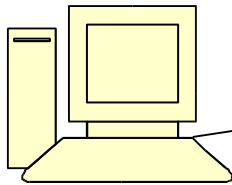
Sales 1312



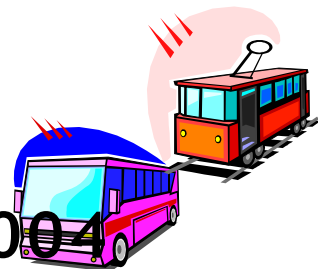
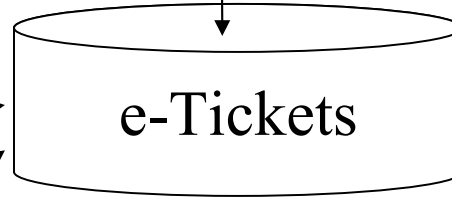
Phone



Internet



Cash



Helpline 1777

in use from 01.03.2004



Sales Channels

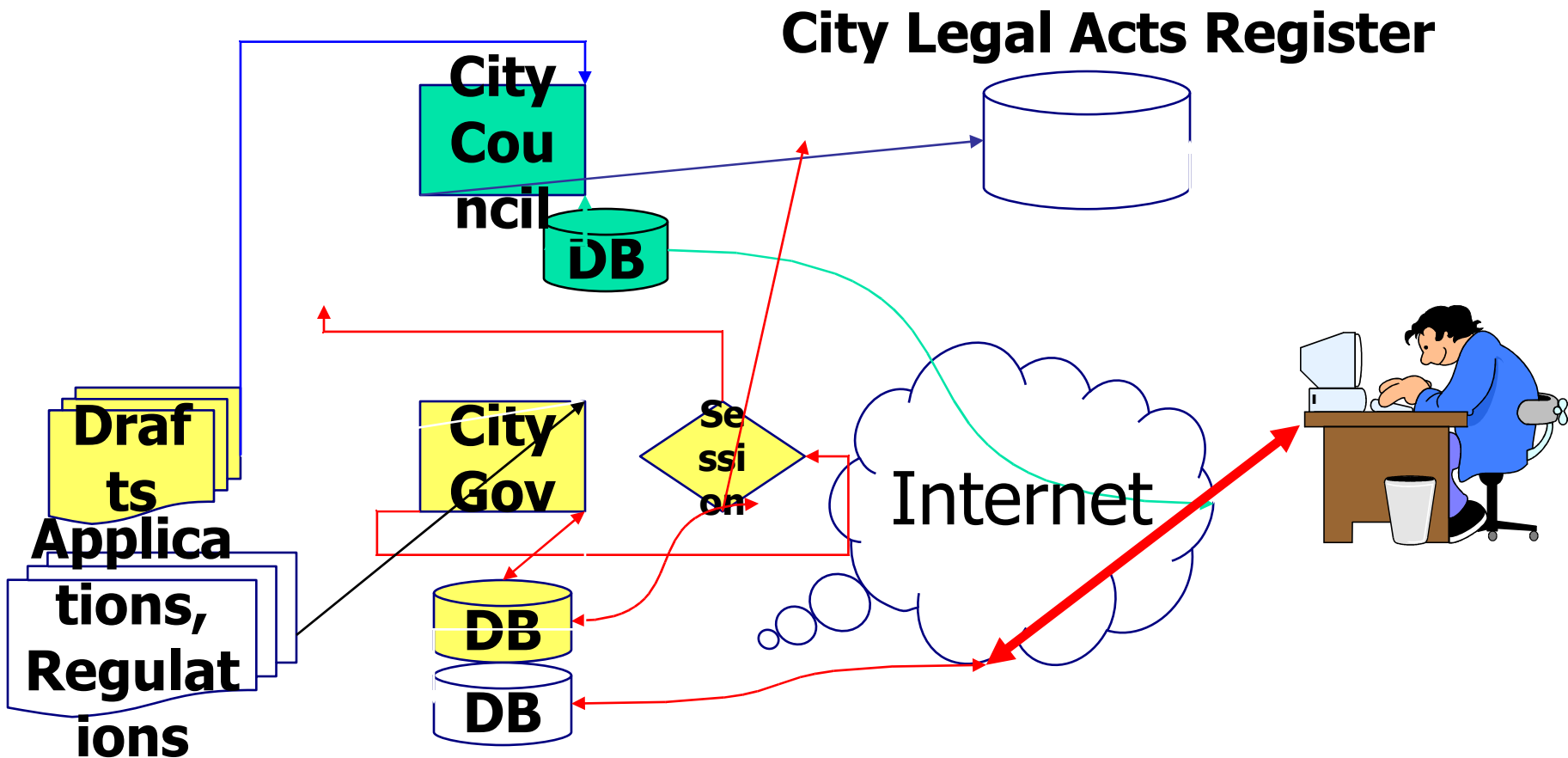
- Internet banking 16,4 %
- Mobile and fixed phones 8,1 %
- City offices 18,9 %
- Other cash sales 56,6 %

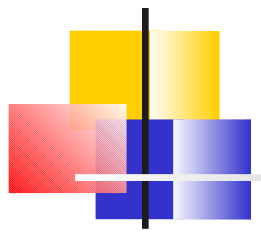
2 months after launch ID ticket usage is 70%

City Government Service Point



Tallinn City Digital Document Processing Information System (DDPIS)





City Government Document Processing (PostiPoiss of 23 city departments)

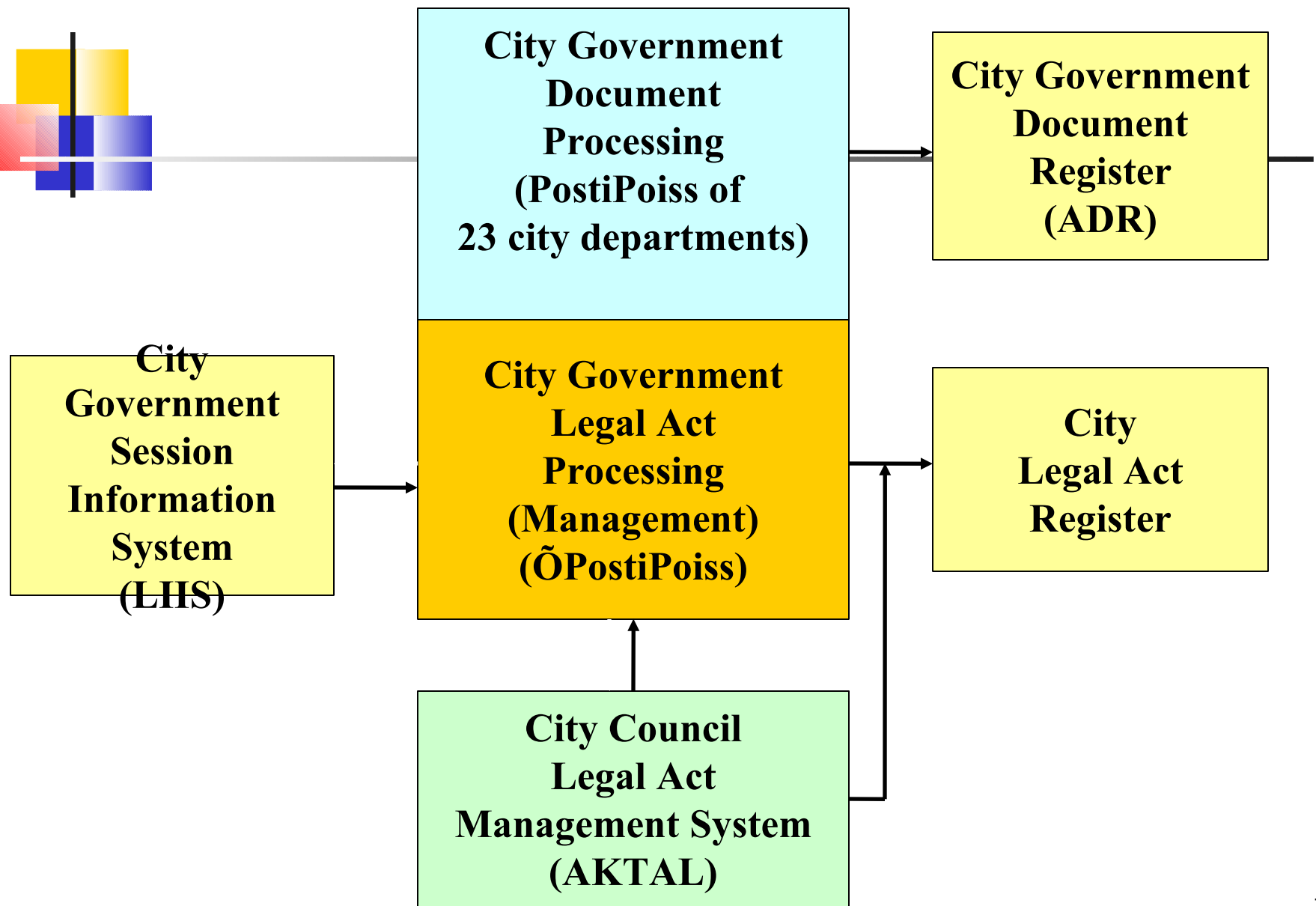
City Government Document Register (ADR)

City Government Session Information System (LHS)

City Government Legal Act Processing (Management) (ÕPostiPoiss)

City Legal Act Register

City Council Legal Act Management System (AKTAL)





Development of modern IT infrastructure

Increasing flexibility to access City
services

City WiFi



WiFi in Tallinn

- Estimated 10'000 WiFi APs in Tallinn*
 - 43% without WEP
 - Careless home users
 - Possible to use anonymously
- 39 Elion WiFi areas in Tallinn
 - Approximate 200 APs in Tallinn
 - Authenticated users
 - Commercial network

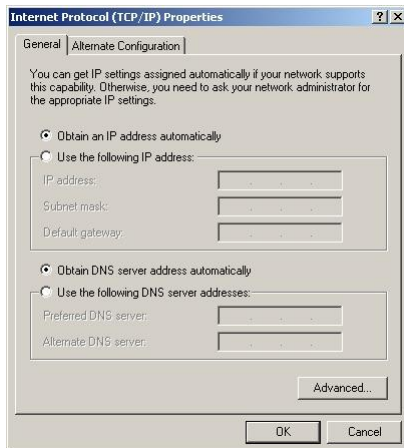


Tallinn municipal WiFi

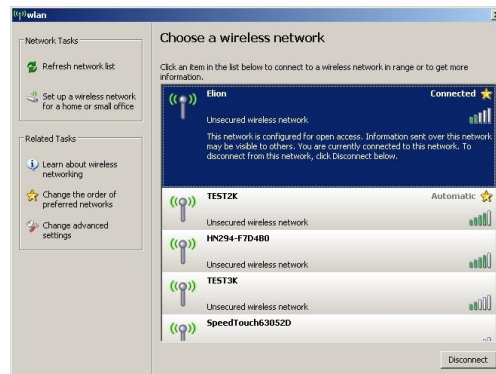
- Areas or “HotSpots”
 - Three SSID’s
 - “VV7”
 - “Pirita”
 - “Linnawifi” (all areas in future)
 - 11 HotSpots
 - 5 in Pirita city district
 - 3 in Mustamäe city district
 - 2 in Nõmme city district
 - 1 in central part of city

Key elements in solution

- Easy client configuration
 - IP configuration by DHCP
 - Everything is automatic
 - Public areas

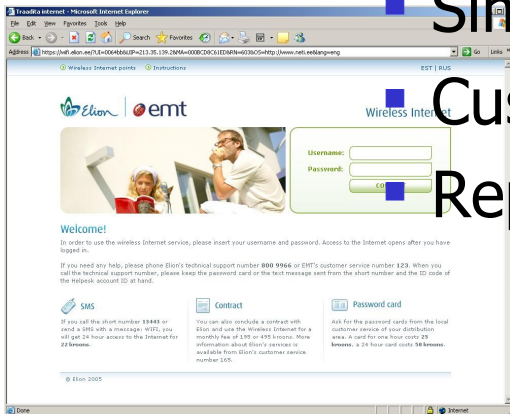


No "key" needed to access WiFi



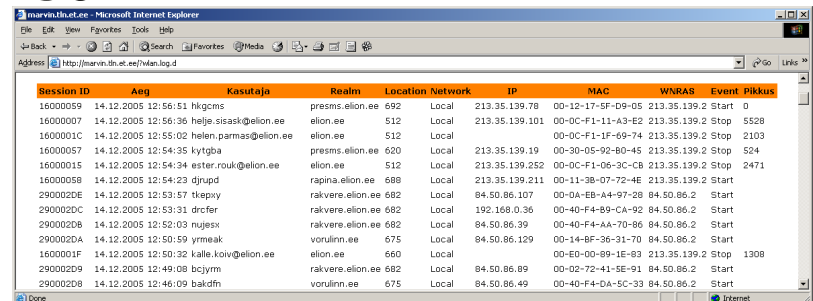
Key elements in solution

- Easy client authentication
 - Authentication via web portal
 - No client software needed
 - Possible to customize for different areas
 - Username by SMS or call
 - Simple to request
 - Custom SMS solution for Tallinn
 - Reply always by SMS



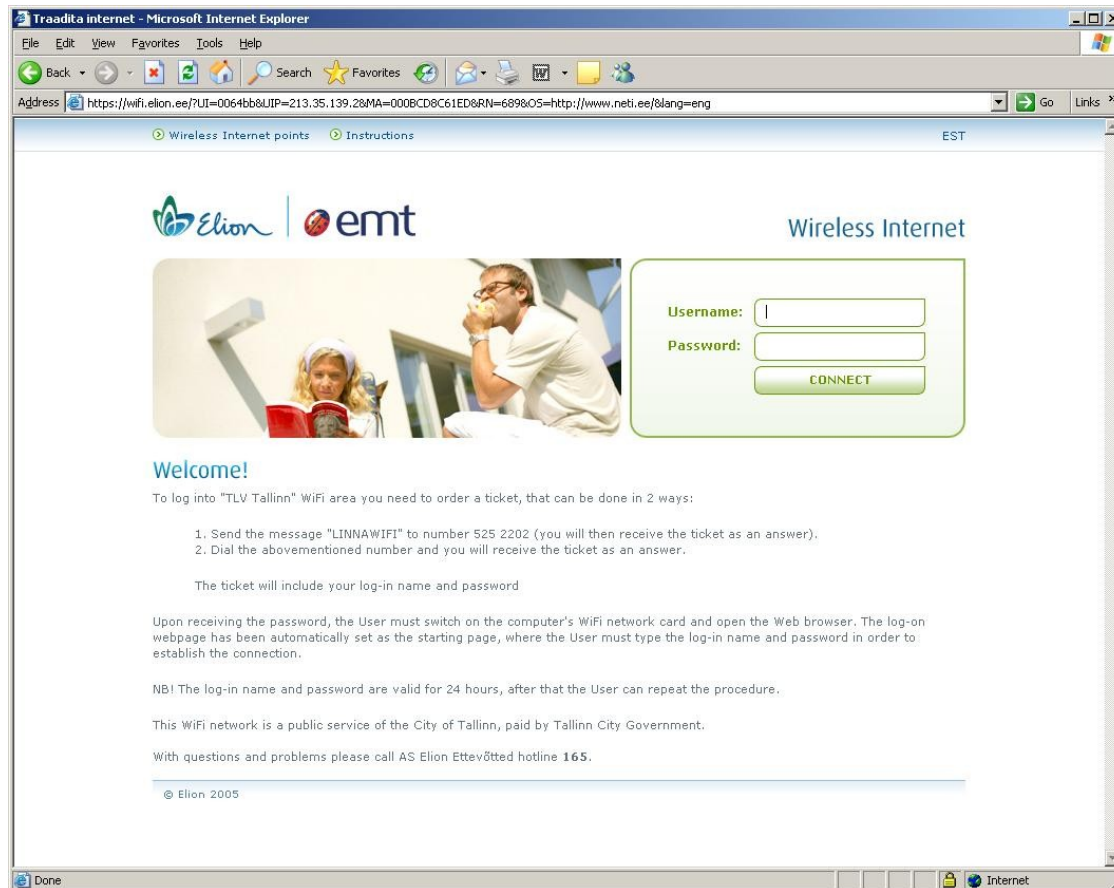
Key elements in solution

- No un-authenticated clients
 - Everything is logged
 - Statistics
 - Tracking
 - Hackers
 - Mobile number stored
 - Client is reachable



Session ID	Aeg	Kasutaja	Realm	Location	Network	IP	MAC	WNRAS	Event	Pikkus
16000059	14.12.2005 12:56:51	hkgims	presms.elion.ee	692	Local	213.35.139.70	00-12-17-5F-09-05	213.35.139.2	Start	0
16000007	14.12.2005 12:56:36	helje.sisask@elion.ee	elion.ee	512	Local	213.35.139.101	00-0C-F1-11-A3-E2	213.35.139.2	Stop	5520
1600001C	14.12.2005 12:55:02	helen.parmas@elion.ee	elion.ee	512	Local	213.35.139.101	00-0C-F1-1F-69-74	213.35.139.2	Stop	2103
16000057	14.12.2005 12:54:35	kytgb	presms.elion.ee	620	Local	213.35.139.19	00-30-05-92-80-45	213.35.139.2	Stop	524
16000015	14.12.2005 12:54:34	ester.rouk@elion.ee	elion.ee	512	Local	213.35.139.252	00-0C-F1-06-3C-C8	213.35.139.2	Stop	2471
16000058	14.12.2005 12:54:23	djrppd	rapina.elion.ee	689	Local	213.35.139.211	00-11-38-07-72-4E	213.35.139.2	Start	
290002DE	14.12.2005 12:53:57	tkexpy	rakvere.elion.ee	682	Local	84.50.86.107	00-0A-EB-A4-97-28	84.50.86.2	Start	
290002DC	14.12.2005 12:53:31	drcfer	rakvere.elion.ee	682	Local	192.168.0.36	00-40-F4-A9-CA-92	84.50.86.2	Start	
290002DB	14.12.2005 12:52:03	nujesx	rakvere.elion.ee	682	Local	84.50.86.39	00-40-F4-AA-70-86	84.50.86.2	Start	
290002DA	14.12.2005 12:50:59	yrmeak	vorulnn.ee	675	Local	84.50.86.129	00-14-8F-36-31-70	84.50.86.2	Start	
1600001F	14.12.2005 12:50:32	kalle.koiv@elion.ee	elion.ee	660	Local	84.50.86.129	00-E0-00-89-1E-03	213.35.139.2	Stop	1308
290002D9	14.12.2005 12:49:09	bcjyrm	rakvere.elion.ee	682	Local	84.50.86.89	00-02-72-41-5E-91	84.50.86.2	Start	
290002D8	14.12.2005 12:46:09	bakdfn	vorulnn.ee	675	Local	84.50.86.49	00-40-F4-DA-5C-33	84.50.86.2	Start	

Authentication Portal



Traadita internet - Microsoft Internet Explorer

Address: <https://wifi.elion.ee/?UI=0064bb&UIP=213.35.139.2&MA=000BCD8C61ED&RN=689&OS=http://www.neti.ee/&lang=eng>

Wireless Internet points | Instructions EST

Elion | emt

Wireless Internet

Username:

Password:

CONNECT

Welcome!

To log into "TLV Tallinn" WiFi area you need to order a ticket, that can be done in 2 ways:

1. Send the message "LINNAWIFI" to number 525 2202 (you will then receive the ticket as an answer).
2. Dial the abovementioned number and you will receive the ticket as an answer.

The ticket will include your log-in name and password

Upon receiving the password, the User must switch on the computer's WiFi network card and open the Web browser. The log-on webpage has been automatically set as the starting page, where the User must type the log-in name and password in order to establish the connection.

NB! The log-in name and password are valid for 24 hours, after that the User can repeat the procedure.

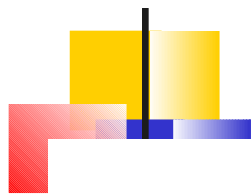
This WiFi network is a public service of the City of Tallinn, paid by Tallinn City Government.

With questions and problems please call AS Elion Ettevõtte hotline **165**.

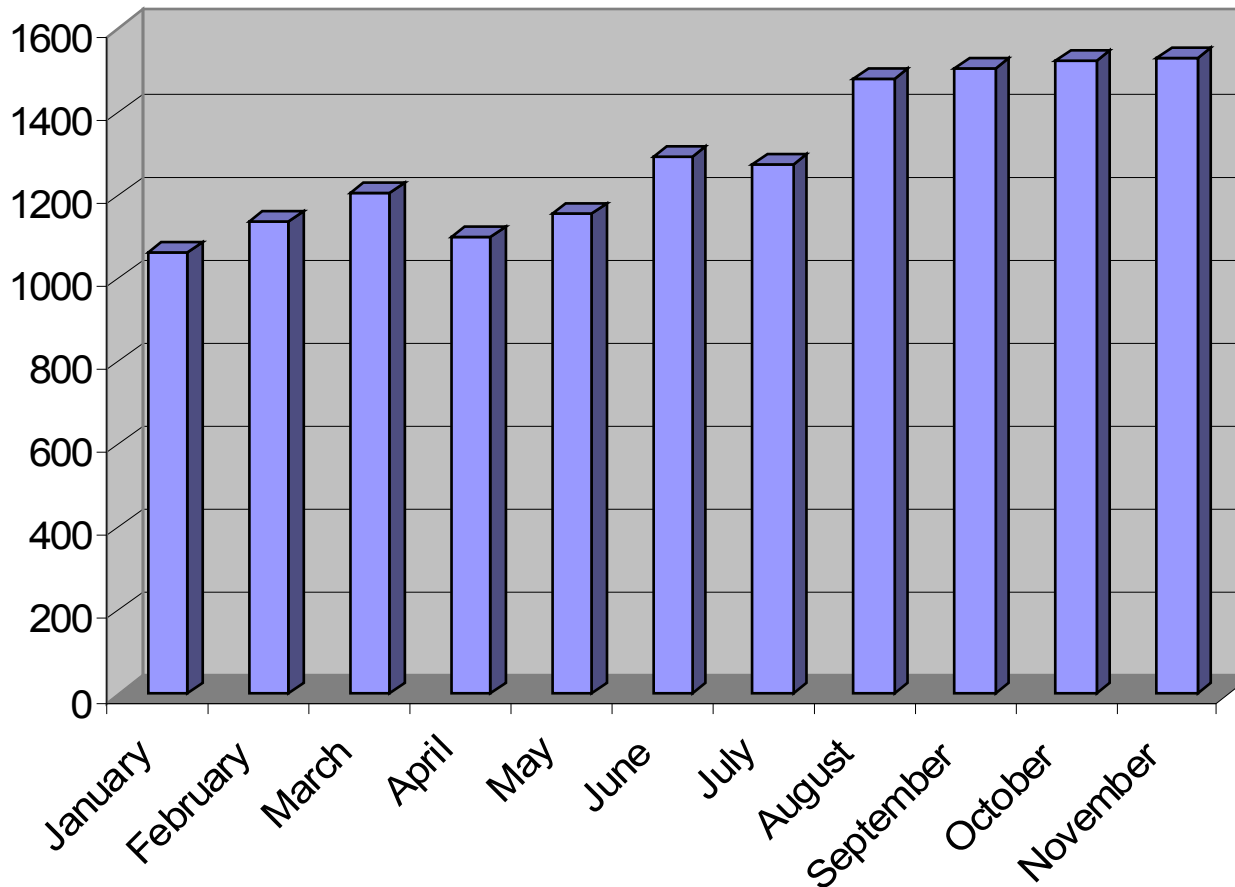
© Elion 2005

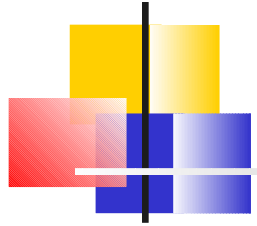
Done Internet

Growth and potential - 2005



Different MAC addresses seen in Elion WiFi network





Thank you for attention!
Questions?