

# Mapping of telecommunications infrastructure in Slovenia – AKOS part

Marko Simončič

12.4.2016

### Stakeholders involved



AGENCY FOR COMMUNICATION NETWORKS AND SERVICES OF TI REPUBLIC OF SLOVENIA

AKOS is an independent body that regulates and supervises the electronic communications market, manages and supervises the radio frequency spectrum in the Republic of Slovenia, performs tasks in the field of radio and television broadcasting, and regulates and supervises the postal and railway service markets.



The Surveying and Mapping Authority of the Republic of Slovenia is a body within Ministry of the environment and the spatial planning



REPUBLIC OF SLOVENIA MINISTRY OF EDUCATION, SCIENCE AND SPORT

Directorate for the Information Society is responsible for accelerated, harmonised and efficient development of the information society based on knowledge and life-long learning.



### **Basic information about Slovenia**





In 2004 Slovenian Surveying and Mapping Authority started with the development of the central database, called consolidated cadastre of public infrastructure.

CONSOLIDATED CADASTRE OF PUBLIC INFRASTRUCTURE - February 2013		
Roads	Object	139.543
Railways	Object	7.526
Airports	Object	89
Harbours	Object	1.096
Cable railways	Object	164
Electric energy	Object	1.391.296
Natural gas	Object	387.879
Heat energy	Object	67.738
Oil	Object	214
Water supply	Object	886.337
Sewer	Object	702.296
Waste	Object	3.758
Green surfaces	Object	0
Water infrastructure	Object	7.844
Natural resources	Object	0
Electronic communications	Object	2.427.668



## Rules on the land register of the communications network and associated facilities





## Public view of Consolidated cadastre of public infrastructure





## Legal background for mapping of electronic communications – network termination points

AKOS was included into the mapping project in 2012, together with the Ministry of education, science and sport – Directorate for the Information Society and The Surveying and Mapping Authority of the Republic of Slovenia





## Legal background for mapping of electronic communications – network termination points

**'Network termination point'** shall mean the physical point at which a subscriber is provided with access to a public communications network; in the case of networks involving switching or routing, the network termination point shall be identified by means of a specific network address, which may be linked to a subscriber number or name.





## Legal background for mapping of electronic communications – network termination points

On the basis of the Electronic Communications Act, AKOS adopted secondary legislation in order to make sure that business secret of the owners of infrastructure will be protected.

#### General act on entry, collection and access to data in the register of infrastructural networks and facilities.

- Dealing with more detailed prescriptions of the legal demands
- Classification of the users of data
- Exchange Format





splošno iskanje

>> Napredno iskanje

Počisti polje

stegne 7

lšči

>> Pomoč

## Publically available information about possible capability

Katastrska občina	Številka stavbe	Katastrski vpis	Število delov stavbe	Vrednost nepremičnine	Grafični prikaz		
1738 DRAVLJE	1584	DA	76	na voljo samo za del stavbe	<b>9</b>		
Legenda:	Podatki Registr	a nepremičnin	Podatki Katastra s	stavb Podatki drug	ih upravljavcev		
Katastrska ob	čina 1738 številk	a stavbe 1584		-			
Podrobni pod	atki o stavbi						
NASLOV STAVBE			Liubliana, Stegne 7				
NETO TI ORISNA POVRŠINA STAVBE (M2)			6445.9				
POVRŠINA ZEMLJIŠČA POD STAVBO (M2)		1431					
DEJANSKA RABA STAVBE		nestanovanjska					
ŠTEVILO ETAŽ		7					
ŠTEVILKA PRITLIČNE ETAŽE		2					
VIŠINA STAVBE (	VIŠINA STAVBE (M)			25,4			
LETO ZGRADITVE	E		1979				
LETO OBNOVE ST	LETO OBNOVE STREHE			2008			
LETO OBNOVE FASADE			-				
MATERIAL NOSIL	NE KONSTRUKCIJE		2 - beton, železobeton				
DVIGALO	DVIGALO			Da			
VRSTA OGREVAN	AL		1 - daljinsko ogrevanje				
PRIKLJUČEK NA 1	VODOVODNO OMRE	ŽJE	Da				
PRIKLJUČEK NA I	K NA ELEKTRIČNO OMREŽJE Da						
PRIKLJUČEK NA I	KANALIZACIJSKO O	MREŽJE	Da				
PRIKLJUČEK NA	OMREŽJE PLINOVO	DA	Ne				
PRIKLJUČEK NA	OMREŽJE ZA KABEI	LSKO TV	Da				
VRSTA (TIP) STA	VBE		1 - samostoječa stavba				
NAČIN TEMELJEN	ALF		1 - pasovni, točkovni ten	nelji			
PRIKLJUČEK NA	TEHNOLOŠKI PLIN		Ne				
PRIKLJUČEK NA I	INDUSTRIJSKI TOK		Da				
PRIKLJUČEK NA I	KOMPRIMIRAN ZRAI	к	Ne				
ČISTILNA NAPRA	VA		Ne				
Podatki o širo	kopasovnem inte	rnetu					
OMOGOČENA ZM	OGLJIVOST		100 Mb/s				



AKOS **establish its own database**, with all the inputs, which are already available and with the additional data collected from owners of electronic communications infrastructure, in order to get complete picture of the networks available in Slovenia.





















Households in municipality with and without network termination point



#### Legenda

- gospodinjstva z OPT
- gospodinjstva brez OPT
- Kartografska podlaga
- Državna pregledna karta merila 1:250.000



















### Timeline





Future steps



## Room for improvement!



Thank you for your attention!

Marko.simoncic@akos-rs.si