

Volunteered geographic information and OpenStreetMap

Hrvoje Bogner
OpenStreetMap Hrvatska

Development

- Development of modern technologies
- Cheap GPS devices
- High quality digital cameras
- Large number of mobile devices
- Mobile broadband

Examples

- WikiMapia
- OpenStreetMap
- Google Map Maker
- Gathering of information to create better maps

Panoramio

- <http://www.panoramio.com/>
- Georeferenced photographs
- Part of Google services
- Visible in browser or in Google Earth



Map Satellite

Topusko 2012-04-09



Panoramio

hbogner

Popular

Recent

Places

Indoor

☐ Also show photos not selected for Google Earth



Pop
ph

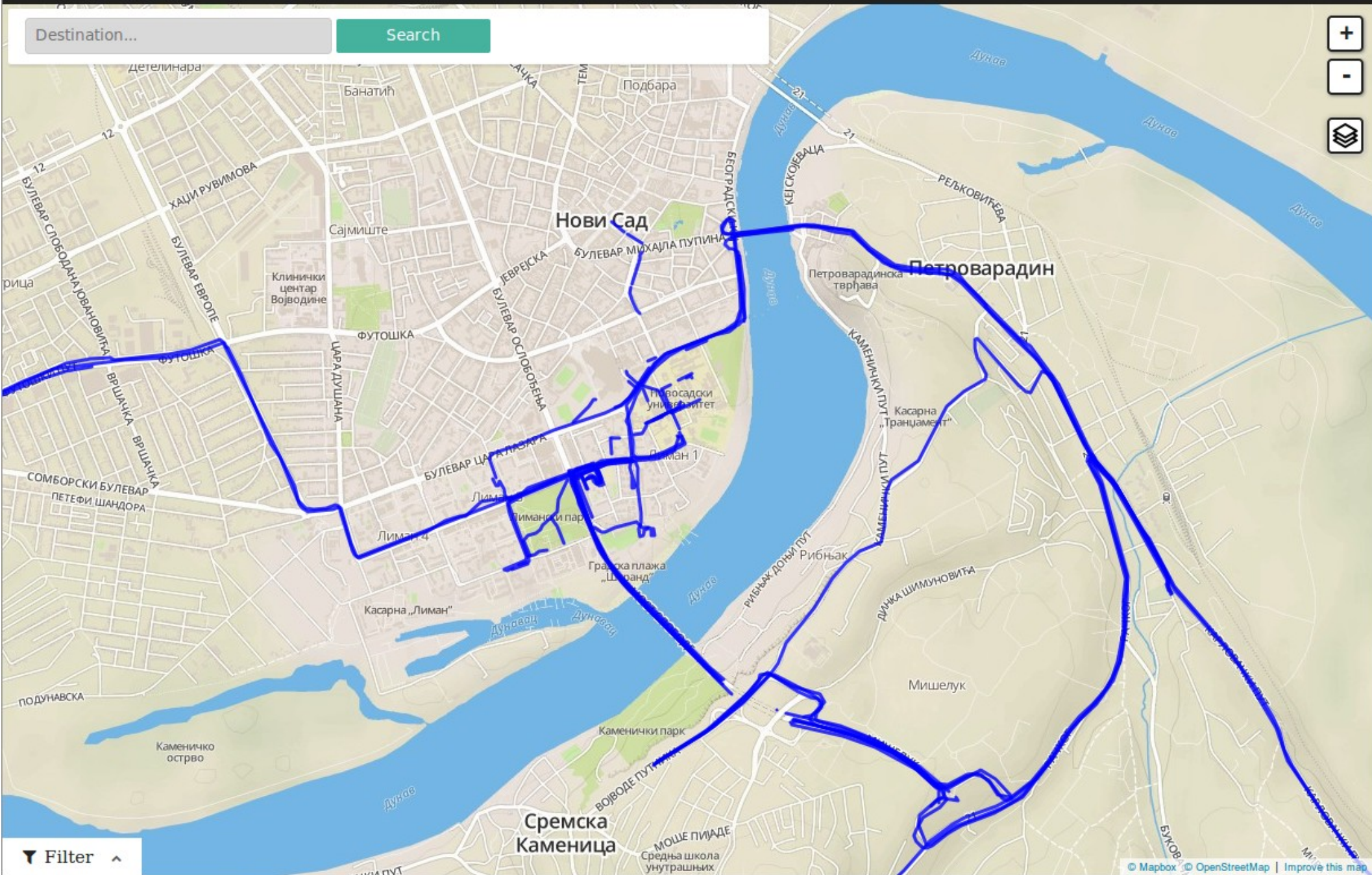
Go

Mapillary

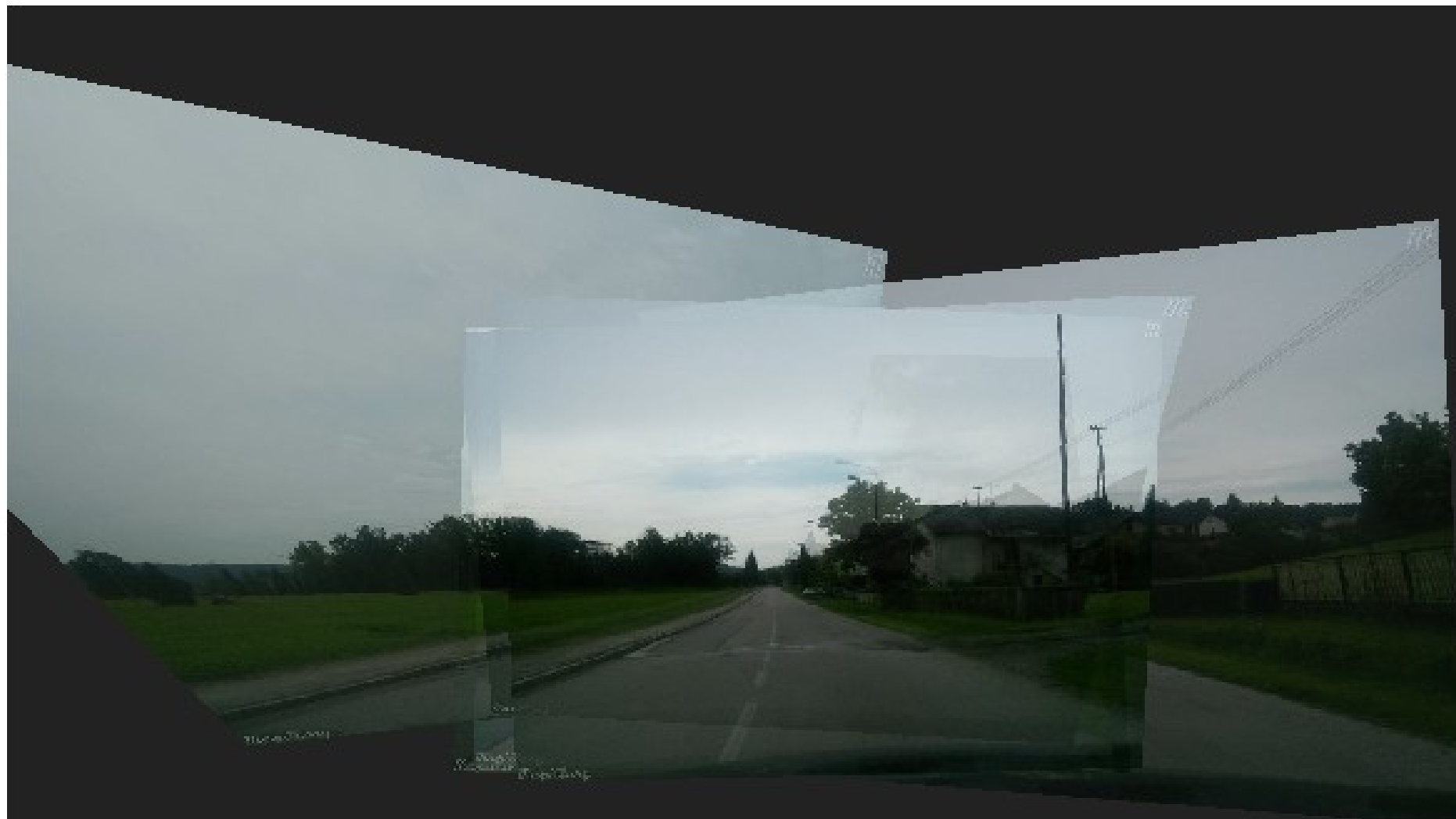
- <http://www.mapillary.com>
- Crowdsourced street view
- 3 254 154 photos
- 101 658 370 meters
- Creative Commons Attribution-ShareAlike 4.0 International License (CC BY-SA 4.0)
- OSM mappers use it to gather data

Destination...

Search



Filter



Nova cesta, Topusko
jul 29, 2014 • [hbogner](#)

 3 related

 0







Social networks

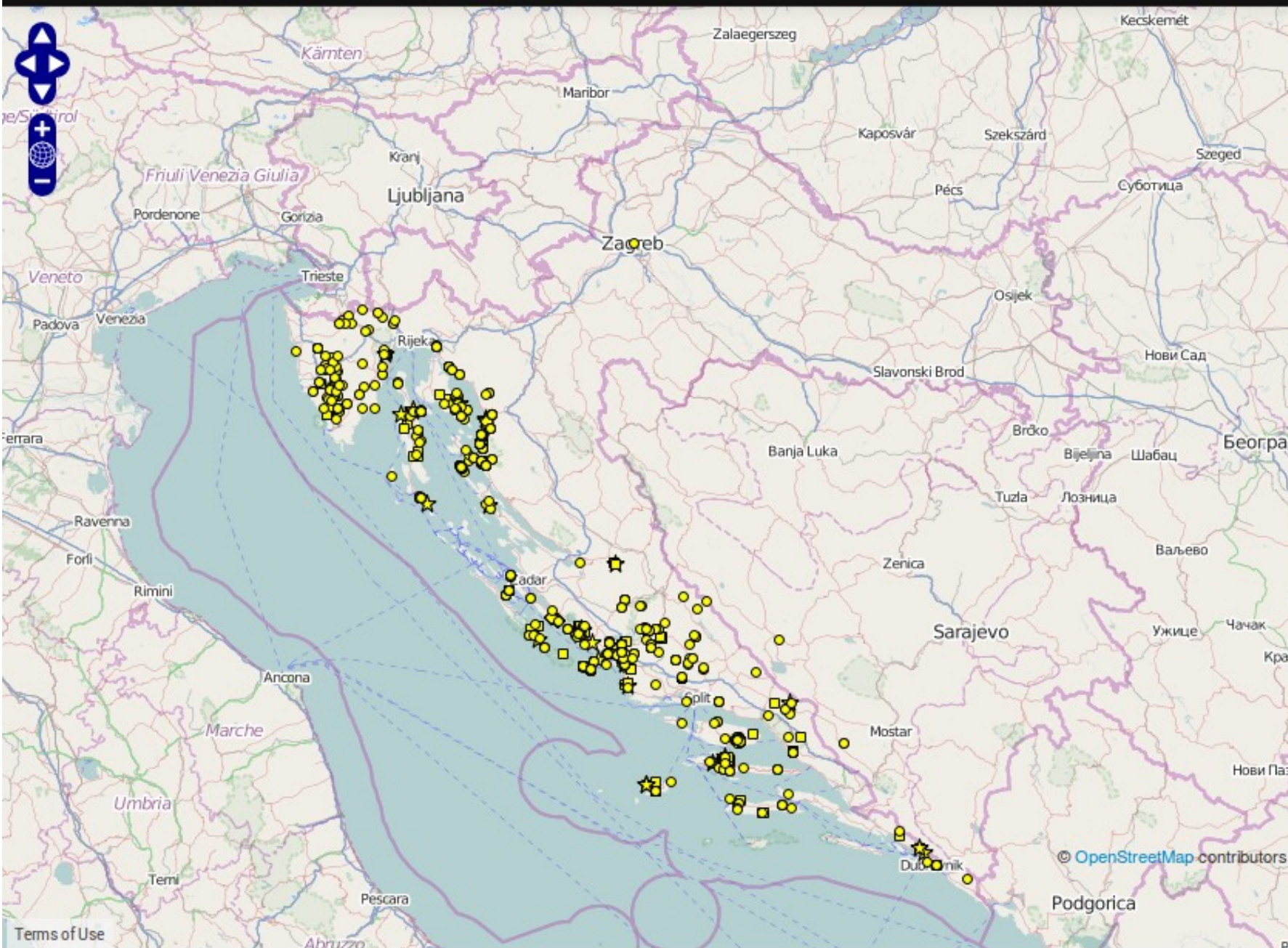
- Foursquare, Twitter, Facebook, G+, ...
- Location sharing
- Photo sharing
- Automatic parsing of location based content

Negative side



Suhozid

- <http://suhozid.hr>
- Open public record of croatian stone drywall buildings heritage
- Every wall, every building, every settlement which contained elements of drywall stone building

TEMELJNI
SLOJEVI

OpenStreetMap

Google Satellite

PREKLOPNI
SLOJEVI

Suhozid

Suhozid ODK

Suhozid Web

Podijeli pogled

Najnoviji unosi

vapnenice na
Levr...vapnenice na
Levr...vapnenice na
Levr...

Donja Nakovana

čitala

Informacije o lokalitetu

942

Gromača u kamenjaru

941

Autor unosa

Nije poznat

940

Koordinata WGS84

lat: 18.008396 lon: 42.722070

Datum unosa

11:27:27 21-05-2012

Izvor podataka

GIS

Share



TEMELJNI SLOJEVI

OpenStreetMap

Google Satellite

PREKLOPNI SLOJEVI

Suhozid

Suhozid ODK

Suhozid Web

Podijeli pogled

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vapnenice na
Levr...vapnenice na
Levr...vapnenice na
Levr...

Donja Nakovana

Šteta

Moj Zagreb

- <https://moj.zagreb.hr/>
- Discussion on the web about the price and deployment
- Registration necessary
- It's known who reacts to reports



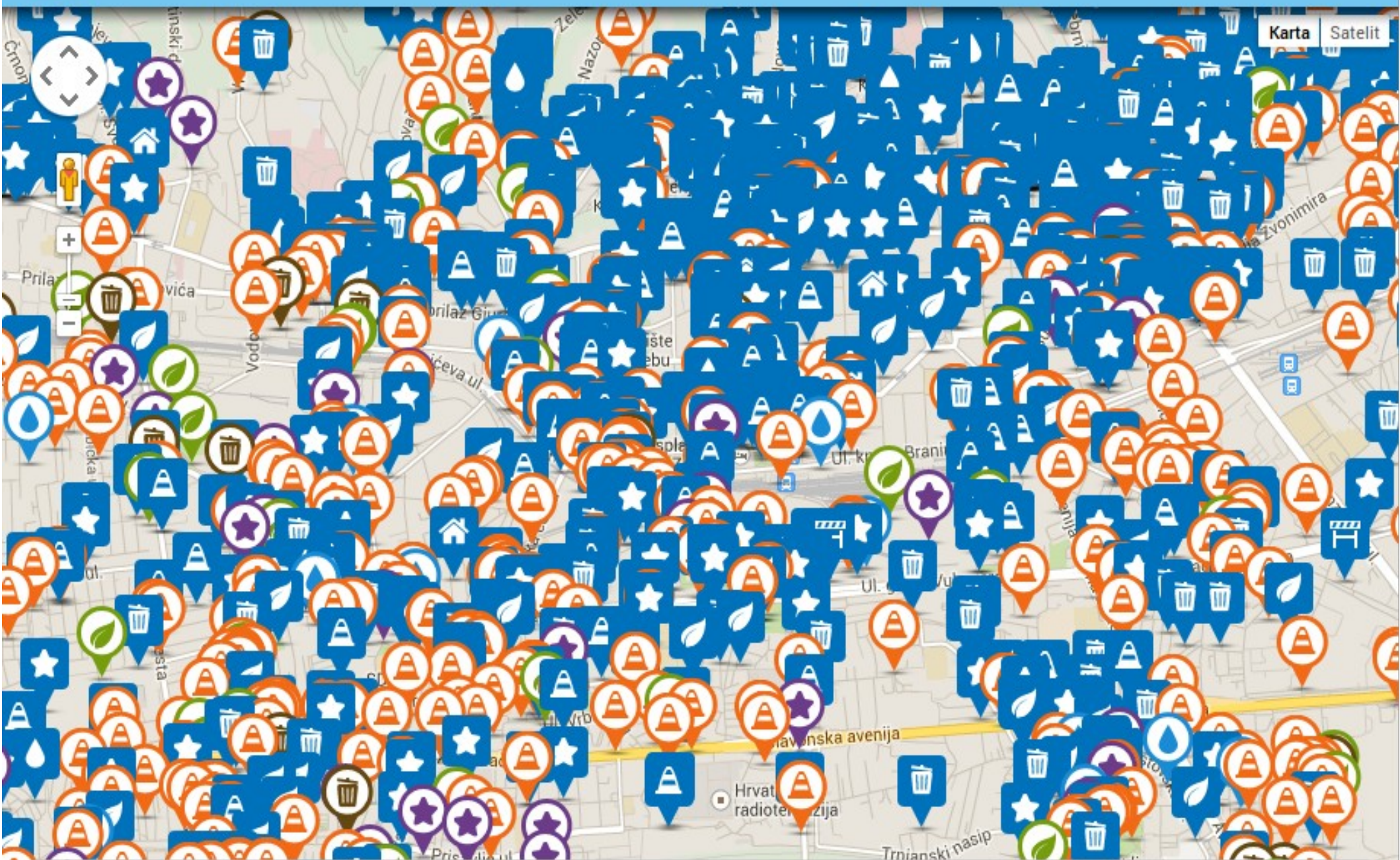
MOJZAGREB

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[STATISTIKE PRIJAVE](#)

[MOBILNE APLIKACIJE](#)

[UPUTE ZA KORIŠTENJE](#)



[PRIJAVE GRAĐANA](#)

[MOJE PRIJAVE](#)

[NA OVOME VEĆ RADIMO](#)

[A OVO SMO ZAVRŠILI](#)

Moja ulica

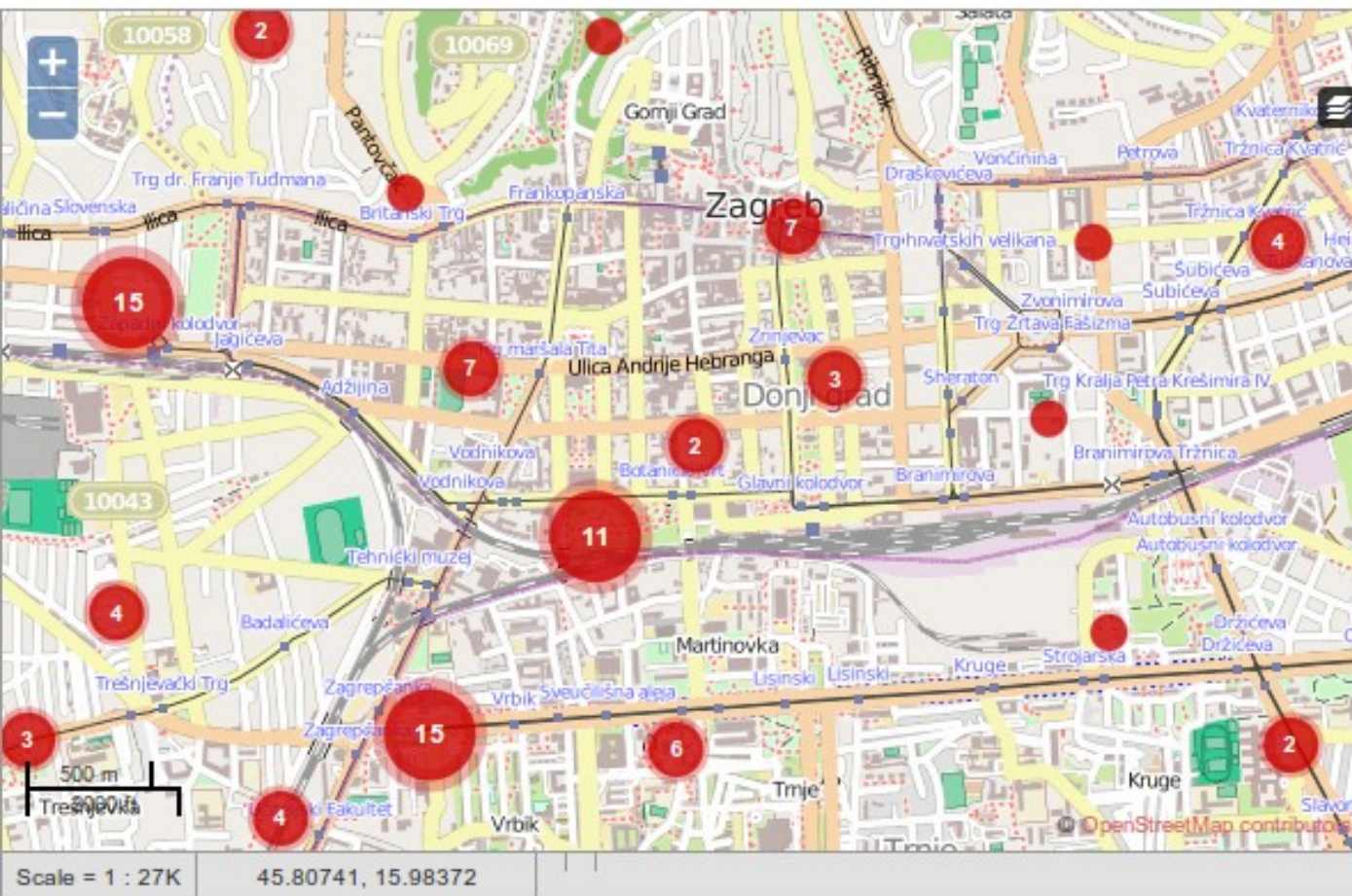
- <https://mojaulica.net/>
- Anonymus reports
- Mojaulica will implement Open311
- Public services are not necessary to react to the reports

Portal Mojaulica je internetska platforma za informiranje o komunalnim i drugim stvarima lokalnog značaja. Osnovni izvor informacija su sami građani, a za potpuniju informaciju koriste se i drugi servisni izvori.

Informirajte sebe i druge na portalu Mojaulica

FILTERI → **SVE** TEKST SLIKE VIDEO

↓ KATEGORIJA FILTERA [SAKRIJ]



SVE OBJAVE

NEDOSTACI NA JAVNIM I ZELENIH POVRŠINAMA

PJEŠACI I BICIKLISTI

OTPAD I NEPROPIŠNO ODLAGANJE

PROMETNICE I PUTEVI

RAZNO

SERVISNE OBAVIJESTI

Kako objaviti (upute)

FixMyStreet

- <https://www.mysociety.org>
- <http://fixmystreet.org>
- <http://fixmystreet.com>
- <http://www.open311.org>

Overgrown trees

Reported via iOS in the Trees category anonymously at 08:05 today

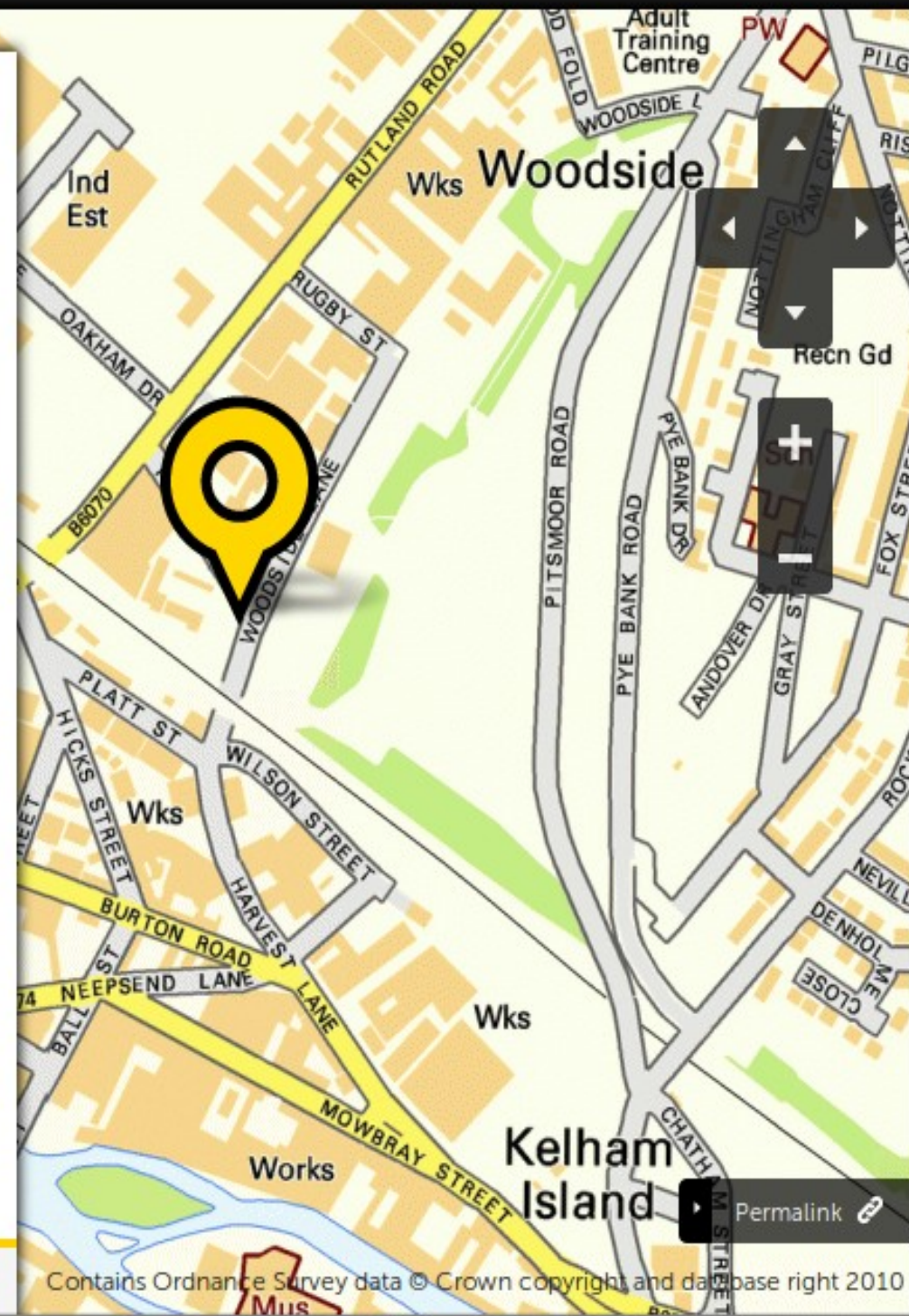
Sent to Sheffield City Council 5 minutes later

Overgrown trees can't use footpath



Provide an update

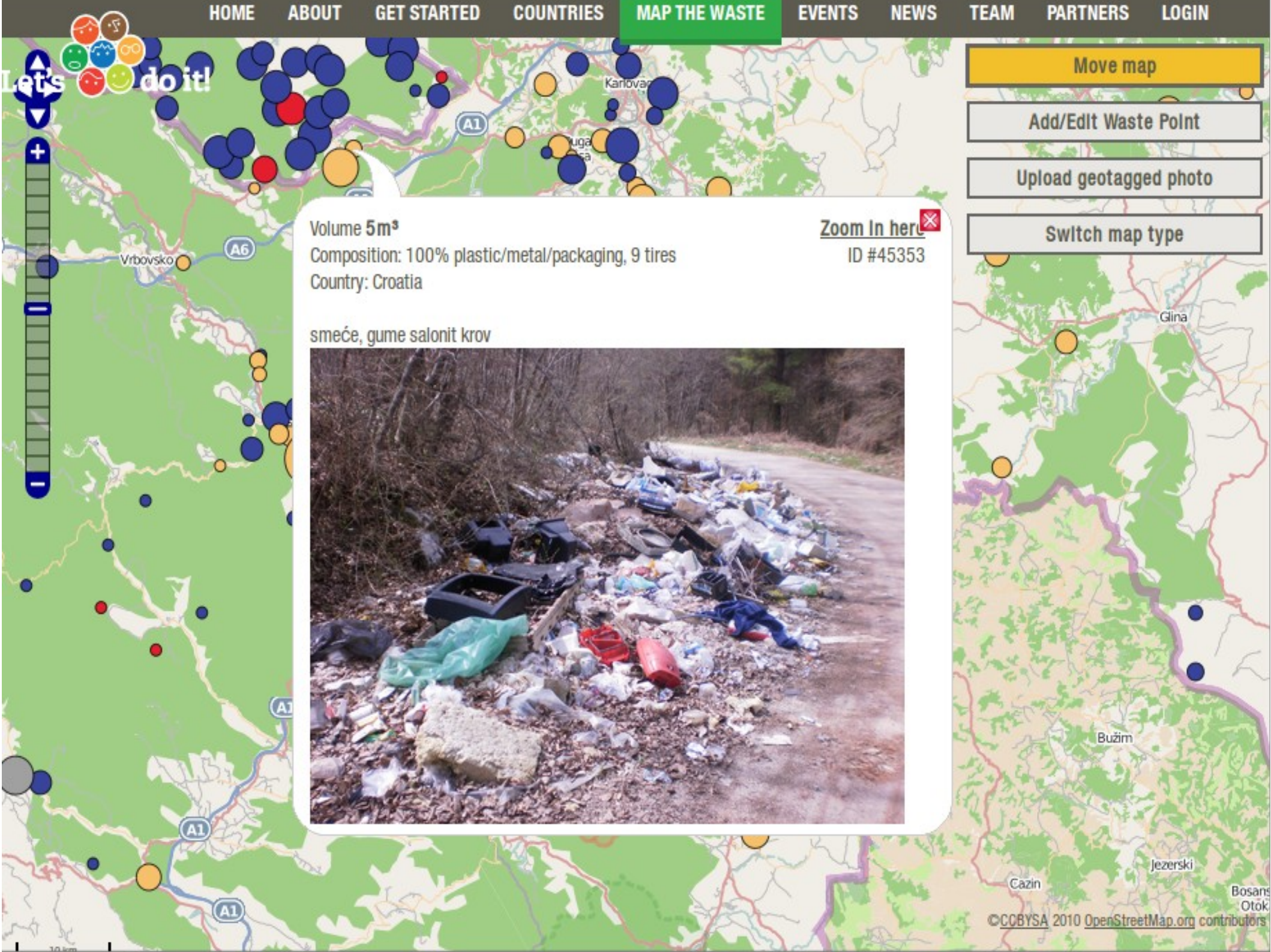
Please note that updates are not sent to the council. Your information will only be used in accordance with our [privacy policy](#)



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Green cleanup

- <http://letsdoitworld.org/wastemap>
- World cleanup 2013
- Locations of illegal garbage dump sites



Record a camera

- Data gathering about surveillance cameras
- If they record us let us record them
- Georeferenced photos

FLOODS

- <http://www.poplave.rs> Ushahidi + Wordpress
2866 reports, 1.5 million visitors, 1605 simultaneous visitors at Ushahidi
- <http://mapapoplava.zastone.ba> Ushahidi
~280 reports in first few days
- <http://www.poplave.eu> Wordpress
- <http://poplave.hr> Wordpress

Information gathering

- Social networks
- Radio amateurs
- Ushahidi portals
- Local knowledge



- SVE KATEGORIJE
- POPLAVLJENA PO
- POMOĆ!
- OŠTEĆENJA
- PROVERENI IZVEŠ
- PREKID PUTA
- KLIZIŠTE
- PONUDA POMOĆI
- KRIMINAL

Kako prijaviti

Pošalji email na :
izvestaji@poplave.rs
Ispuni ovaj formular.



OBRENOVAC HITNO - MILOVANA GLIŠIĆA 0

🕒 13:18 May 17, 2014

Na ovoj lokaciji se nije pojavilo ni jedno spasilačko telo, ili pomoć u vidu makar vode u poslednjih 48h. Sve su prizemne kuće. Veliki broj...



OBRENOVAC NASELEJ SAVA RAVNOGORSKA

18 | 28 0

🕒 12:01 May 17, 2014

LJUDI I DALJE CEKAJU TU SU I MALA DECA I STARA BOLESNA OSOBA



pomoc u Obrenovcu 0

🕒 11:11 May 17, 2014

Hitno potreba pomoc u naselju Sava,Ravnogorska 18.Ima male dece..nestaje hrane..a voda nadolazi!molimo vas da pošaljete čamce...



Potrebna pomoc u Obrenovcu u stanu je troje dece i dosta odraslih 0

🕒 10:29 May 17, 2014

Nikakva pomoc ne ide u Sava naselje i Rojkovac,mediji lazu!



Pomoc u Obrenovcu 0

🕒 10:22 May 17, 2014

U Sava naselju u Obrenovcu,Ravnogorska 30 ima dosta odraslih i MALE DECE u stanu na 4. spratu ! nemaju ni vodu za pice ni hranu od juce,mole...



Ravnogorska 40 Sava Naselje 0

🕒 09:39 May 17, 2014

u ulazu 40 ima 15oro male dece ali i u drugim. Celo Sava Naselje je u problemu, veliki broj ulaza (više od 20 sa po 14 stanova) to je...



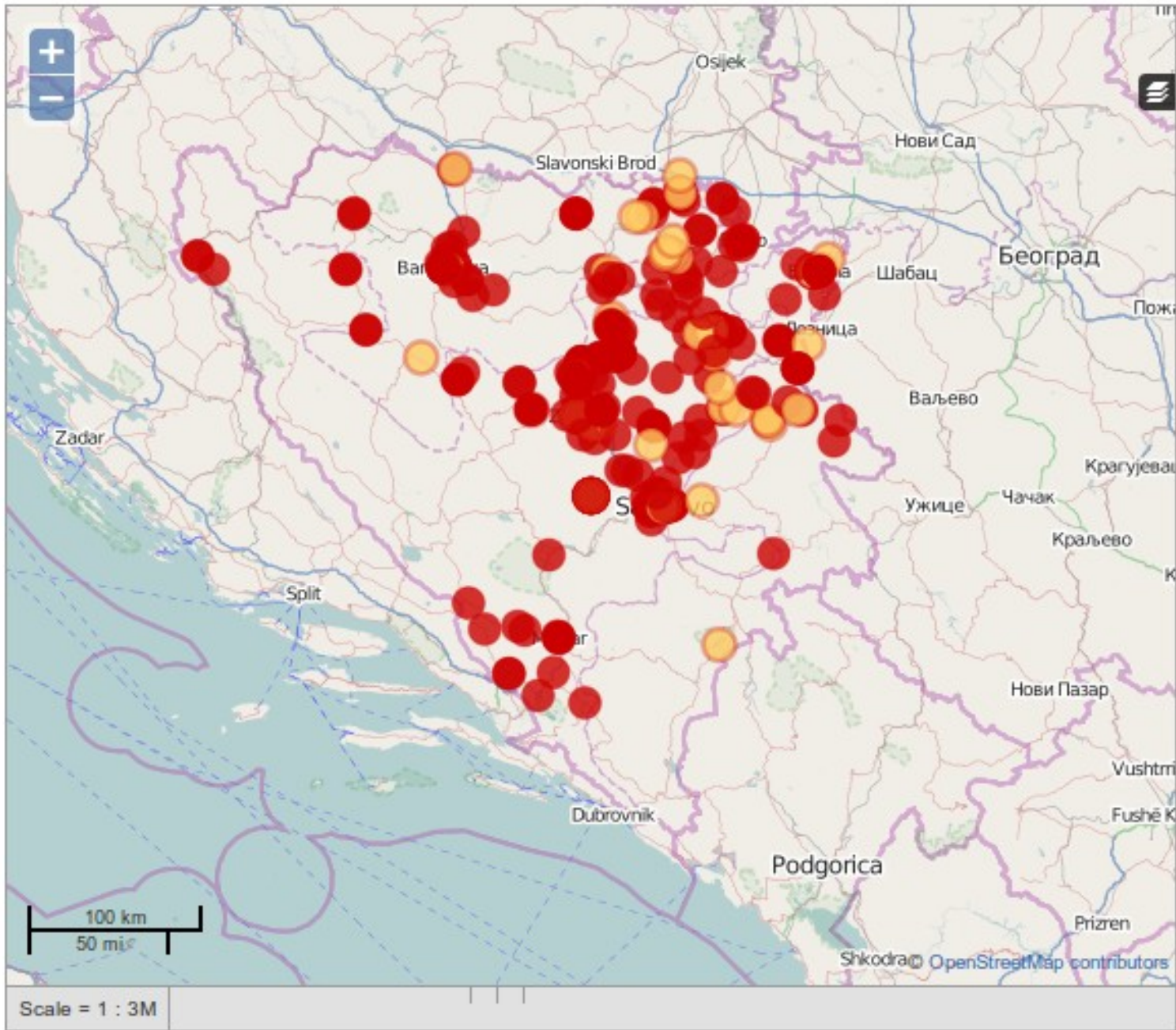
POTREBNA POMOC 4

🕒 07:43 May 17, 2014

Potrebna pomoc cetvrrocloanoj porodici u porodicioj kuci. Prizemlje poplavljeno. Pomocna zgrada se urusila. Oni su na spratu.

FILTERI → SVE KATEGORIJE NOVOSTI SLIKE VIDEO

↓ KATEGORIJA FILTERA [SAKRIJ]



- SVE KATEGORIJE
- PRIJAVITE POPLAVU
- PRIJAVITE KLIZIŠTE
- UGROŽENI GRAĐAN
- PREKINUTE PUTNE KOMUNIKACIJE
- MJESTA ZA PRIKUP POMOĆI
- POTREBE NA TEREN
- SMJEŠTAJ UGROŽE
- VOLONTERI
- NESTANAK STRUJE
- NESTANAK TELEKOMUNIKACIJ



Gdje i kako uputiti

Popla

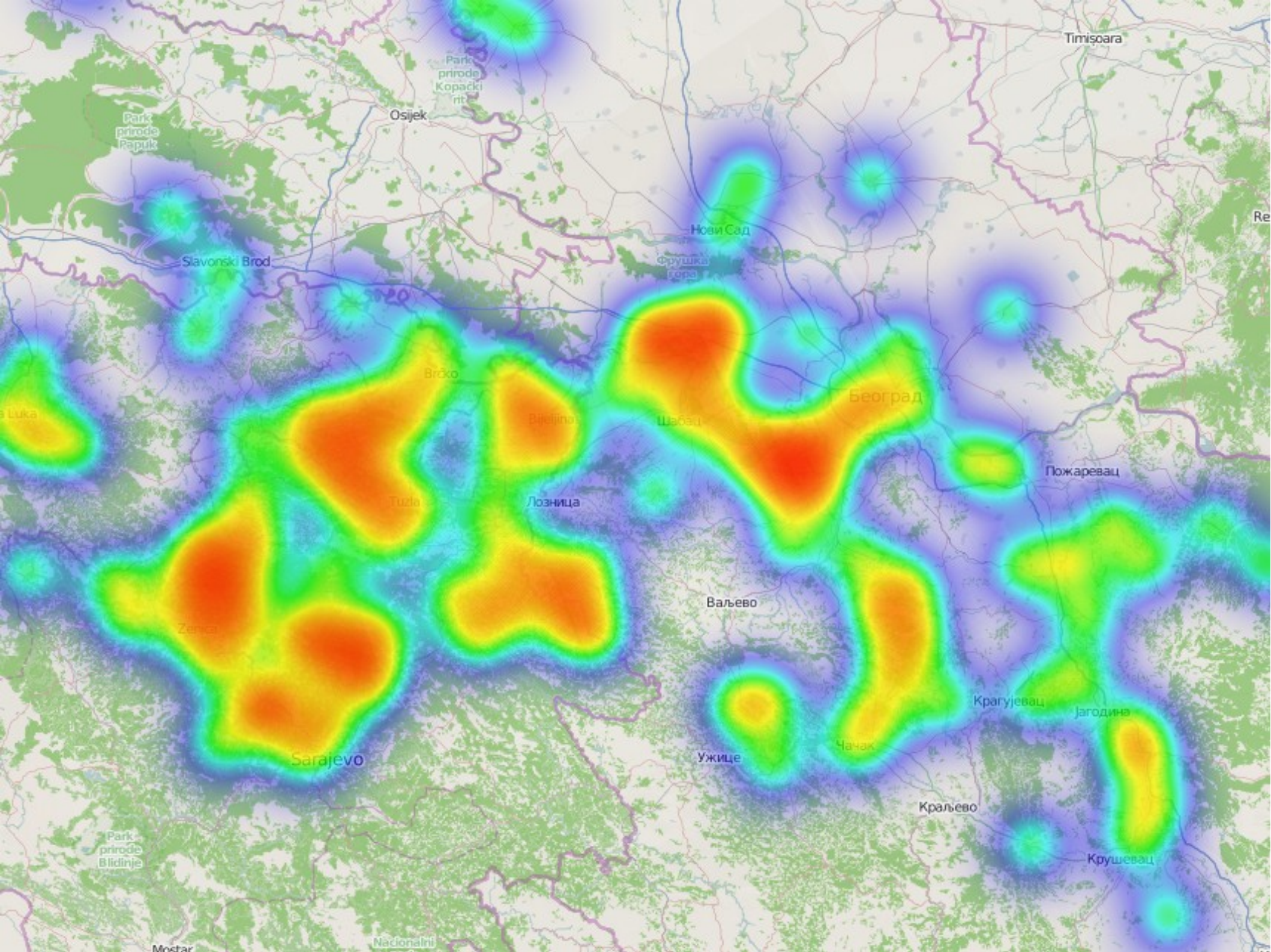
U poplavama u Modriči stradalo skoro 800 životinja



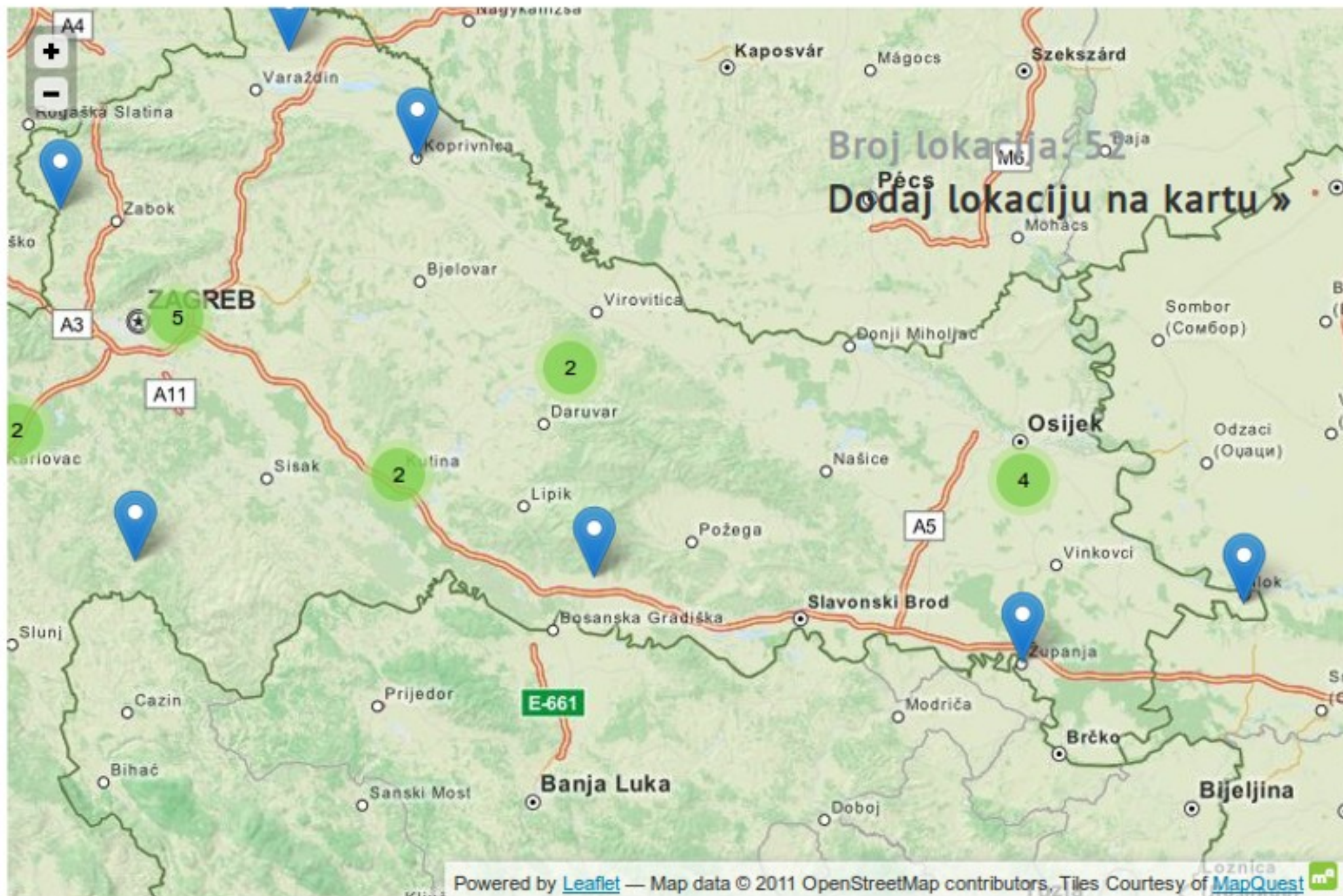
Čitajte više na Radiosarajevo.ba

a više Informacija
pojenu teritoriju c





Na karti potražite vama najbližu lokaciju za prikupljanje pomoći:



HOTOSM

- http://wiki.openstreetmap.org/wiki/2014_Southeast_Europe_floods
- 29 000 km²



Analysis and the future

- Measures of quality in regards to writern standards
- New measures of quality for data
- Integration with existing standards
- Integration with existing authorative data

Thank you!

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