



Ministry of construction, transport and infrastructure
Public enterprise “Roads od Serbia“



Road Weather Information System
State of play –

Slobodan Basurić - PERS

Forth Technical Commity on Roads, 27. January 2021

Road Weather Information System



INTRODUCTION

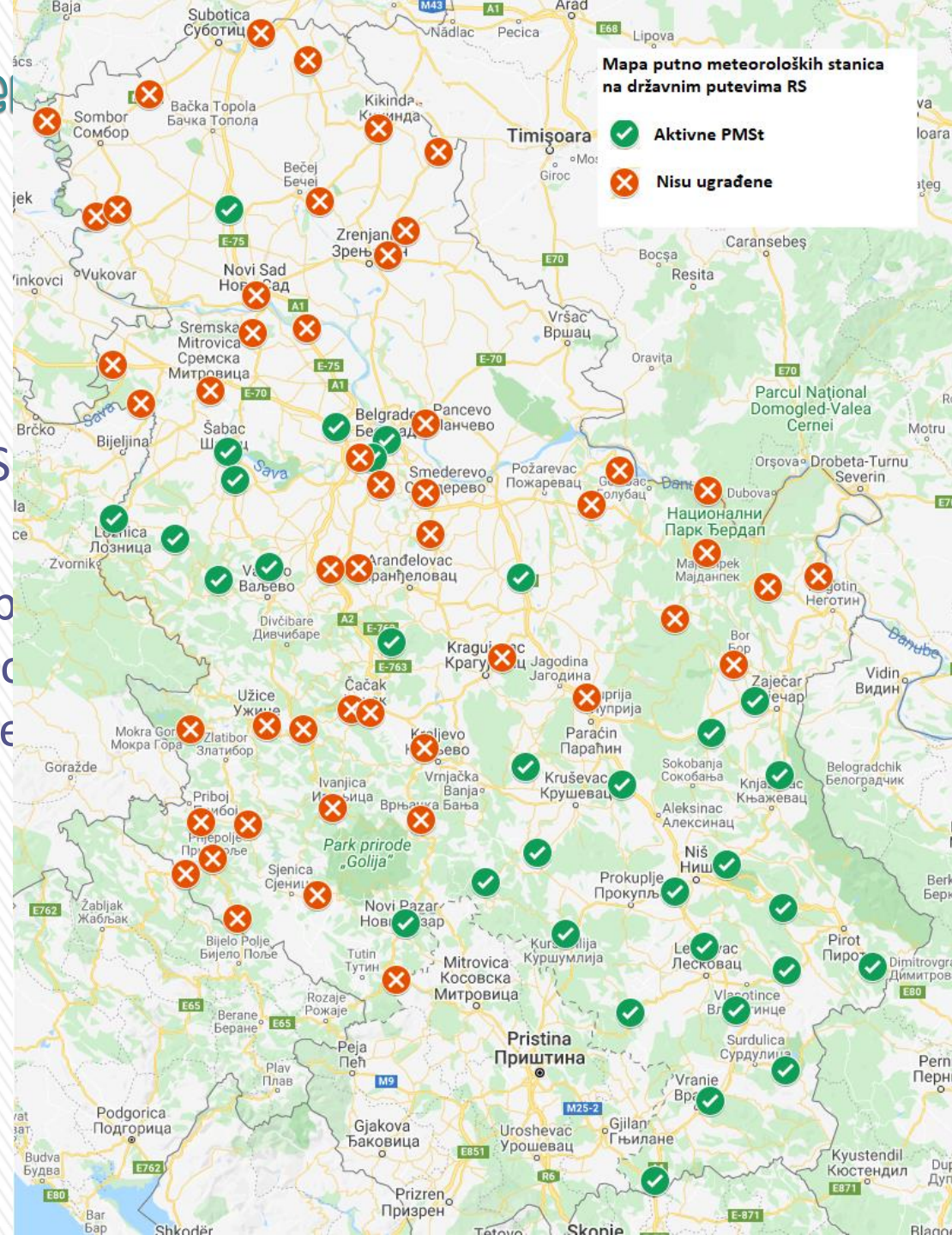
In Serbia we have experience with RWIS from 2004. During a Pilot Project conducted in cooperation with the Swedish National Road Agency (SNRA), thermal mapping of the entire road network in the country was carried out. The result of thermal mapping was to define the minimum number of Road Weather Stations (RWS) and their locations.

And we was implemented 6 road weather station In Mačva and Kolubara District, where we also started with first hybrid service level agriment for road meintenance od 1360km of national network.

Road Weather



At the moment we are not connected to RWIS centers. The plan is to set up new centers and to upgrade old ones. The network will be covered



and 18 RWS active but not used at tunnel operational. The plan is to connect all RWS into a single RWIS on the territory of the national road

Road Weather Information System



RWS Data

Newer RWS give us the following data:

- Air temperature;
- Relative humidity;
- Dew point;
- Type of precipitation;
- Precipitation intensity;
- Visibility;
- Wind speed;
- Wind direction;
- Road temperature (new sensors at three depths t1-0, t2-10 cm and t3-20 cm)
- Freezing temperature of NaCl;
- Height of the water layer on the road;
- Percentage of ice;
- Friction (friction) on the road;
- NaCl concentration;
- Conditions on the road (wet, wet, snow, ice, water with salt solution).

Road Weather Information System



RWIS

Road weather information system gives us information on whether and when it is necessary to remove snow and ice from the roads.

Various parameters are monitored and the need for intervention is concluded by trained operators.

We also use RWIS to calculate the number of interventions in snow clearing or de-icing.

Next Poll 2021/01/26 14:50:00

Altitude 0

relative humidity act 94.89 % 2021/01/26 14:40:00 Ok

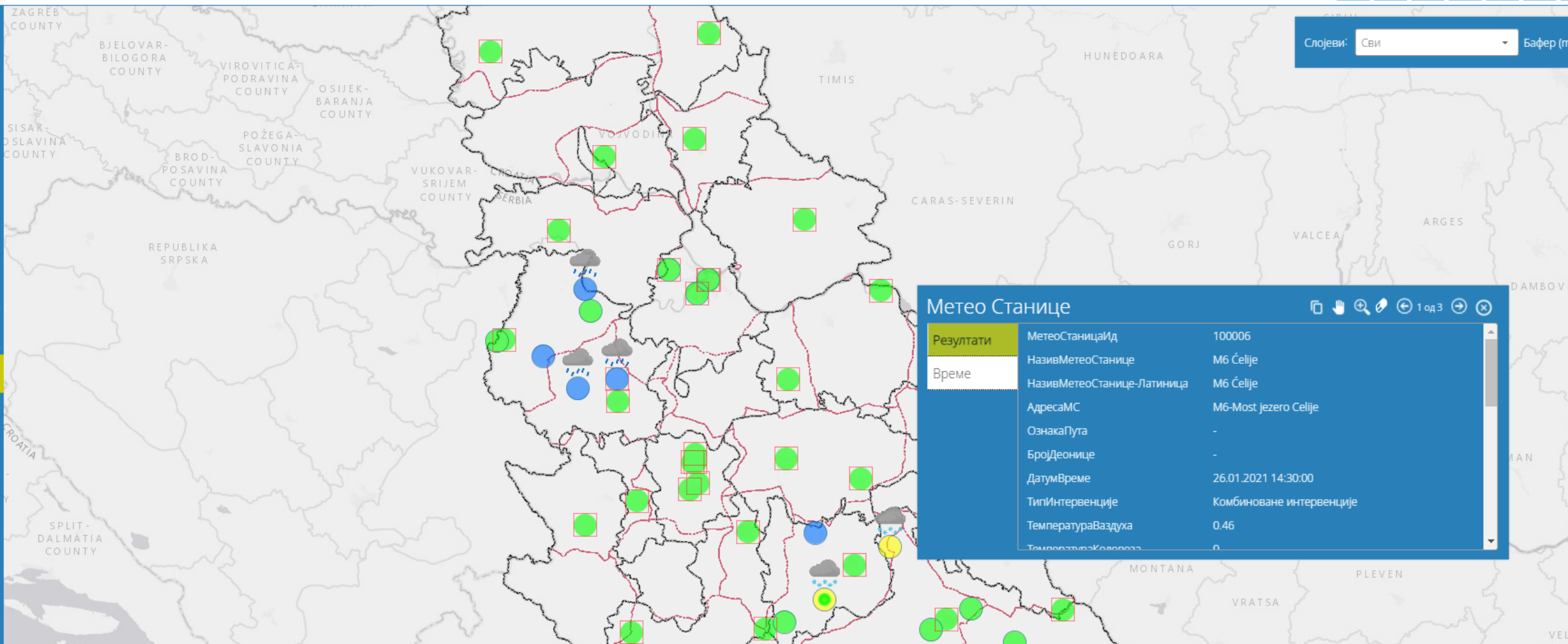
Visibility

visibility [act] (m)

Путни метеоролошки информациони систем ЈППС



Слојеви: Сви Бафер (m)



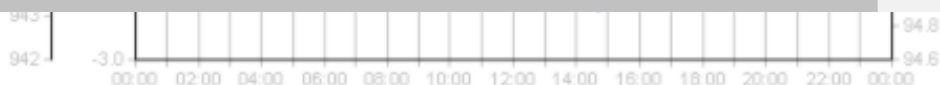
Метео Станице

Резултати	МетеоСтаницаИд	100006
Време	НазивМетеоСтанице	M6 Ćelije
	НазивМетеоСтанице-Латиница	M6 Ćelije
	АдресаМС	M6-Most Jezero Celije
	ОзнакаПута	-
	БројДеонице	-
	ДатумВреме	26.01.2021 14:30:00
	ТипИнтервенције	Комбиноване интервенције
	ТемператураВаздуха	0.46
	ТемператураКоловеза	0

EX-3 Loznica	Status Ok	2021/01/26 14:10:00	2.76 smrzavanje	78.22	-0.77	0.00 no precipitation	0.00	2.10	235.84 Southwest	6.07	0.00	22.59	997.67	5.88	5.93	-0.10	0.00	0.00	0.82	10.00 dry	0.00	
EX-4 Oslić	Status Ok	2021/01/26 14:10:00	1.03 smrzavanje	82.31	-1.65	60.00 rain	0.22	1.97	331.57 Northwest	4.20	0.00	22.53	981.24	2.12	4.57	3.60	-0.10	45.87	0.00	0.81	15.00 damp	0.08



01/26



01/26

Road Weather Information System



THANK YOU

GOOD BYE

PE Roads of Serbia
Slobodan Basurić