

ROAD MARKING IN POLAND WITH REFERENCE TO THE ROAD CATEGORY.



Deconsolidation of the Roads Administration Variety of requirements concerning road marking, dependently on individual Road Administrator. Proposal of standarisation (unification) of road marking system. Refering the situation in Poland to the situation in other european countries -Questions and answers session.



NATIONAL ROADS

Main roads in Poland: transit roads roads connectiong big cities, governed centrally by called for this purpose state institution: **General Directorate for National** Roads and Motorways.



Życia REGIONAL ROADS

roads running within Voivodeship,

roads connecting the most important cities located within Voivodeship,

roads administrated by Voivodeship self-government.



Życia DISTRICT ROADS

roads running within District,

roads connecting the spots of local meaning,

roads administrated by district self-government.



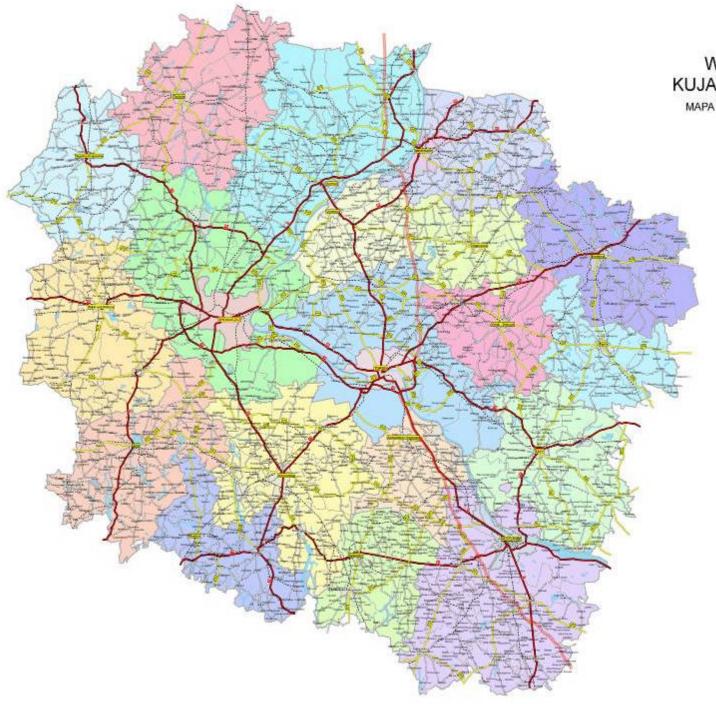
COMMUNTITY ROADS

roads of local meaning,

roads connecting the surrounding spots,

roads administrated by local government





WOJEWÓDZTWO KUJAWSKO-POMORSKIE

MAPA ADMINISTRACYJNO-DROGOWA







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CLASSIFICATION OF ROADS IN POLAND

	Category of road	Estimated roads length [in km]
1.	National roads	18 100
2.	Regional roads	29 600
3.	District roads	126 600
4.	Community roads	186 000
	In total:	360 300



CLASSIFICATION OF ROADS IN POLAND

The consequence of deconsolidation of roads administration in Poland is polish road marking system which is not uniform as it depends on individual Road Administrator.



What is the situation in other european countries? Do they have similar difficulties?



The result of the above presented Road Administration system – diverse range of roadmarking systems



NATIONAL ROADS RANGE OF ROAD MARKING

New roads (just constructed roads and the roads after renovation of the surface): - full marking range: edge line and centre line (separating streams of traffic flow).





NATIONAL ROADS RANGE OF ROAD MARKING

Remarking (renovation of road marking) : - centre line , renovated in 50-100%, depending on the region

- edge line (not on the all length) renovated in 20-80%, depending on the region

The range of remarking depends on following factors: on budget on the appraisal of the quality of existing marking







What is the range of road marking systems in other european countries?

What are the criteria of qualification of roads for remarking after warranty period ?

What is the range and the percentage of remarkings after warranty period?



REGIONAL ROADS

Diverse range of applicable road markings for different road widths:

WIDTH OF ROAD	RANGE OF ROAD MARKING
6 METERS AND ABOVE	EDGE LINE AND CENRE LINE
BELOW 6 METERS	EDGE LINE







REGIONAL ROADS

How it is in other european countries? Does the road marking change depending on the road width ?



DISTRICT AND COMMUNAL ROADS

Road marking is not obligatory.



DISTRICT AND COMMUNAL ROADS

Are there any public roads in other european countries where the road marking is not obligatory?



ROADMARKING SCHEDULE IN PERCENTAGE

	Category of road	percentage %	
1.	National roads	5,02	ROAD MARKING IS OBLIGATORY
2.	Regional roads	8,22	ROAD MARKING IS OBLIGATORY
3.	District roads	35,14	ROAD MARKING IS NOT OBLIGATORY
4.	Community roads	51,62	ROAD MARKING IS NOT OBLIGATORY
	In total	100,00	



On the 13,24% of road system in Poland road marking is obligatory.

On the 86,76% of road system in Poland road marking is not obligatory.



Linia RECOMMENDATONS

The range of road marking should depend neither on the road type nor on the Administrator but exclusively on the road width.



TEMPORARY ROAD MARKING

Temporary road marking: obligatory marking for road works areas –Investment boom in Poland.



Generally the temporary road marking is not applied, only in some cases temporary roadmarking yellow tape is used.











The roads on which road works are held and the traffic is allowed stays <u>public</u> <u>roads</u>. Due to this fact road marking on such road is obligatory.

The areas of road works are particulary danger areas and due to this fact should be marked with the particular care.



What is the range of temporary road marking in other countries?



WARRANTY REQUIREMENTS

Polish regulations provide different road marking parameters (retroreflectivity) for different lifetimes (different periods after application)



PARAMETRY OZNAKOWANIANIA POZIOMEGO

Tablica 5. Zbiorcze zestawienie wymagań dla oznakowań na pozostałych drogach nie wymienionych w tablicy 4

Lp.	Właściwość	Jednostka	Wymagania	Klasa
1	Współczynnik odblasku R _L dla oznako- wania nowego (w ciągu 14 - 30 dni po wykonaniu) w stanie suchym barwy:	25 ST		Dd
	– białej,	$m cd m^{-2} lx^{-1}$	≥ 200	R4
	 żółtej tymczasowej 	$m cd m^{-2} lx^{-1}$	≥150	R3
2	Współczynnik odblasku R _L dla oznako- wania eksploatowanego od 2 do 6 miesięcy po wykonaniu, barwy:			
	– białej,	$m cd m^{-2} lx^{-1}$	≥ 150	R3
	– żółtej	$m cd m^{-2} lx^{-1}$	≥100	R2
3	Współczynnik odblasku R _L dla oznako- wania suchego od 7 miesiąca po wykonaniu barwy białej	$m cd m^{-2} lx^{-1}$	≥ 100	R2



Maintenance of retroreflectivity factor at required level at the end of warranty period ensures suitable safety.

The road marking Executor has to applay such marking, which ensures the maintenance of all parameters at required level during whole warranty period.



RECOMMENDATIONS

Introduction of uniform road marking parameters for whole warranty period.



CONCLUSIONS

Summary of conclusions of the above presentation



RANGE OF ROADMARKING

The range of road marking should depend neither on the road type nor on the Administrator but exclusively on the road width.



RANGE OF ROAD MARKING

Traffic regulations are the same for all types of roads and the state of using different road marking for different road types does not make any sense

The local road can't be less safe than the transit one so it should be marked according to the same rules.

Drivers can expect the same efficient marking on each type of road.



ROAD MARKING FOR ROAD WORKS AREAS

The roads on which the road works are held and the traffic is allowed, stay public roads. Due to this fact the road marking on such roads is obligatory.

The areas of road works are particulary danger and regarding this fact should be marked with particular care.



REMARKING RULES

After warranty period road marking should be <u>completly</u> renewed.

The alternative solution – long-term maintenance contracts for road marking.



REQUIRED PARAMETERS

Introduction of uniform road marking parameters for whole warranty period.







What road classification systems are used in other european countries?

What is the range of road marking applied in other european countries?

What are the criteria of qualification of roads for remarking after warranty period? What is the range and percentage of remarking after warranty period?





Does road marking in other countries change depending on the road width?

Exist in other countries public roads on which the road marking is not obligatory?





What is the range of temporary road marking in other countries?