INVESTIGATION OF NEW APPROACH TOWARDS ROAD ENFORCEMENT SYSTEM IN POLAND
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Context Poland is covered by the automatic traffic enforcement system. Since road safety improvement progress in Poland is slow, it was decided to expand this system.

Process In 2019, a methodology was developed to optimize the selection process of recording devices locations, including enforcing the exceeding of speed limits and entering the intersections at red light. By using more technologically advanced recording devices, road network covered by automatic enforcement system has been expanded.

Analysis The available data regarding locations of accidents and collisions was collected. Data was verified and superimposed on country map, broken down into accidents’ types. Data on accidents included their severity due to exceeding the speed limit, not maintaining a safe distance between vehicles, non-compliance with traffic lights etc. Spatial and multifactorial analyses were carried out as well. The maps were divided into areas and the degree of risk for each area was assessed. Each area was evaluated with regard to different weights, assigned according to events’ severity and type. Methods for determining the intensity of traffic incidents and algorithms for creating ranking lists were developed. Based on that, specific areas were selected for further analyses.

Outcomes Based on the carried out analyses, locations for new recording devices were selected, ranking list of locations and risk maps were developed for all road types.

Learning Outcomes The new approach to the process of locations’ selection of the recording devices is easy to implement and will contribute to the optimization of this process and, consequently, to road safety improvement.

ROAD SAFETY ACTIVE EDUCATION METHODS IN THE OPINION OF YOUNG ROAD USERS
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Background Contemporary educational needs require searching for and using more effective and attractive solutions to reach young road users, an example of which is active education AE.

Process Traditional learning methods are based on teacher as a source of knowledge. In AE teacher is the coordinator of students’ work, activates them and acts as an advisor or observer. We have conducted projects and studies using road safety AE (e.g. workshops, demonstrations, problem solving) addressed to youth: Young Explorer University/YEU, Road Safety Education Centre/RSEC, European Road Safety Time/ERST, Knights for Road Safety/KROS. During classes youth is motivated to act by being encouraged, inspired, enabled to participate, which contribute to a sense of success, joy of effort, showing abilities, gaining recognition, and enabling to reflect on own and others’ behaviour.

Analysis Our educational goal is among others to create among students a sense of independence and responsibility for themselves and others. The results of qualitative and quantitative studies show that such classes, in the opinion of youth are more attractive and effective than traditional, e.g. overall grade of class: very good and good: YEU (89%), RSEC (81%), ERST (89%)

Outcomes AE will not cure all road safety problems of youth. However it is important to effectively transfer knowledge, teach skills and attitudes, but also to make the classes more attractive for students.

Learning Outcomes Pedagogy is a dynamic discipline with various methods as AE. It requires teachers to constantly adapt to new needs and expectations as well as to undergo professional development.

SAFETY ASPECTS OF E-BIKES
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Background E-bikes have become a popular means of transport in everyday and leisure traffic, especially for older people. Figures show a rapid increase in the number of e-bikes on the market: In 2018 more than 150,000 e-bikes were sold...