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**„Lichtsignalanlagen vor dem Hintergrund des demographischen Wandels“**

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**Abstract**

The whole life is under constant change. One of the currently most discussed issues is the demographic change. It is a big challenge for politics, administration and the economic, but also for every single person in our society.

The task of the bachelor thesis investigates the influence of the demographic change in the transport sector. Particularly in the individual means of transportation and control elements, specially the traffic lights.

As a basis, first there was an explanation about the demographic change in all its facets. In addition to population development, the change is also influenced by social and political influences such as digitalization, the energy revolution or the socio-economic situation and their impact on the population.

Based on this, the consequences of this change in the transport sector were shown, which have an effect on the choice of transport mode - the modal split – and also to the general traffic behavior in the street area. It is always important to differentiate between the various types of transport, because the influence quantity on the means of transportation are variable and the influences are thus marked varyingly strong.

A special aspect of this thesis is the analysis of changes on traffic lights. These were presented and discussed for the different means of transport, since, depending on their extent, they also have an impact on the future configuration and computation of the signal programs of each system.

In general, it was noticed that especially the weaker road users, pedestrians and cyclists, are more affected by changes than the local public transport and motorized individual transport.

Finally, an assessment of a foreseeable change in the regulations around traffic light systems, above all the Guidelines for Traffic Signals (RiLSA), was carried out by means of the developed findings, since all changes have an influence on the applicability of these guidelines in different form.