

ISSUE: 05. OPERATIONAL APPROACHES, EQUIPMENT AND PRODUCTS FOR WINTER CONDITIONS

SUB-ISSUE: Impacts of deicing products

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Room: C

MR. GÜNTER HAUSMANN

Organisation:

KOMMZEPT-Ingenieurbüro Hausmann

Country:

 Germany

e-mail:

hausmann@kommzept.com

Presentation title:

SYSTEM FOR PROGNOSTIC CALCULATION OF THE OPTIMAL SPREADING DENSITY IN WINTER ROAD CLEARANCE SERVICES

Summary:

For current winter road maintenance, the determining of the salt dosing (spreading density) is mostly carried out by field personnel on the vehicles. From the evaluation of automated data logging, it is known that personal experience plays a key role in this process. This can be seen from the fact that comparisons of dosing by several employees reveal differences from the average set dosing of up to 100% under comparable boundary conditions. The pilot project "Optimisation of the degree of spreading material – Model to determine the spreading density objectively required in winter road clearance" commissioned by the Bundesanstalt für Straßenwesen (Federal Highway Research Institute), based in Bergisch Gladbach, Germany, set out to minimise the "subjective factors" involved in the application of ice-melting materials.

