

Transmitted by the expert from GTB

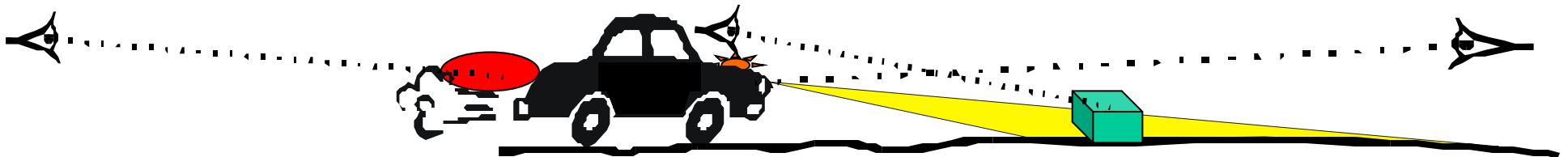
Informal Document No. GRE-68-40  
(68th GRE, 16-18 October 2012,  
agenda item 4 (b))

# GTB TASK FORCE

## “COORDINATION of AUTOMOTIVE VISIBILITY and GLARE STUDIES (TF CAVGS)”

Status Update

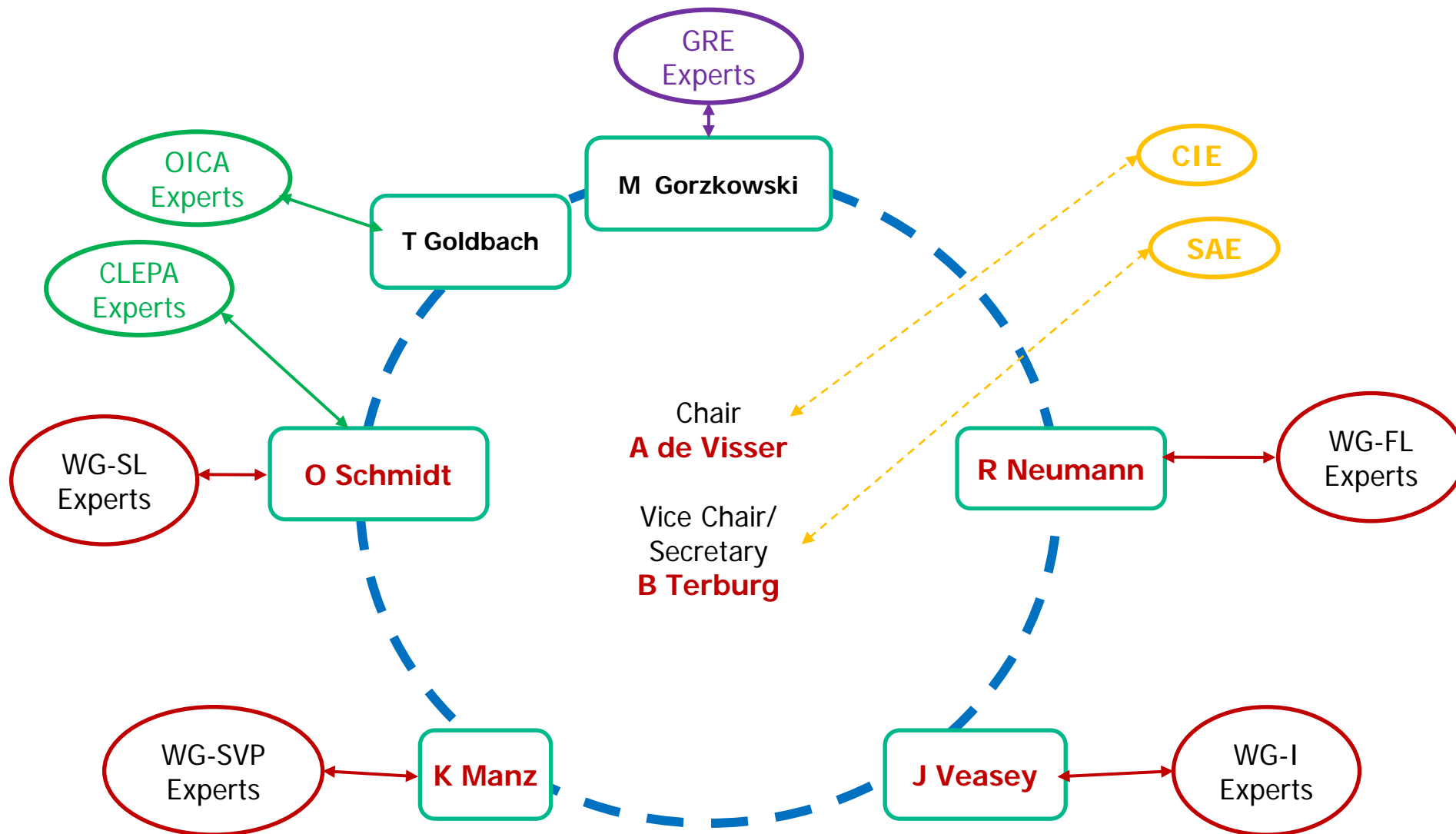
Presented to GRE68 – October 2012



# Agenda

- Introduction
- Outcome of Klettwitz Test – Dr. R. Neumann
- Introduction to Literature Study – Dr. K. Manz
- TF CAVGS Focus Area
- Identification of Relevant Parameters
- Next steps
- Questions and Answers

# Introduction – The GTB CAVGS Task Force



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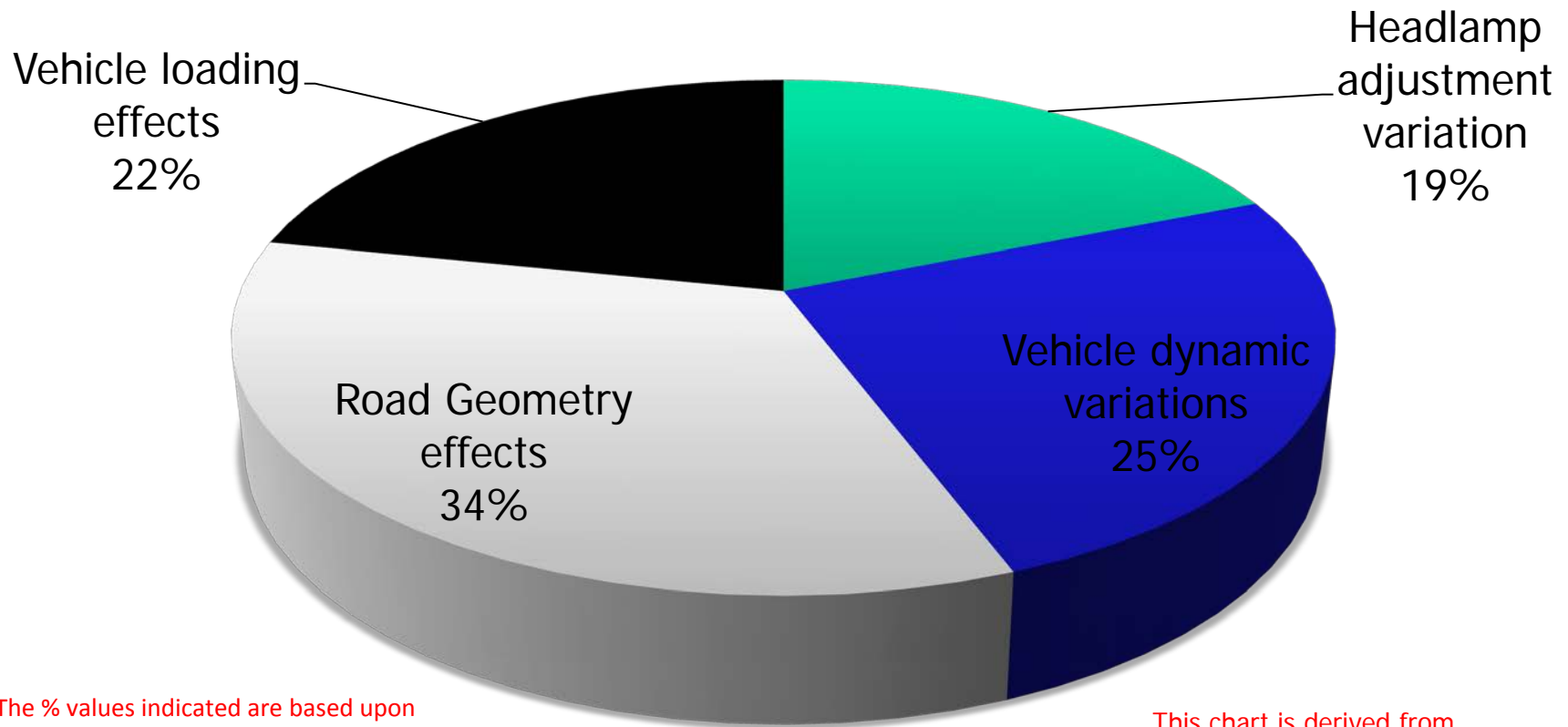
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# Contribution of the Influencing Factors to Glare

Upward "Misaim" (degrees) that can Contribute to Glare Complaints  
Estimate based upon normal statistical probability distribution for 98% of cases

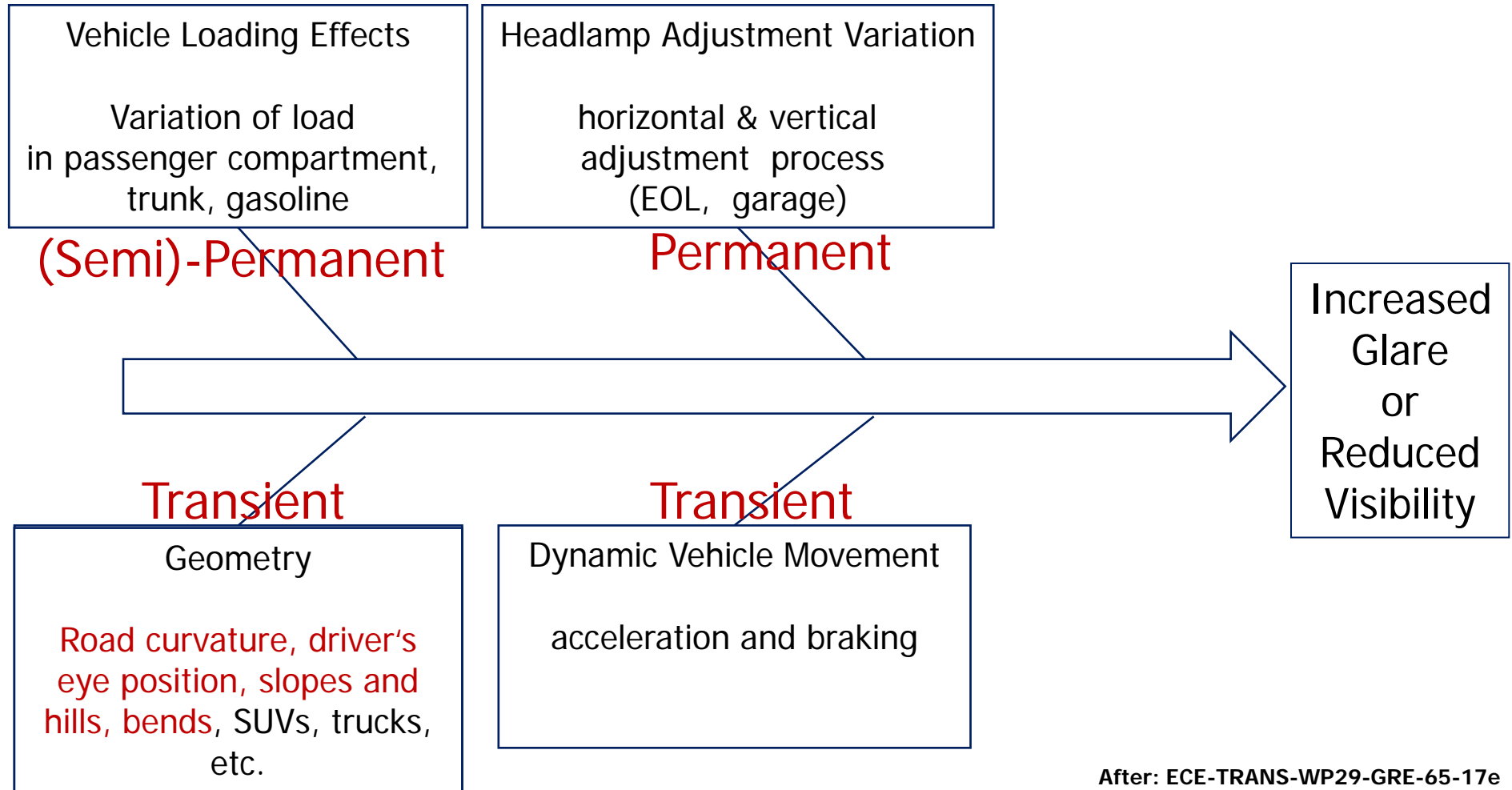


The % values indicated are based upon the statistical addition of the maximum angular effects of the individual influencing factors

This chart is derived from assumptions based upon the content of the GTB document GTBWGFL174

From: ECE-TRANS-WP29-GRE-65-17e

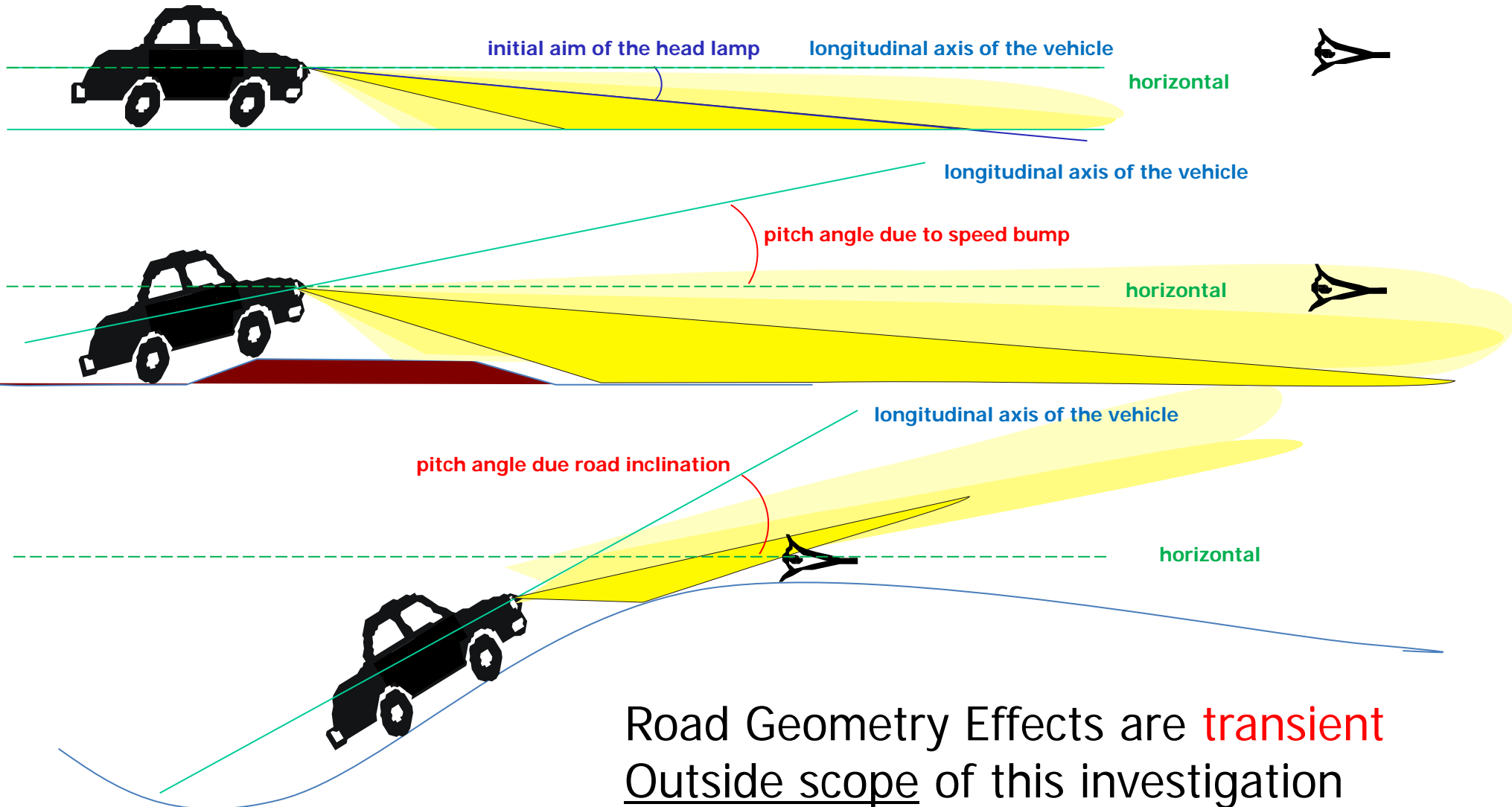
# Factors Influencing Passing Beam Misaim resulting in Increased Glare or Reduced Forward Visibility



After: ECE-TRANS-WP29-GRE-65-17e

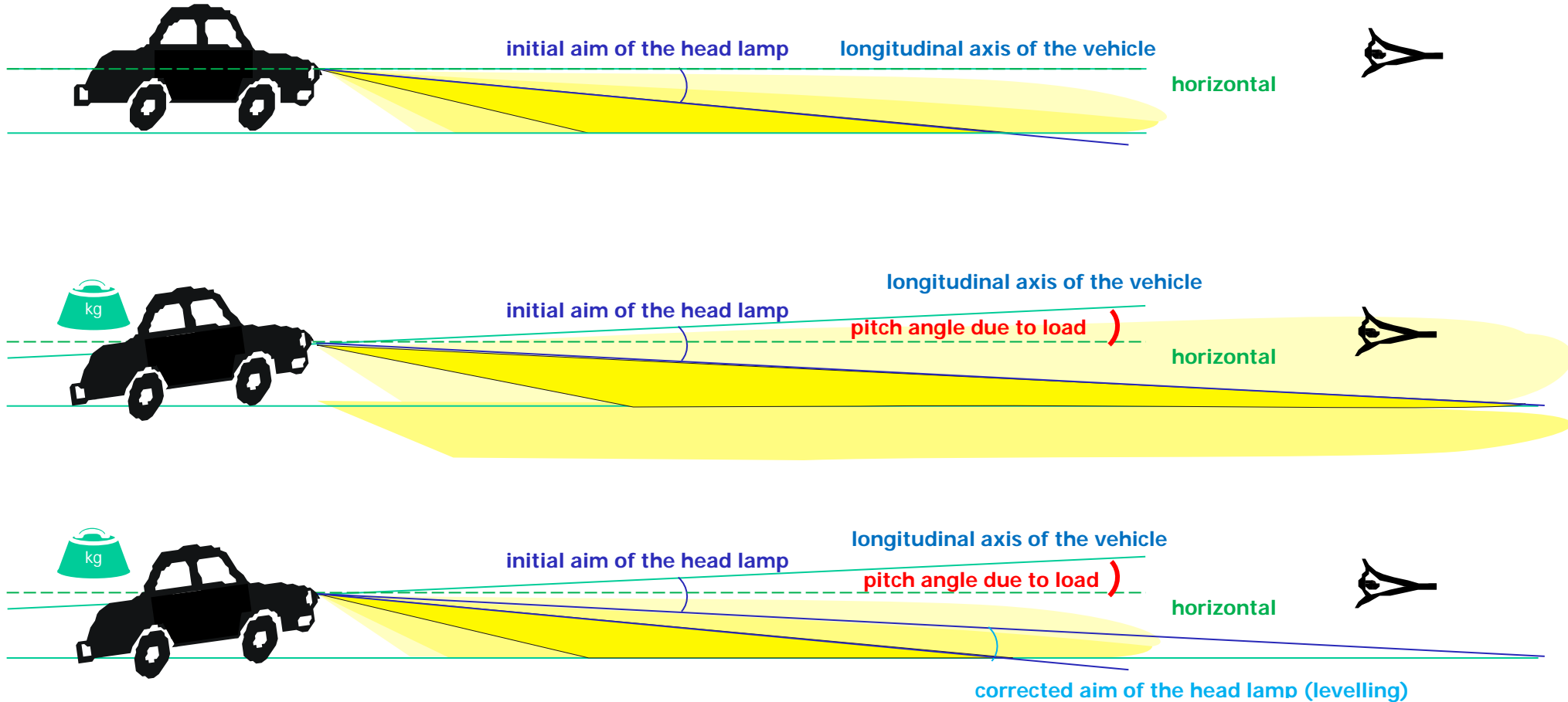


# Road Geometry Effects



Road Geometry Effects are **transient**  
Outside scope of this investigation

# Pitch due to Load



Load Effects are (semi)-permanent  
In scope of this investigation

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# Identification of Relevant Parameters

## TF CAVGS Activity

- Analysis and Grouping of Contributing Factors
- Generate a Check list for Investigations

# Grouping of Related Parameters

I

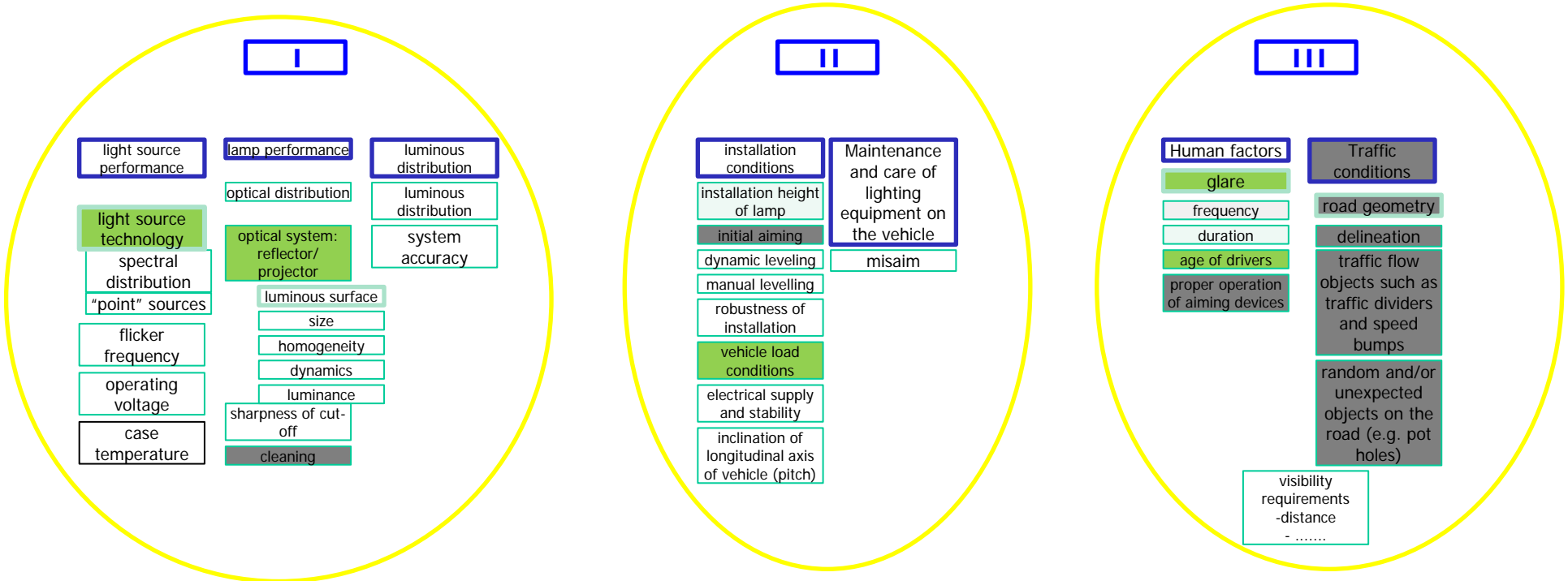
Headlamp Performance

II

Installation on Vehicle

III

Vehicle on the Road



Can serve as Check List for Investigations

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# Next Steps

- Further Analysis of Klettwitz Data
- Further work out Literature Review

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# Questions and Answers

We would appreciate your feedback and guidance

*Thank you for your attention*

For more information  
[www.gtb-lighting.org/VGS/indexVGS.htm](http://www.gtb-lighting.org/VGS/indexVGS.htm)