

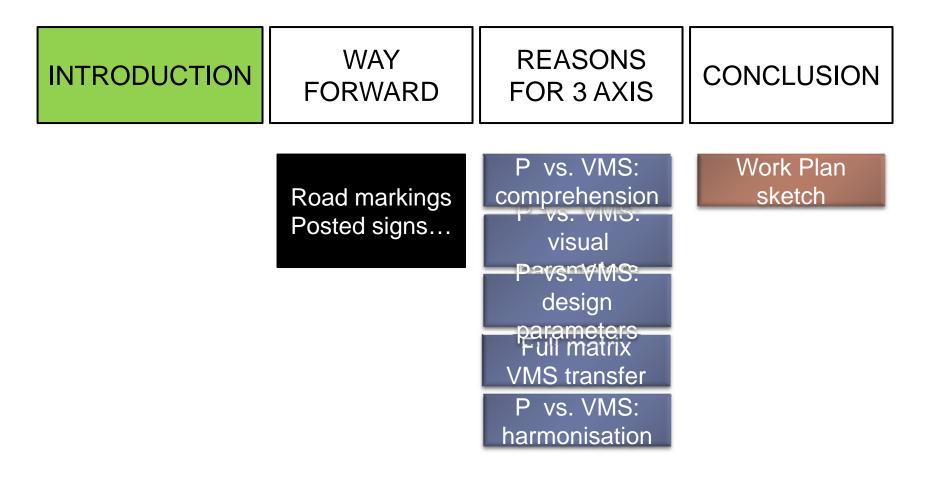
WP.1's VMS Unit: on the move

Antonio Lucas (DGT-University of Valencia, Spain)

The VMS Unit –UNECE's WP.1 ad hoc group on VMS



CONTENTS

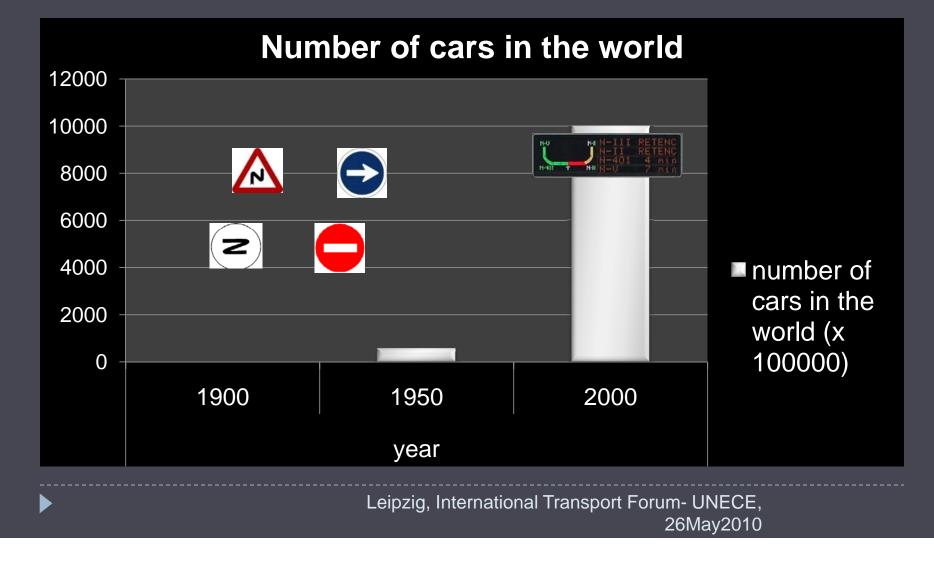


INTRODUCTION – WP.1 and VMS background



THE PERSPECTIVE

ROAD INFORMATION: NEW DEVICES, MORE PLACES



FRAMING THE PROBLEM: TRENDS ON ROAD SIGNS DESIGN

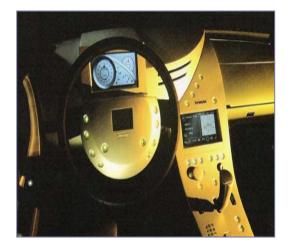
FROM A WORD DEPENDENT ...





... TO A WORD INDEPENDENT ROAD SIGNING PHILOSOPHY





ROAD INFORMATION: A BROADER VIEW THAT CONSOLIDATES



ROAD INFORMATION:

CLASSICAL, AGE OF CONVENTIONS (1909-1968)



ROAD INFORMATION: TELEMATIC AGE, FIRST APPLICATIONS



ROAD INFORMATION: NEW DEVICES, MORE PLACES

New devices exist that allow for ubiquitous access to information

CAN WE IGNORE THEM? AT WHAT PRICE?

Leipzig, International Transport Forum- UNECE, 26May2010

60

Ahead

WAY FORWARD: STRUCTURAL AXIS

Where can we place the information?



WAY FORWARD: STEP 1

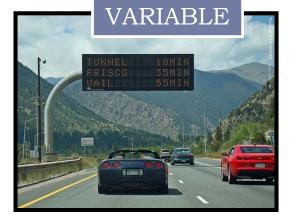
Where can we place the information?

RE-ESTRUCTURE THE 1968 CONVENTION ON ROAD SIGNS AND SIGNALS

ROAD MARKINGS

ROAD SIGNS



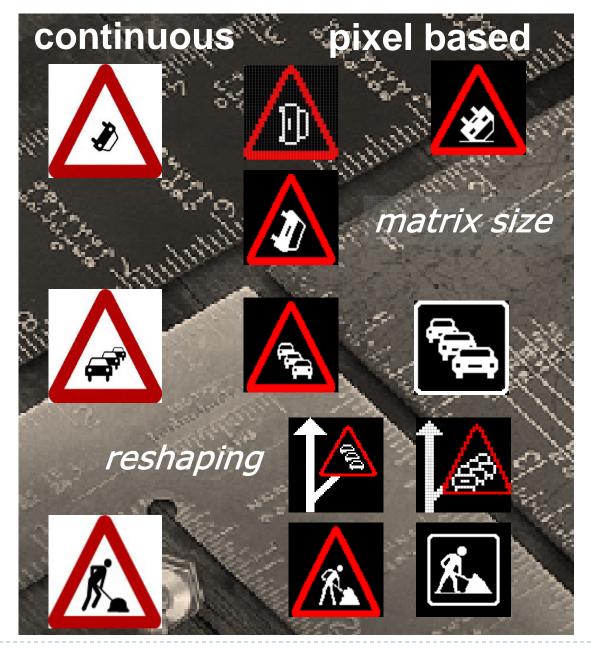




REASONS FOR IT

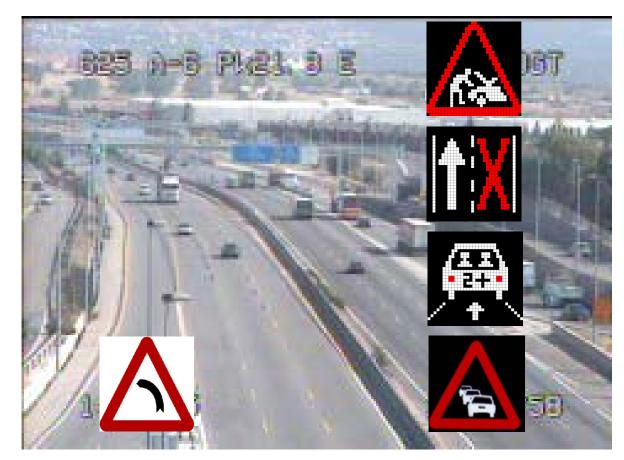
FIXED AND VARIABLE SIGNS: SAME SIGNS, DIFFERING COMPREHENSION

Warning: You approach a swing bridge Warning: swing bridge <u>opened</u>



NEED TO **ADMINISTER** DIFFERING **VISUAL PARAMETERS** RESPECT "INDIVIDUAL" DIFFERENCES

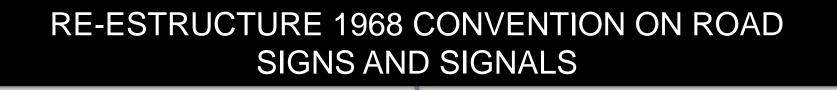
REASONS FOR IT



Posted signs: domain of (fixed) road conditions Electronic signs: domain of (changing) traffic situations **REASONS FOR IT**

CONTEXT, REFERENTS AND DESIGN PARAMETERS **BOTH ROAD** SIGNS, BUT DIFFERING REFERENTS

WAY FORWARD: STEP 1

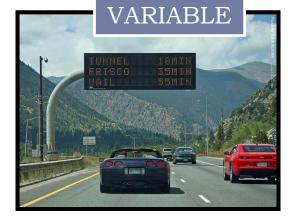


ROAD MARKINGS

ROAD SIGNS







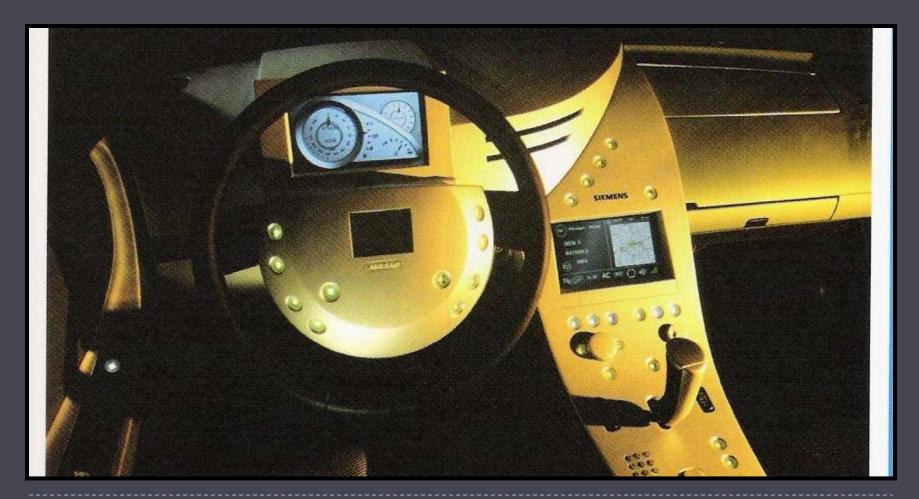
ROAD INFORMATION: NEW DEVICES, MORE PLACES



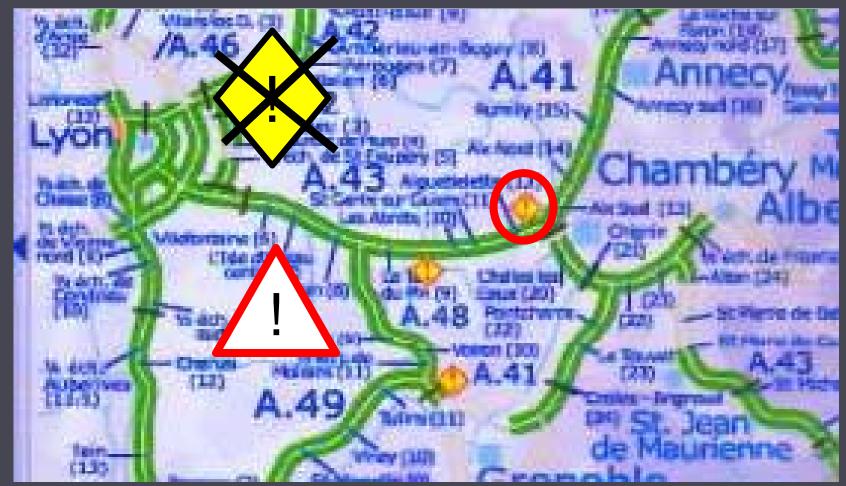
ROAD INFORMATION: NEW DEVICES, MORE PLACES



ROAD INFORMATION: NEW DEVICES, MORE PLACES



ROAD INFORMATION: NEW DEVICES, MORE PLACES



ROAD INFORMATION: A CHANGING LANDSCAPE

from temporary permanent Variable, ubiquitous static multidimensional one-dimensional proactive passive

USE OF INFORMATION: WHY

ROAD MARKINGS

POSTED SIGNS

TO **FACILITATE** POSITION, TRACKING AND LOCATION ON THE ROAD

D

TO **POINT TO** DANGEROUS OR STRUCTURAL STABLE CONDITIONS OF THE ROAD **ON SITE**

POSTED VMS

TO WARN / INFORM ABOUT DIFFERENT **CHANGING** ROAD / TRAFFIC EVENTS ON AND **OFF SITE**

USE OF INFORMATION: ONCOMING

IN-VEHICLE

D

- INTERNET
- TO WARN / INFORM ABOUT WHATEVER TRAFFIC
 INFORMATION, AT
 WHATEVER POINT OR
 MOMENT
- TO ACTIVELY SEEK INFORMATION ABOUT WHATEVER TRAFFIC RELATED ISSUE, AT WHATEVER PLACE OR MOMENT

WAY FORWARD: STEP 2

Where can we place the information?

FUTURE (?) 1968 CONVENTION ON ROAD SIGNS AND SIGNALS

ROAD MARKINGS

ROAD SIGNS







PRESENT: INTELLIGENT TRUCK PARKING

AVAILABLE ANYWHERE AND FOR EVERYPOOD



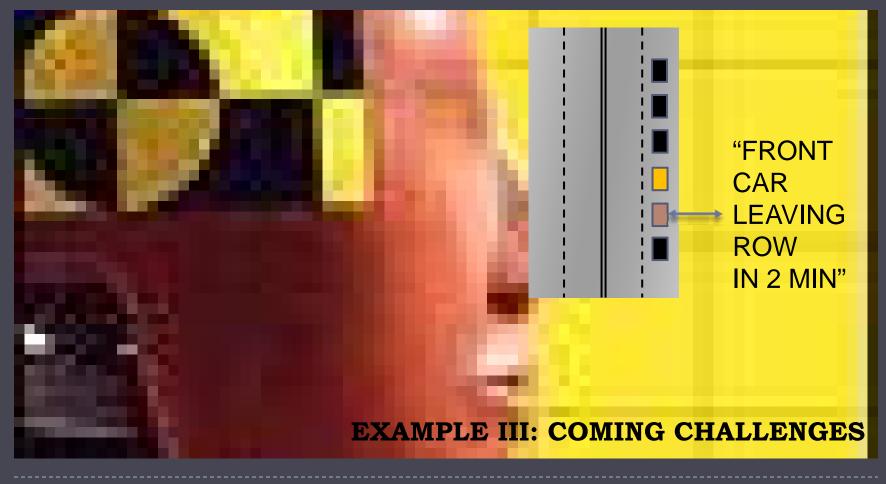
NEAR FUTURE: GHOST DRIVERS

BEWARE OF THEM - ALSO IN-CAR !



NEAR FUTURE? PLATOONING

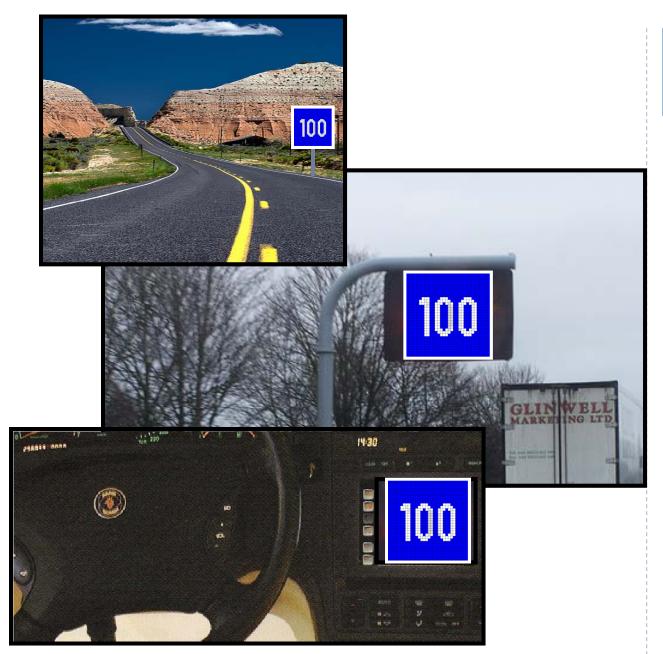
SOCIAL DIVISION OF LABOUR, ON ROAD





AXIS MAKING THE MOST OF FULL **MATRIX** VMS: AN EASY TRANSFER PLATFORM OF "CORRECT" WP.1 DESIGN STYLE

REASONS FOR 3



REASONS FOR 3 AXIS MAKING THE

MOST OF FULL MATRIX VMS:

NEED TO **HARMONISE** SIGNS THEMSELVES

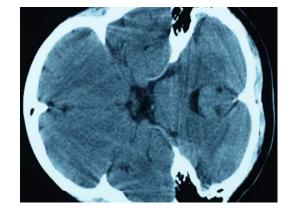
HOWEVER...

THE "LEGAL PROBLEM"

THE "ERGONOMIC PROBLEM" THE "PUBLIC-PRIVATE" PROBLEM



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WHERE ARE THE (NEW) LIMITS?

THANKS FOR YOUR ATTENTION! (ANY QUESTION?)

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Leipzig, International Transport Forum- UNECE, 26May2010