

**EasyWay**

Annual Forum 2010



**Shortcut to the future.**  
Lisbon • November 16<sup>th</sup>-18<sup>th</sup>



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# VMS Harmonisation in the Netherlands

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# Contents

- Types of VMS in NL:
  - Motorway control signs
  - DRIPs
  - bermDRIPs
- Guidelines for VMS messages
  - Dutch (berm)DRIP guideline
  - ESG4 Mare Nostrum: Taking and Giving
  - Guidelines are alive!



## Types of VMS: Motorway control signs

- Standard system on 1100 of 2300 km motorway
  - Automatic queue warning
  - Lane control (X, speeds, arrows)



- Also supports temporary hard shoulder use.



## Types of VMS: DRIPs

- Since 1990: 100+ signs
  - $\pm$  10 metres wide, mounted on gantries
  - 3 text lines
  - $\pm$  27 letters/line  
(proportional fonts)
  - Lines are matrices of  
15, 20 or 24 pixels high
  - Simple pictograms  
can be embedded in text





## Types of VMS: DRIPs

- Since 2010: travel time (+delay)
  - 2 different routes to the same endpoint, or
  - 1-3 routes to different destinations






## Types of VMS: DRIPs

### Other use:

- High priority, overruling travel time:
  - Rerouting advice during incidents
- Low priority, at free flow outside rush hours:
  - Pre-announcements (works, events),
  - (road safety) Campaign messages

↑ A20 bij Kleinpolderplein  
ongeval   
Den Haag/H.v.Holland volg A13 

zondag 21 september  
Amsterdam autovrij  
gebruik P+R en 

Banden op spanning  
Veilig, zuinig, stil



## Types of VMS: bermDRIPs

Since 2006: new standard signs

Type	pixels	km/h
1	192 x 128	100-120
2	144 x 96	80-90
3	112 (80) x 80	50-60





## Types of VMS: bermDRIPs

- Since 2006: standard signs
  - 2006: 6 bermDRIPs
  - 2010: 300 bermDRIPs
- Other users:
  - Provinces, cities, rental companies
  - Smaller types appearing:  
20 -> 12/10 mm





## DRIPs / bermDRIPs main tasks

- DRIPs:

1. Travel time (+delay)
2. Incident management, Pre-announcements, Campaign messages

- bermDRIPs:

1. Incident Management, Event guidance (P, P+R), Preannouncements, Road works, etc.
2. Travel times (+delay), Graphical queue info

tot ✕ Galder  
↑ via A27/A50 20 min +3  
via A59/A16 25 min ↗

↑ tot ✕ Everdingen 9 min  
A12 tot Oudenrijn 10 min ↗





## Dutch (berm)DRIP guideline

Since  
01-11-2010

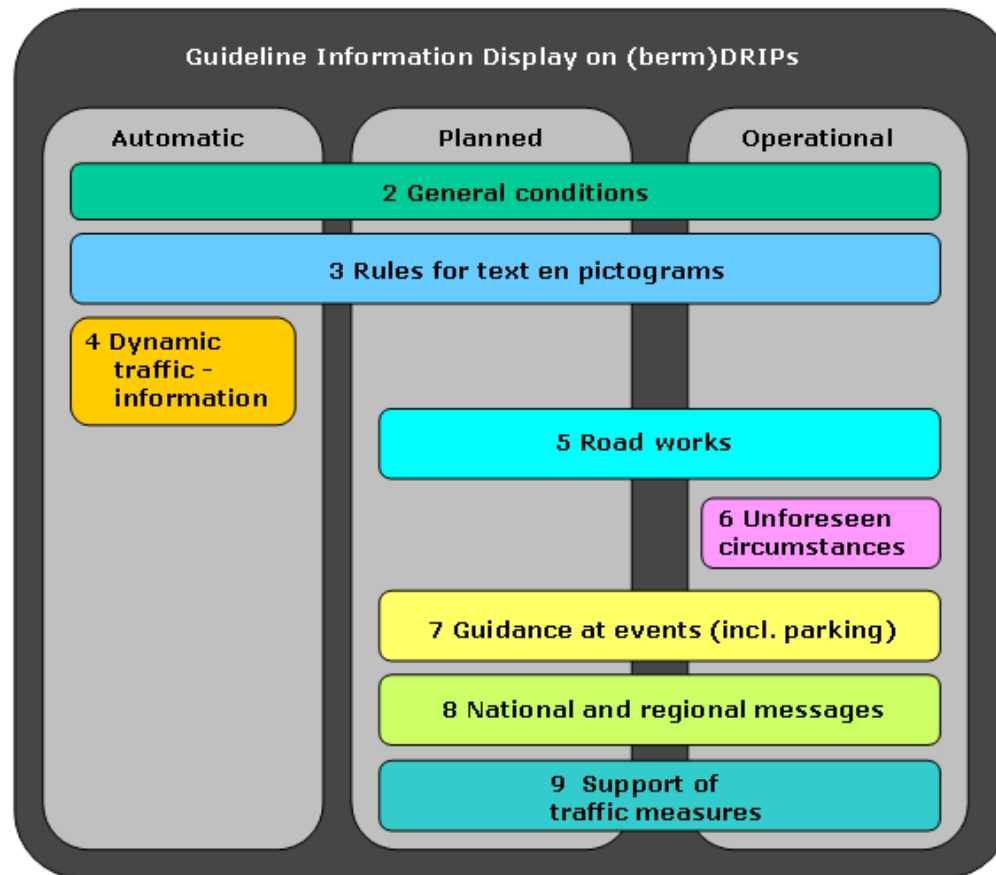


Richtlijn  
Informatievoorziening  
op (berm)DRIPs



## Dutch (berm)DRIP guideline

- Contents



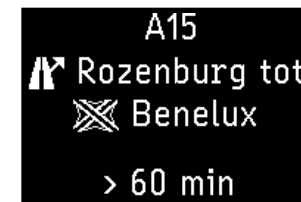
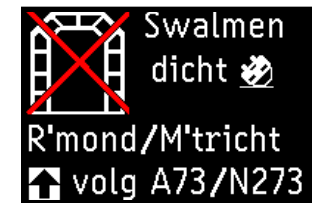


## Dutch (berm)DRIP guideline

- When possible, pictograms are used:



- Or small pictograms in the text:





## ESG4 Mare Nostrum: Taking

- Rules for text order (What, Where, Advice/Info)
- Using pictograms when possible
- Hierarchy in pictogram use
- No triangle when event not near of imminent
- Fonts used on bermDRIPs
  - these come from the SOMS-in-Safety project, with which we cooperated

ABCDEFGHIJKLMN  
OPQRSTUVWXYZ  
abcdefghijklmnop  
qrstuvwxyz '()-+=  
1234567890 <>?/:

- New pictograms from “Consolidated Resolution on Road Signs and Signals”
  - coming from advice to UN-ECE for bringing VMS into Vienna Convention





## ESG4 Mare Nostrum: Giving

- Introduction of 2 new VMS types:
  - text only (also used in UK and SE)
  - full matrix (also used in UK)
- Structuring the Working Book / Guideline contents
  - similar to NL guideline, more items
- Introducing new VMS uses:
  - Traffic Flow Information
  - Preannouncements
  - Inter-modality and Special Circumstances
- Coordination of ESG4 Mare Nostrum user surveys via Internet





## Guidelines are alive!

- Unsolved items:
  - Guideline for mobile and temporary VMS.
  - What to show on VMS when there is nothing to tell.

- New ideas:
  - new pictograms
  - DRIPs with pictogram?
  - New ideas from new users (cities, etc.)





Thank you for your attention

