ISA for serious speed-offenders: two systems tested

Speedlock

Limits the car continuously to the local speed limit (plus a margin)

Speedmonitor

Combination of a Speedlock and SpeedAlert

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Gives visual and auditory feedback when exceeding the speedlimit
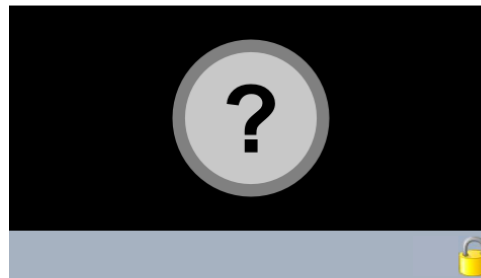
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Based on the magnitude of speeding it will autonomous proceed in a temporary Speedlock

a) Defold display of speedlock

b) Display when speeding (speedlock)

c) Display when speedlimit unknown

d) Display when using the emergency button

The field operational test

51 serious speedoffenders
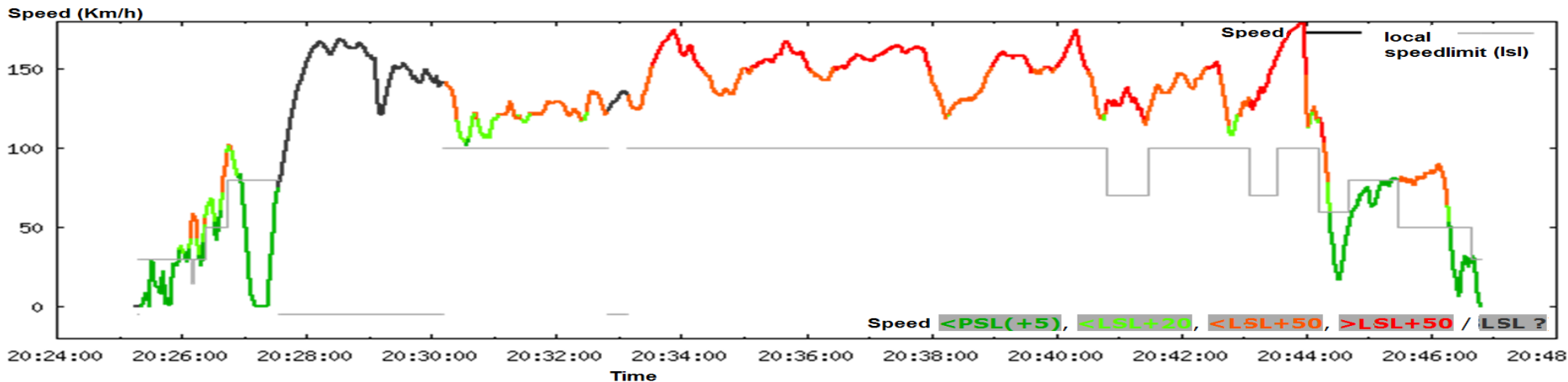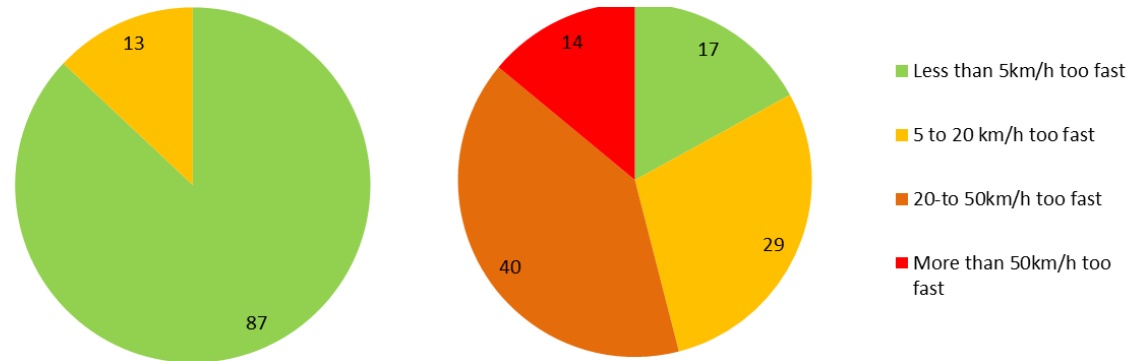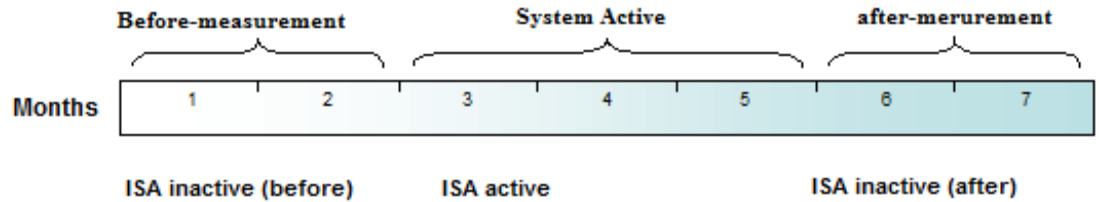-
The participants own cars
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Province Noord- and zuid-Holland
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Before-measurement, System active, after-measurement
-
Measuring quantitative and qualitative (questionnaires)

Results

Severity and the number of exceeding speed limits is drastically reduced

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All indicators (average speed, V85, V95) show a decrease

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The participants mostly returned to their old driving behaviour

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The serious speed offenders found more excuses to use the emergency button
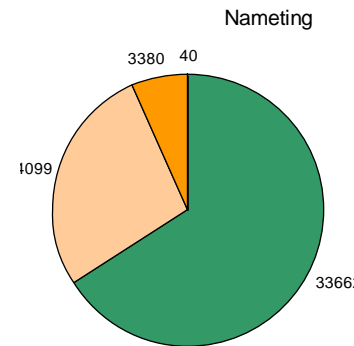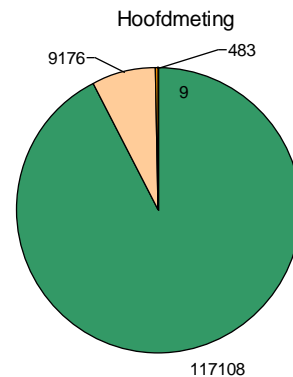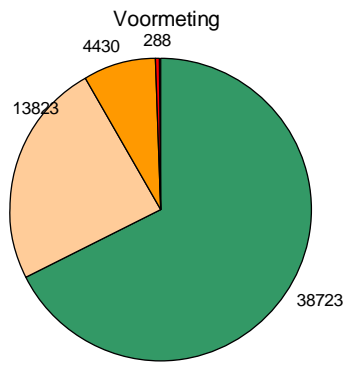
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Experts prefer the speedlock

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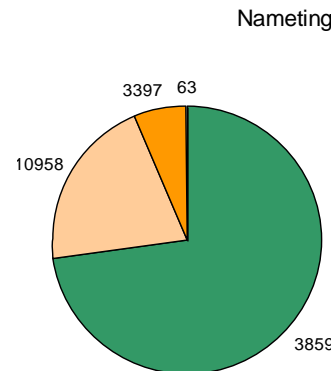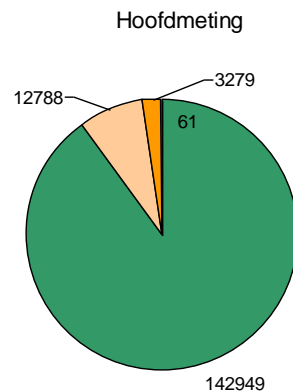Results show a positive effect on traffic safety

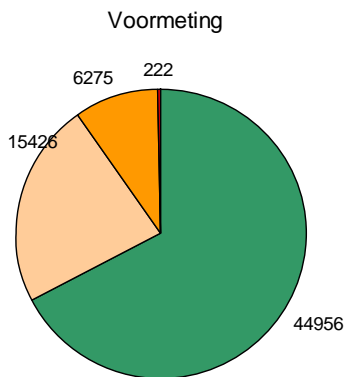-

Not yet ready for implementation as measurement

Speedlock

Voormeting
4430 288
13823
38723

Hoofdmeting
9176 483
9
117108

Nameting
3380 40
4099
3366

Speedmonitor

Voormeting
6275 222
15426
44956

Hoofdmeting
12788 3279
61
142949

Nameting
3397 63
10958
3859

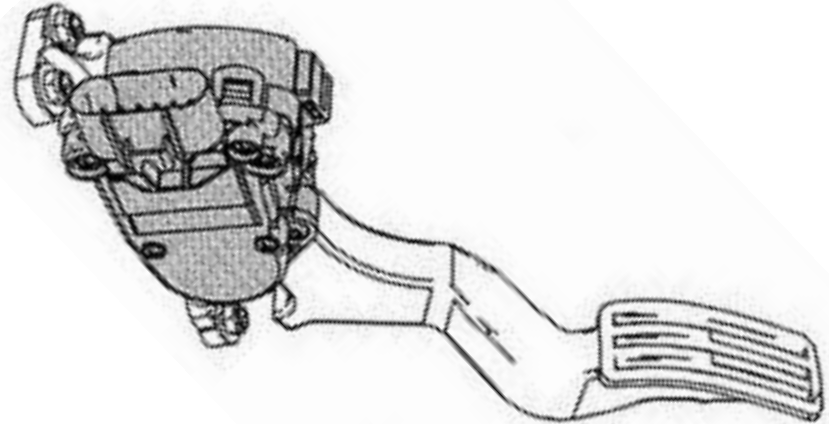# Technical barriers of the tested systems as a penalty measure

Only cars with an electronic throttle can be equipped with the system

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Could be overridden using the cruise control

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Not yet fraud-proof

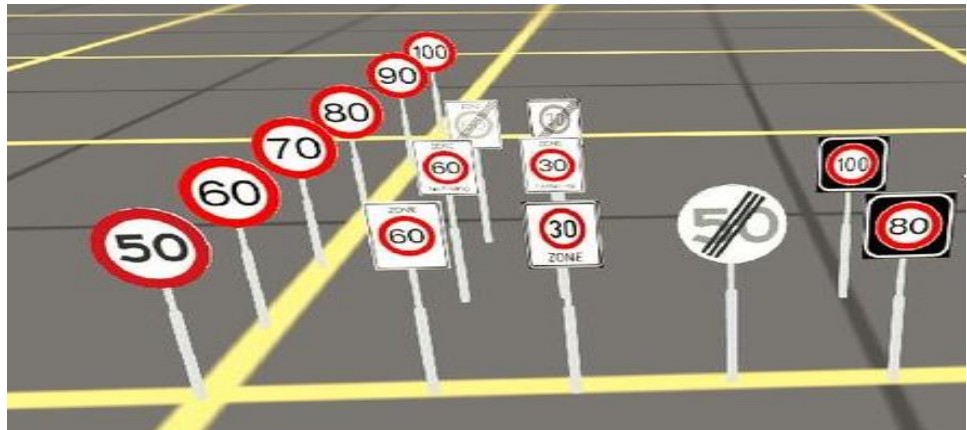# Other concerns when implementing an ISA system as a penalty measure

Back-office important

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A correct digital speedmap including dynamic speed limits

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Liability issue

Questions?

Speedmap within the project
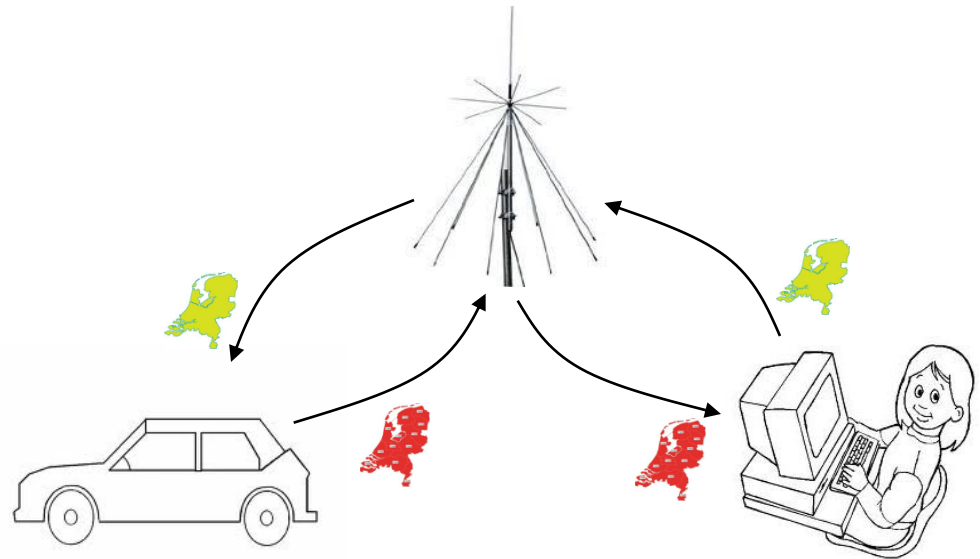
Navteq speedmap

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Updated in the beginning by checking the most frequently used roads

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If emergencybutton was used, the participants had to enter the reason. One alternative was "incorrect speedlimit". These signals were directly checked and adjusted in the map.

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According to the participants 94% of the limits in the map were correct in the end of the test

Waarom drukte u de Xe keer op de knop? (XX:XX)

- ⦿ Verkeerde limiet
- ◯ Noodsituatie
- ◯ Storing in apparatuur
- ◯ Anders

Ok