

Piloting the naturalistic methodology on Bicycles (preBikeSAFE).



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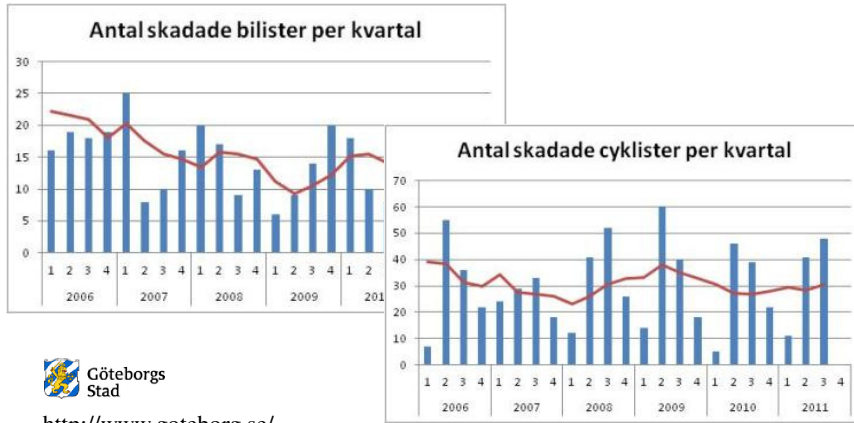
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Summary

- Why preBikeSAFE?
- What is preBikeSAFE?
- How did preBikeSAFE go?

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Cycling in Göteborg



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1896



1968



2011

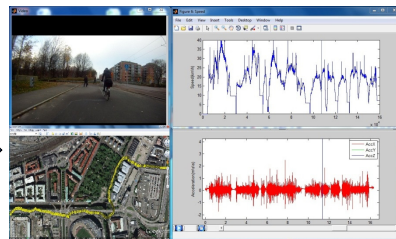


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preBikeSAFE



TRAFIKVERKET



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Instrumented Bicycle



- Camera
- GPS
- IMUs
- Pressure sensor
- Speed sensor
- Simple HMI
- Brake sensor
- Wireless Modem

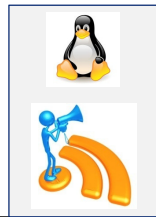
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Lessons Learned

Equipment



Data Processing & Communication



Data Analysis

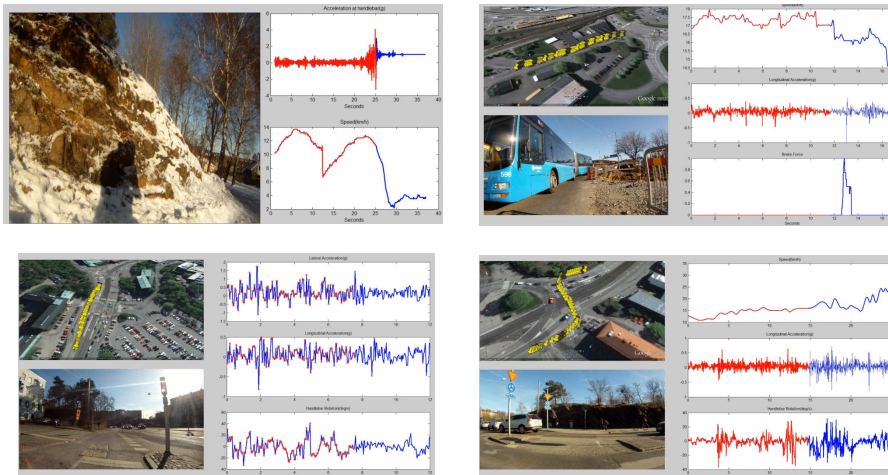


Ethical/Legal Issues



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Results



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Conclusions

- Collecting naturalistic data from bicycle is possible.
- Naturalistic *cycling* data can be used to:
 - Understand accident causation
 - Cyclist behavior
 - Interaction among road users
 - Point out infrastructures limitations

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Thanks for attention.

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