TACHOGRAPH • Device used to record driver activities

Analogue tachograph
- rounded/circular paper form – tachochart
- manual driver and vehicle data insertion

Digital tachograph
- new vehicles
- digital recording – driver card + vehicle unit

Driver activities
- driving, rest, availability, other work

SOFTWARE SYSTEM MODEL • IMPLEMENTATION ISSUES

Analogue tachograph
- automated retrieval of driver activities from scanned tachocharts
- “two-day” tachocharts (overnight drive)
- scanned image rotation angle detection
- multi-tachochart support

Digital tachograph
- data acquisition using standard smartcard reader
- driver card data analysis and storage

Data processing
- analysis, infringement detection

Data analysis, visualization

Driver Activity Overview • Analysis • Reporting
Intranet • Reliable database “in-house”

CONCLUSION

Software developed from scratch
- tailored for Croatian customers
- third-party service companies release available

Support for all driver activity related objects
- analogue + digital tacho, vehicle unit data
- AETR attestation forms

FUTURE WORK

Data acquisition
- analogue tacho - advanced scanned image analysis
- extraction of distance and speed data? (forensics)
- driver card – security aspects – digital signature check

New features
- web support – delivery + data acquisition?

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