

Pavement Management Systems - PMS Challenges using crowd data sources

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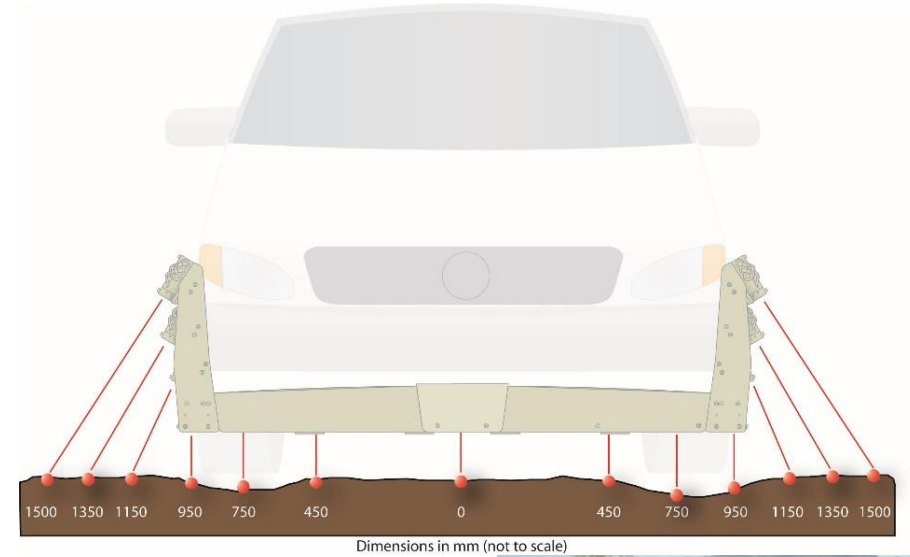
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PMS: traditional data availability

- Certified Equipment
- High-end technology measurement
- Calibration
- Experienced personnel

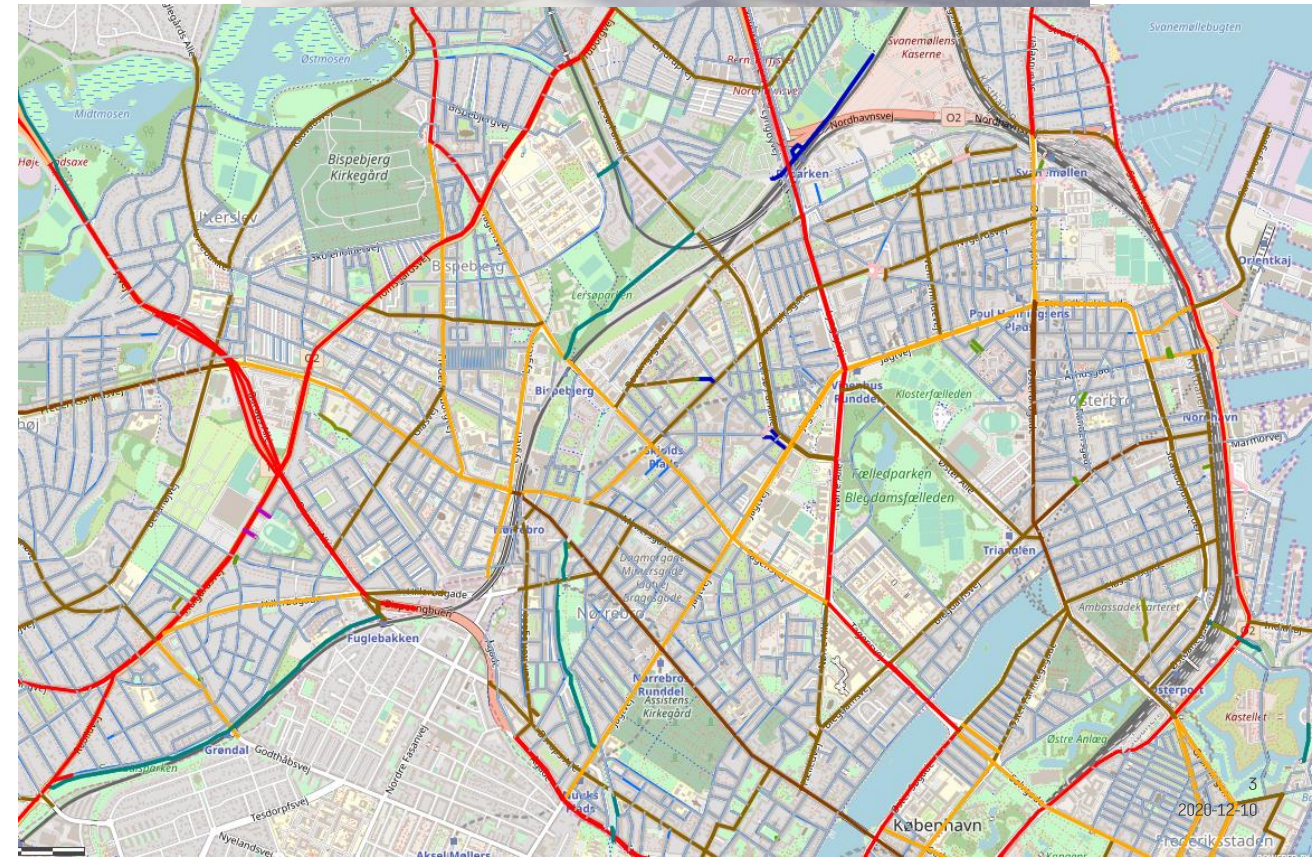


- Accuracy
- Reliability
- Long cycles
- Longer term maintenance strategies
- Cost of acquisition



PMS and crowd source data

- Continuous availability
- High frequency
- Big data
- Very short / fast cycles
- Realtime decisions
- Daily operation servicing
- Network level opportunities
- Data cost...



Advantages of crowd source data in PMS

- Trends detection
- Capital loss visibility
- Fast cycles
 - Winter update
 - Frost / thaw intervention
- On-going risk analysis of constrained budgets
- Ad hoc maintenance
- Budget update ?



Challenges of crowd source data in PMS

- Side by side implementation of traditional and crowd platform in PMS
- Integration with budget plans - updates
- Optimal invest strategy
- Sensors quality
- Calibration
- Reliability
- Relevance
- Highways – Municipality roads



Thank you

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