



# Future development areas for safety performance measurement

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# Introduction 1/2

- Safety management and culture are linked to safety performance
- Safety performance measurement can support management by
  - providing feedback on past and current performance
  - enabling predictions for the future
- A system-oriented perspective is often missing
- A structured overview is needed

## Introduction 2/2

- Maturity models are useful since they allow
  - assessment of the current situation
  - identification of development needs
- The path toward good safety performance is still mostly unclear
- The use of performance information in safety management is often inefficient
- The current study approaches this gap through maturity analysis and multiple case studies

# Materials and methods

- Multiple case study involving seven Finnish companies
- Mixed methods approach
  - Literature review
  - Surveys
    - Safety performance measurement maturity model (Jääskeläinen et al. 2019; 2020)
    - Safety culture maturity model (Tappura et al. in press)
  - Interviews
  - Workshops

# Safety performance maturity analysis (n=172)

- Safety performance measurement status was rather developed
  - Current measurement practices received higher average scores
  - Use of performance information and commitment and culture related to performance measurement were widely at the lower level
- Safety performance measurement is still more about collecting the indicator data than being a genuine driver of development activities

# Safety culture maturity analysis (n=289)

- Safety culture status was rather advanced
  - Considerable differences within the respondent groups
  - Still room for development 3 -> 4

Safety culture theme	Average (1–4)
Communication	2.78
Training	2.43
Organizational learning	2.93
Management & supervisor commitment	2,90
Employee commitment & involvement	2.74

# Discussion

- The status of safety performance measurement was found to be relatively positive
- Areas for development:
  - Commitment to performance measurement
  - Practices for using performance measurement information
  - Proactive measurement
  - Resources for development
- Mapping the path toward good safety performance is proposed as a starting point for designing a measurement system supportive of individual companies

# Thank you!



SafePotential Toolbox:  
<https://projects.tuni.fi/safepotential/>