











- Emphasis on conditions that promote compliance rather than violation provoking conditions
- Safety Climate, probably gained the most attention
- In spite of some variation regarding the strength of the causal relationships, safety climate studies indicate that a positive safety climate promotes safety-compliant behaviour (Alper and Karsh, 2009; Clarke, 2006)

"compliance with safety procedures is not a result of mere chance and individual differences, but rather that it is highly influenced by manageable contextual factors"







SAFETEC	The connection between Safety climate and safety compliance
<ul> <li>Safety Competence         <ul> <li>Studies indicates that there is a positive causal relationship between safety competence and safety compliance</li> <li>E.g. Kwon and Kim (2013) found that the level of safety knowledge was significantly related to safety compliance</li> </ul> </li> </ul>	
<ul> <li>Safety syst</li> <li>positive</li> <li>procedure</li> </ul>	em link between rule clarity, comprehensibility and compliance re vagueness found to be negatively related to safety compliance
<ul> <li>Safety Supervision         <ul> <li>leaders positively affect the level of safety compliance among their subordinates</li> </ul> </li> </ul>	
<ul> <li>Work press         <ul> <li>high job compliar</li> <li>mixed fir predictin</li> <li>Recurrin</li> </ul> </li> </ul>	eure demands and low job resources were negatively related to safety nce adings about the role of respectively pressure and positive resources in g safety compliance g theme in the safety sciences



## SEFFIC Method







## SAFETEC Findings

- H1: On average, safety competence adds about 8% explained variance in safety compliance on average during the four measurement periods when it is added to the regression model
- H2: Safety system was hypothesized to contribute positively to compliance, and support was found for the hypothesis across all four measurement periods. Adds roughly 4% explained variance in safety compliance on average
- H3: Positive effect of safety supervision on safety compliance. Adding safety supervision to the regression model yielded roughly an additional 4% explained variance on average across the four measurement periods
- H4: Adding work pressure to the regression model increased the explained variance by roughly 9% on average across the four time periods

## SAFETEC Discussion

- Identical measures of safety climate are seldom tested repeatedly over extended periods of time
- A significant theoretical contribution of the present study is that a repeated set of tests of a theoretical model that is held constant over a prolonged time span
- The theoretical model explains a significant proportion of the variation in safety compliance (25,7- 28,5%)
- The stability of the model over time demonstrates that the common features of safety climate, as identified by Flin et al. (2000) and as operationalized in the present study, show high predictive validity in relation to safety compliance.
- The findings indicate that safety compliance can effectively be enhanced by focusing on appropriate leadership practices, the usability of the safety system and the safety competence of employees

## SAFETEC Practical implications

- Companies seeking to enhance safety compliance should focus on leadership practices that show a clear commitment to safety concerns, on improved accessibility and clarity of safety procedures, and on training that emphasizes increased knowledge of safety issues and safety procedures
- Work pressure is the most important contributor to safety compliance. This means that the organization should focus on the enacted priorities when faced with safety issues that might conflict with production targets



