



Landesanstalt für Umwelt
Baden-Württemberg

Safety Performance Indicators, an Introduction

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REFERAT 33 – AIR QUALITY, AIR POLLUTION CONTROL



Baden-Württemberg

Safety Performance Indicators

- Why?
 - To inform the operator as to whether the objectives of the Major Accident Prevention Policy are being reached;
 - To inform the operator how well the individual procedures and processes are performing;
 - To inform the operator whether the mechanisms for taking corrective measures achieve their purpose.

Safety Performance Indicators

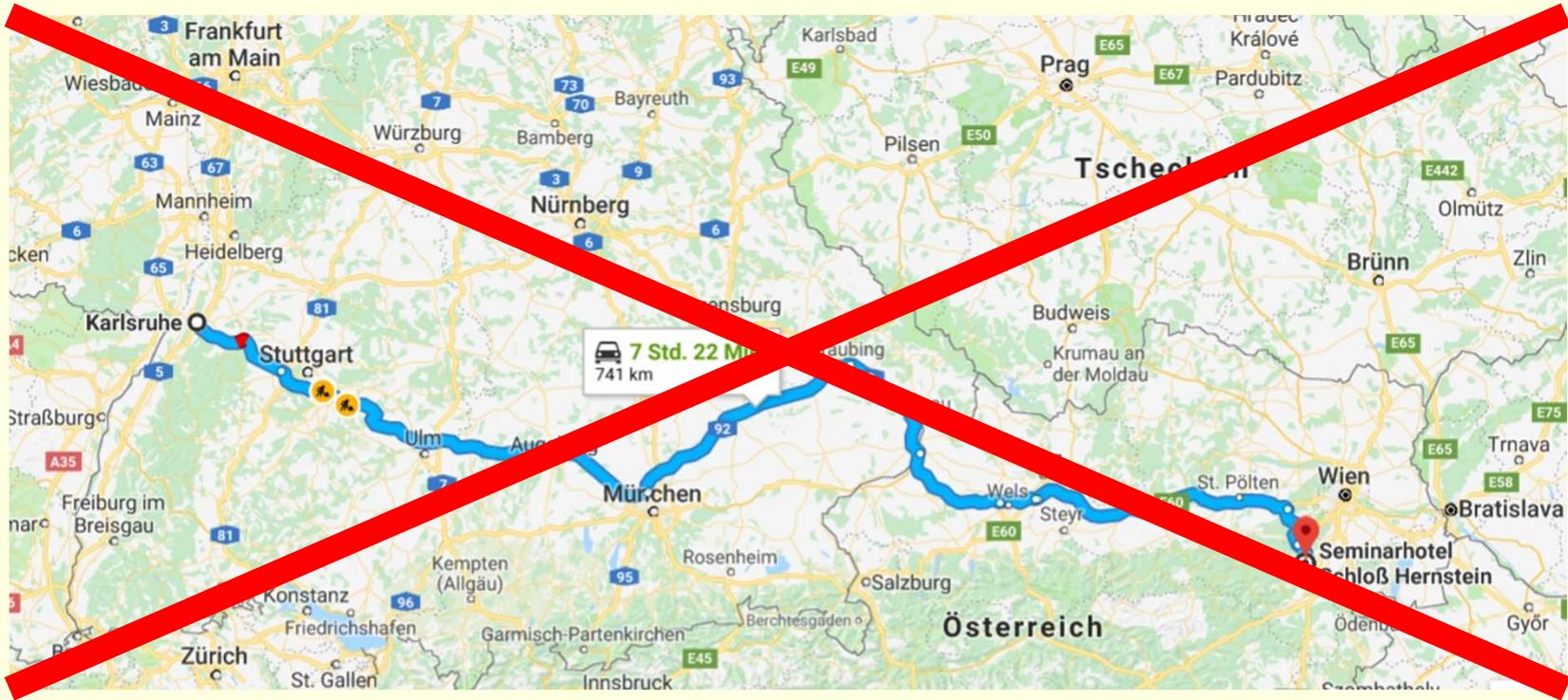
- What ?



Not the goal !

Safety Performance Indicators

- What ?



Not the route !

Safety Performance Indicators

- What ?

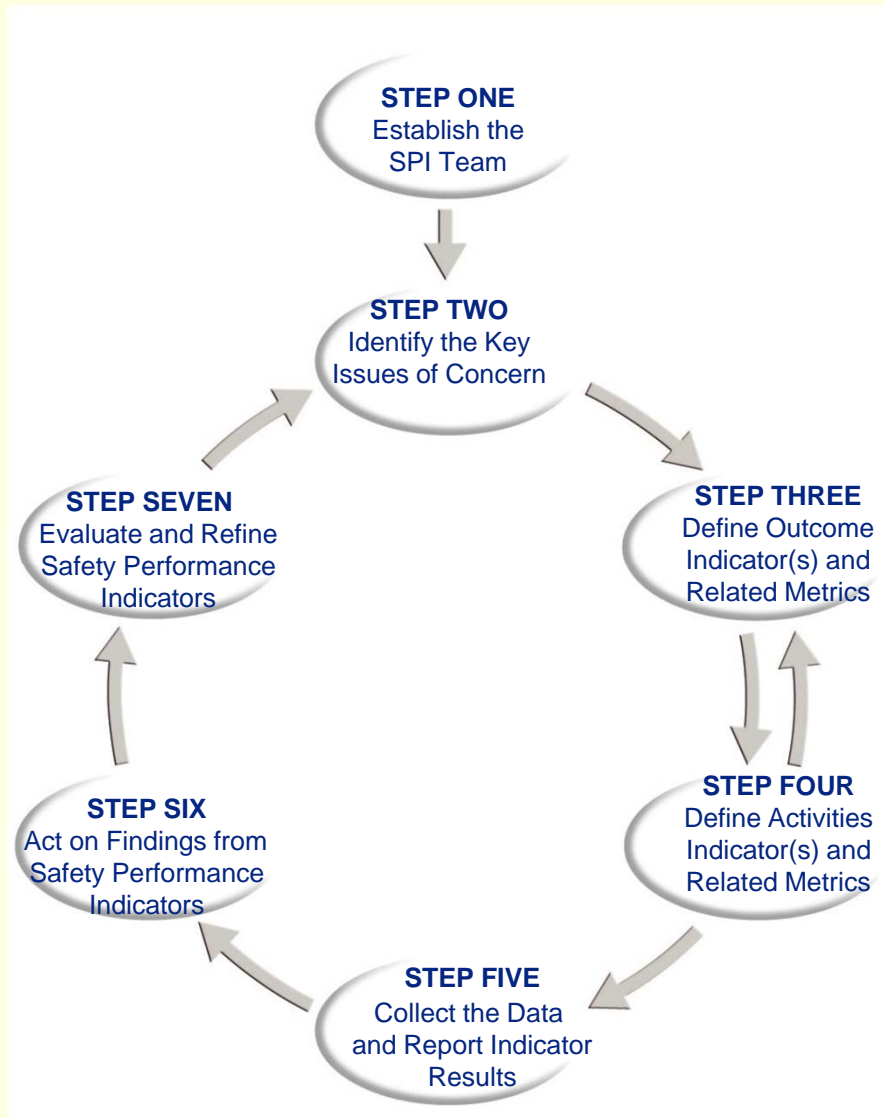


A sign-post

Establishing a set of Safety Performance Indicators

- “Outcome indicators” - lagging indicators
help assess whether safety-related actions are achieving their desired results
- “Activities indicators” - leading indicators
tell an operator whether the designated safety related actions are being performed
- “Outcome indicators” cannot deliver the answer as to why a particular result was achieved or not.
“Activities indicators” cannot say whether all necessary safety related actions are being performed.

Developing a set of Safety Performance Indicators – OECD Guidance



Seven Steps to Create and Implement an SPI Programme

Inspection and Safety Performance Indicators

- Generally, authorities need to understand how the operator is managing safety and whether it is successful.
- The SPI are part of the functioning of the Safety Management System (SMS), therefore the authorities should not define the SPI themselves – they may however agree that certain SPI are regularly reported.
- Inspection (Questions addressed to the operator):
 - How well does your SMS perform?
 - How do you know?
 - How can you demonstrate?

Key Points related to Safety Performance Indicators

- SPI set should be a balance of activities indicators and outcomes indicators.
- The number of indicators chosen must remain within manageable dimensions.
- Safety Performance Indicators must be safety relevant and must have an influence on the safety performance.
- Safety Performance Indicators are only part of the performance assessment and only one tool. Small and Medium-sized Enterprises may only need very few indicators, if any.
- Safety Performance Indicators need management commitment from the top of the organisation, to establish the programme and to maintain its existence.



LU:BW

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**Thank you for your
Attention!**



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