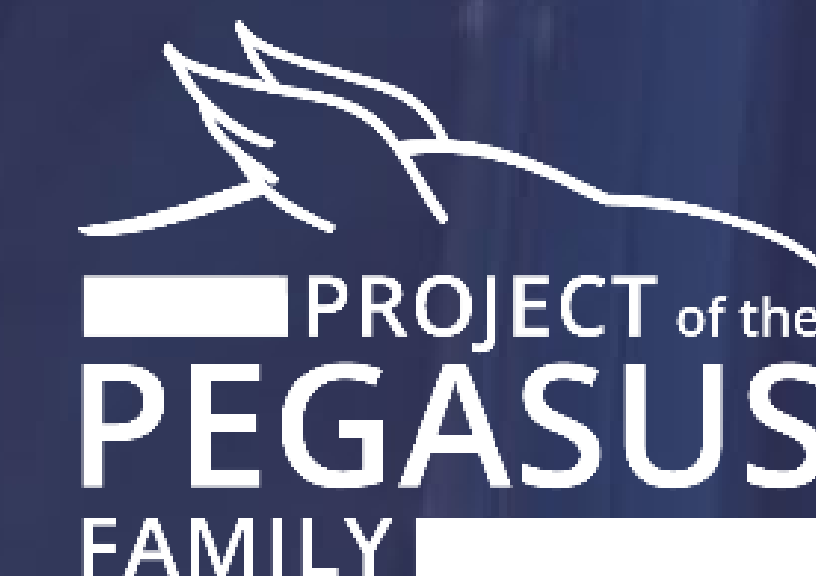


# The Risk Management Core



**VERIFICATION  
VALIDATION  
METHODS**



- ▶ **Homologation of AD systems**  
fulfilling **societal safety expectations**
- ▶ **Hazards** from different sources & norms

## Why - Challenge

## What - Solution

- ▶ **Risk** as leading measure
- ▶ **Aggregate all system risk aspects** with “Risk-modelling” - approach
- ▶ Align system risk with **Risk Acceptance Criteria** in an iterative loop

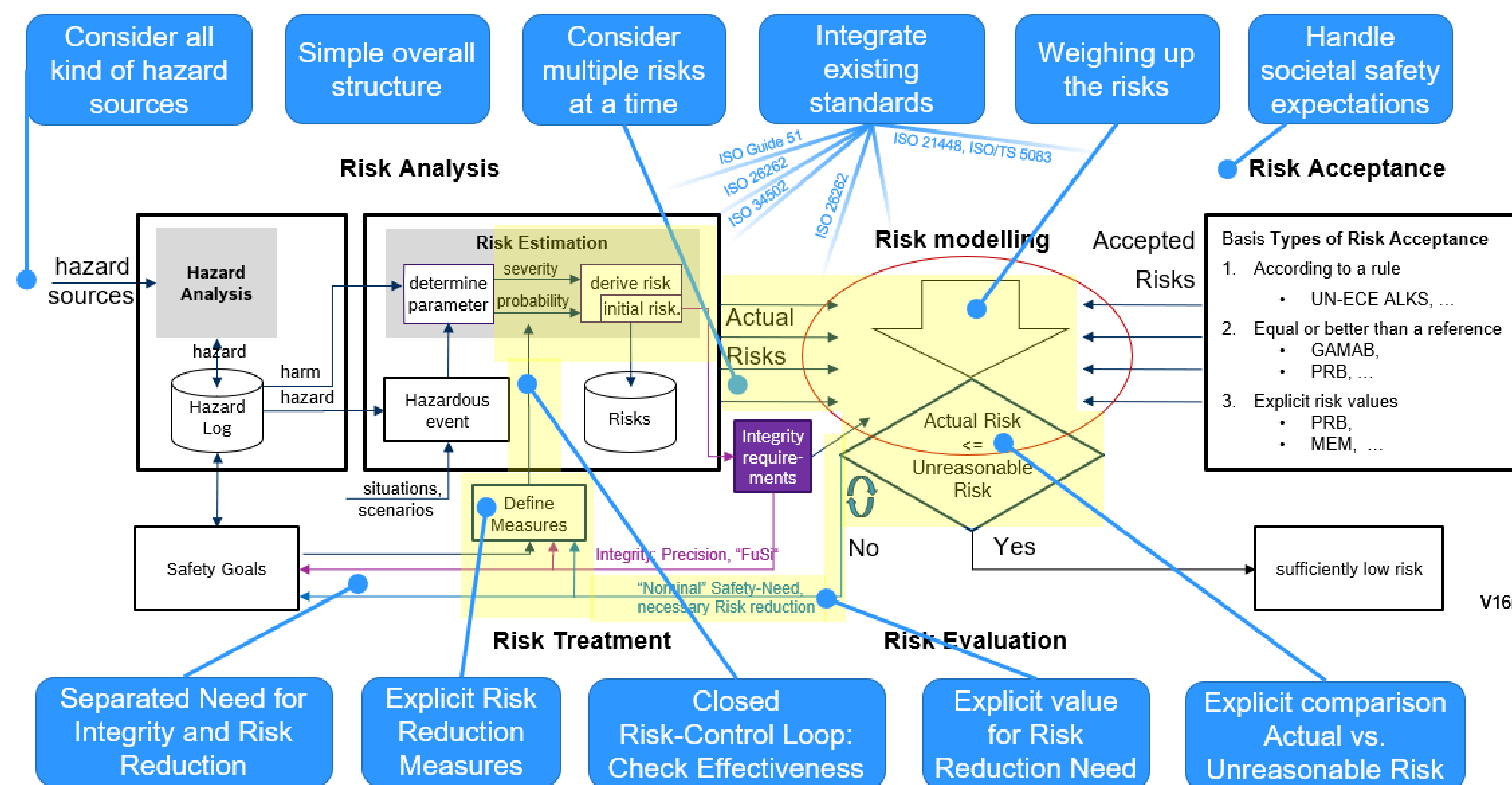
## How - Strategy

## The Risk Management Core - Properties

- ▶ **Inputs**
  - ▶ Hazards
  - ▶ Situations / Scenarios
  - ▶ Risk Acceptance Criteria

- ▶ **Outputs**
  - ▶ Safety Goals
  - ▶ Decisions
  - ▶ Safety Measures
  - ▶ Aggregated risk aspects for Safety Argumentation

- ➔ Outputs fulfill norm requirements
- ➔ Compatible to industrial Engineering Processes (= VVM Approach)



Supported by:  
Federal Ministry for Economic Affairs and Climate Action  
on the basis of a decision by the German Bundestag

The 2023 TRB Annual  
Automated Road Transportation Symposium