



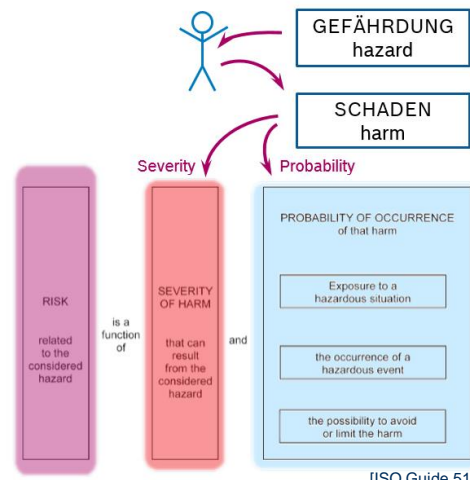
RISK MODELLING

From societal expectations to safe products

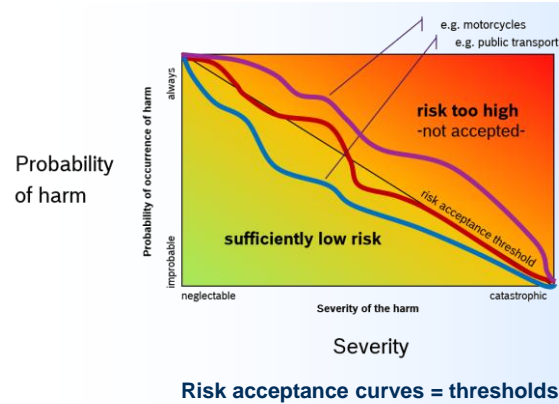
Thomas Kirschbaum, Bosch

Individuals want to be **safe** i.e. protected from **harm**, freedom from **hazards**.

“**Risk**” combines increments of harm (severity) with increments of the hazard (probability) for more granular evaluation.

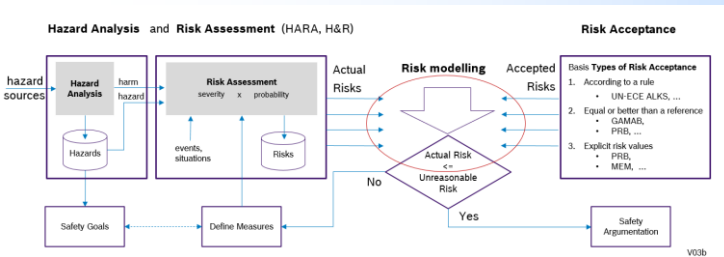
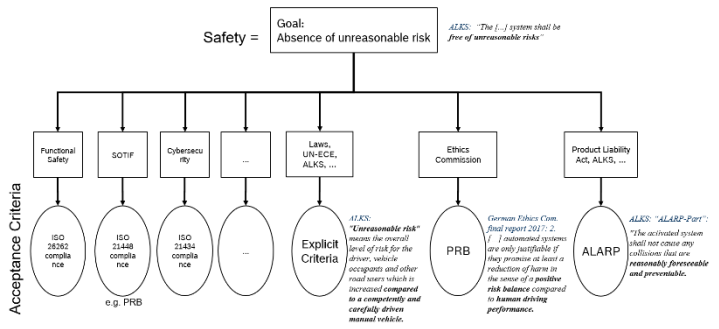


Risk = Severity of harm x Probability of occurrence



Society accepts a certain amount of risk. It considers **sufficiently low risk** as **safe**. The **risk acceptance threshold** is not linear. It depends on context and differs between culture groups.

For safe products automotive industry shows the “**absence of unreasonable risk**” which is considered to represent **sufficiently low risk**. It is necessary to argue evidence for an appropriate set of **Risk Acceptance Criteria (RAC)**.



The “**Risk Management Core**” allows to derive the appropriate amount of **risk reduction measures** based on the evaluated **risk** and the applying **risk acceptance criteria**

Outlook Risk Modelling

- Collect Hazards in a “Hazard Log”
- Align risks with different RACs
- Risk Modelling with more than one hazard at a time

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Projektpartner



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