

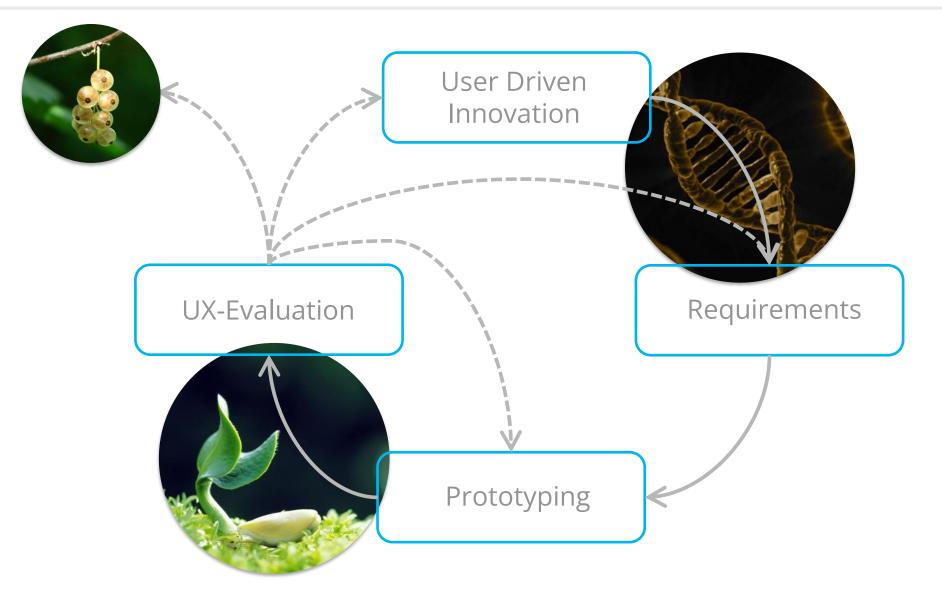
# Usability Engineering und Risikomanagement – ein Staffellauf

LISAvienna Regulatory Konferenz für Medizinprodukte und In-vitro Diagnostika 2023

17.10.2023

## Potentials of Usability Engineering

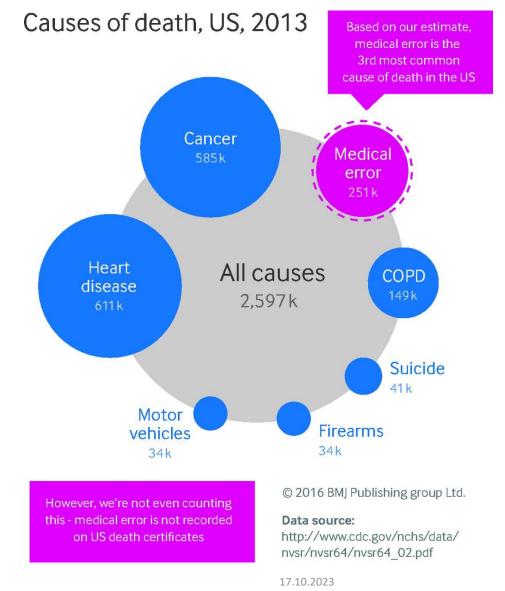




## Medical Error Problem ties Usability to Risk

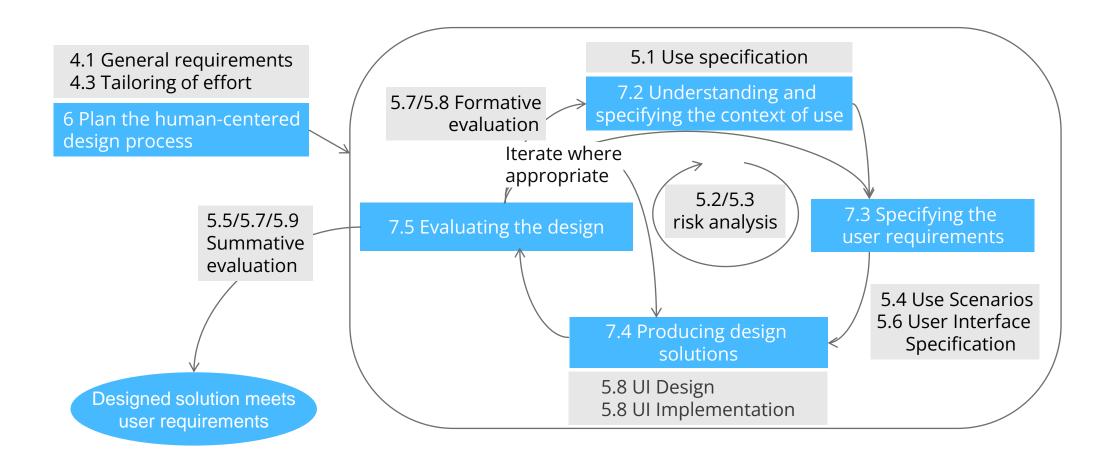


- 1. Focus: product development.
- 2. Usability engineering as an important tool to make medical devices safer.
- 3. Harm is a problem in the design of a system, not an error by individual users.
- 4. Focus on identifying and controlling errors in the design of user interfaces that could lead to damage or compromise medical care.



## Usability Engineering Process





ISO 9241-210:2019: Human-centred design process for interactive systems

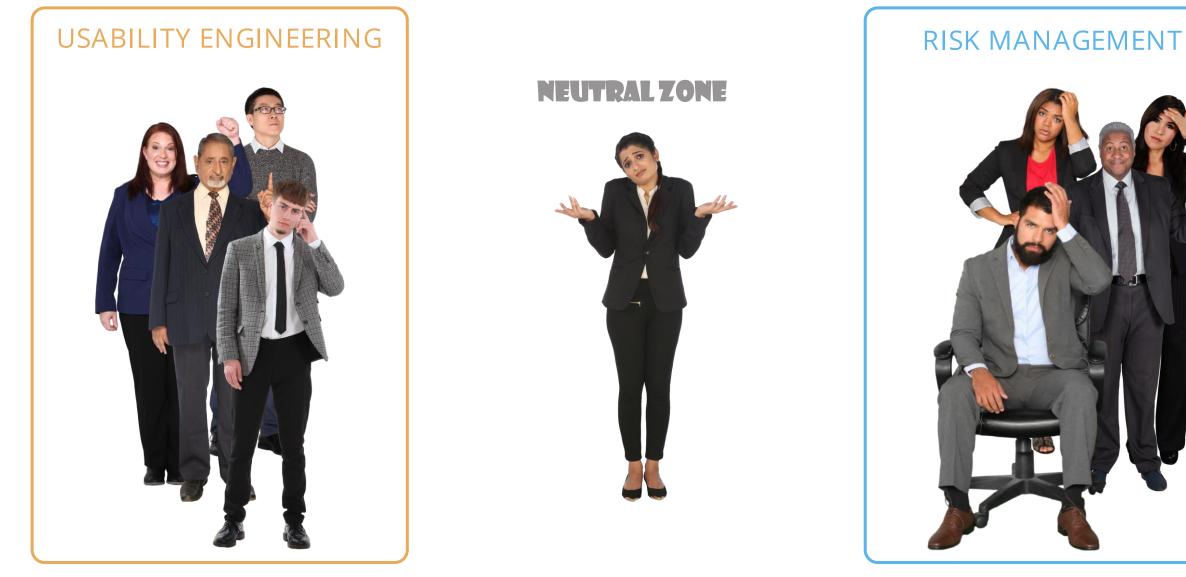
ISO 9241-210:2020

IEC 62366-1:2015

LISAvienna Regulatory Conference - Usability Engineering and Risk Management - a Relay Team Race

Boxes

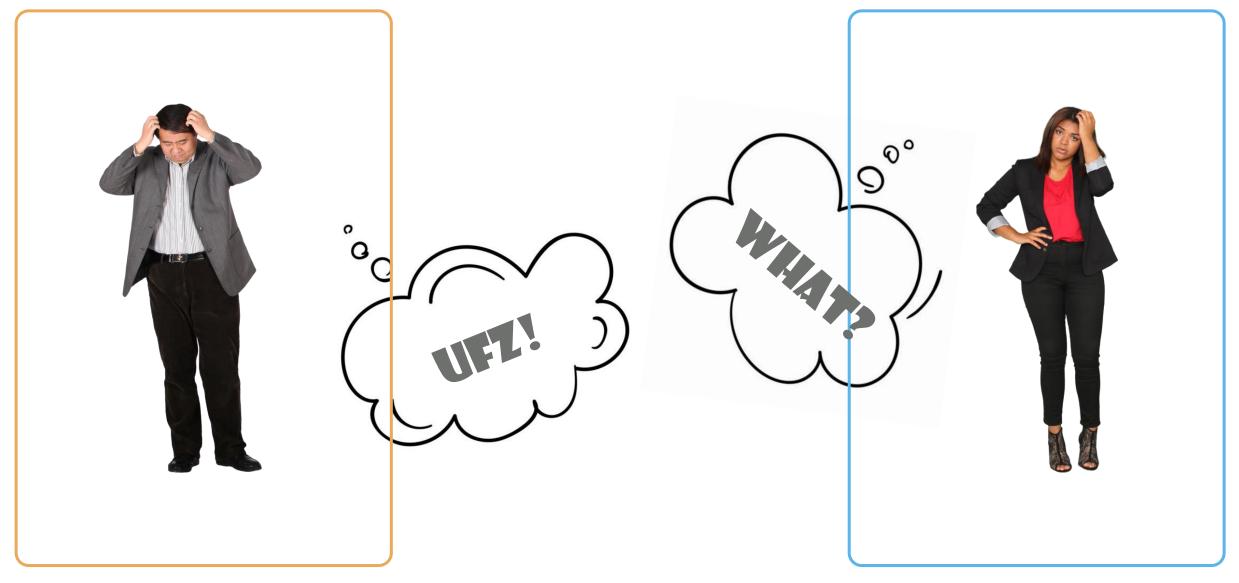




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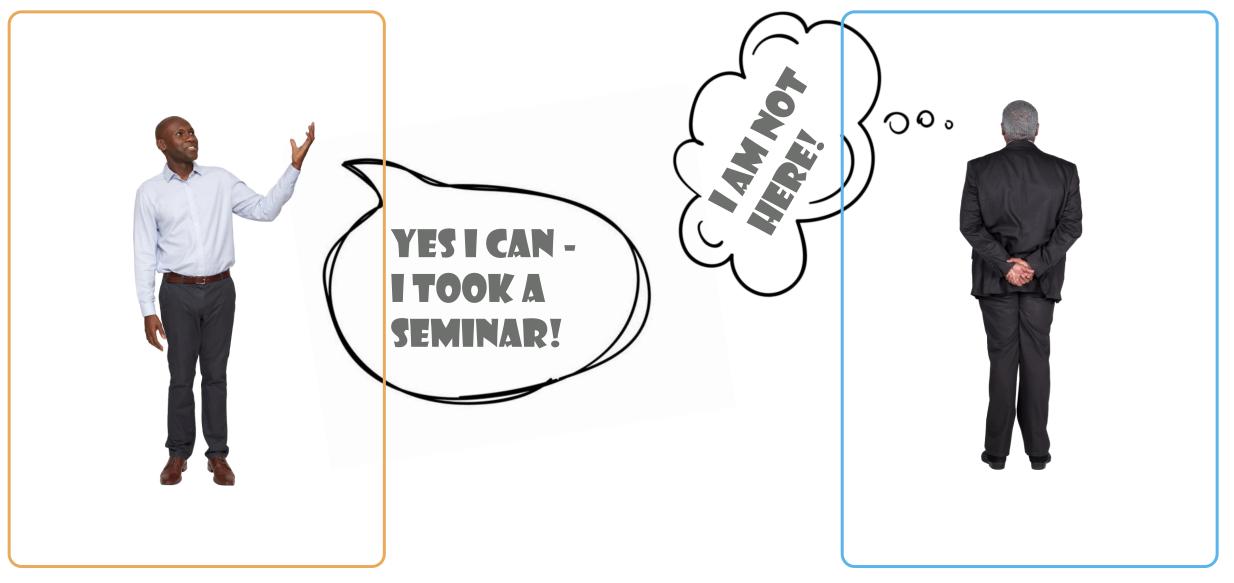
#### Think out of the Box?





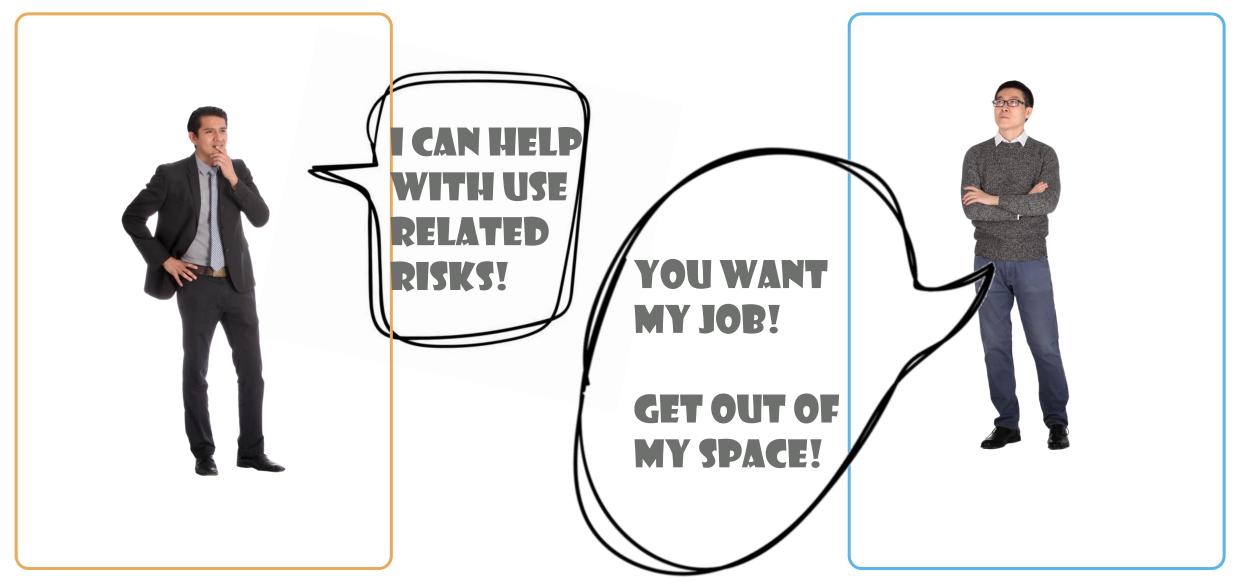
### Learning with each other?





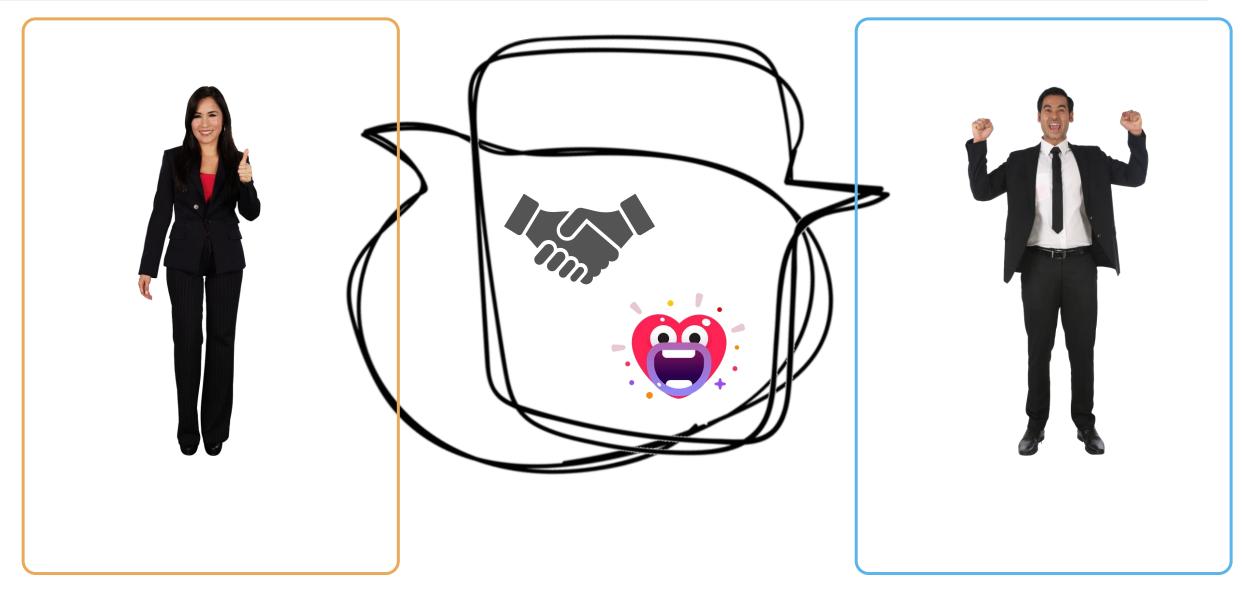
#### Be open minded?





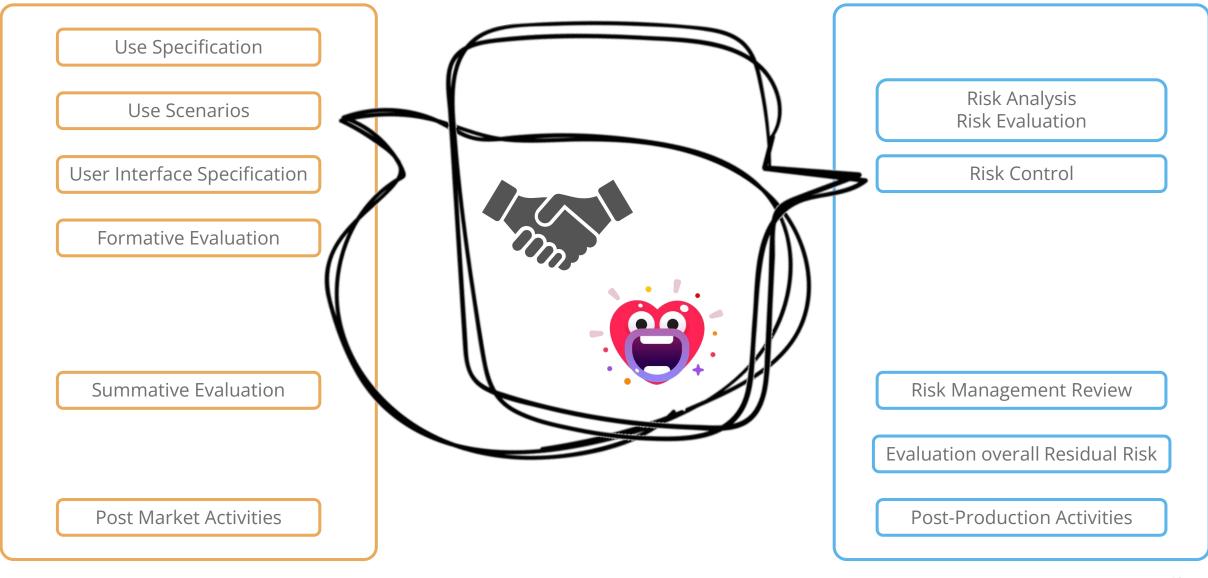


## Fill the Space between the Boxes!



#### Given structures.

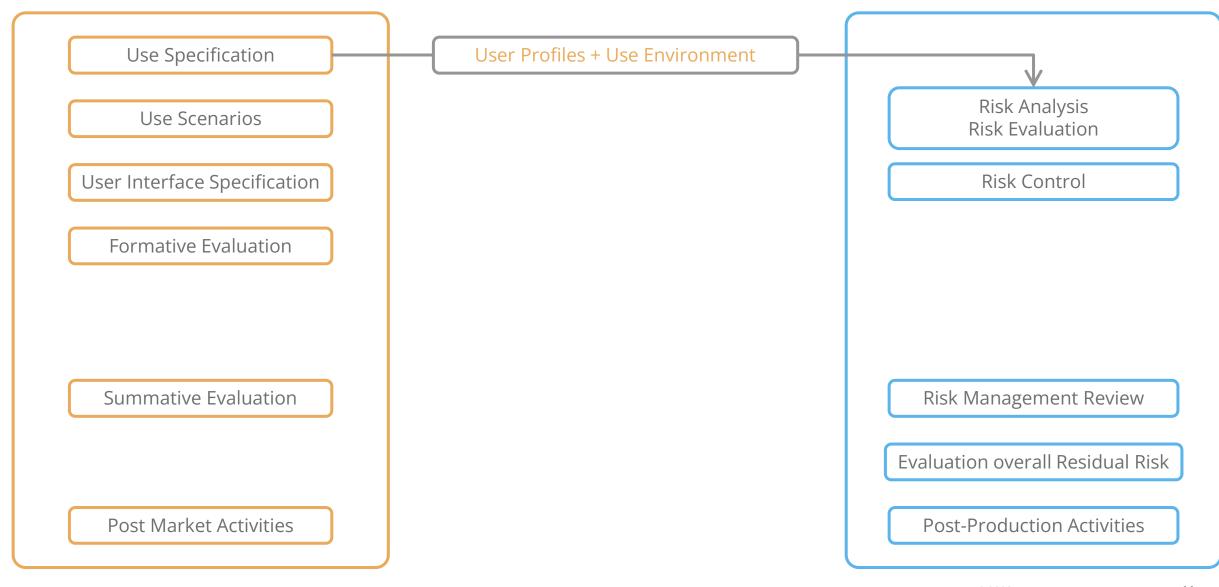




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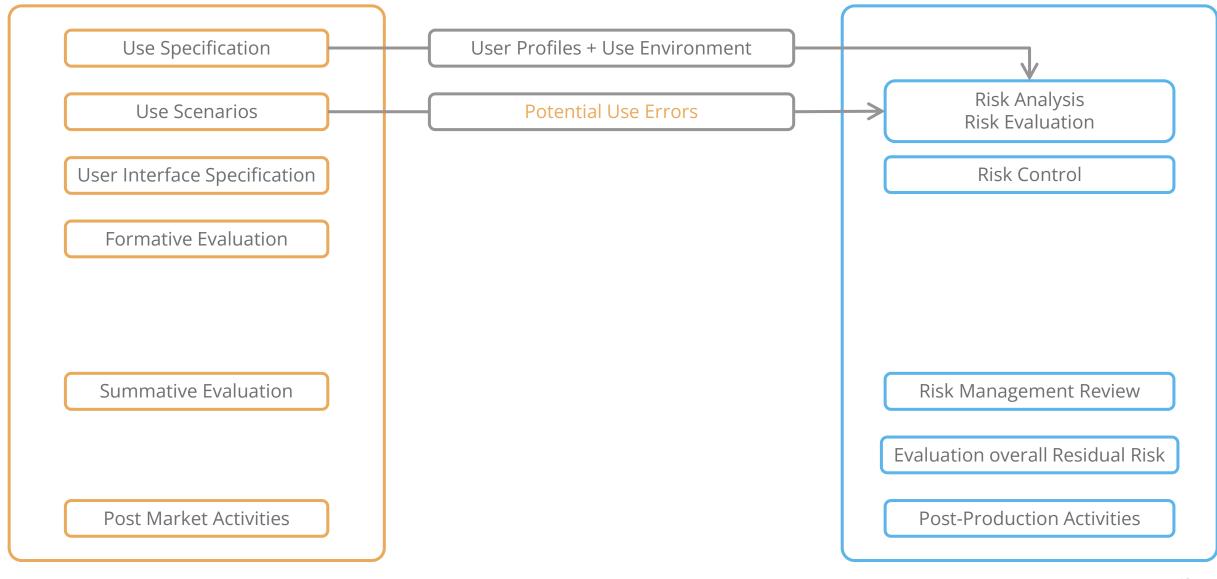
### **BENKANA** INTERFACES

## It's a decision not a description!



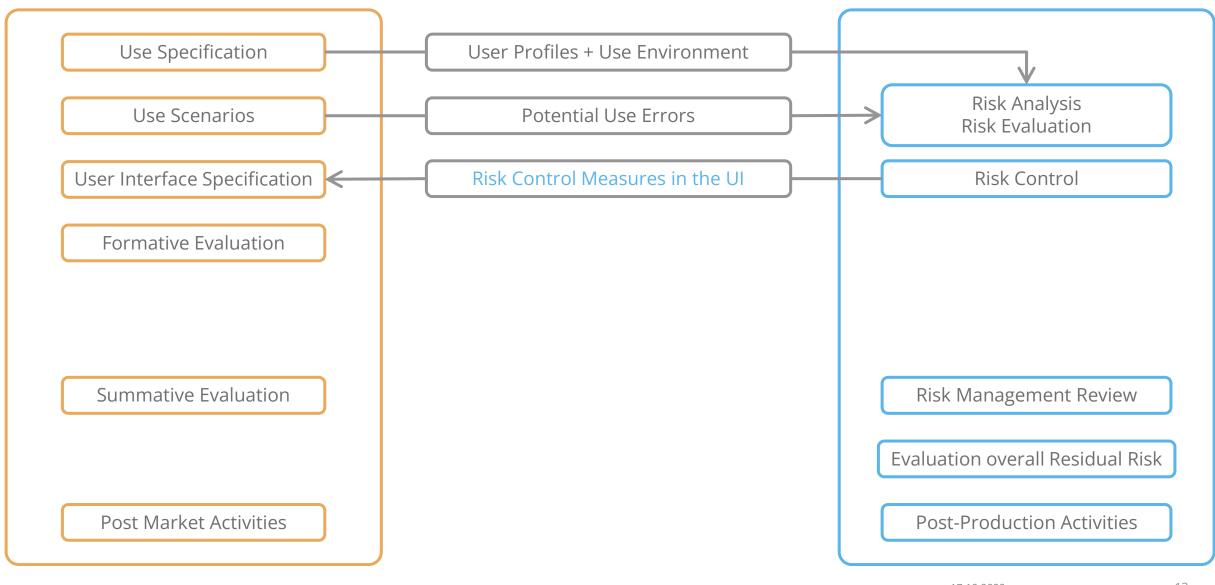
## Correct Use and Use Errors – nothing more!





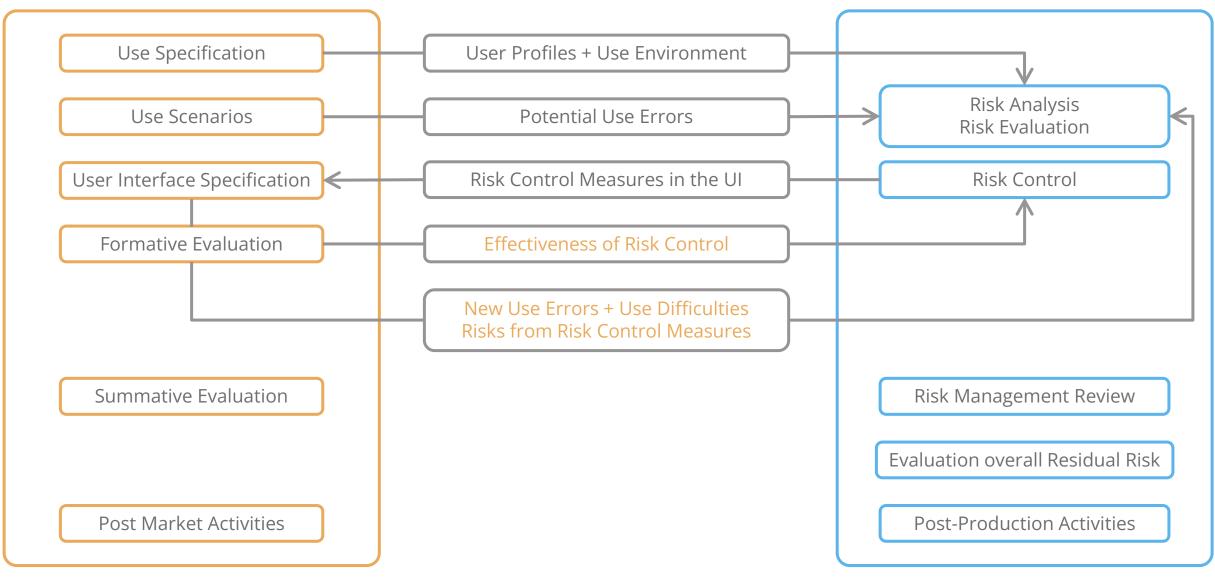
#### Risk control in the User Interface = User Interface Specification of IEC 62366-1





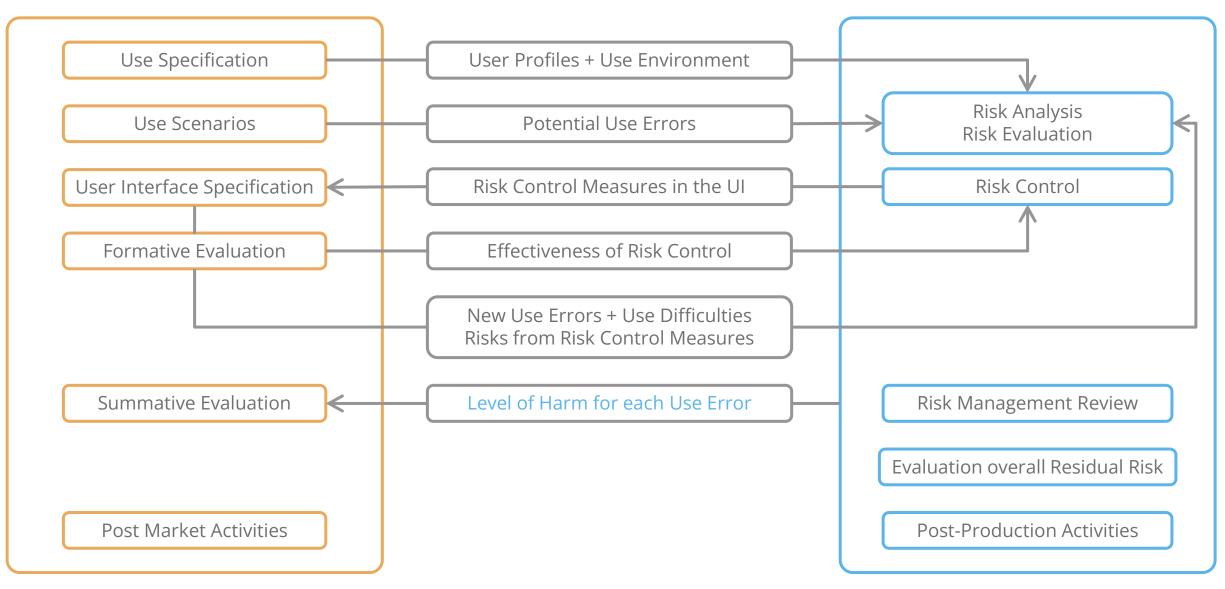
## What it is all about!





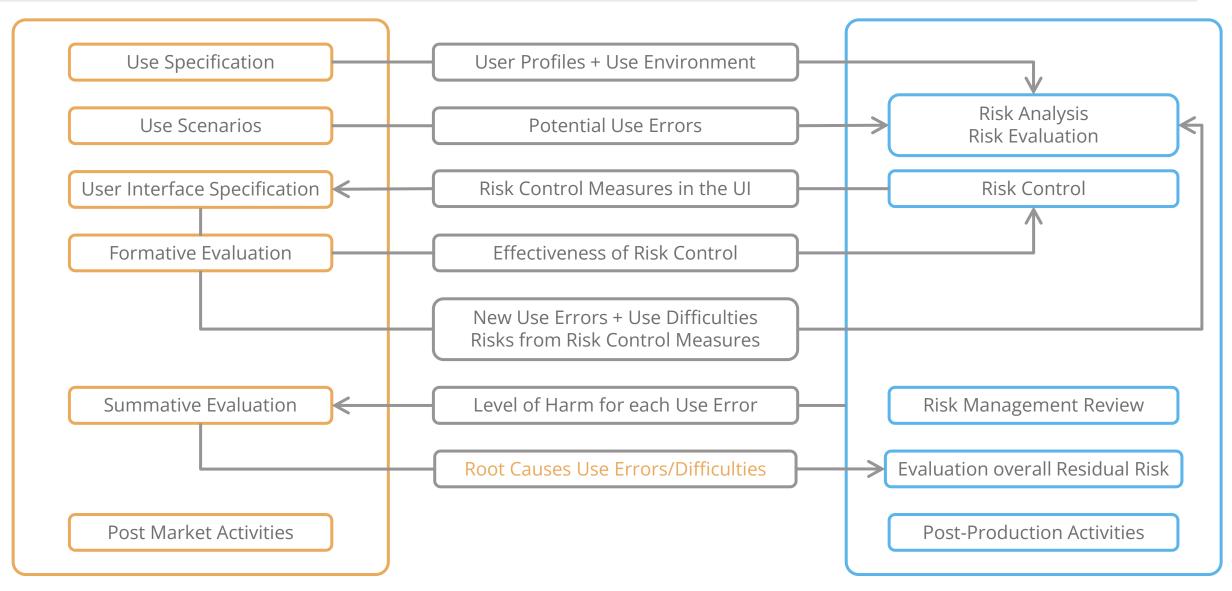
## Hazard related Use Scenarios and Critical Tasks





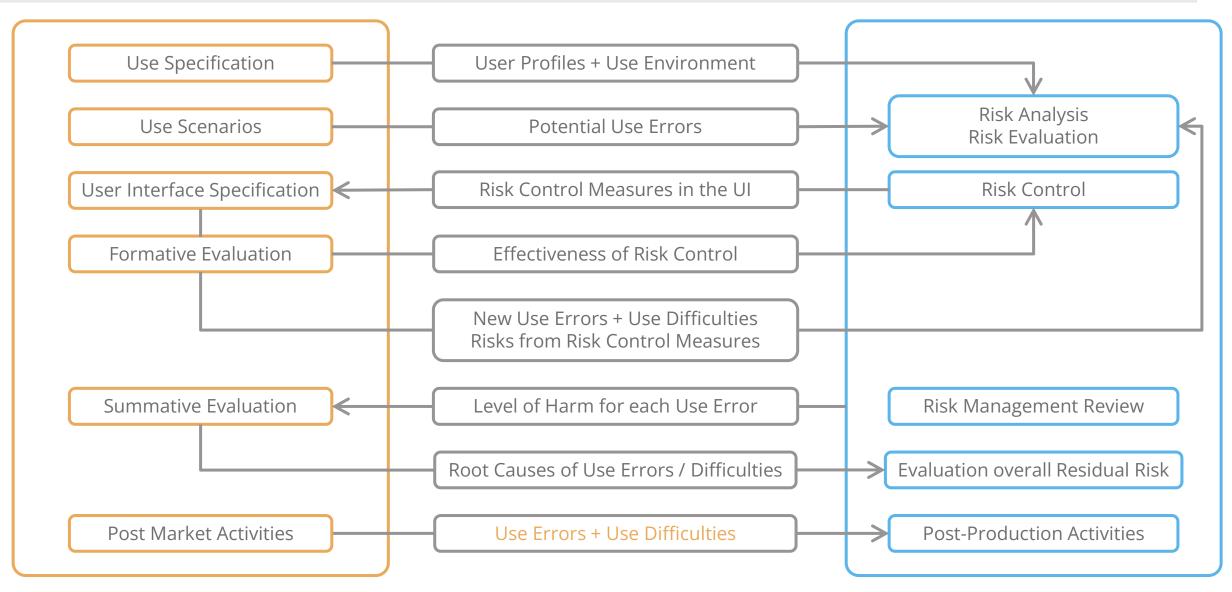
## Again: Stop Usability before it gets risky!





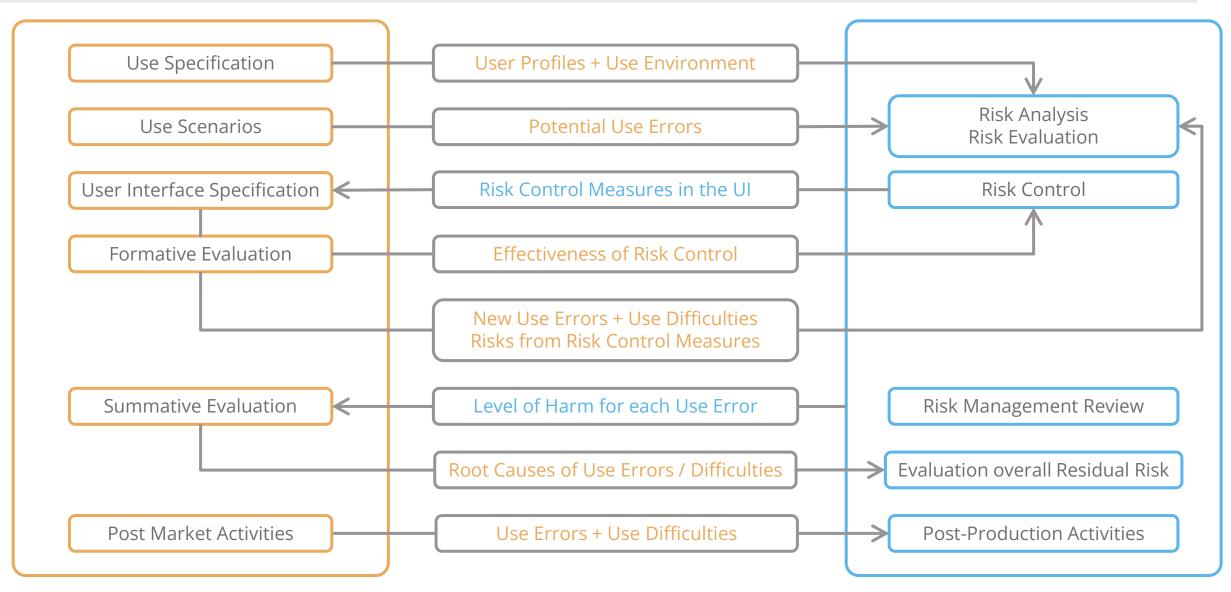
## Post Market Activities





## The Team Relay





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