Mitigate Risks from Changes or Variants

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Background

- Variants and changes are severe risk drivers

- Simulation and tests address the known effects of changed components or function groups

- Unexpected failures result from unidentified side effects somewhere else in the mechatronic system

Requirement

- Identify intended and unintended effects of changes and variants across the whole product structure

- Consider hardware and software changes

- Evaluate damaging effects across the whole product for risk mitigation

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Customer benefit

- Transparency of change effects across a complicated mechatronic system

- Quantification of unintended side effects for a change-related risk-mitigation program

- Automatic analysis for unified consideration of hardware and software changes

The Solution: Change Management

- Identify the risk drivers for function groups:
  - Risk ←→ damaging load & observable

- Identify A change starts the inverted effect → risk-chain for all function groups:
  - Damaging load & observable → risk

- Risk mitigation program for all influenced risks on all function groups