

Example Inspiration list Risk Analysis

Risk?

- How the system could fail
- What makes the system fail
- How likely it is that the system fails in that way
- What the consequences of that failure could be

Known	Things we are aware of and understand	Things we are aware of but don't understand
	Things we understand but are not aware of	Things we are neither aware of nor understand
	Knowns	Unknowns

Risk story

- Victim:** Some person that experiences the impact of a problem. Ultimately no bug can be important unless a human cares about it.
- Problem:** Something the product does that we wish it wouldn't do.
- Vulnerability:** Something about the product that causes or allows it to exhibit a problem, given some condition.
- Threat:** Some condition, such as input to the product, that can trigger a problem in a vulnerable product.

Estimate impact/risk

- Past experiences
- Which funds?
- Which parts of GFA?
- Functional implications?
- Non-functional implications?
- Known vs. Unknown

Estimate risk significance:

Likelihood (Failure chance)	High	Medium	High	Critical	Critical
		Low	Medium	High	Critical
		Low	Low	Medium	High
	Low	Low	Low	Medium	Medium
		Low	Severity (Impact)		High

- Unclear requirements
 - Ambiguous
 - High demands on precision
 - Changing requirements
- High complexity:
 - Complex logic
 - A lot of code (new or changed)
 - Old code
 - Bad code
 - Many variables
 - Many different modules/components that need to work together
 - Unknown code
- Frequently changed software is error-prone
- Errors from the past
- New technology
- Knowledge/skills of the development team
- Time pressure
- New functionality
- Many interfaces
- Contaminated data
- Poorly tested
- Poorly testable software

Which parts of GFA are affected?

- Reading data (Export/Import)
- Create calculation task: Outside employment relationship
- Create calculation task: Withdrawal UPA delivery
- Create calculation task: UPA changed date of birth
- Create calculation task: Advance/TWK changed date of birth
- Create calculation task: Recalculate mutated policy periods
- Create calculation task: 'Delta process'
- Create calculation task: UPA (Final settlement)
- Calculate Premium: Not UPA (Advances and TWKs)
- Calculate Premium: UPA (VCR GAM)
- Book Premium: Not UPA (Advances and TWKs)
- Book Premium: UPA (VCR GAM)
- Compile Invoices
- Inform external systems
- Out of scope GFA

Questions about the change:

- Which funds are affected?
- Could the change possibly break the run intentionally/unintentionally?
- Does the change possibly have intended and/or unintended premium consequences?
- Is the change (potentially) visible to end users (organizations/participants)?
- Does the change possibly have intended/unintended security implications?
- Does the change possibly have intended/unintended performance implications?