









- **Basic process:** identify the risk -> analyse its implications -> determine treatment methods -> monitor performance of treatment methods
- Techniques & heuristics for the identification, analysis, treatment & monitoring of risk

Insurance companies depend on understanding risk

• Risk management is a project management tool to assess & mitigate events that might adversely impact a project, thereby increasing the likelihood of success









• Objectives

- To identify, address & eliminate risk items before they become either threats to successful software operation or major sources of software rework
- Necessary that some form of measurement is undertaken to determine & classify the range of risks a software development project faces, & to identify areas where a *significant* exposure exists
- The discipline attempts to provide a set of principles & practices to achieve the above
- A response to *change* & *uncertainty*













Personnel shortfalls

[Boehm 1991]

- Unrealistic schedules & budgets
- Developing the wrong functions & properties
- Developing the wrong user interface
- Gold-plating
- Continuing stream of requirements changes
- Shortfalls in externally furnished components
- Shortfalls in externally performed tasks
- Real-time performance shortfalls
- Straining computer-science capabilities

Determine a risk-management technique to deal with each of these







.g. PMP summarised as a risk register									
Risk Register Fink Questionnadre/Assessment Summary Risk Questionnadre/Assessment Summary Projet: Osofficular Interner EDuter Version									
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The BIGGEST risk?

Not knowing what the risks are!



- The enemy of the software manger is risk
- Software projects must manage risks to minimise their consequences
- Time spent identifying, analysing & managing risk pays off!
- You can use the 6 stage conceptual framework with its associated techniques as a solid starting point
- If nothing else, be risk aware...



