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MODULE OBJECTIVES 01

03

Plan risk management **Key Concepts** of Risk

Risk Assessment **Risk Control**

Apply the techniques to identify, assess and control risks



Key Concepts in Project Risk Management

- + Characteristics of Risks
- + Risk Management Model
- + Risk Management and the Life Cycle





CONCEPTS

<u>Project Risk</u> – an uncertain event or condition that, if it occurs, has a positive of negative effect (opportunities or threats) on one of more project objectives such as scope, schedule, cost and quality.

Uncertainty: It may or may not occur

Probability: How likely is it to occur?

Impact: A loss or gain

Mitigation: Measures taken to overcome or exploit the effects *Known risks – identified and planned* response. If it cannot be managed proactively – assign a contingency reserve

Unknown risks – assign a management reserve



CONCEPTS

Risk Attitude - How much risk are organizations and stakeholders willing to accept?

Risk appetite: uncertainty vs reward

Risk tolerance: amount of risk that willing to be withstood

Risk threshold: level of uncertainty or impact, below which the risk is

accepted above which it is rejected

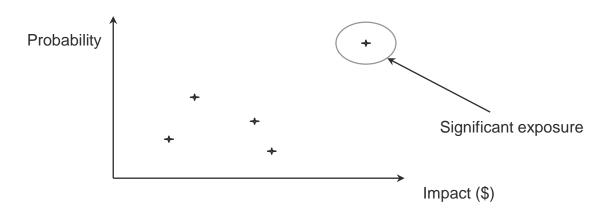


CONCEPTS

Risk exposure (event) = Prob (event)*Impact (event)

Given a 0.1% chance my home will catch fire and a loss of \$350,000 then my exposure is \$350

This is what I may pay as insurance against this risk



In Risk management we focus on those events with *significant exposures*

Bookmakers and insurance agents are normally very good at calculating risk exposure. However gamblers and software project managers are somewhat less so! WHY IS THAT SO?



WHAT IS RISK MANAGEMENT?

Decision making under conditions of uncertainty

Making informed decisions by consciously assessing what can go wrong and the resulting impact. It is identification, communication and resolution

Purpose

Preventing risks from becoming a problem or lessen it's impact that threatens the success of the project

Benefits

Controlling Risks

Reduce project cost and project vulnerability

Risk Visibility

Prompt Risk reaction

Risk prevention/risk exploitation Confidence that something is being done about Risks



PLAN RISK MANAGEMENT

Define how to conduct risk management activities for the project

Components of the plan

Methodology Approach, tools data sources to perform risk

management

Team members to lead, support each type of Roles and responsibilities

activity

Estimated funding for inclusion in cost baselines Budgeting

When and how often risk management processes Timing

will be performed, protocols for threshold and

use of reserves

Risk Categories Grouping of potential risks eg. Risk Breakdown

Structure

Definitions of risk Definitions tailored to the specific project

probability and impact



RISK MANAGEMENT MODEL

It's a cycle!





WHEN SHOULD RISK MANAGEMENT HAPPEN?

Throughout the life of the project

<u>Pre-implementation/</u> <u>Feasibility stage</u>

Forecasting of Risks

Qualitative assessment of Risks

Sometimes quantification

Identification of Risk resolution activities

Minimization of Risks in writing proposal

Go/No-go decision

<u>Implementation</u>

Identification of Risks

Quantification of Risks and resolution activities

Risk management planning

Risk monitoring

Active Risk resolution

Post implementation/
Support/
Maintenance/
Enhancement

Recording/Learning /Sharing experiences

Continuing Risk resolution



Risk Assessment

- + What problems might occur? IDENTIFICATION
- + What impact will they have ? ANALYSIS
- + Which are the most critical? PRIORITIZATION

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RISK IDENTIFICATION TECHNIQUES

Risk Identification helps team to anticipate events

Assumption Analysis

Documentation Reviews Information Gathering Techniques

Decomposition and tasks dependencies Checklists Analysis

SWOT Analysis

Diagraming techniques

Look at novelty items

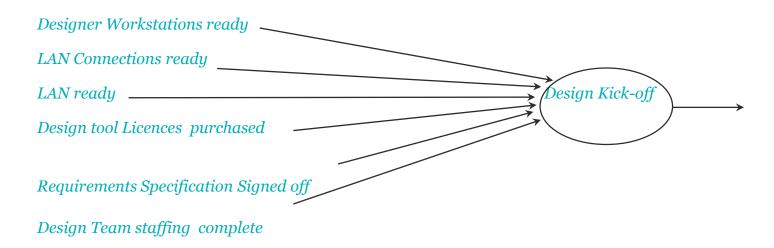
Expert Judgement



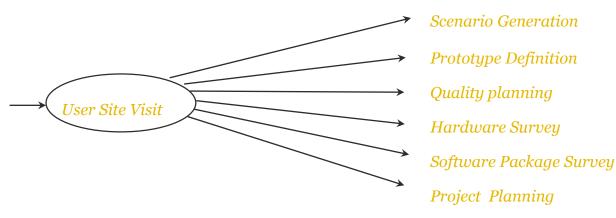
TASK DEPENDENCIES

HIGH FAN-IN: ANYTHING SLIPS

PROJECT HELD UP



HIGH FAN-OUT: PRECONDITION SLIPS EVERYTHING SLIPS





BARRY BOEHM'S CHECKLIST - APPROPRIATE FOR CONVENTIONAL PROJECTS

General

- Personnel Shortfalls
- Unrealistic schedules & Budgets
- Developing the wrong Software **Functions**
- Developing the wrong User **Interface**
- Gold Plating
- Rapid flow of Requirements changes
- Shortfalls in externally supplied components
- Shortfalls in externally implemented tasks
- Real time performance shortfalls
- Straining computer science capabilities

Software Risk Management: Barry Boehm 1986



- Will your project really get all the best people?
- Are there critical skills for which nobody is identified?
- Are their pressures to staff with available warm hodies?
- Are their pressures to over-staff in the early phases?
- Are the key project people compatible?
- Do they have realistic expectations about their project job
- *Do their strengths match their assignments?*
- *Are they committed for the duration of the* Project?
- *Are they committed full time?*
- Are their task prerequisites (clearance, workpermits etc.) satisfied?



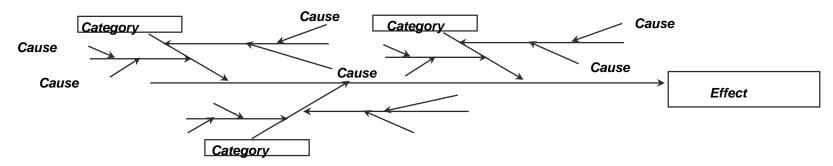
A RISK CHECKLIST FOR AGILE PROJECTS

- Failure to adhere to agreed agile methodology
- Unrealistic schedules & Budgets set by Higher Management
- Personnel Shortfalls
- Initial Architectural Design is not properly performed
- Initial Architectural Design is not scalable
- Is Agile Development seen as a "Silver Bullet"?

- Are <u>all</u> the team members properly trained in the specific agile methodology?
- Are <u>all</u> the team members committed to follow the specific agile methodology?
- Are Higher Management part of the team?
- Are the developers sufficiently experienced and capable so that they can perform the roles allocated to them in the project
- Are they motivated to stay with the project?
- Was a high level architectural design created <u>and agreed</u> before the first iteration?
- Was the high level architectural design tested for scalability?
- Are the product owners aware of, and accept the limitations on the project/product
- Is this project appropriate for Agile methods



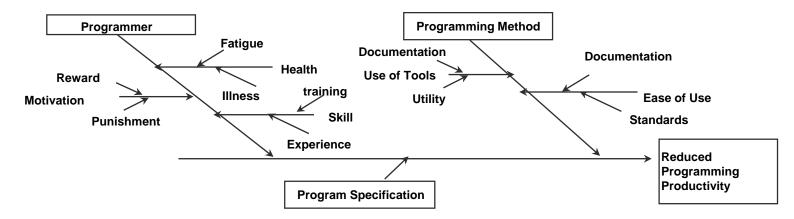
DISPLAYING RISK INFORMATION: CAUSE AND EFFECT DIAGRAMS



Useful for categorizing Risk

Useful for identifying common causes

Example: Risk of reduced productivity in software coding phase





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RISK REGISTER

Contains list of identified risks, the analysis and the response.

- Identified risks Describe in as much detail as reasonable.
- Structure: Event, caused by, leading to Effect
- Eg. Project team can't meet due to no common free time slots hence would not be able to meet scheduled milestones
- Eg. Key programmer leave the project, migrating to US after marriage, shortfall of critical programming skills, would likely lead to a delay in the development phase and the overall project.
- Eg. Late hardware delivery, due to flooding, might result in re-planning or possible delays
- Identify risks that are associated with using Beta versions of software.



RISK ANALYSIS: DETERMINING RISK EXPOSURE

Risk Exposure (event) = Prob(event)*Impact(event)

In order to determine exposure and hence prioritise risks, we need to determine probability and impact

Determining Impact may not be easy during initiation Determining Probability may be very difficult

May use qualitative analysis

Questionnaires Scoring & ranking

Quantitative analysis will give clearer picture if information is available

Project leader may have to make judgments



QUALITATIVE ANALYSIS: SIMPLE RISK CHECKLISTS

Simple Yes/no Risk checklists can not only identify Risks but can also quantify Risks

Question	<u>Less Risk</u>	More Risk
Project Management		

Are clear Project Objectives established?

Yes No

Are project reviews held at appropriate intervals?

Yes No.

Has the Project manager managed similar projects in the past?

Yes No

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<u>Development Environment</u>

Is a well defined development methodology being used?

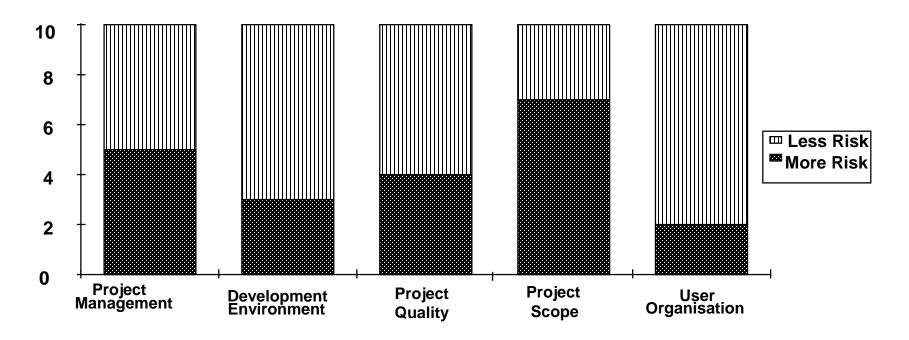
Has the programming language been used on previous projects

Risk Management for Software projects ,1994, Down, Coleman& Absolon



SIMPLE RISK CHECKLISTS

Simply add up the number of less Risk/more Risks



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A USEFUL RISK MANAGEMENT TOOL:

The Risk Assessment Questionnaire

Essentially span all features of Risk assessment

Incorporates

Check-list

Assessment procedure

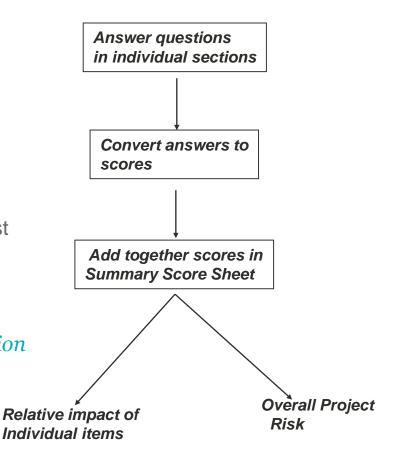
Supports prioritization

Project options with the highest score are most risky

Sections within the questionnaire with highest score are the most risky parts of the project

Especially suitable for high level proposal evaluation

Doesn't identify or assess all Risks





RISK SCORING TECHNIQUE

Tries to evaluate impact severity and likelihood by scoring against criteria

Risk Item	Impact			Likelihood						
	1	2	3	4	TOTAL IMPACT SCORE	1	2	3	4	TOTAL LIKELIHOOD SCORE
Late Hardware Delivery		1	V		2		V			1
Excessive staff turnover		1			2			√		2

STEPS:

- 1. Identify risk items for each project option
- 2. For each Risk item identified, ask the questions below and tick if the answer is yes.
- 3. When complete, look at each Risk area and add up the number of ticks in the Impact and total likelihood columns respectively

The output from this exercise will be a rating of impact and likelihood: (impact score, likelihood score) for each Risk item belonging to each project option

Risk Management for Software Projects, 1994, Down, Coleman & Absolon



DETERMINING IMPACT AND LIKELIHOOD: QUESTIONS?

Impact	Probability
1. Customer Cost	1. Novelty
Will this Risk result in reduced systems performance or reduced functionality causing long term costs to the user, either by Business losses or Costs of system replacement	Does the Risk item involve new technology or techniques that have not been used before by the development organization?
2. Internal Cost	2. Product History
Will this Risk item have a high impact on the remainder of the project in terms of cost overrun	has this Risk item occurred in projects where similar products/earlier versions of this product were constructed?
3. Time to market costs	3. Recognized Authority
Will this Risk item have a high impact on the time- to-market in terms of schedule slippage?	Is this currently recognized as a likely Risk by authorities or specialists in this field?
4. Quality Costs	4. Expectation
Will this Risk result in a low quality product which will in turn lead to high maintenance costs and significant down-times?	Has a clear and credible idea/plan/model for combating this Risk item been <i>identified</i> and <i>agreed</i> ?

Risk Management for Software Projects ,1994, Down, Coleman& Absolon



USING RISK SCORING

Determining the relative impact of risks. For each risk item we can calculate risk item score = $\sqrt{(impact\ score)^2 + (likelihood\ score)^2}$

Example: two risks may affect the project;

	Impact	Likelihood	Overall Score
Loss of experience staff	1	3	3.16
Late Hardware Delivery	2	2	2.82

Which is the bigger risk?

Exploring various project development/management strategies

Suppose we have two development/management options for a project

Option 1; which has two risks associated with it; Risk A and Risk B

Option 2; which has one risk associated with it; Risk C

Suppose the risk item scores are;

		Impact	Likelihood	Overall Score
Option 1	Risk A	1	2	3.16
Option 1	Risk B	2	3	2.82
Option 2	Risk C	3	3	4.24

option risk score = Σ (risk items scores for that option). Which is the "better" option?



QUANTITATIVE ANALYSIS: CONSEQUENCE ANALYSIS

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What happens if the risk occurs?

Impact

Repeating/re-working tasks

"Freezing" other tasks

"Overheads"

Liquidated damages paid to client

Lost market opportunities

Financial costs

Example

For a major systems development one of the major systems development one of the major subsystems fails systems tests and major re-work is necessary, a delay of two months in project schedule is created

Cost is

Re-design/Re-code/Re-test subsystem: S\$ 10,000

Extra costs of staff on following tasks: S\$20,000

Overheads for extra two months: \$\$20,000

Damages to client for not meeting deadline: S\$30.000

Extra interest on loan secured to finance contract: S\$10,000

Total cost = S\$90,000



EXPERT JUDGMENT - THE DELPHI TECHNIQUE

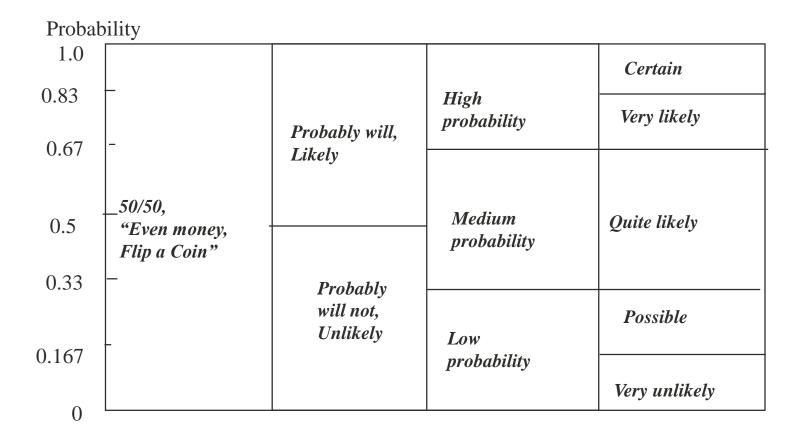
- 1. Get group of experts together with a monitor
- 2. Distribute copies of specification
- 3. Experts discuss specification & possible risks at a group meeting
- 4. Experts fill out forms where they determine probabilities of risks occurring separately
- 5. Monitor prepares a summary of the probabilities
- 6. Probabilities are discussed at a further group meeting focus on variation
- 7. Experts fill out further forms detailing probability of risks occurring separately

Steps 4 to 7 are repeated until there is "broad" agreement on probabilities



ADJECTIVAL CALIBRATION

What qualitative descriptions mean to different people





IMPACT/PROBABILITY MATRIX

				Probabilit	у	
		Very High(0.90)	High (0.70)	Medium (0.50)	Low (0.30)	Very Low (0.10)
	Catastrophic (0.80)	High	High	High	Moderate	Low
act	Critical(0.60)	High	High	Moderate	Low	None
Impact	Marginal(0.30)	Moderate	Moderate	Low	None	None
	Negligible (0.10)	Moderate	Low	Low	None	None



RISK ANALYSIS -DECISION ANALYSIS

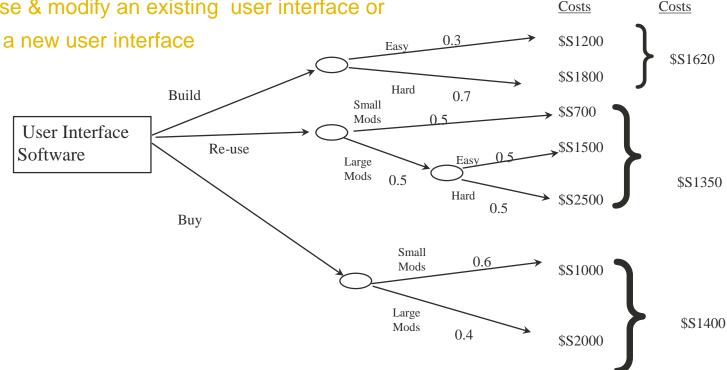
Some risks will depend on decisions made in the project. Decision tree analysis can be used to examine consequence of decision.

Example: decision on whether to:

Build a new user interface.

Reuse & modify an existing user interface or

Buy a new user interface



Expected cost of Build option = 0.3*\$S 1200+0.7*\$S1800 = \$1620

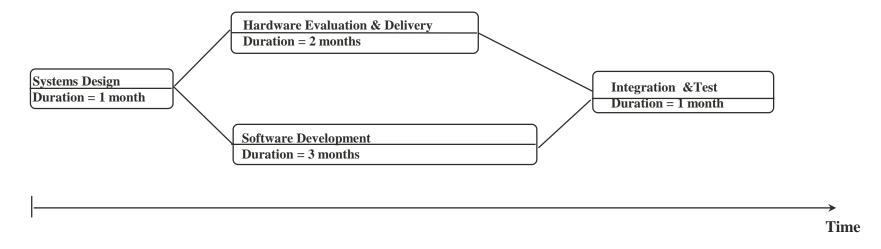


Individual

Expected

EXAMPLE OF OVERALL RISK ANALYSIS - I

Suppose we have two Risks for a project;



Risk of late Hardware delivery, leading to slippage in the Hardware evaluation and delivery task

Risk of key person leaving software development leading to slippage in the Software development task



EXAMPLE OF OVERALL RISK ANALYSIS - II

The probabilities and impacts associated with each are as follows

Event	Impact	Probability
Hardware delivery on time	Hardware Evaluation/Delivery does not slip	0.5
Hardware delivery is late	Hardware Evaluation/Delivery slips by 1 month	0.2
	Hardware Evaluation/Delivery slips by 2month	0.2
	Hardware Evaluation/Delivery slips by 3 month	0.1
Key Software person stays	Software development does not slip	0.8
Key Software person leaves	Software development delayed by 2 month	0.2

The cost impact of slippage in the total project duration is as follows:

Event	Cost impact
Project delayed by 1 month	\$1,000
Project Delayed by 2 or months	\$10,000

What are the risk exposures of each of these risks?

What is the total risk exposure?



EXAMPLE OF OVERALL RISK ASSESSMENT - III

Risk exposure of late hardware delivery

There is a float of one month associated with activity "Hardware evaluation & deliveru"

Therefore if we are only concerned with the costs of extending total project duration then we are only concerned with hardware delivery slipping by two months or more

Probability of slippage of hardware evaluation & delivery of 2 months

Probability of slippage of total project of 1 month

Probability of slippage of hardware evaluation. & delivery of 3 months

 Probability of slippage of total project of 2 month 0.1

Therefore Risk exposure = 0.2*1000 + 0.1*10,000 = \$S1,200

Risk exposure of key person associated with software development

This is on the "critical path"

The probabilities of total project slippage = probabilities of software development slippage

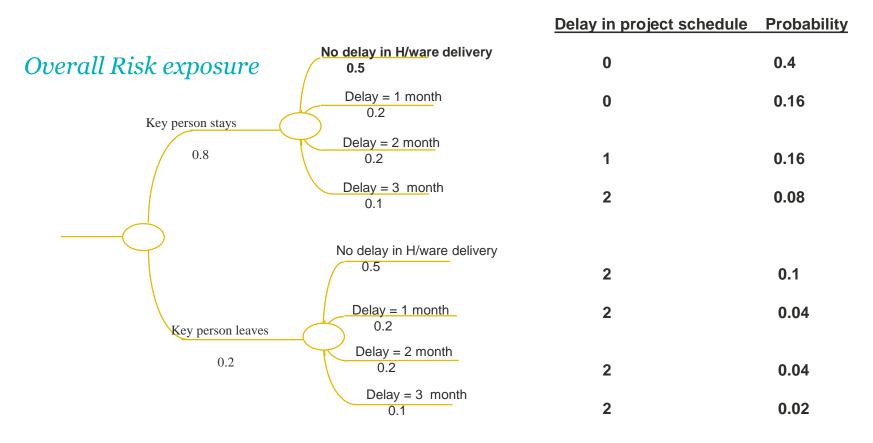
Probability of slippage of Software dev. of 2 months

 Probability of slippage of total project of 2 month 0.2

Therefore Risk exposure = 0.2*10,000 = \$S2,000



EXAMPLE OF OVERALL RISK ASSESSMENT - IV



Total Risk exposure = 0.16*1000+(0.08+0.1+0.04+0.04+0.02)*10,000 = S\$???

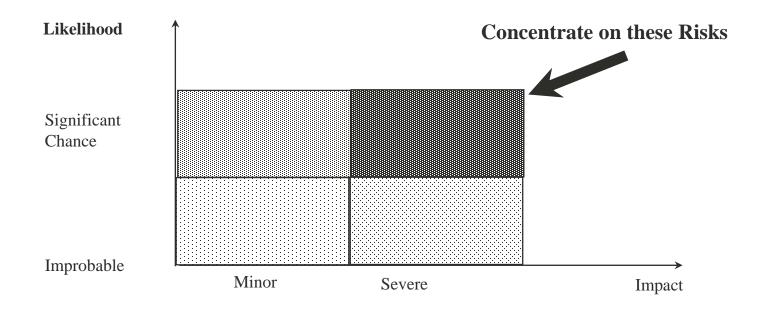
Using a Decision Trees Example in Project Risk Management to Calculate **Expected Monetary Value**

http://www.brighthubpm.com/risk-management/48360-using-a-decision-tree-to-calculate-expectedmonetary-value/#imgn_1



PRIORITIZING RISKS

Aim is to write a prioritized list of Risks which will be input to the Risk control process or to management decision-making



Remember to re-prioritise after calculating effect of Risk resolution measures

PRIORITIZING PROJECT RISKS USING RISK SCORING TECHNIQUES

Using the (impact, likelihood scores):

Assign each Risk item to a band *Overall priorities by bands Priorities within bands using subjective* judgment

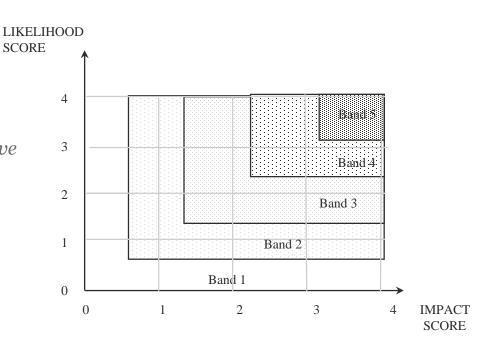
Can also classify Risks

Band 1 = No Risk

Band 2 = Low Risk

Band 3 & 4 = Medium Risk

Band 5 = High Risk





WORKSHOP I: PROJECT RISK ANALYSIS

For your projects perform the following Risk analysis

Identify at between 4 to 6 Risk items that may occur to your project

Determine

The likelihood of the Risk

The impact of the Risk

using the scoring scheme on the following pages, produce an impact/likelihood figure (similar to that on previous page), and hence prioritise these Risk items



RISK CHECK-BOX LIST

Risk Item	Impact				Likelihood							
	1	2	3	4	5	TOTAL	1	2	3	4	5	TOTAL



RISK CHECKBOX QUESTIONS - IMPACT SEVERITY

1. Reduced Functionality

Will this Risk item significantly reduce the original intended functionality of the product, if it occurs

2. Increased Cost

Will this Risk item have a high impact on the remainder of the project in terms of cost overrun if it occurs?

3. Schedule Slippage

Will this Risk item create schedule slippage?

4. Quality Cost

Will this Risk result in a low quality product which will in turn lead to failure in quality audits, reviews or user acceptance tests?

5. Performance

Will this Risk result in a low performance product which will not meet users expectations?



RISK CHECKBOX QUESTIONS -LIKELIHOOD

1. Novelty

Does Risk involve new technology or techniques that have not been used before by the project team?

2. Product History

Has this Risk item occurred in projects where similar products were constructed?

3. Project Team History

Did the members of the project team encounter/create this Risk item on previous projects?

4. Recognised Authority

Does the available specialist advice perceive this to be a likely Risk?

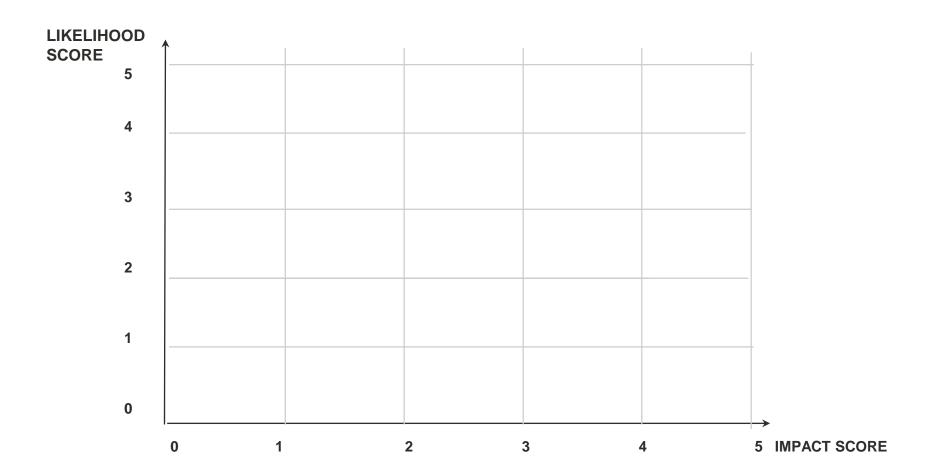
5. Expectation

Does the current documentation, i.e. product design, project plan suggest a clear and credible idea/plan/model for overcoming this Risk item that has been reviewed and approved? (Score 1 for no, 0 for yes)

Risk Management for Software projects, 1994, Down, Coleman & Absolon



PRIORITISATION OF PROJECT RISKS





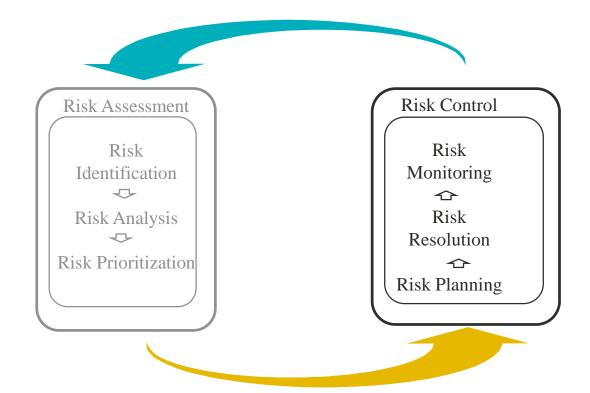
Risk Control

- + Risk Planning What are you going to do about it
- + Risk Resolution Techniques
- + Risk Monitoring tracking and re-assessment, re-plan





RISK CONTROL





RISK RESOLUTION TECHNIQUES

Risk Avoidance/ Removal

Avoid creating situations where Risk will occur

Remove those items that are creating Risk

- -Change/stabilise requirements
- -Change technologies

Risk Minimization

"Divide and Conquer" Incremental development

-Spiral development

Risk Transfer

Transfer Risk to control it

Risk Localisation Information

gathering

Risk Insurance

Contingency



CHOOSING THE RIGHT RISK TECHNIQUES

Risk classification

Two classes of Risks

- -Uncertainty
- -Limits of performance

	Uncertainty	Limits of performance
Risk transfer		Х
Risk avoidance/removal		Х
Risk minimisation		Х
Risk insurance	Х	Х
Risk localisation	Х	
Risk Monitoring	Х	

Appropriate Risk actions depending on Risk Severity

Medium Risks High Risks Low Risks

Risk insurance Risk avoidance Risk monitoring

Risk localisation Risk minimisation

Risk transfer



EXAMPLE OF RISK AVOIDANCE: DEFINING AND STABILIZING USER REQUIREMENTS

User requirements are often:

Incomplete,
Ambiguous
Incorrect
Volatile



Methods that minimise Risk associated with user requirements

The "classical" approach

- Thorough rigorous requirements analysis
- Formal user requirements agreement & sign-off
- Change control procedures

The "prototyping" approach

Prototype user interfaces (screens) with user features, but no internal processing



EXAMPLE OF RISK LOCALISATION: PROTOTYPING

What prototyping should be used for:

- Prototyping User Interfaces
- Experimenting with complex algorithms
- Determining user requirements by
- Studying work interactions
- Studying work loading
- Studying user behaviour
- *Investigating throughputs and machine* loadings
- *Investigate what is achievable in the* industrial development environment
- Investigating what new technology can achieve to support business or project aims

What prototyping is <u>not</u> for:

- Demonstrations at exhibitions
- Immediately providing a fully operational system
- Personal career development/"hobby"



EXAMPLE OF RISK LOCALISATION: INCREMENTAL SOFTWARE DEVELOPMENT

Produce software in series of releases

Incorporating agreed sets of functionality

Advantages of incremental development

- Concentrates on funnelling requirements change into later releases
- Maximizes re-use
- Early development of limited functionality
- You always get something!

Disadvantages of incremental development

- User definition of minimum functionality may not match yours Leading to disagreement between client and developer on prioritisation of requirements
- Long development schedule



EXAMPLE OF RISK LOCALISATION: BOEHM'S SPIRAL MODEL

Special case of incremental software development, Produce software in series of prototypes

Lifecycle:

Determine objectives, alternatives, constraints 1. Determine objectives Evaluate alternatives, identify and combat Risks

Develop prototype

Plan next phase

Advantages of incremental development

Risk driven not life-cycle driven

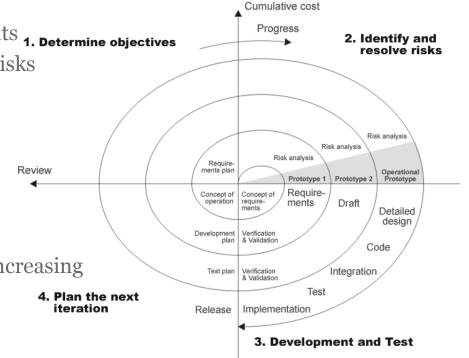
Maximizes re-use

Rapid development of prototypes provides increasing functionality

Disadvantages of Spiral Model

Emphasis on prototypes not functional releases

Long development schedule





RISK INSURANCE

Contingencies

Two interpretations



A contingency plan which is activated when certain events occur, or a threshold is exceeded

E.g. when the effort expended on a task exceeds 80% of the allotted budget, with no visible progress being made on that task

A contingency factor (usually a %) is added to an original estimate to cater for overspend, unforeseen circumstances, etc... (See project costing lecture)



RISK ITEM CONTINGENCY PLAN

Contingency plans are usually associated with individual risk items

Contingency plan format:

- Risk Item Identification
- *Impact of Risk*
- Tracking methods Including the threshold/activation level
- Responsibilities:

Risk tracking Risk resolution tasks

- Risk resolution actions
- Resource allocations
- Tasks
- Constraints
- Priorities
- Conditions for closure



EXAMPLE RISK ITEM CONTINGENCY PLAN

Risk Identification:

Schedule overrun of > 2 weeks on Requirement specification

Impact of Risk

slippage of > 2 weeks in delivery of requirement specification to customer resultant slippage of tasks causes overall slip of > 1 week in Project schedules

Tracking methods

Gantt charts,

Weekly progress reports

Threshold level - Reported schedule overrun of >1 week

Responsibilities:

Risk tracking: Requirement. spec. team leader Contingency activation: Project manger

Risk resolution actions

Authorize overtime as required, for all of analyst team for a period of 2 weeks

Constraints on recovery plan:

Recovery effort must not impact parallel tasks

Priorities on recovery actions:

- (1) Finish User interface specification
- (2) Finish Database specification

Conditions for closure

Formal signed client acceptance of user requirements



RISK MANAGEMENT PLANS

Risk Management can either

Be documented in a project plan

Include Risk appendix which contains:

- a. Assessment techniques used
- b. A list of prioritised project risks cross referenced to tasks in the plan that will control *or* monitor Risks

• Be documented in a separate Risk Management plan



RISK MONITORING

Objectives of Risk monitoring

Track Risks which are currently inactive Track for the successful elimination of Risks Monitor for new Risks

Methods of Risk monitoring

Can be used for monitoring Subcontractors/Vendors

Track project progress

Not only resource consumption but also Achievement

Track progress against Risks

Top-10 Risk items

Track technical progress for new Risks

Production of deliverables

Change in functionality

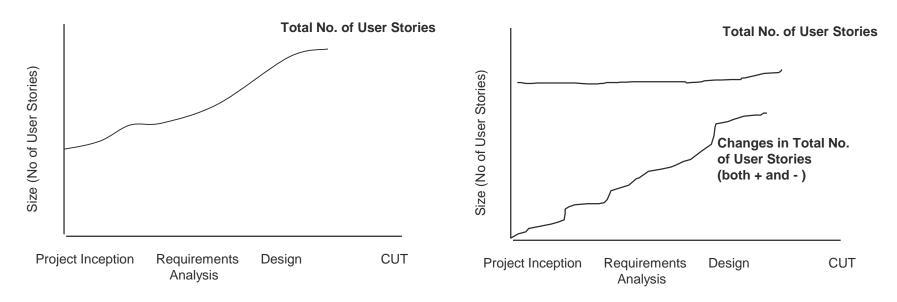
Adherence to technical strategy

Defect tracking



TRACKING TECHNICAL PROGRESS:

Tracking Changes in Functionality using a Size Metric



- Risk of major changes in functionality created by unclear or volatile requirements
- Measure functionality using Number of User Stories
- Reasons for changes in functionality:
 - Poor understanding of initial requirements
 - High requirements volatility
 - Poor client communications
 - Non-adherence to Project Methodology

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TOP-10 RISK ITEMS TRACKING

On a regular basis (i.e. each month)

Prioritize Risks and Highlight these in

- monthly progress reports
- monthly project reviews

Position this month	Position last month	Number of months on list	Problem		
1	1	3	Skilled staff shortage		
2	4	2	Compiler performance		
3	2	4	Client acceptance of specifications		
4	-	1	Late delivery of Hardware by subcontractor		

Focus on

- Items that are always there ,i.e. slow progress items
- New entries



BARRIERS TO RISK APPRECIATION/MANAGEMENT

Unwillingness to admit risk exists

Leaves a negative impression "Success orientation"

Tendency to postpone or ignore hard parts

Maybe they will go away *Maybe they will get easier*

Culture of "whoever blows whistle on risk owns it"

Who should own risks?

Risk management costs time and money up-front!



SUMMARY

"Risk is an inherent feature of software development"

Risk management involves:

- Identifying, analysing and prioritising risks
- Planning, resolving and monitoring risks
- Developing a contingency plan for big impact but low probability risks
- Incorporating risk management process into the project plan

A project methodology and effective risk management will not guarantee project success; but without either, failure is guaranteed"



RISK MANAGEMENT REQUIREMENTS FOR PROJECTS

Attachments to Project Plans:

- Results of Risk checklist
- Prioritised list of Risks <u>and</u> the control techniques you intend to employ against them
- o Identify a Risk monitoring technique you will be using to track Risks
- Report Risks as part of your monthly progress reports

Risk	Control type	Specific Details
Inexperience with new technology	Risk minimization	Prototyping with new Technology
		•



WORKSHOP II: PROJECT RISK CONTROL MEASURES

For each Risk item identified in Workshop I, identify the actions you will be taking to control those Risks (Risk mitigation)

Risk item	Control type	Specific details

