

Simon Parkhouse | 26 October 2012

Managing Risk: The Views of the Built Environment Professional in Wales

The Cost Manager





The Cost Manager's View of Risk

- > Appearance of Risk
- Risk Management Process
- > Top 5 errors in dealing with risks



Inspired Innovative Individual



The appearance of Risk

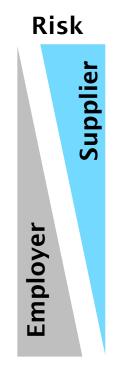
Risk Profile defined by early decisions:

- Procurement
- Drivers for the project
 - □ Time
 - **Quality**
 - Cost

ENSURE YOUR CLIENT UNDERSTANDS THE CONSEQUENCES OF EARLY DECISIONS



Contract Risk



- Lump sum
- Measure and value
- Target price
- Measure and cost
- Cost reimbursable



Where is Risk found?

- Specification
- > Design
- Base cost
- Risk allowance
- Contingency allowance



Risk Management Process

Hard Benefits

- ✓ Better informed plans & budgets
- \checkmark Adherence to plans
- ✓ Better assessment of contingencies
- Discourages acceptance of unsound projects
- ✓ Develops data base of experience
- ✓ Objective comparison of alternatives
- Allocates risk to most appropriate owner

Soft Benefits

- Communication
- Promotes team working
- Risk awareness
- ✓ Focus on major issues
- ✓ Facilitates risk taking
- Responsible approach



Risk Management Process

RAMP

- ✓ Risk
- ✓ Analysis and
- ✓ Management for
- ✓ Projects

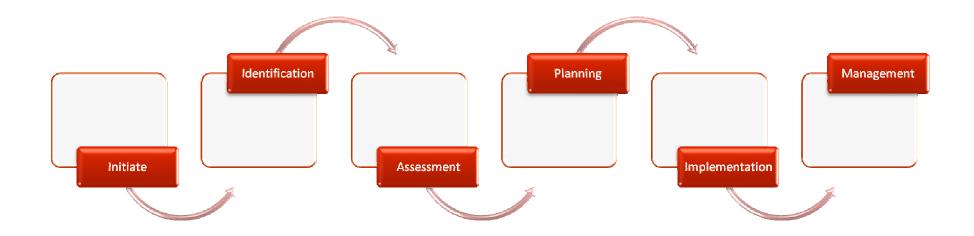
PRAM

- ✓ Project
- ✓ Risk
- Analysis and
- ✓ Management

🗆 apm



Risk Management Process





Initiate

- Define what the methodology will be
- > Ensure a common understanding



Identify

- Perceived risks relating to the project
- Engage the team ; consult with stakeholders
- Use lessons learnt from previous projects

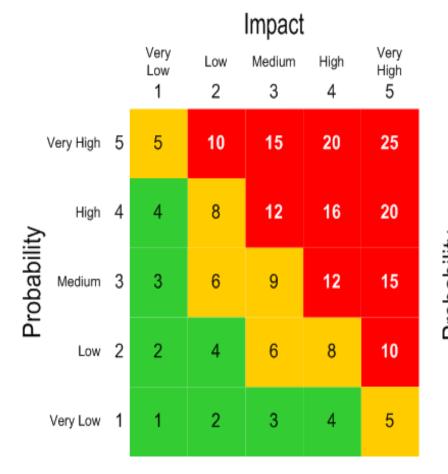


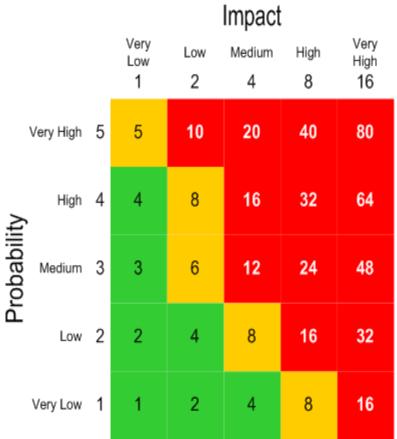
Assess

- Identify consequence of risk
- > Assign a risk owner
- Estimate the impact and priority
- Evaluate the cost



Risk Values







Evaluation

Simple calculation

e.g.

	Prob	Likely	total
Risk A	5%	£250k	£12.5k
Risk B	10%	£100k	£10k
Risk C	15%	£200k	£30k
		Risk Total	£52.5k



Evaluation

3 point calculation

e.g.

	Prob	Min	Likely	Max
Risk A	5%	£10	£250k	£350k
Risk B	10%	£75k	£100k	£175k
Risk C	15%	£50k	£200k	£250k

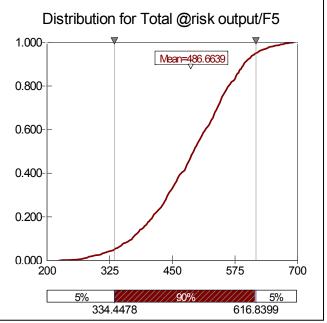


Evaluation

Monte Carlo simulation

e.g. Looks at many iterations of combinations of risks occurring and gives an indication of confidence bands

	Prob	Min	Likely	Max
Risk A	5%	£10	£250k	£350k
Risk B	10%	£75k	£100k	£175k
Risk C	15%	£50k	£200k	£250k





Plan

E liminate
R educe
I nvestigate
C ontrol

DRedence

RAediace

Defeain

A racidfer

Reamaifier



Implement

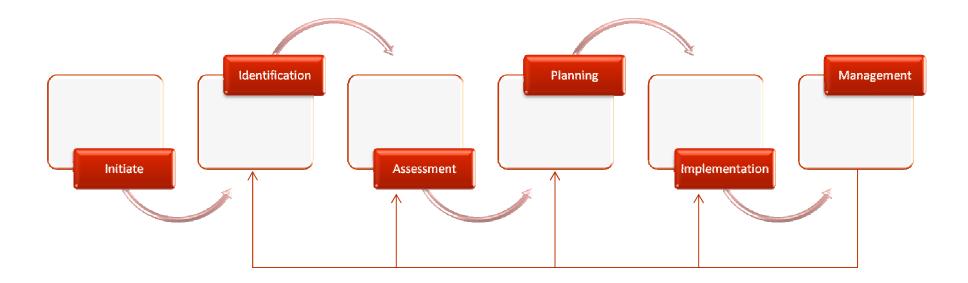
Make sure any actions and mitigations are carried out





Manage

> The process is dynamic





Top 5 errors in dealing with risk?

>Assuming risk can be passed to others with no financial cost transfer

- >Assuming that production of risk register is risk management
- >Lack of Site Investigation
- >Approach to risk evaluation too simplistic
- ➢Risk assessment and evaluation left to one party

Services



- · Cost Management & Estimating
- · Project Management
- \cdot Due Diligence
- · Procurement Advice
- · Capital Allowances and Taxation
- · Regulatory Reporting
- Dispute Resolution
- Fund Monitoring
- · Expert Witness



