

# Risk, What Risk?

## *Managing risk in IS projects*

**James Cadle,  
Director**



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# The theory

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1. Identify the risks
  2. Assess them
  3. Devise responses
  4. Implement actions
- Simples!**



# So what gets in the way?

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1. Inexperience
2. Over-optimism
3. Lack of information
4. Commercial pressure
5. 'Political' pressure

# Inexperience

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- New to IT
- New to project management
- Afraid to display ignorance
- Think you know it all!

**Answer: Recognise your inexperience and ask for help**

# Over-optimism

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- Keen and enthusiastic people in IS
- Focus on the exciting new technologies and techniques
- “It’ll be all right on the night”
- Just because it went wrong before...

**Answer: Recruit a cynic (or a monitor/evaluator) to the team**

# Lack of information

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- Product is often intangible...
- ... therefore hard to specify
- Poor metrics collection
- New developments all the time
- Unknown project team

Answer: Put caveats around estimates and add any uncertainties to the risk register

# Commercial pressure

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- Need to win a bid...
- ... or secure funding
- Reliance on change to drive out profit

Answer: Put caveats around estimates and add any uncertainties to the risk register. Stand your ground!

# Political pressure

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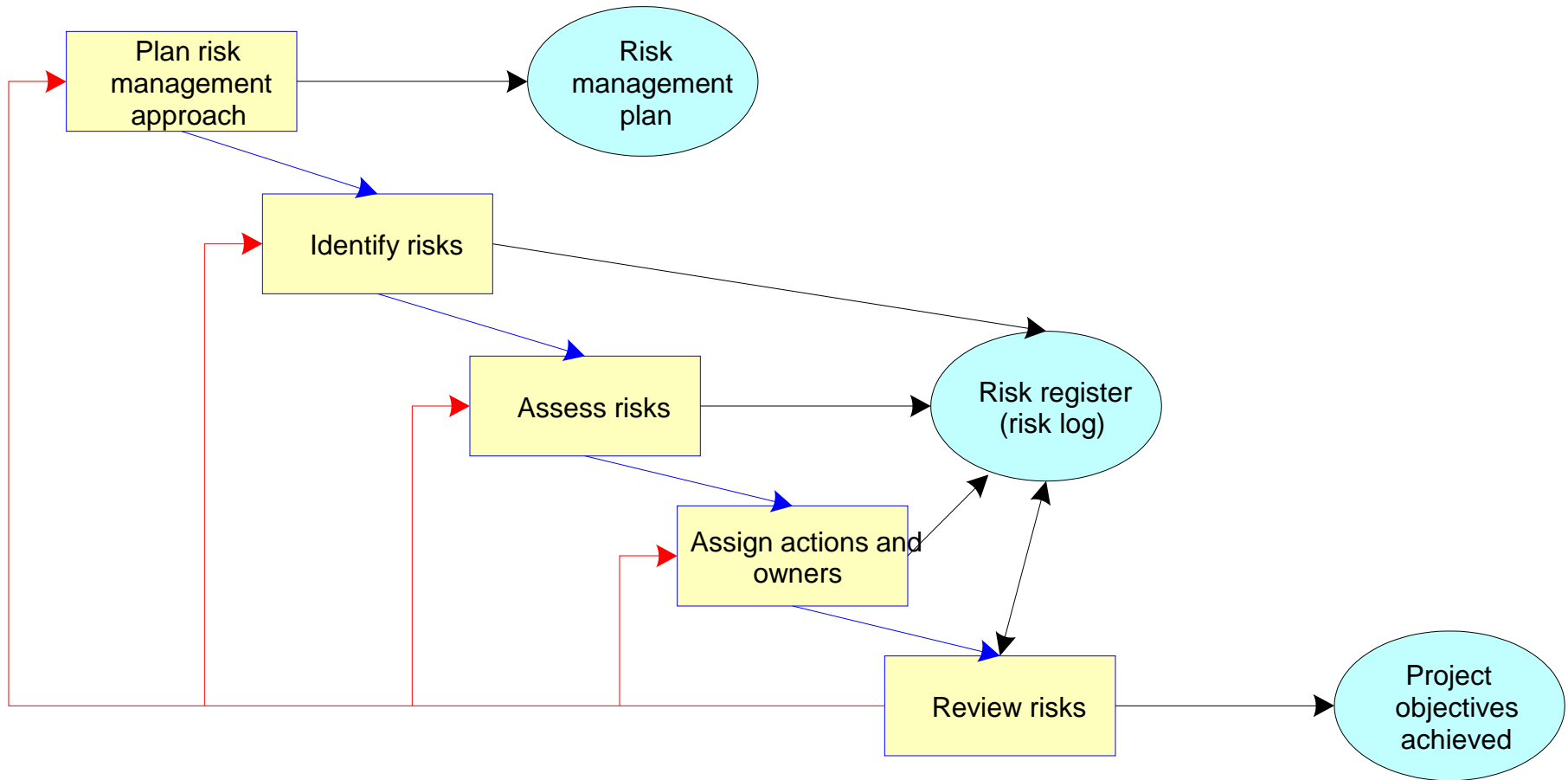


- Mr (or Ms) Big wants this done!
- Need to be seen as a team player
- Need to defend IT budgets

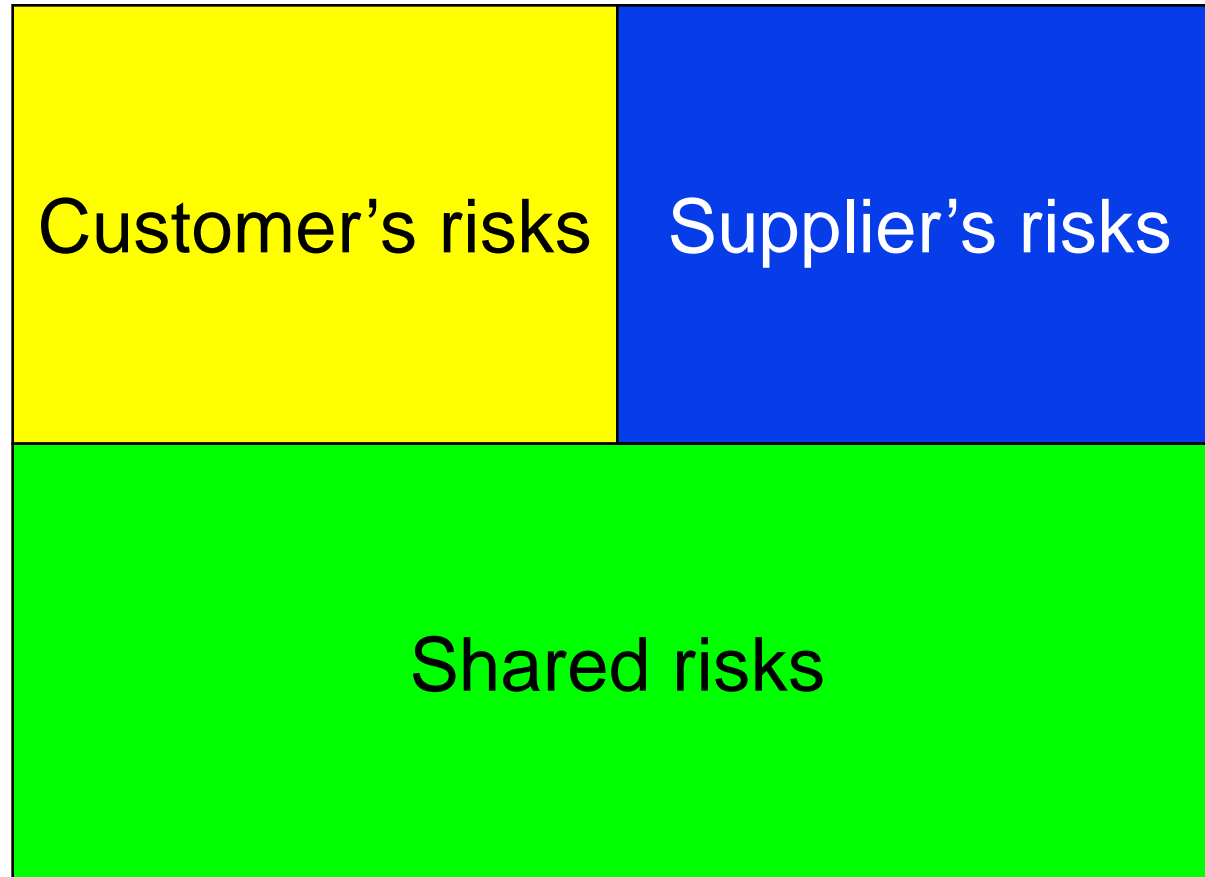
Answer: Put caveats around estimates and add any uncertainties to the risk register. Escalate the risk.



# Risk management process



# Risk perspectives



# Types of risk

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Known, identified, measurable



Potential and possible but when, where and how unclear



Unexpected, not planned for

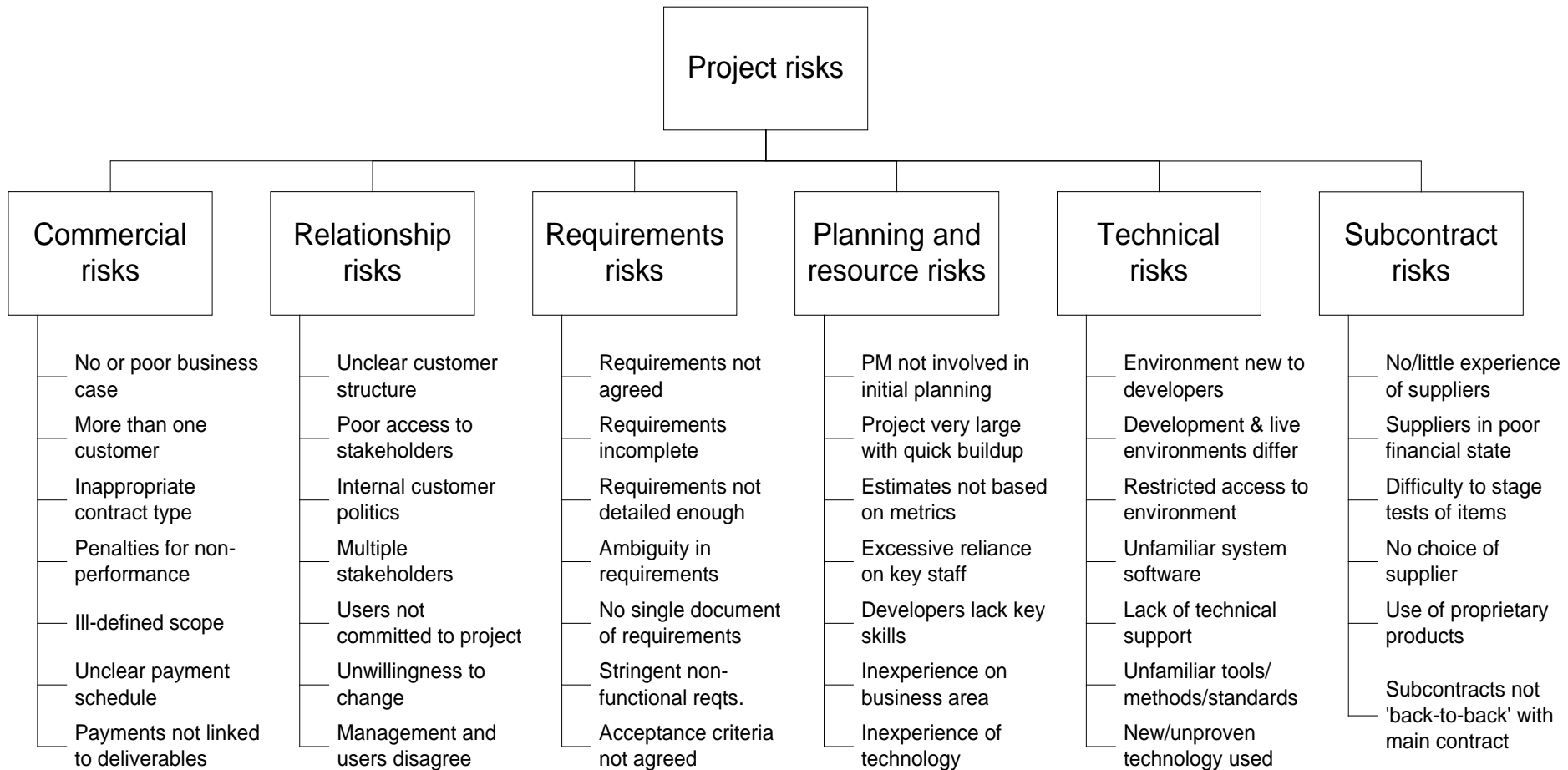
# Methods of risk identification

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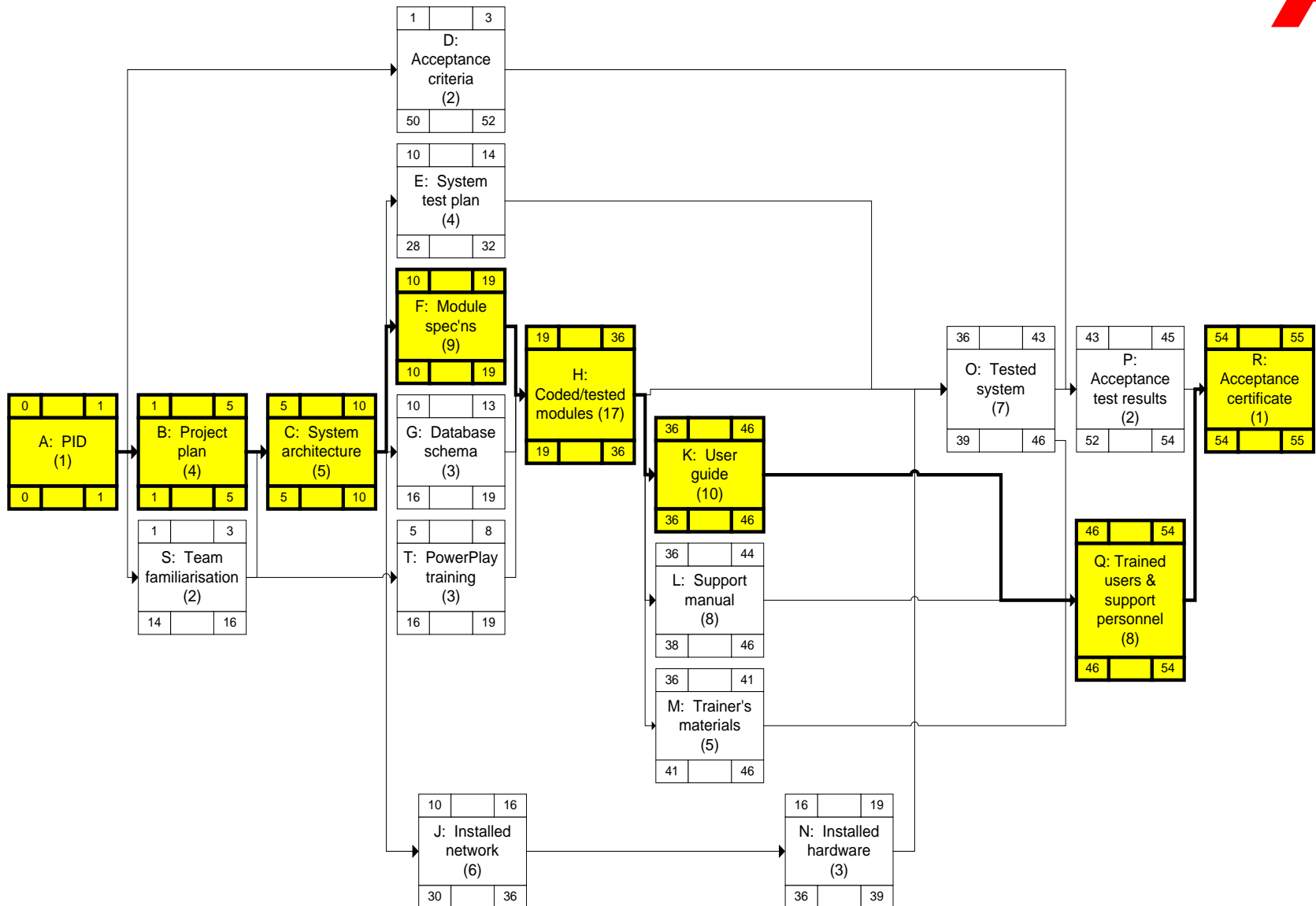


- Own experience
- Others' experience
- Interviews
- Workshops
- Checklists

# Risk breakdown structure



# Risks to the critical path



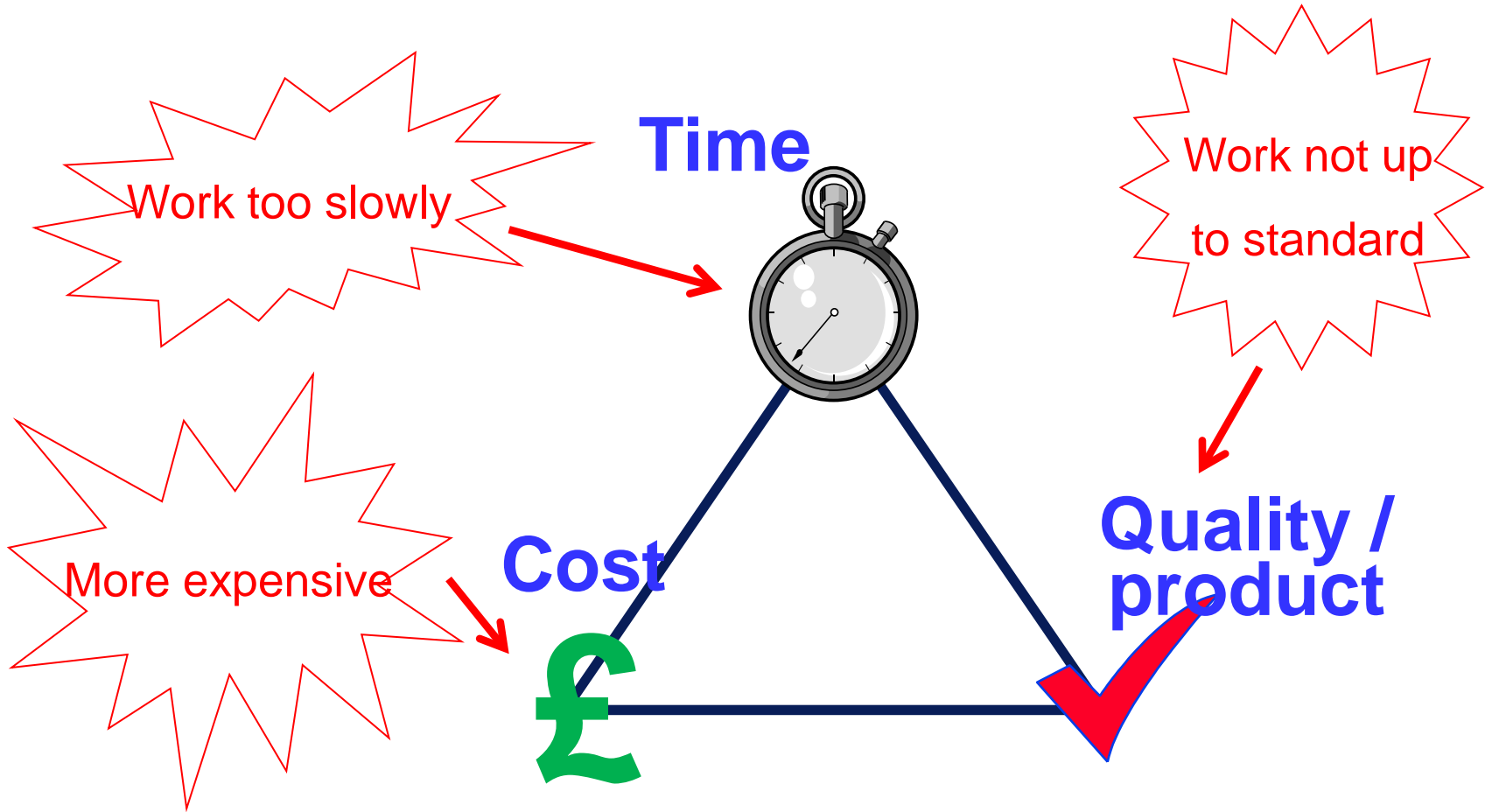
# Typical impacts of risks

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- Project failure
- Team overload
- Re-work
- Reductions in margin
- Missed delivery dates
- System test failure
- Customer's expectations not met
- Rejection of system by customer
- Poor system performance or reliability
- Maintenance difficulties
- Payment of penalties or liquidated damages
- Disputes with partners
- Poor market reputation

# Risk: Use of contract programmers





# Risk assessment scales

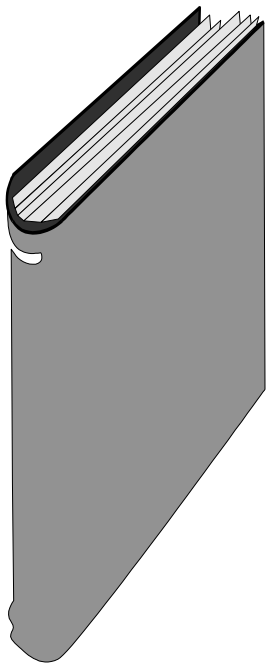
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- Scale of impact:
  - Large
  - Moderate
  - Small
- Probability of occurrence
  - High
  - Medium
  - Low

*Also need to assess the urgency of the risk*

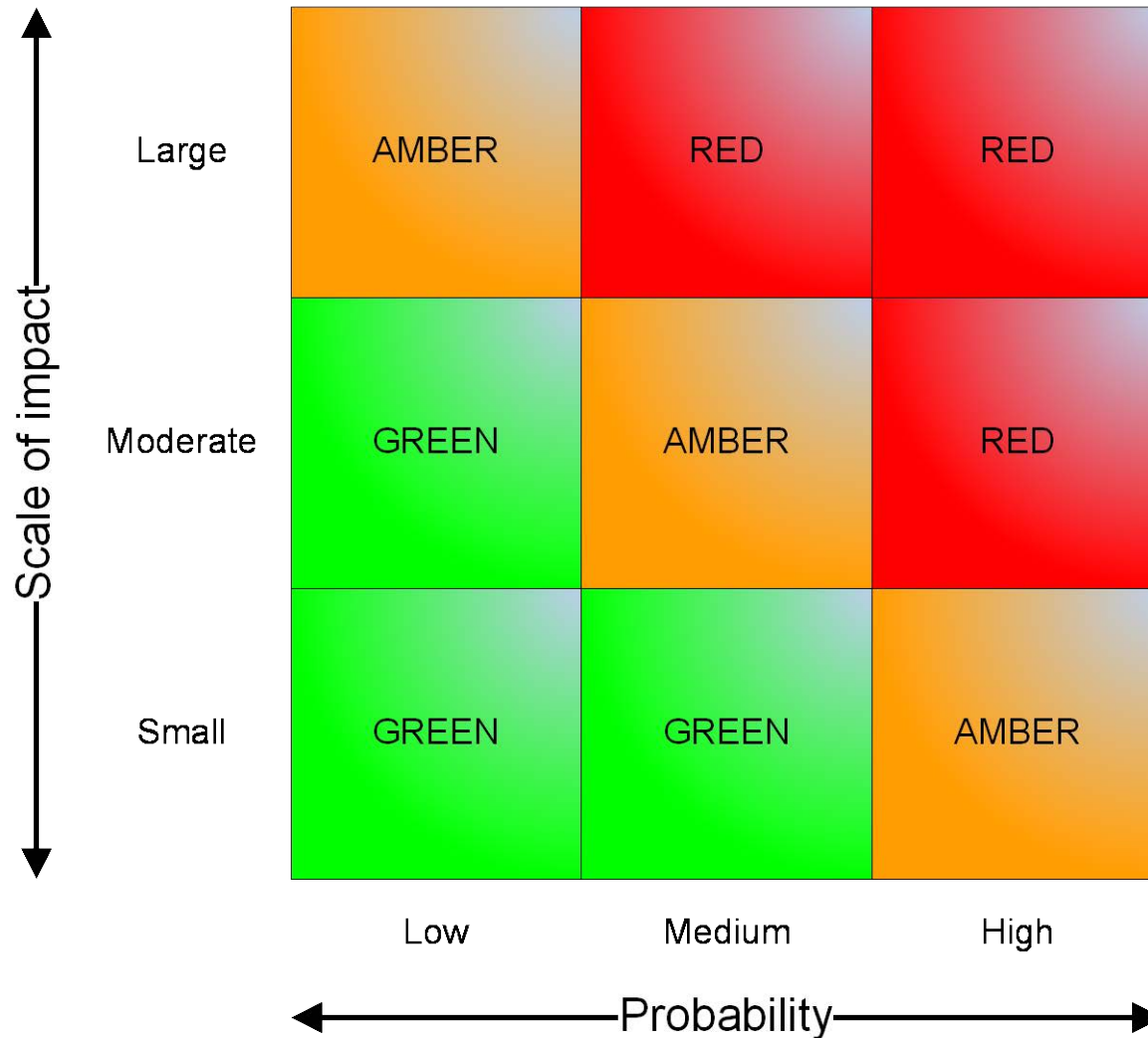
# The risk register (risk log)



- Reference
- Risk title and description
- Description of impact/s
- Scale of impact
- Probability of impact
- Urgency
- Actions:
  - Avoidance
  - Mitigation
- Risk owner
- (Action history)



# Risk map (heat map)



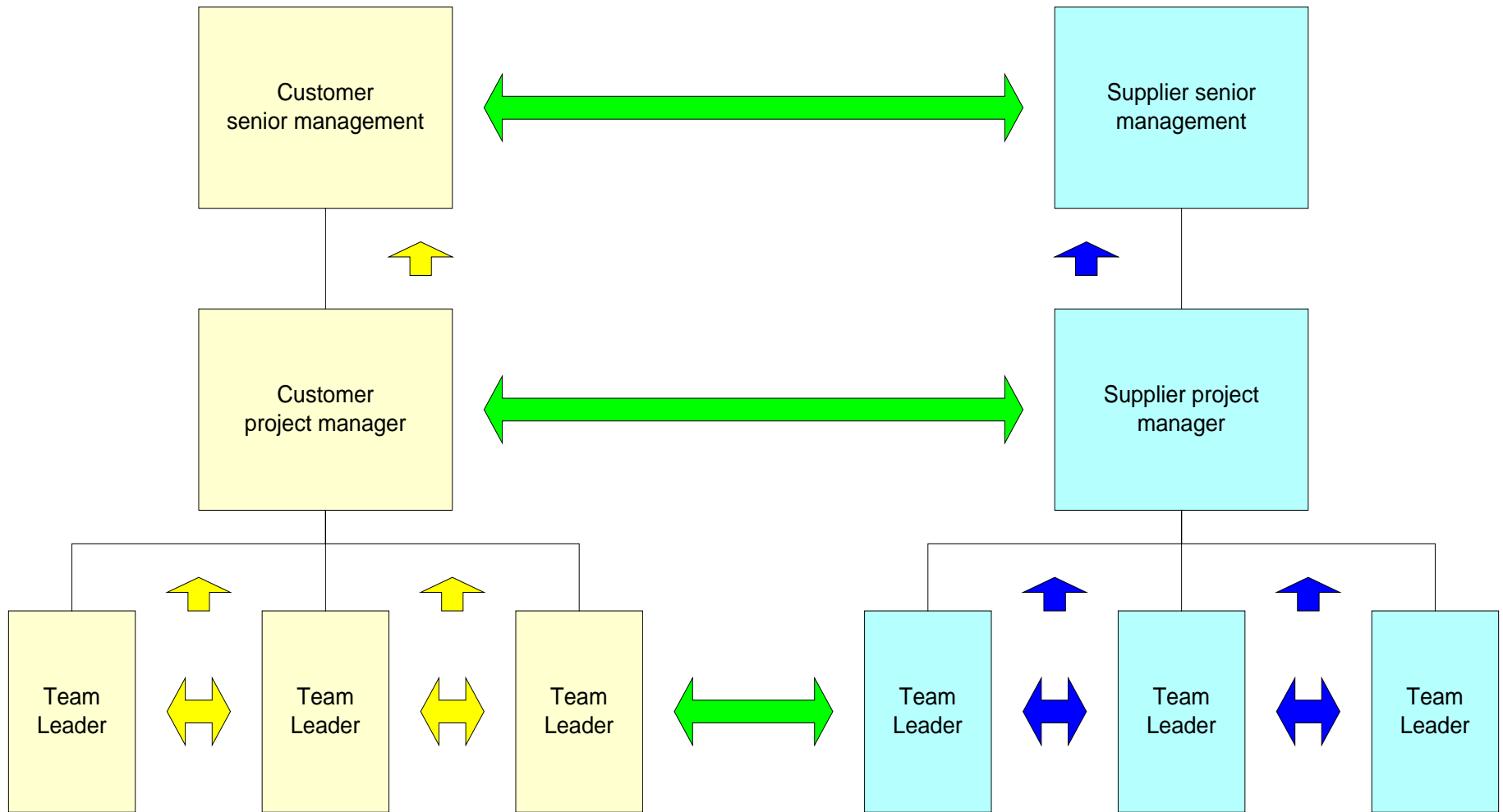
# Possible responses to risk

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- **Acceptance** - allow the risk to occur
- **Risk reduction** actions:
  - **Avoidance** - reducing the likelihood
  - **Mitigation** - reducing the impact
  - **Contingency** - having alternative actions available
  - **Transference** - making the impact bear on someone else – includes **escalation**
  - **Sharing** - the risk with the customer

# Sharing project risk



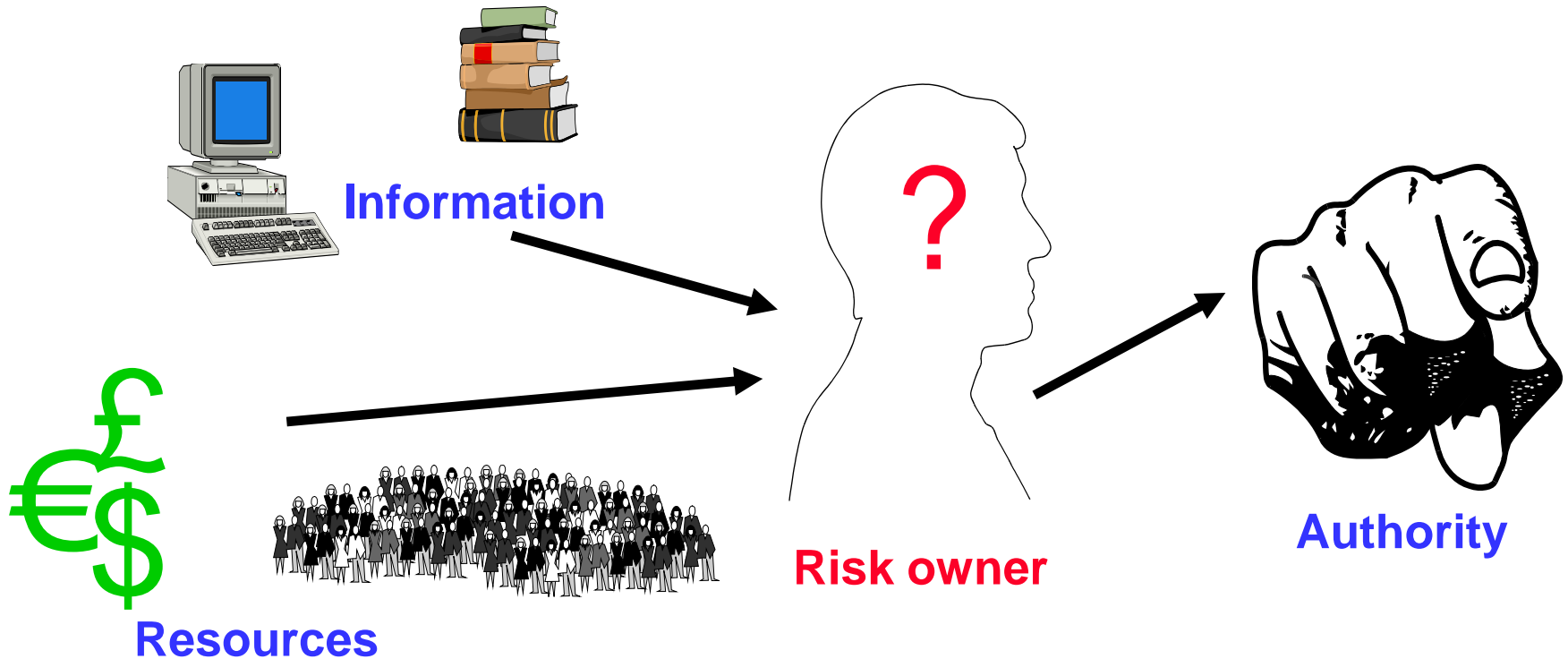
# Risk: Use of contract programmers

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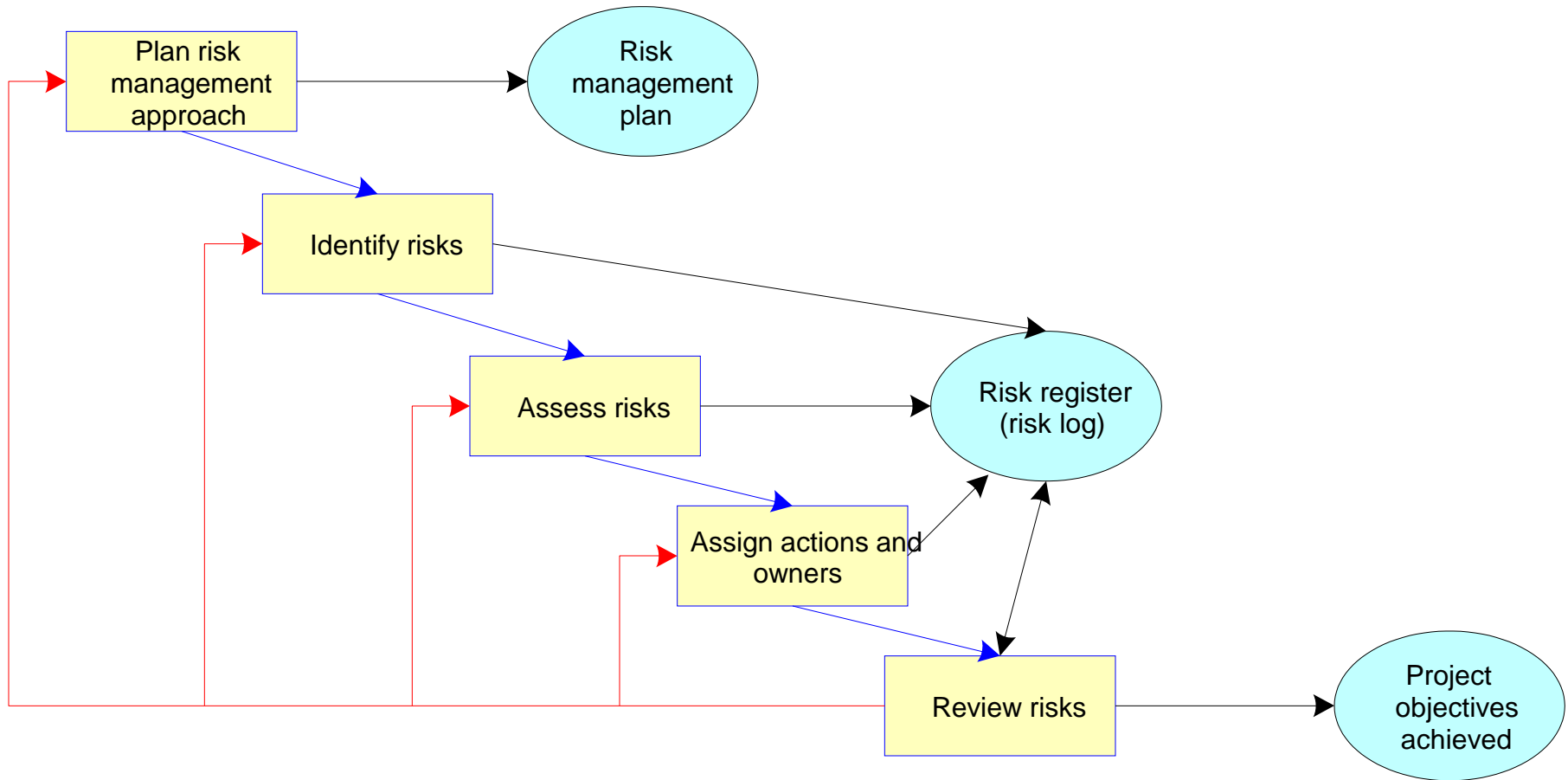
- Work too slowly
  - Avoidance: Only use known contractors
  - Avoidance: Set test before employing
  - Mitigation: Keep off the 'critical path'
- Work not up to standard
  - Avoidance: Only use known contractors
  - Avoidance: Set test before employing
  - Mitigation: Regular monitoring - terminate if unsatisfactory
- More expensive
  - Avoidance: None except possible tough bargaining over fees
  - Mitigation: Ensure sufficient contingency funds in budget

# Risk owner - characteristics



**But the risk owner is not on their own!**

# Risk management process





# Purpose of the risk review

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- Check on existing risks:
  - More or less likely?
  - More or less severe?
  - Actions effective?
  - New actions needed?
  - Any secondary effects?
- Examine new risks:
  - Identify impact and likelihood
  - Assign actions and owners
- Review the process - is it working?

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