# Seminar session – Unit 8
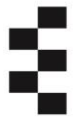
# Software Engineering Project Management – Estimating & Risk

**(seminar is being recorded)**
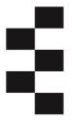
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## Outline

- Announcements

- The importance of …..

- Estimating

- Risk Assessment

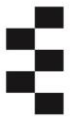- Seminar 8 reading and questions

- QA & Next Week

# Announcements

- Forums & Posts

  - Discussions & Interactivity

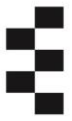  - Evidence for the E-portfolio

- Volunteers for weekly check-in

# The importance of …

- Estimating
- Why Estimate?
  - Resourcing
  - Time
  - Costs
  - Delivery
  - Viability?
- Which one(s) are the SEPM responsible for?

# Approaches

- LOC
- COCOMO
- Function Points
- Expert Judgement
- Agile Approaches (Planning Poker)
- As with many disciplines, hybrid approaches are favoured
- e.g. Use of previous projects as a basis (even formalised – a la COCOMO) but then combined with expert judgement or even some type of function counting

# Seminar 4 Exercise

- Which estimating method did you choose?
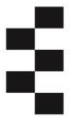- Share/ demo your python code – what estimate did it produce?

## Risk

- Differences between qualitative and quantitative evaluation?
- Cognitive Bias
- Hubbard's '4 Horsemen'
  - War Quants
  - Economists
  - Actuaries
  - Management Consultants
- How does risk affect estimates? How do you factor for it?
- What is the role of the SEPM?

# Seminar 4 – Reading & Questions

Read the articles by Verner et al (2014) and Anton & Nucu (2020) and then answer the following questions:

- What are the main risks that the authors identify? How do these fit into the traditional SDLC model?
- Which of the frameworks discussed in the Unit 7 lecturecast would you use to capture and categorise the risks?
- Add a risk and a suggested mitigation to the module forum.
- Choose an entry made by one of your colleagues in the wiki and comment on how you might mitigate it.

# Further Info & Questions

- Next session (unit 10): Read Mertz (2019) - select testing tools/ Linters – run them on code – keep output to share & demo

- Office Hours: Weds 1 – 2 pm
-                              Fri   6 - 7pm

- Any questions?
- Group review sessions this week?