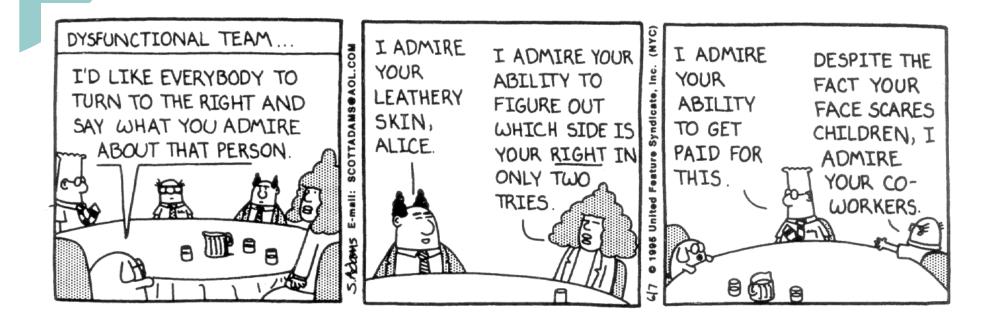
# Info6007 Project Management in IT

# Lecture 12 Agile Dr Steven Sommer



#### Lecture Resources

- Required Readings
  - 8Ed: Ch 2 (p57-62, 69-72), Ch 3 (p117-126), Ch 9 (p369-p379)
  - 7Ed: Ch 2 (p59-62, 69-72), Ch 3 (p120-129), Ch 9 (p365-373)
- Practice Questions
  - 7Ed & 8Ed: Ch 2: DQ 4 and Ex 3; Ch 3 Ex 7.
- References
  - Schwalbe, K. 2015, Information Technology Project Management (8e) Cengage Learning

# Lecture Objectives

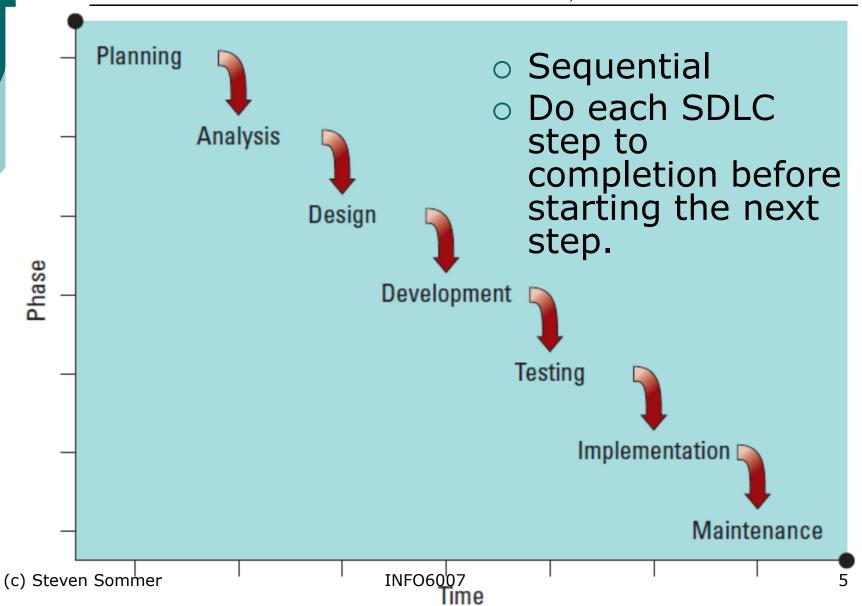
 Describe the differences between the waterfall, iterative, and agile SDLCs.

#### Systems Development Models/Methodologies

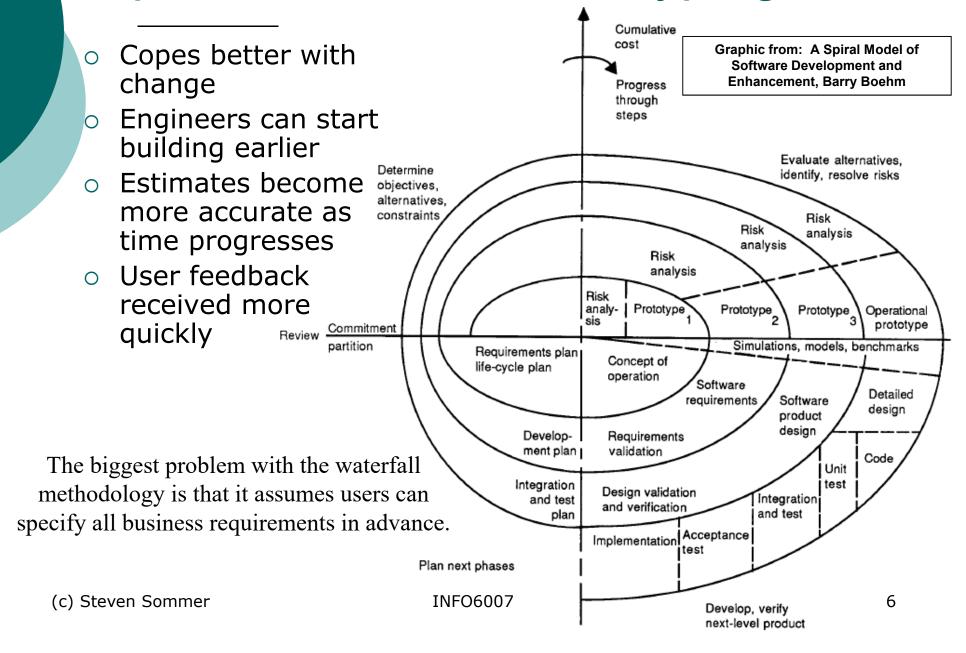
- Over 1000 branded models
- Three main classes:
  - Waterfall
  - Iterative
  - Agile



Figure 11-2, from Baltzan, Phillips, Lynch, and Blakey (2010). Business Driven Information Systems, Australian and New Zealand Edition (1st Edition)



# Spiral / Iterative / Prototyping



### Agile

- Agile is the 3rd way of doing development
- Agile has existed for about 35 years, but has become more popular over the last decade or so
- There are dozens of Agile models
  - Microsoft use Agile extensively for their internal development and have published their own flavour: MSF (Microsoft Solutions Framework) for Agile.
  - Other commonly known Agile methodologies are: Extreme programming, and Agile Scrum
- o It is the most fun!
- Agile Development has made its way to Project
   Management to become Agile Project Management
   - see text for how it fits into the 10 PMBOK
   knowledge areas

## **Agile**

#### Iterative, Spiral, Prototyping

#### **Agile**

One large release

Waterfall

- Strong processes and structure
- Change is painful
- Feature bound
- Strong on Documentation
- Customers requirements interpreted by Business Analysts

- Frequent incremental releases of demonstrable value
- "Managed chaos"
- Change is inevitable and embraced
- Time bound
- Team Based
- Face-to-face communication over documentation
- Customers as part of the team
- Smart, senior, empowered developers

### Agile Video

- Scrum in Under 10 Minutes by <u>hamids@axosoft.com</u>
  - http://www.youtube.com/watch?&v=XU0llRltyFM
- Ouestions?

### Agile: Case

- Case: A Tale of Two Projects 1 hour
  - Coffin, Rod (2006), A Tale of Two Projects, Proceedings of AGILE 2006 Conference (AGILE'06), IEEE
  - Read Case 15 mins
  - In groups, determine answers to 3 questions 30 minutes
  - Three groups present back for 5 mins each on key findings – One group per question
- Questions:
  - What were the similarities?
  - What were the differences?
  - Which of these differences may have influenced the different outcomes? Why?

#### **Next Week**

- 5-6 Presentations
- Unit Evaluations
- Peer Evalations
- Exam Brief