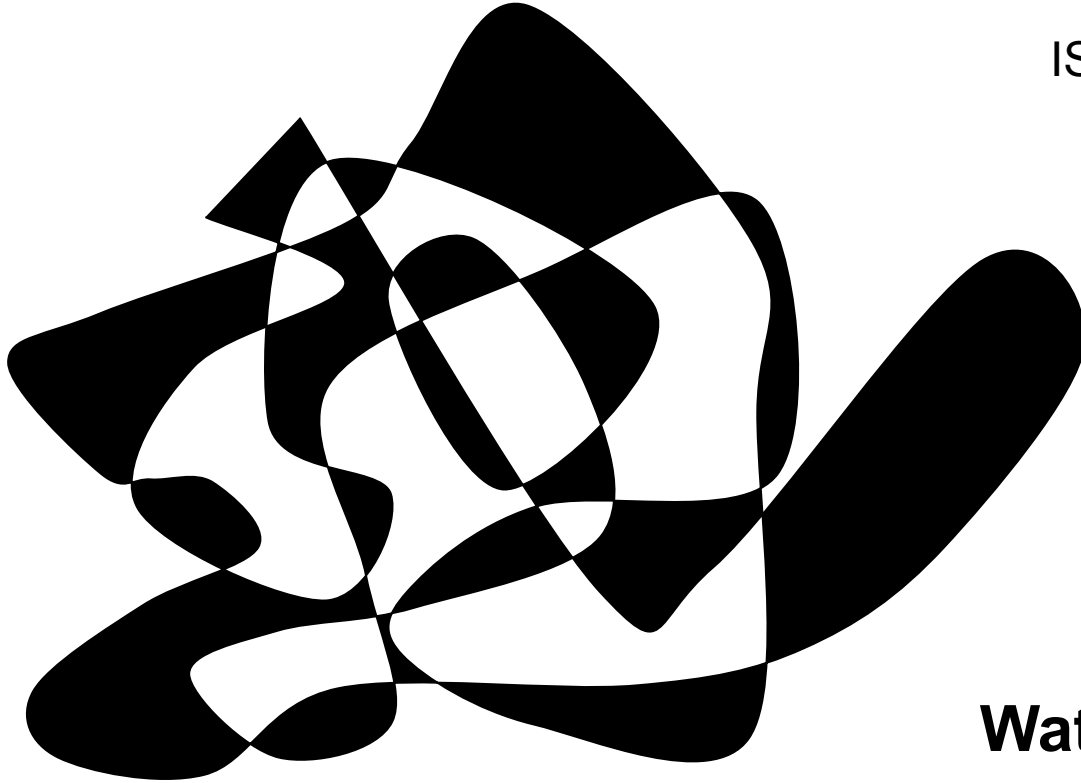# Advanced Project Management

IS 594, Section PJ

Waterfall II (Process)

Specific Examples of Where Waterfall Has Successfully be Implemented

When the project requirements are laid down at the outset and remain more or less fixed throughout the entire process.

- product definition is stable and a lot of information is required before completing each phase.

- a strict timeline needs to be prepared and followed, without alterations.

- sectors involving engineering design and software development that generally demand project management on a large scale.

Money and time are secondary factors and what matters more is the safety and stability of a project.

- in manufacturing and construction industries, where design changes are usually very costly.

- military and aircraft programs where requirements are declared early on and remain constant

- an extremely high degree of oversight and/or accountability such as those in the sectors of banking, healthcare and control systems for nuclear facilities

Human Resource Management Systems (HRMS)

Supply Chain Management Systems

Inventory Management Systems

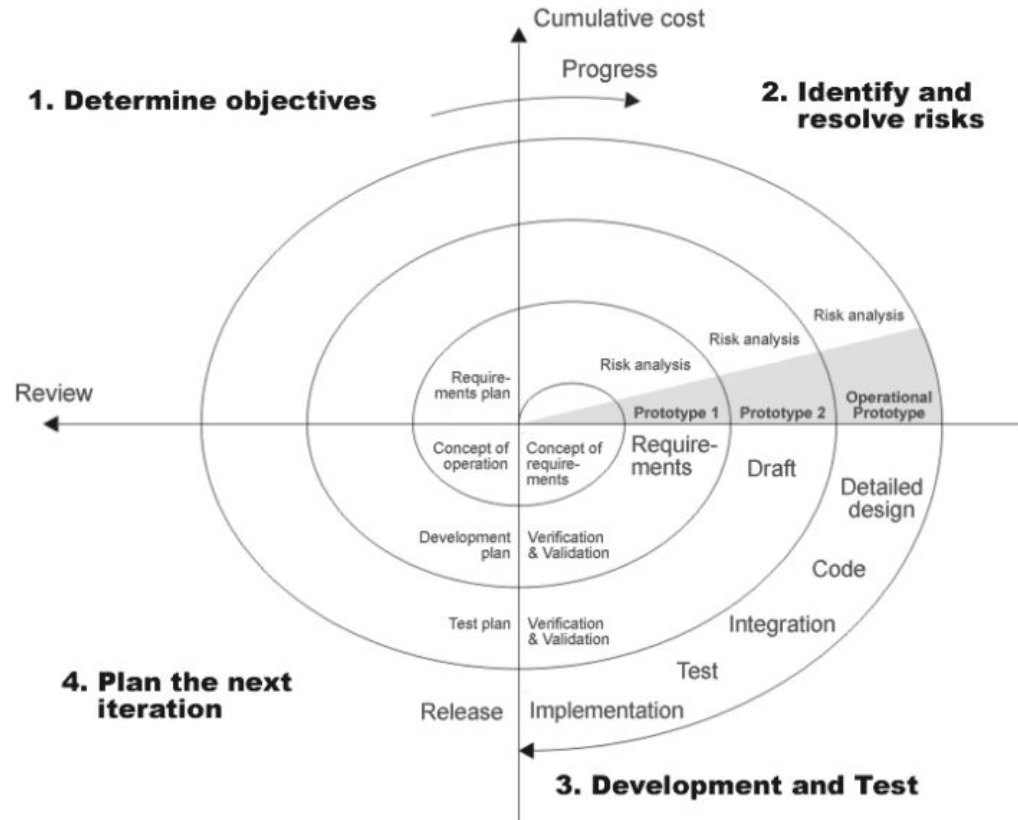Point of Sales (POS) systems for retail chains

Customer Relationship Management (CRM) systems

Software Development Lifecycle (SDLC)

A systematic management framework with specific deliverables at every stage of the software development process.
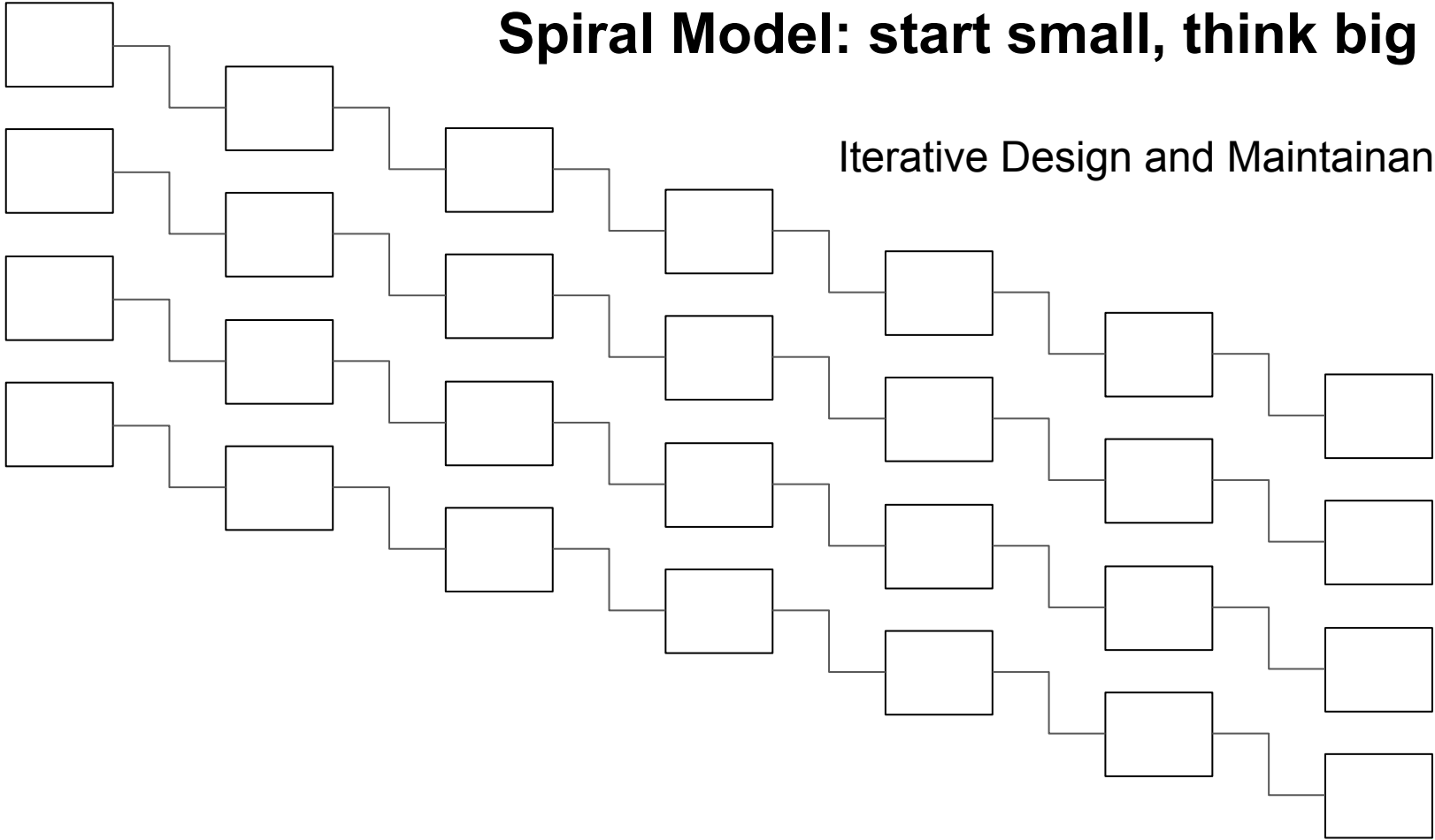
All stakeholders involved in setting software development goals, requirements, and work breakdown execution.
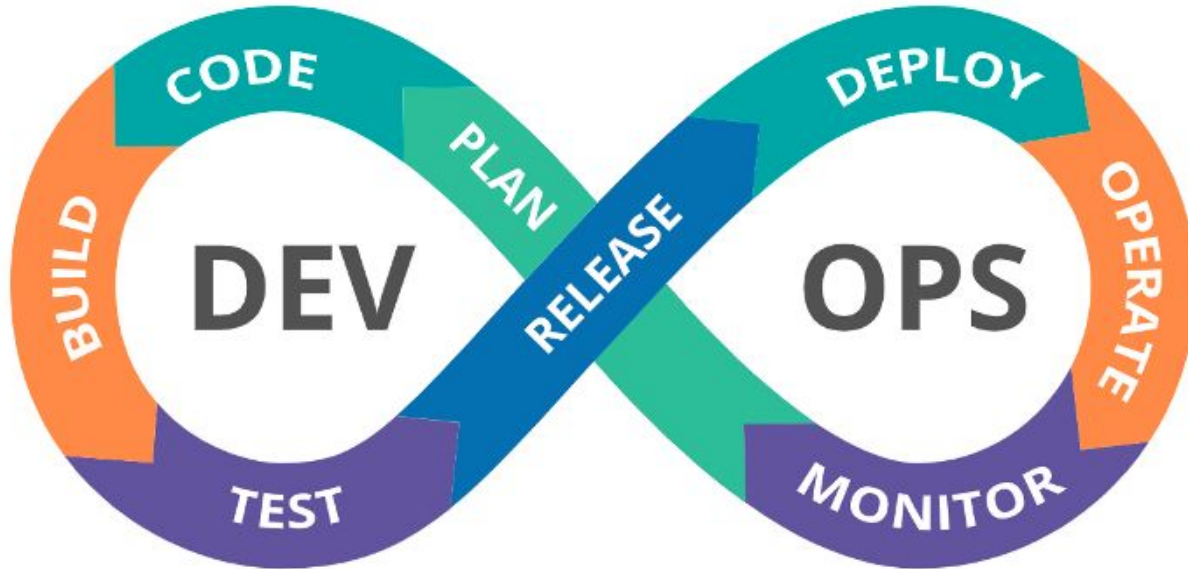
Spiral Model: start small, think big

Spiral Model: start small, think big

Iterative Design and Maintainance

DevOps and Waterfall Strategies

Waterfall Architecture Assignment

Due October 8

1   File Upload   3 points   Build your own Waterfall Model

For this part of the assignment, please fill out the following template based on how the Waterfall model was presented in lecture. This Waterfall model should be based on your hypothetical project (the one based on your class standups). Template link (Google Slides):
https://docs.google.com/presentation/d/19Wsm31P7xbsPgUPdgr0f6aTPnBwDZeZbeNiHYi6qOu4/edit?usp=sharing

Keep the following points in mind:

1) you have viewing permissions only. To edit the template, please download a copy to your local machine or Google Drive account.

2) While I provide seven boxes (to match the similar example given in lecture), you can delete boxes to customize the Waterfall (REMINDER: the smallest possible Waterfall model -- for a single person team -- has two boxes).

3) please place the feedforward (from Box 1 to Box 2) and feedback (from Box 2 to Box 1) components in the appropriate places. You may copy, paste, and size as needed.

4) A table has been provided for you to report the details of each step in the waterfall. For the corresponding box, please provide information about the corresponding process and team requirements.

5) please save your copy of the template as an image file (.jpg, .png) and upload to Canvas.

Drag n' Drop here or   Browse

2   Essay   2 points   Additional Reflection about Waterfall Model

Please provide any further description of your Waterfall model in the text box below. Please include details about your teams, or how useful you believe the Waterfall model will be to your project.

Edit   View   Insert   Format   Tools   Table

12pt   Paragraph   B   I   U   A   A   T²