Agile Software Development

L01 - Introduction

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Software products
The three P’s in Software Development Projects

Adapted from Dietmar Pfahl’s course on Software Engineering Management at UT
The three P’s in Software Development Projects

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“People, Process, and Product” by Dwayne Phillips
http://dwaynephillips.net/CutterPapers/ppp/ppp.htm
Software process

• A process defines **who** does **what**, **when**, and **how** to reach a specific goal

• In **software engineering**, the goal is to build a software product or to enhance an existing one

• Software engineering is an engineering discipline that is applied to the development of software in a **systematic approach** (called a software process)

Software process example

who does what, when, and how

do everything

software product
Software process example (2)

who does what, when, and how

do everything

software product
Software process example (3)

who does what, when, and how?

- do everything for part A
- do everything for part B
- merge A and B
- component A
- component B
- software product
Software process examples

Waterfall

V Model

RUP

Scrum

Spiral
Process types

Adapted from Dietmar Pfahl’s course on Software Engineering Management at UT
Example: RUP
Published by Jacobson, Booch, and Rumbaugh in 1998 (UP)
Example: RUP

Workers, activities, and artifacts.
Example: RUP
The Agile Manifesto

Individuals and interactions over processes and tools

Working software over comprehensive documentation

Customer collaboration over contract negotiation

Responding to change over following a plan

http://agilemanifesto.org/
Warm up for this week

- Check the additional readings on the course site https://courses.cs.ut.ee/2019/asd/fall/Main/Lectures
- Get ready for the practice sessions - install the software
  - Elixir https://elixir-lang.org/install.html
  - Code editor https://code.visualstudio.com/download
  - Git client https://git-scm.com/
- Get acquainted with Elixir and Git