

Final Notes

Peter Dolog
dolog [at] cs [dot] aau [dot] dk
5.2.47
Information Systems
May 5, 2008

Project Management

Agile methods key practices: timeboxing, risk and client driven,
evolutionary (planning, requirements, development)

Cost of communication

Estimation

Measurements

Productivity

Large agile multi team distributed projects

SCRUM

30 days time box

Product and sprint backlog

Product owner, scrum master, scrum team

Sprint planning, daily, review scrum meetings

XP

Test driven

Pair programming

Release and iteration plan

Planning game

Stories

Spikes

Stand up meetings

UP

Short time boxed iterations

Various roles

Various mostly optional workproducts

Phases, disciplines and iterations

Risk driven

Architecture centric

EVO

Adaptive Planning and project tracking

Backroom vs. Frontroom

Measurements are important

Roles (PM, Architect, Implementer, Owner)

Planguage

Impact estimation table

Requirements Engineering

Elicitation

Modelling and analysing

Communicating

Agreeing requirements

Evolving

Design

Abstraction

Refinement

Modularity

Model Driven Design

Patterns and Refactoring

What is refactoring

Bad smells

Patterns

Types of patterns

Patterns as a solution in refactoring

Testing

Testing/Certification

Types of testing

Agile testing

Acceptance testing in agile way

Configuration management

Changes

Change management

Configuration of software

Item identification

Configuration database

Versions and version identification

Releases

Risk Management

What is risk management

Mitigation, monitoring and management

Kinds of software risks

Estimating risk impact

Agile methods support for risk management

Comparing agile and plan driven approaches

Scheduling

Scheduling principles

Gantt, Pert

Critical path

Tracking

Tools for scheduling

Software Process Modelling

Applications vs. Software process programming
Predictable manufacturing vs. New product development
Process description languages

CMMI and software process improvement

CMMI model

Maturity levels

Continuos vs. Staged CMMI

Benefits of CMMI

Problems of CMMI

MAP to SPI

Agile SPI