



MASARYKOVA UNIVERZITA

## **PV213 Enterprise Information Systems in Practice**

### **03 – Project management**



# MASARYKOVA UNIVERZITA

Tento projekt je spolufinancován Evropským sociálním fondem a státním rozpočtem České republiky.



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## Content of this presentation

- Conditions to pass the course
- Role of project management
- Project plan
- Project controlling and reporting
- Estimations
- Project management supporting tools
- Project management qualifications
- Next lesson

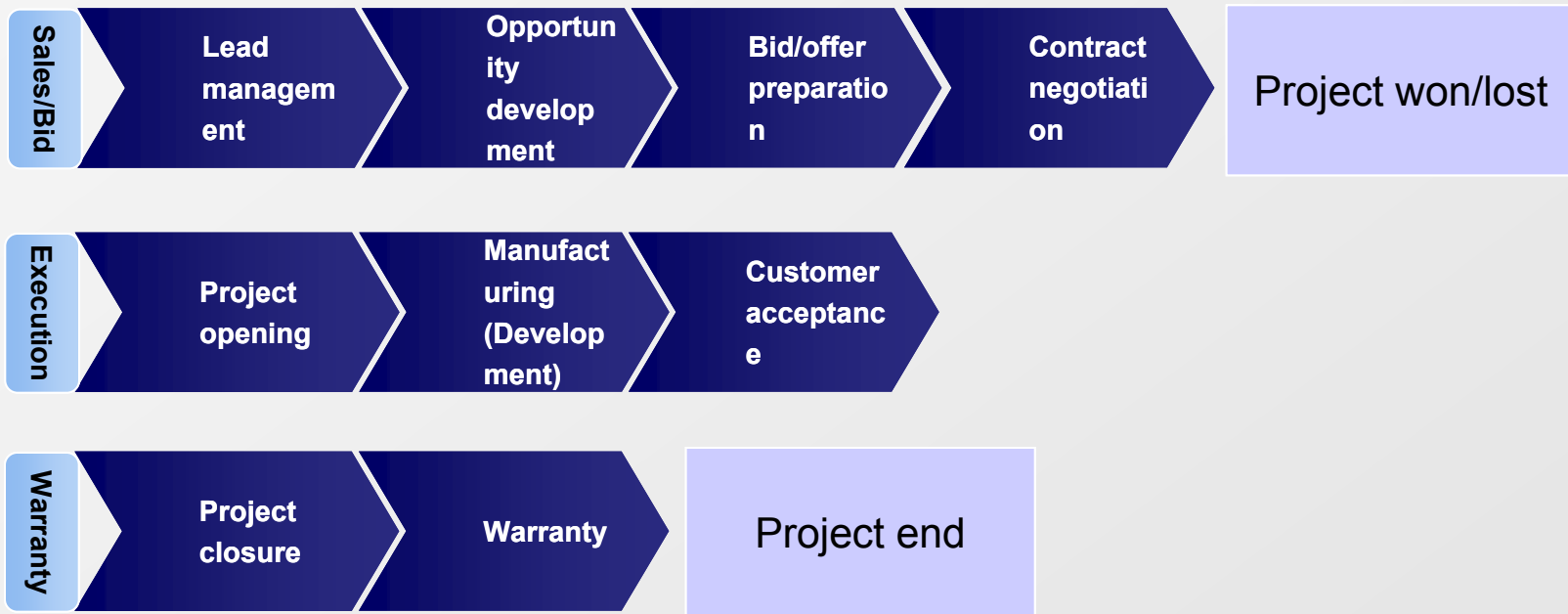
## Conditions to pass the course (1/2)

- Story for a customer
  - Prepare an original story for a customer
    - Original
    - Two pages
    - Do not forget that you have to attract customer
      - Arguments
      - Calculation
    - Ideally from area presented by Dalibor (retail)
  
- OR

## Conditions to pass the course (2/2)

- Document on a given topic
  - At least three pages of text, pictures, tables, ...
  - Areas of homework will be e.g. from
    - Management of projects
    - Analysis and architecture
    - Testing
- At the latest in the half of the course (beginning of April 2012) homework assignment will be known
  - You will be informed

# Project process



## After winning a project

- Handover to project execution
- Setup project organization
- Project clarifications
- Project execution plans
- Kick off
- ...



## Project

- What is a project?
- What are its characteristics?

## Project

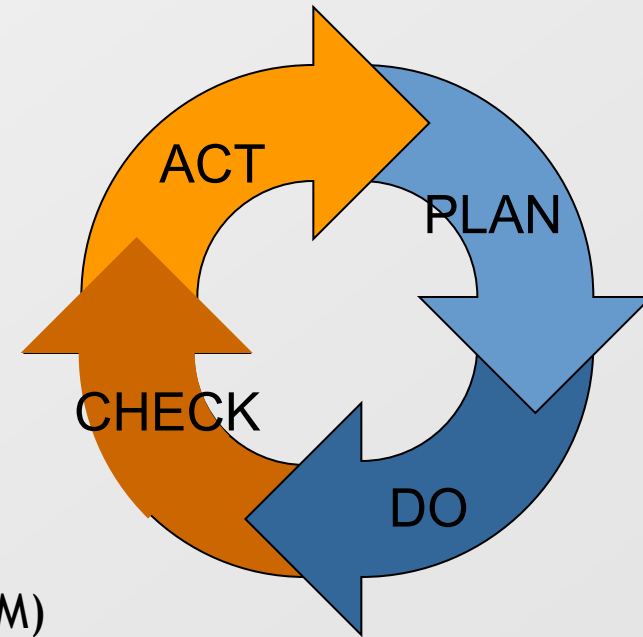
- A project is a temporary endeavor undertaken to create a unique product, service, or result.

## Role of project management

- Establish & maintain the project environment and monitor and assure that the project objectives are realized

## Project management tasks

- ❑ Planning
  - ❑ Define, allocate & manage work packages
  - ❑ Establish and manage operational schedule
  - ❑ Initialize & re-estimate the budget
  - ❑ Project Meeting Schedules & Agenda
- ❑ Realizing
  - ❑ Project Start-Up
  - ❑ Constitute and facilitate the project team
  - ❑ Manage stakeholders & expectations
  - ❑ Process Change Requests & Defects
  - ❑ Contribute to support activities (CM, QM, RM)
  - ❑ Deliver final products to Customer
- ❑ Controlling
  - ❑ Monitor the project progress, deviations and reporting



## Project plan

- ☒ Defines and documents the structure and sequence of the entire project

## Project plan content

- Key project data
- Project organization
- Component planning
- Planning the project volume
- Planning the course of the project
- Risk management
- Project checks and control

## Effort estimations

- Team, possibly estimation experts
- Decomposition - based on structured objects (requirements, features, stories ...)
- Include “load” factors (effort for review, travels, communication, ...)
- Usage of alternative estimation methods/different teams
- It is just an estimation

## Expert estimations

- Most often used
- Intuition and judgment of a group of experts





## Planning poker

- Based on Delphi/Wideband Delphi method
- Principle
  - Estimated package is discussed
  - Each team member selects a card which is not shown
  - The cards are shown simultaneously
  - Differences in estimations are discussed
  - **If a consensus is not reached, start next iteration**

## Affinity estimation

### ➤ Principle

- Estimated packages are discussed
- Team silently sorts stories (big to small)
- Packages with similar effort are clustered
- Team assigns estimations to clusters

## Function point analysis

- Formal estimation model
- Based on comparison with past projects
- Requires experience
- Data Functions
  - Internal Logical Files
  - External Interface Files
- Transactional Functions
  - External Inputs
  - External Outputs
  - External Inquiries

## Estimations - example

- ▣ Task to estimate:
  - ▣ Write an essay about your favorite weekend

## Project controlling, reporting and escalations

- ❏ Company internal
  - ❏ Different levels and paths
    - ❏ Local management
    - ❏ Business unit
    - ❏ Quality management
  - ❏ Supported by software tools
  
- ❏ Reporting to customer
  - ❏ Regular reports (e.g. weekly, sprint)
  - ❏ Prototyping
  - ❏ Tests on customer site
    - ❏ Change requests in early stage (documented!)
    - ❏ Saves analysis costs

## Project management supporting tools

### ▣ Areas

- ▣ Planning and resource allocation
- ▣ Estimations
- ▣ Defect, CR and task tracking
- ▣ Controlling
- ▣ Collaboration and communication

### ▣ Type

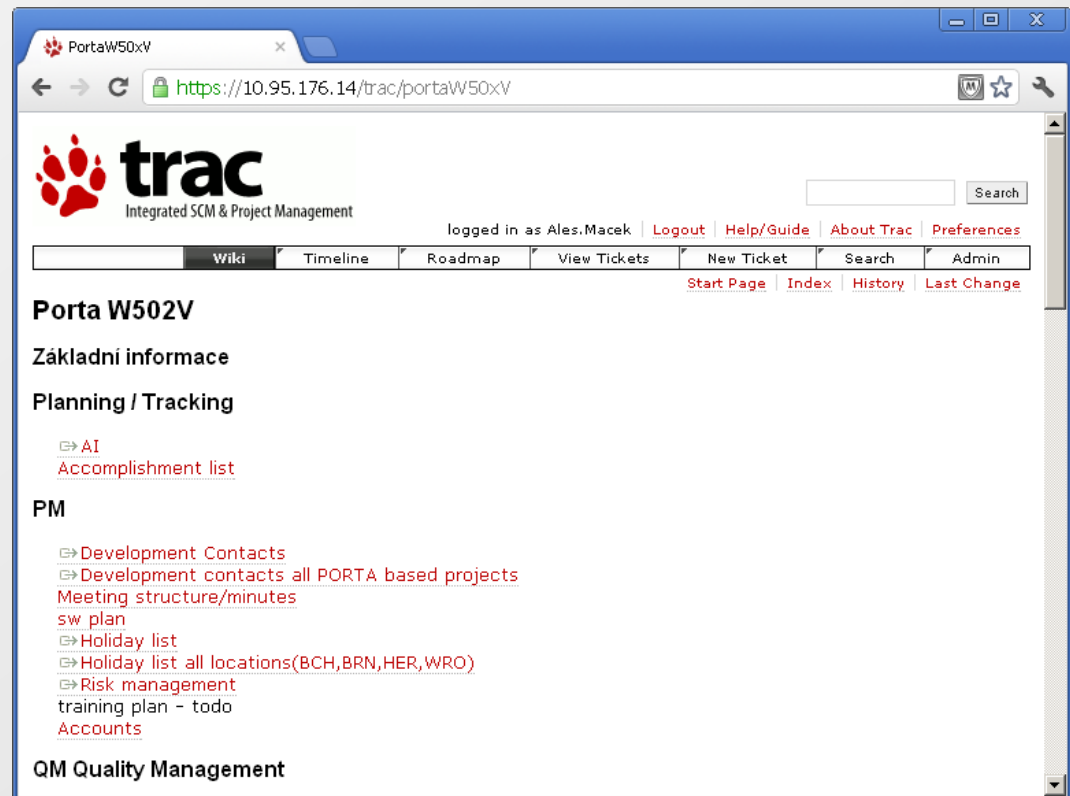
- ▣ Web/Desktop
- ▣ Single/Multiuser

## Microsoft

- MS Project + Enterprise Project Management
- MS Team Foundation Server + SharePoint
  - Reporting and tracking
  - Source control
- MS Excel
  - Easy to enhance
  - Standard SW set
  - Limited functionality

# Trac

- <http://trac.edgewall.org/>
- OSS
- Wiki
- Tickets, milestones
- SVN interface





# ScrumWorks

➤ <http://www.collab.net/products/scrumworks/>

➤ Scrum

➤ Easy to use

The screenshot displays the ScrumWorks Pro interface. At the top, there's a navigation bar with 'My Tasks', 'Sprints', 'Dashboard', and 'Planning' (selected). The user is logged in as 'kim'. Below the navigation, the main content area is titled 'Solitaire games'. It features three columns representing different sprints or tasks:

- Left Column (Sprint: 2.5 - 11/9/2009 - 2/25/2010):** Contains tasks like 'Pot Tracking Sol-410', 'lkjllkj Sol-149', 'Fill empty piles - only King Sol-88', 'Tableu Definition Sol-193', 'new 2 Sol-156', 'new Sol-154', 'new monte carlo Sol-166', '21 Play area foundation placement Sol-126', '4 Foundation Pile Functionality Sol-80', 'Move Partial Piles Sol-85', 'lkjhkljkljklj Sol-148', and 'Exported localization file content should b Sol-339'.
- Middle Column (Sprint: 2.0 (Card Games) -- 1/1/2009 - 11/1/2012):** Contains tasks like 'Fill empty piles - Any card Sol-450', 'Snew bug Sol-167', 'Move full piles Sol-87', 'Only top most tableu card can be moved Sol-180', 'Play Area card placement Sol-181', 'Place remaining cards into 13 reserve pile: Sol-130', 'Foundation order - Ace to King Sol-118', 'Move cards from reserve piles to foundati Sol-192', 'Another Backlog Item Sol-389', 'New Item Sol-361', and 'Initial Deal Sol-195'.
- Right Column (Sprint: 10/2/2009 - 11/2/2009):** Contains tasks like 'Move cards from tableu to foundation Sol-116', 'on boot install, YaST2 can't handle LILO ei Sol-336', 'Play Area card placement Sol-54', 'Move cards from reserve piles to foundati Sol-117', 'Tableu Definition Sol-104', 'Initial Settings Screen Graphic Sol-52', 'Variation Options in Setup Sol-98', 'Initial Deal Sol-75', 'Initial Setup Sol-103', and 'Initial Setup screen graphic Sol-77'.

## Project management levels

- Several possible certifications
  - PMI (Project Management Institute)
  - IPMA (International Project Management Association)
  - Internal certifications
    - PM Small Project
    - Project manager
    - Senior project manager
    - Project director
  - Scrum

## Next lesson

- ❏ Quality assurance
  - ❏ Role of quality management and quality assurance
  - ❏ QA plan
  - ❏ Document management + tools
  - ❏ Reviews
  - ❏ Product deviations and measures
  - ❏ ISO
  - ❏ CMMI
- ❏ Scrum experience?
  
- ❏ 51721@mail.muni.cz

# Děkuji za pozornost.

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