

# Project Development (SYP\_PRE)

Project Proposal

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*Unit 2*



# Purpose

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- ✧ Give basis for the management decision of project approval
- ✧ Describes
  - ✧ Necessity of project
  - ✧ Feasibility of project
  - ✧ Affordability of project
  - ✧ Market and economic effect of project



# Outline

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- ❖ Initial situation
- ❖ General conditions and constraints
- ❖ Project objectives and system concepts
- ❖ Opportunities and risks
- ❖ Planning
- ❖ Economic efficiency



# Initial Situation – Content

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- ❖ Describe current situation
- ❖ Need for action is clearly visible
  - ❖ This may lead into a new system / product



# Initial Situation – Driving Questions

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- ❖ What are our abilities? What can we do now?
- ❖ What shall be our abilities? What do we want to do in the future?
- ❖ What is the gap?
  - ❖ What are we currently missing to get the desirable abilities?



# Initial Situation – Example

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- ❖ Doctor in a primary school periodically examines primary school students
- ❖ (S)he has to report the results of his examinations
- ❖ (S)he has to inform parents about the health situation of their kids
- ❖ (S)he has to refer students in more severe health conditions to a specialist
- ❖ Paper work takes around 60 % of his /her time
- ❖ Data retrieval takes another 20 %



# Initial Situation – Example cont.

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- ❖ Documentation of examinations can be done computer assisted
- ❖ Reporting and parents information is then generated
- ❖ Medical history of students is persisted automatically



# WORK

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- ❖ Go into your teams
- ❖ Collect buzz words for the initial situation of your project
- ❖ Time frame: 15 min



# General Conditions and Constraints – Content

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- ✧ Describe the frame work conditions
  - ✧ Budget situation
  - ✧ Organizational constraints
  - ✧ Technical constraints
  - ✧ ...



# General Conditions and Constraints – Driving Questions(1)

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- ❖ Framework conditions
  - ❖ What is our budget situation?
  - ❖ What is our know-how?
  - ❖ With whom can we cooperate?
  - ❖ Which commitments do we have to our partners?
  - ❖ Which commitments do we have in terms of deadlines?



# General Conditions and Constraints – Driving Questions(2)

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- ❖ Technical conditions
  - ❖ Which development environment and platform is available?
  - ❖ Which IT infrastructure is available?
  - ❖ Which standards and regulations have to be considered?



# General Conditions and Constraints – Example

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- ❖ The information about the medical condition of the students is strictly confidential
- ❖ The GUI of the information system must reflect the doctor's standard forms to minimize scepticism from the user side
- ❖ The application must have a small memory footprint (max. 100 MB disk space, max. 50 MB RAM) and a local database
- ❖ A backup concept is mandatory
- ❖ The application is multi-language capable (English and German)



# WORK

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- ❖ Go into your teams
- ❖ Collect buzz words for the general conditions and constraints of your project
- ❖ Time frame: 15 min



# Project Objectives and System Concepts – Outline

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- ❖ Describe your concept or vision of a new system
- ❖ Describe it without technical details
- ❖ Convey your basic idea and how it brings us to the desired state as described in “Initial Situation”



# Project Objectives and System Concepts – Example

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- ❖ The doctor is documenting the examination results while examining the students
- ❖ Input form assists her/him to input information in a structured and easy way
- ❖ Common situations (need for vaccinations, check for need of dental brace, etc.) are a one-click-job for the doctor
- ❖ Info sheet for parents can be printed right after examination
- ❖ Report is a one-click-job at the end of the day



# (WORK)

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- ❖ Go into your teams
- ❖ Collect buzz words for the initial situation of your project
- ❖ Time frame: 15 min



# Opportunities and Risks – Outline

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- ❖ Make a market analysis
  - ❖ List potential customers
  - ❖ Estimate your chances to make profit
  - ❖ Estimate your risk to fail and make loss



# Opportunities and Risks – Example

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- ❖ We could save 80 % out of the wasted 80 % bureaucracy work
  - ❖ Besides increasing the time for child care more schools can be serviced by one doctor (-> cost reduction of public health care)
- ❖ Doctors do not use the system because of technology scepticism



# WORK

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- ❖ Go into your teams
- ❖ Collect buzz words for the opportunities and risks of your project
- ❖ Time frame: 15 min



# Planning – Content

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- ❖ List the rough project milestones
- ❖ Assign project lead and other outstanding roles to team members
- ❖ Give a rough estimate how many resources you need
  - ❖ Human resources
  - ❖ Licenses
  - ❖ etc.



# Planning – Driving Questions

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- ❖ When will the project end?
- ❖ When will be a first prototype available
- ❖ When will the project start?
- ❖ When does implementation work start?
- ❖ What are the big blocks of work to be done?
- ❖ Is this work doable in the given period of time?
- ❖ Do we need any other stuff to make our work (licenses, servers, ...)?



# WORK

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- ❖ Go into your teams
- ❖ Collect first milestones (around seven to ten) for your project
- ❖ Time frame: 15 min