Lecture: Modern Project Management in ICT

Prof. Dr. Harald Wehnes



Agenda

Presentation of the solutions of Task 3 (< 2 minutes) Health situation

- 4.1 Environment and stakeholder management
 - Result: Stakeholder analysis
- 4.2 Agile Project Management
- 4.3 Scrum
- 4.4 Objectives

Task 4: Stakeholder Analysis (pptx)

Research Tasks "PM in VN"



Homework: Task 3

Finish "Story Map and MVP":

Team_n-Task_3.pptx

Upload of the presentation by the project manager of day 3!

Deadline: 12th March, 8:00 am

Presentation by the project managers of day 3 tomorrow morning (duration < 2 min)





4.1 PROJECT ENVIRONMENT & STAKEHOLDER MANAGEMENT



Project Environment is important: There are a lot of influences on the project



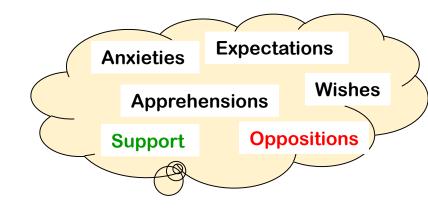
Stakeholder

The individual factor is highest priority!

Projects are done by humans

for humans





Stake:

Claim, interest, expectation or requirement

Stakeholder (Interested Parties):

Individual, group of people or organization, who ...

- take part at project
- interested in the project progress or results
- affected by a decision, activity, or outcome of the project
- can influence the project result or project progress





Stakeholder management



Who are promoters?
Who are opponents?

Purpose of stakeholder management:

Realize in advance,

- who will support the project and
- who has resistance to the project (conflict potential)
 - ⇒ appropriate steps for project acceptance





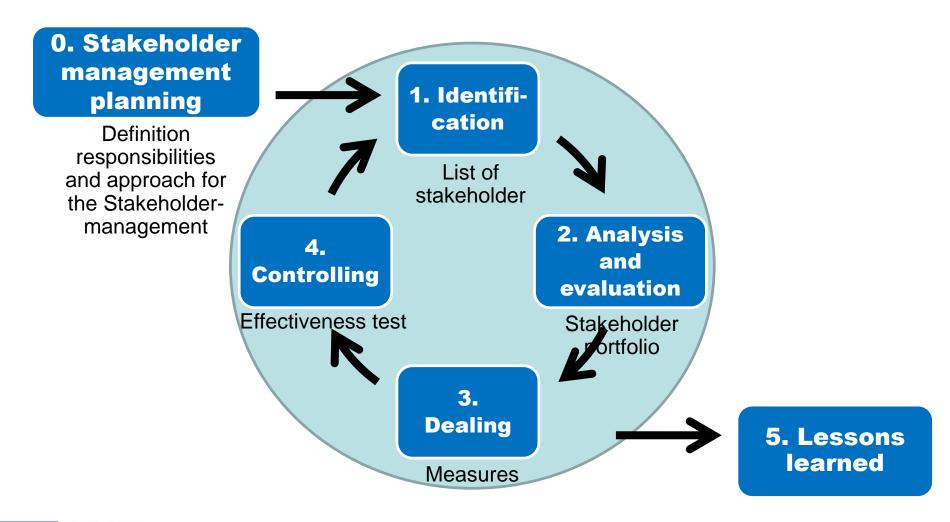
Categories of Stakeholder

- Interest/Affectedness by the project objectives or outcome
 - Degree of impact: low medium high
 - Type of impact: positive negative
 - ⇒ Attitude towards project
 - Type of Attitude: positive neutral negative
 - Support / oppositions
 - Promoters: Project proponents
 - Opponents: Project opponents
 Conjectures / Facts
- ► Power/Influence to the project
 - Degree: low medium high





The stakeholder management process ensures an efficient interaction with the stakeholder





1. Stakeholder identification

- Run a workshop (key questions will help)
 - Which persons are affected by the project?
 - Who can influence the project?
 - Who could be against the project?
 - Who could support with which expectations the project?
 - Who could have reservations (fears, apprehensions) regarding the project?
 - Who else could provide information regarding the project?
- ➤ Typical stakeholder are customer, sponsor, project team, project office, or anyone who needs project information to make decisions and/or contribute to project progress





Example: Stakeholder identification

#	Stakeholder (person or group)	Attitude to the project (+, -, 0)	Expectations (+) Fears (-)	Degree of impact (low, medium, high)	Type of impact (+, -)	Power/ Influence (Iow, medium, high)	Strategies / Measures	
1				custome	rs, users			
1.1	Teenager	+	+	high	+	medium	Raise awareness	
1.2	Researcher	+	+	medium	-	high	Persuade for testing demo	
	Advertise com.	+	+	high	+	medium	Offer advertise deal	
	Software com.	+	+	high	+	medium	Persuade for financial, technology	
1.5								
2				project tear	n members			
2.1	Designer	+	+	h	+	m	Look for professtional, offer good payment, bonus	
2.2	Marketter	+	+	h	+	m	Look for professtional, offer good payment, bonus	
2.3	Web security	+	+	h	+	m	Look for professtional, offer good payment, bonus	
3				other interes	sted parties			
_	Maintanance	0	+	low	+	low	Look for professtional, offer good payment, bonus	
3.2	Co-oporation party	0	+	medium	+	medium	Stay neutral	
3.3								



Workshop "Stakeholder identification"

Identify three (3) important stakeholder of your project Template-Stakeholder.xls

Process time: 5 minutes

#	Stakeholder (person or group)	Attitude to the project (+, -, 0)	Expectations (+) Fears (-)	Degree of impact (low, medium, high)	Type of impact (+, -)	Power/ Influence (Iow, medium, high)	Strategies / Measures
1	customer, user						
1.1							
1.2							
1.3							
2	company that ful	fills the proje	ct contract				
2.1							
2.2							
2.3							
3	members of the	project team ir	its roles				
3.1							
3.2							
3.3							
4	suppliers and su	bcontractors					
4.1							
4.2	-						
4.3							
_	society and othe	rs					
5.1							
5.2							
5.3							

Stakeholder identification

Team	Stakeholder
1	people group (the age,salary)
2	App users
3	Young people
4	General Consumers
5	Customer
6	Consumers
7	App users
8	Place owner,
9	Investor
10	Doctor
11	Government
12	Web developer





2. Stakeholder analysis

Analysis for each stakeholder

- Attitude to the project: positive +, neutral 0 or negative -
- Expectations (+) / fears (-)
- Degree of impact (interest/ affectedness): high, medium, low
- **Type of impact**: positive (+) or negative (-)
- Degree of power (influence) to the project: high, medium, low

#	Stakeholder (person or group)	Attitude to the project (+, 0, -)	Expectations (+) Fears (-)	Degree of impact (low, medium, high)	Type of impact (+, -)	Power/ Influence (low, medium, high)	Strategies / Measures
1				custome	r, user		
1.1							
1.2							
1.3							
2			compa	ny that fulfills	the project co	ntract	
2.1							
2.2							
2.3							
3			memb	ers of the proje	ect team in its	roles	
3.1							
3.2							
3.3							
4			S	suppliers and si	ubcontractors		
4.1							
4.2							
43							

Example: Stakeholder analysis

#	Stakeholder (person or group)	Attitude to the project (+, -, 0)	Expectations (+) Fears (-)	Degree of impact (low, medium, high)	Type of impact (+, -)	Power/ Influence (Iow, medium, high)	Strategies / Measures	
1	customers, users							
1.1	1 Teenager + + high		+	medium	Raise awareness			
1.2	Researcher	+	+	medium	-	high	Persuade for testing demo	
1.3	Advertise com.	+	+	high	+	medium	Offer advertise deal	
	Software com.	+	+	high	+	medium	Persuade for financial, technology	
1.5								
2				project tean	n members			
2.1	Designer	+	+	h	+	m	Look for professtional, offer good payment, bonus	
2.2	Marketter	+	+	h	+	m	Look for professtional, offer good payment, bonus	
2.3	Web security	+	+	h	+	m	Look for professtional, offer good payment, bonus	
3				other interes	ted parties			
	Maintanance	0	+	low	+	low	Look for professtional, offer good payment, bonus	
3.2	Co-oporation party	0	+	medium	+	medium	Stay neutral	
3.3								



Workshop "Assumed Expectations and Fears"

Stakeholder	Expectation	Fear
Marketing Manager		Product design does not meet customer requirements
Component Supplier		He might not receive the order for serial production
CEO	New customers for the company	

Task: Expectations and fears of one stakeholder of your project



Stakeholder analysis

Team	Stakeholder	Expectations	Fears
1	Elder people	the elder: expect easy to use	cost and reliability
2	App users	Straight-forward user interface, up-to-date traffic information, Quick response time	price, ads
3	Young people	unique design of their own	bad quality printing
4	General Consumers	Ease of use, payment	Worrying about their Privacy
5	Customer	Easily take care of their pet properly	bad service
6	Consumers	good and healthy products, suitable price	pressure of the market
7	App users	better feature, affordable	wrong knowledge, personal data leakage
8	Place owner,	The app users increases, combine with some other bussiness, increase user trust	Complicated app, few users
9	Start-up CEO	The application can help to manage the company easier and effective	
10	Doctor	customer satisfaction; save time; reduce stress; guarantee user' data	too many patients at a time, low accuracy
11	Government	resources	
12	Web developer	deliver fast and accurate information	wrong informations, slow response website

=>

3. Stakeholder measures



Develop strategies, measures and activities for

- reducing resistances (fears)
- strengthening support
- Measures to reduce the resistors
 - Strive for win-win situations especially when they may have a strong influence
 - Try to find compromises with them
 - Pro-contra-arguments work out; develop "messages"
 - Honest and clear communication
 - Possible participation in the project work
- Measures to strengthen the supporters
 - Complete information of the supporters
 - Build personal wire / good relationship
 - Inclusion of opinion leaders and multipliers





Stakeholder matrix complemented by measures

#	Stakeholder (person or group)	Attitude to the project (+, -, 0)	Expectations (+) Fears (-)	Degree of impact (low, medium, high)	Type of impact (+, -)	Power/ Influence (low, medium, high)	Strategies / Measures
1	customer, user						
1.1							
1.2							
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2	company that fu	Ifills the proj	ect contract				
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3	members of the	project team	in its roles				
3.1							
3.2							
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4.1							
4.2							
4.3							
5	society and othe	ers					
5.1							
5.2							
5.3							



Example: Stakeholder measures

#	Stakeholder (person or group)	Attitude to the project (+, -, 0)	Expectations (+) Fears (-)	Degree of impact (low, medium, high)	Type of impact (+, -)	Power/ Influence (Iow, medium, high)	Strategies / Measures	
1								
1.1	Teenager	+	+	high	+	medium	Raise awareness	
1.2	Researcher	+	+	medium	-	high	Persuade for testing demo	
1.3	Advertise com.	+	+	high	+	medium	Offer advertise deal	
1.4	Software com.	+	+	high	+	medium	Persuade for financial, technology	
1.5								
2	project team members							
2.1	Designer	+	+	h	+	m	Look for professtional, offer good payment, bonus	
2.2	Marketter	+	+	h	+	m	Look for professtional, offer good payment, bonus	
2.3	Web security	+	+	h	+	m	Look for professtional, offer good payment, bonus	
3				other interes	sted parties			
	Maintanance	0	+	low	+	low	Look for professtional, offer good payment, bonus	
3.2	Co-oporation party	0	+	medium	+	medium	Stay neutral	
3.3								



Stakeholder measures (actions): Examples

Project meetings

- Personal meetings
- Reporting
 - → exchange of information

General meetings

- Panel discussions
- Workshops
 - → how presence

Project reports

- Reporting plan
- Document plan
 - → documentation of project progress

Project presentation contents:

- Why are we doing it?
- Benefits
- Objectives
- How to reach our goals?
- Discussion & questions



Example (2019)

#	Stakeholder (person or group)	Attitude to the project (+, -, 0)	Assumed Expectations (+) Fears (-)	Interest/ Affectedness (low, medium, high)	Type of impact (+, -)	Power/ Influence (low, medium, high)	Strategies / Measures		
1	customer, user								
1.1	Doctors	+	(+) Help doctors with high accuracy, stress reduction.	high	+	high	Update frequently for more easier interaction and bug fixes.		
1.2	Patients	+	(-) Not really trusted in AI, believe in real Doctor.	medium	+	high	Hold more conferences in oder to show demo product with the highest results.		
2			company tha	t fulfills the pro	oject contract				
2.1	Hospital	+	(+) Reduction of treating time.	high	+	high	Release free trial versions for some early co-operation.		
2.2	Medical central	+	(+) Reducing the burden of medical staff.	medium	+	low	Release free trial versions for some early co-operation. Guarantee the performance.		
3			members of	the project tea	m in its roles				
3.1	R&D Manager	+	(-) Need more pre-processed data which is not avalible.	high	+	high	Spend a huge budget to find good raw data.		
3.2	Marketing Manager	+ Want to be treated by real doctors		high	+	high	Spend a huge budget to have advertisement on TV.		
4			supplie	rs and subcon	tractors				
4.1	HUST	+	(+) More and more AI start-ups can develop in oder to bring the AI technology into everywhere of our country.	high	+	medium	Accept training of after-graduated students.		



Stakeholder measures

Measures

focus on the quality cure of doctors; more bonus for treating more

give free trial version to get opinion and feedback

high demand with good salary and workplace

Stakeholder

Government

Web developer

11

12

Team

1	Elder people	- Design friendly UI (User Interface), - Having a Customer Service Hotline, - Introduce a 6-month warranty
2	App users	two week trial Premium version and no ads
3	Young people	1/ free charge for the first time when design with chosen artist 2/ Refund policy
4	General Consumers	Giving 50 free ordering vouchers for 50 firstly registered users in some specifiec areas.
5	Customer	give the customer discount or voucher
6	Consumers	discount 10% for the total bill to attract costumers
7	App users	Care about user feedback, -Give some voucher discount for premium registration, -make app easy to contact ours or others
8	Place owner,	make induction video, point accumulation to get discount, reduce money for the first use.
9	Start-up CEO	highest access permission-clear management instructions
10	Doctor	give users free trial version;

patients

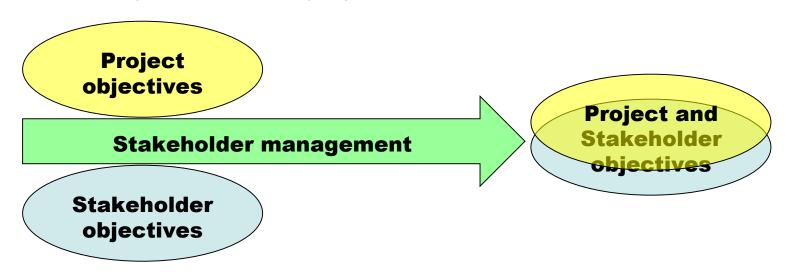
4. Controlling

- ► The results of the Stakeholder analysis is kept internally (within your project.) They are <u>not made public</u> to outsiders!
- Stakeholder identification and analysis are carried out several times during the course of the project
 - Stakeholder identification und analysis represent always just a snap-shot in time
 - Appropriate moment for a new viewing / new evaluation:
 At the beginning of a new project phase
 - Controlling-Questions
 - 1. Have the carried-out measures/actions been successful?
 - 2. Are there new stakeholder?
 - 3. Has there been an essential change of the stakeholder positions?
 - 4. Which new measures have to arranged?



Tips from the practice

- ► There are more Stakeholder than you can imagine
 - → An intensive identification process of the stakeholder avoids unpleasant surprises while project progress. It increases the chances of project success significant.
- ► Create win-win-Situations!
 Be creative!
- Integrate important wishes and interests of the stakeholder into the objectives of the project





Task 4: Stakeholder Management

1. Stakeholder analysis for the five (5) most important stakeholder

- Attitude to the project: positive (+), neutral (0) or negative (-)
- Expectations (+) / fears (-)
- Degree of impact: high, medium, low
- Type of impact: positive (+) or negative (-)
- Power (influence on the project): high, medium, low

Stakeholder measure:

one **measure** for each stakeholder with "power/influence" = **high**

Template: Stakeholder_matrix.xls



Homework: Task 4

- 1. Optimize "Story Map and MVP"
- 2. Stakeholder management
- 5 Stakeholder: analysis and measures (only for stakeholder with "power/influence" = high)

Upload of the presentation Team_n-Task_4.pptx by the project manager of day 4!

Deadline: 13th March, 8:00 am

Presentation by the project managers of day 4 tomorrow morning



Research Tasks: Project Management in Vietnam

- 1. Large-size historical projects in Hanoi (result, duration, costs)
- 2. Large-size actual projects in Hanoi (result, duration, costs)
- 3. Large-size **historical projects in VN** (result, duration, costs)
- 4. Large-size actual projects in VN (result, duration, costs)
- 5. Industry sectors where project management is applied in VN
- 6. VN portals with job offers for project managers
- VN universities that offer project management (degree)
 courses for students
- **8.** Books about project management in Vietnamese
- **9. Skills** of project managers (analyze some pm job offers)
- 10. PM organizations and groups in VN
- 11. Tools for project work
- 12. Tools for virtual communication

Schedule

Online (Room D08 – 502)

09.03	10.03	11.03	12.03	13.03	16.03.	17.03	18.03	19.03	20.03
9:20-11:50 Lecture	09:20-11:50 Lecture	09:20-11:50 Lecture	09:20-11:50 Lecture	09:20-11:50 Lecture	09:20-11:50 Lecture	09:20-11:50 Lecture	09:20-11:50 Final Presentations	09:20-10:50 Exams (2 x 45 minutes)	
13:20-15:20 Lecture	13:20-15:50 Lecture	13:20-15:20 Lecture	13:20-15:50 Lecture		13:20-15:20 Lecture + PM in VN I Teams 1-6	13:20-15:50 Lecture + PM in VN II Teams 7-12	13:20-15:20 Preparation for Exam		14:00? Cere- mony
Project work in teams	Project work in teams								



4.2 AGILE PROJECT MANAGEMENT



Motivation

The 7 Wastes of Software Development Features and functions used in a typical system:

 Partially done work Only 1/5 of the stuff we build is used Always often or always! Extra features Lost knowledge Often 13% Handoffs Never Task switching 45% Sometimes Delays 16% Defects Rarely



There is surely nothing quite so useless as doing with great efficiency what should not be done at all.

Peter Drucker

65

19%

Source: Standish Group Study Reported at XP2002

by Jim Johnson, Chairman

Quelle: http://www.scruminc.com/wp-content/uploads/2014/10/CSMjsv18a1.pdf

Jeff Sutherland



scruminc.



2/3 of the stuff we build is rarely or

never used!

Agile Procedure Model

Agile Values and Principles

Agile Manifesto:

4 Values

12 Principles

Agile Methods

Scrum,

XP,

Kanban,

Design Thinking,

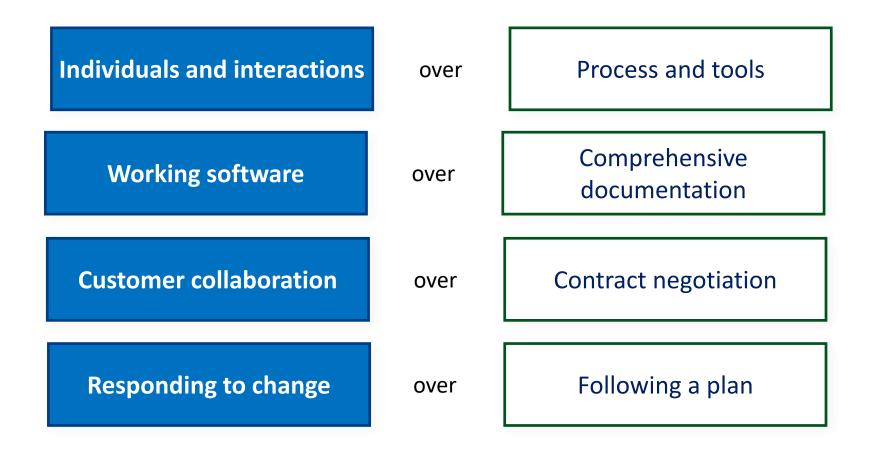
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Agile Practices

Product Backlog, Story Points, Planning Poker, Time Boxing, Kanban Board, Daily, Sprints, Self-organisation, WiP, ...



The Agile Manifesto (2001) – a statement of values



Kent Beck, Mike Beedle, Arie van Bennekum, Alistair Cockburn, Ward Cunningham, Martin Fowler, James Grenning, Jim Highsmith, Andrew Hunt, Ron Jeffries, Jon Kern, Brian Marick, Robert C. Martin, Steve Mellor, Ken Schwaber, Jeff Sutherland, Dave Thomas

Source: www.agilemanifesto.org



A wrong understanding of agile project management







Source: http://dilbert.com/strip/2007-11-26

12 Principles behind the Agile Manifesto

- 1. Our **highest priority** is to **satisfy** the **customer** through **early** and **continuous delivery** of valuable software.
- 2. Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.
- 3. Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale.
- Business people and developers must work together daily throughout the project.
- 5. Build projects around motivated individuals. Give them the environment and support they need, and trust them to get the job done.
- 6. The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.

 Source: www.agilemanifesto.org





12 Principles behind the Agile Manifesto

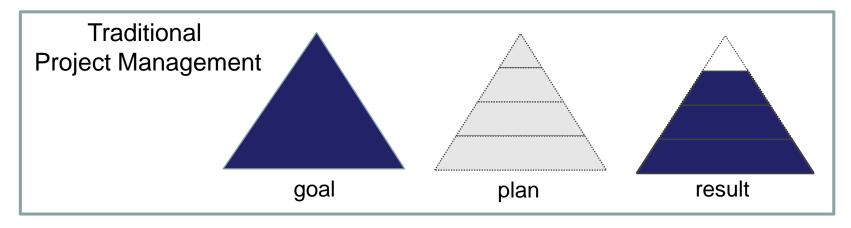
- 7. Working software is the primary measure of progress.
- 8. Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.
- 9. Continuous attention to technical excellence and good design enhances agility.
- 10. Simplicity the art of maximizing the amount of work not don is essential.
- 11. The **best architectures**, **requirements**, and **designs** emerge from **self-organizing teams**.
- 12. At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.

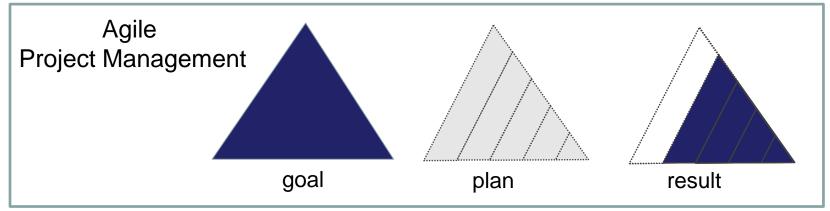
Source: www.agilemanifesto.org





Principle of the small pyramid









In **rugby** a **scrum** is a **means** of restarting play after a minor infringement. It involves up to eight players from each team, known as the pack or forward pack, binding together in three rows and interlocking with the free opposing teams forwards.

4.3 SCRUM



Reference document

The Scrum Guide™

The Definitive Guide to Scrum:
The Rules of the Game

November 2017



Key Schumber

Developed and sustained by Scrum creators: Ken Schwaber and Jeff Sutherland

http://www.scrumguides.org/

Last version: Nov-2017

19 pages



Scrum in 100 words

- Scrum is an agile framework that allows us to focus on delivering the highest business value in the shortest time.
- ▶ It allows us to rapidly and repeatedly inspect actual working software (every two weeks to one month).
- The business sets the priorities.
 Teams self-organize to determine the best way to deliver the highest priority features.
- ➤ Every two weeks to a month anyone can see **real working software** and decide to release it as is or continue to enhance it for another sprint.



The Scrum process



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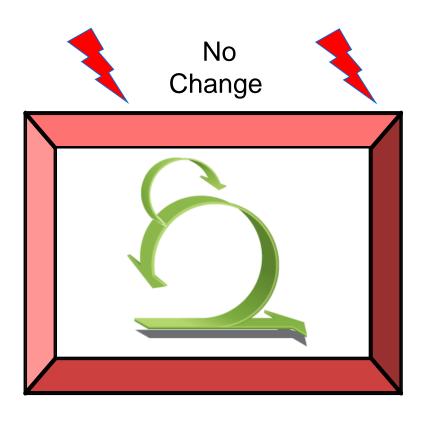


Sprints

- Scrum projects make progress in a series of "sprints"
- Typical duration is 2–4 weeks or a calendar month at most
- ➤ A constant duration leads to a better rhythm
- Product is designed, coded, and tested during the sprint



No changes during a sprint



Plan sprint durations around how long you can commit to keeping change out of the sprint



Scrum framework

Roles

- Product Owner
- Scrum Master
- Team

Ceremonies

- Sprint planning
- Sprint review
- Sprint retrospective
- Daily scrum meeting

Artifacts

- Product backlog
- Sprint backlog
- Burndown charts



Scrum framework

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- Sprint backlog
- Burndown charts



Product owner

- Defines the features of the product
- Decide on release date and content
- ▶ Be responsible for the profitability of the product (ROI)
- Prioritize features according to market value



- Adjust features and priority every iteration, as needed
- Accept or reject work results

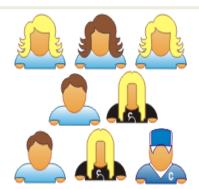
The Scrum Master

- Represents management to the project
- Responsible for enacting Scrum values and practices
- Removes impediments
- Ensure that the team is fully functional and productive
- Enable close cooperation across all roles and functions
- Shield the team from external interferences



The Scrum team

- Typically 5-9 people
- Cross-functional:
 - Programmers, testers, user experience designers, etc. Members should be full-time
 - May be exceptions (e.g., database administrator)
- ▶ Teams are self-organizing
 - Ideally, no titles but rarely a possibility
- ► Teams are responsible for the sprint results
- Membership should change only between sprints



Scrum framework

Roles

- Product owner
- ScrumMaster
- Team

Ceremonies

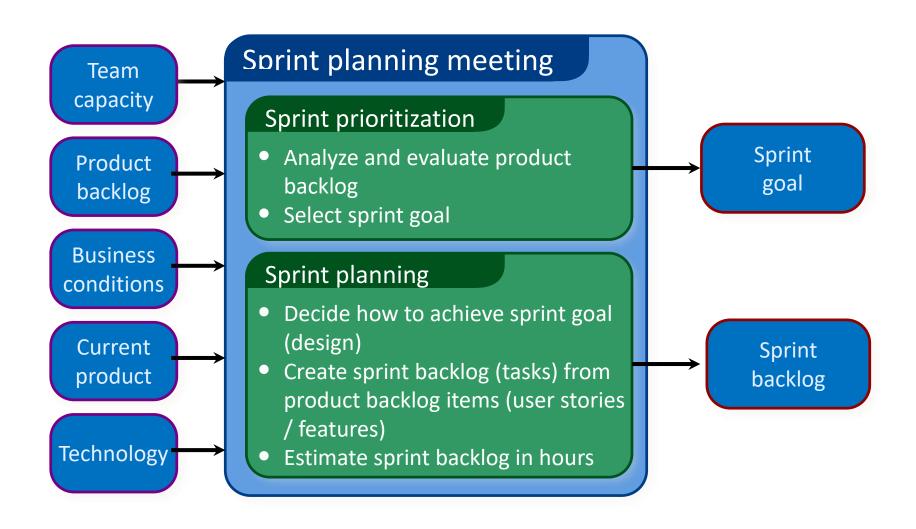
- Sprint planning
- Sprint review
- Sprint retrospective
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Artifacts

- Product backlog
- Sprint backlog
- Burndown charts



Sprint planning meeting





Sprint planning

- Team selects items from the product backlog they can commit to completing
- Sprint backlog is created
 - Tasks are identified and each is estimated (1-16 hours)
 - Collaboratively, not done alone by the ScrumMaster
- High-level design is considered

Business requirement:

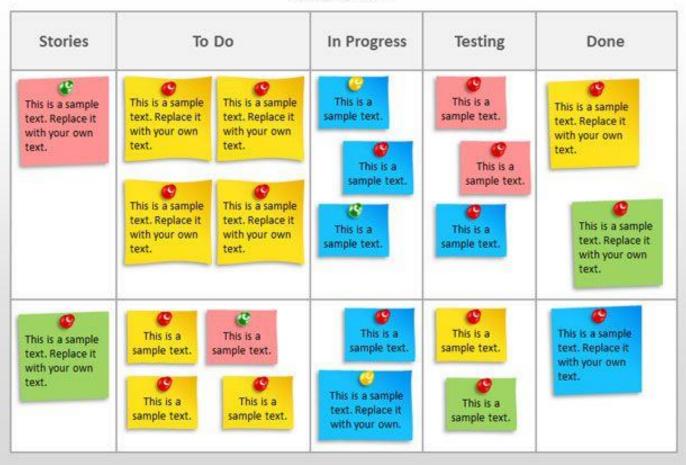
 As a vacation planner, I want to see photos of the hotels. Code the middle tier (8 hrs)
Code the user interface (4 hrs)
Write test fixtures (4 hrs)
Code the foo class (6 hrs)
Update performance tests (4 hrs)



Managing the sprint backlog

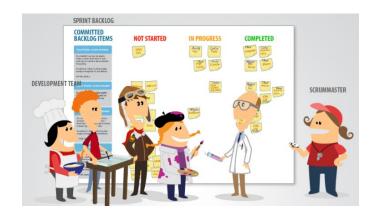
Scrum Task Board Template

Company name



The daily scrum

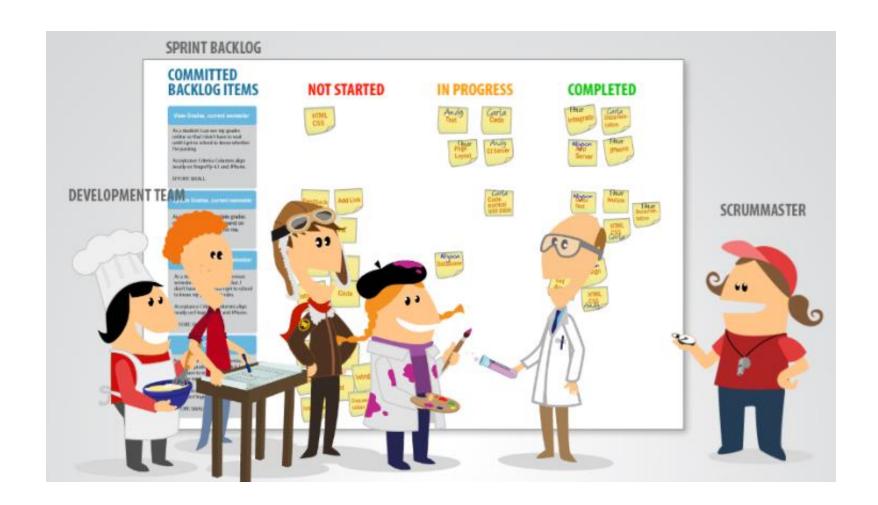
- Parameters
 - Daily
 - 15-minutes
 - Stand-up



- Not for problem solving
 - Whole world is invited
 - Only team members, Scrum Master, Product Owner, can talk
- ► Helps avoid other unnecessary meetings



The daily scrum





Everyone answers 3 questions

What did you do yesterday?

What will you do today?

Is anything in your way?



The sprint review

- ► Team presents what it accomplished during the sprint
- ➤ Typically takes the form of a demo of new features or underlying architecture
- Informal
 - 2-hour prep time rule
 - No slides
- ▶ Whole team participates
- Invite the world



Sprint retrospective

- Periodically take a look at what is and is not working
- Typically 15–30 minutes
- Done after every sprint
- ➤ Whole team participates
 - Scrum Master
 - Product owner
 - Team
 - Possibly customers and others



Scrum framework

Roles

- Product owner
- ScrumMaster
- Team

Ceremonies

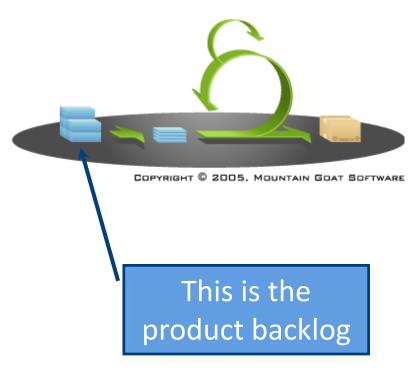
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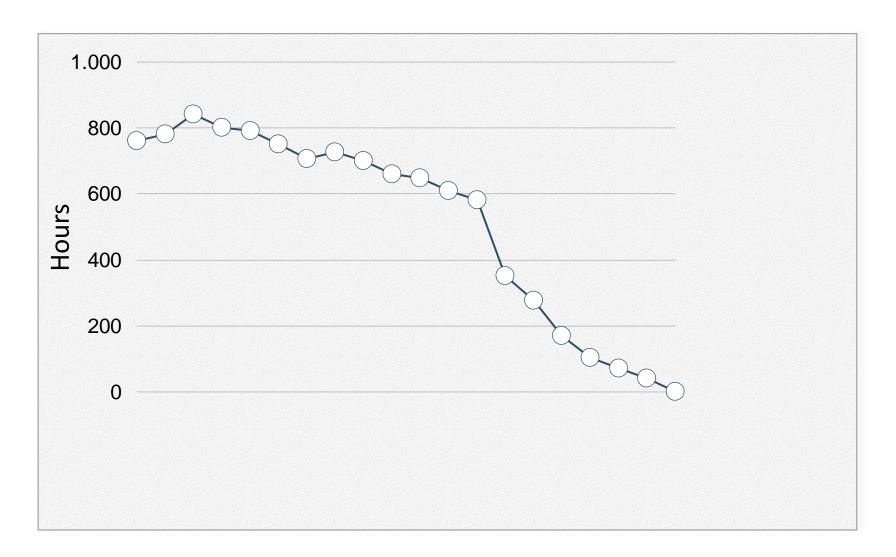
Product backlog



- The requirements
- A list of all desired work on the project
- Ideally expressed such that each item has value to the users or customers of the product
- Prioritized by the product owner
- Reprioritized at the start of each sprint



A sprint burndown chart



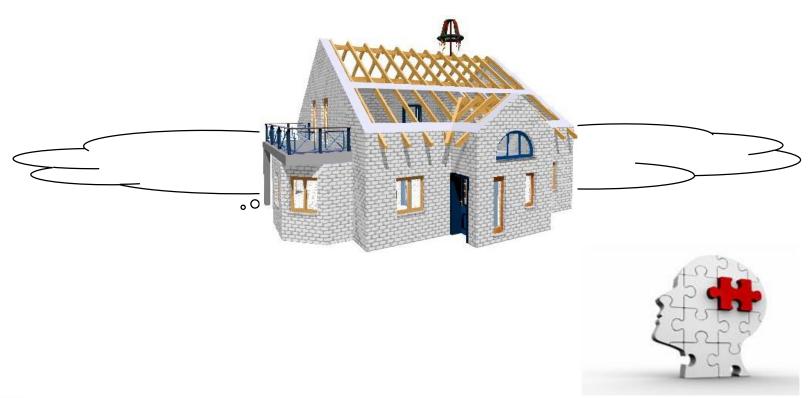


4.4 OBJECTIVES



What are objectives?

An objective is a mental anticipated future state



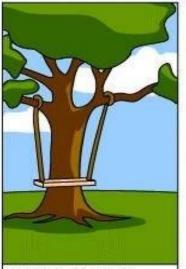


The importance of right objectives

Source: www.projectcartoon.com



How the customer explained it



How the Project Leader understood it



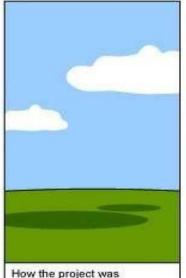
How the Analyst designed it



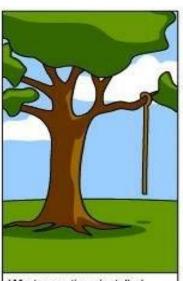
How the Programmer wrote it



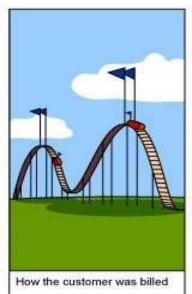
How the Business Consultant described it

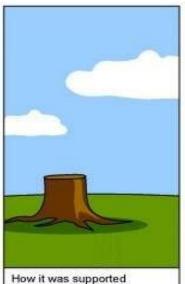


documented



What operations installed



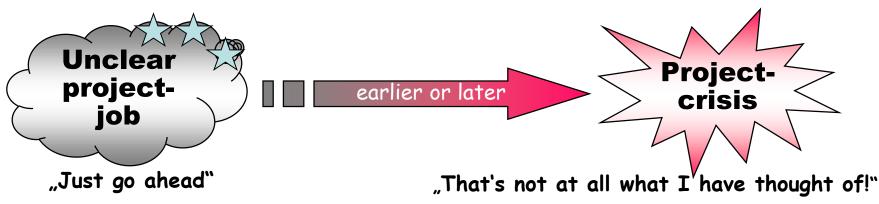




needed

Clarification of the project objective is particularly important

Great sin in Project Management:
"Vague or insufficient defined project objectives"



Project manager is responsible for the detailed description:
"What should be achieved with the project?

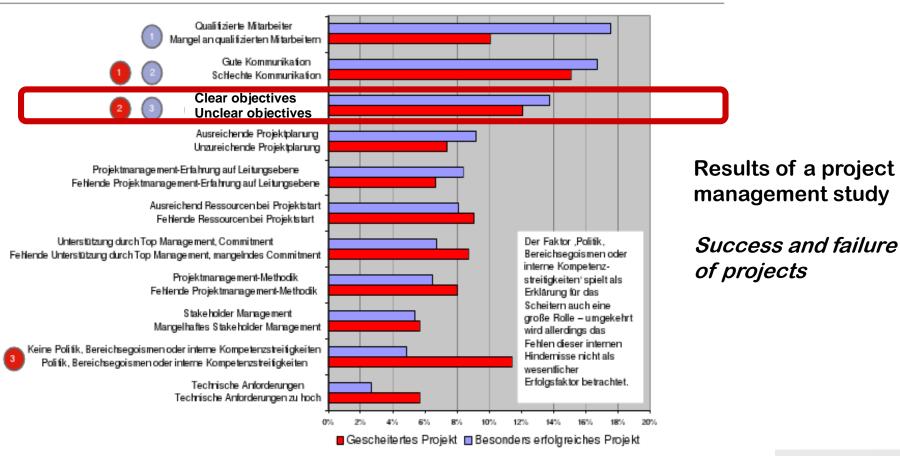
What is the aim of ..."

The exact definition of the objectives at the start of a project is a **key success factor**



Meaning of objectives for project success

Communication, definition of objectives and the qualification of the employees determine the success (or failure) of the projects most frequently

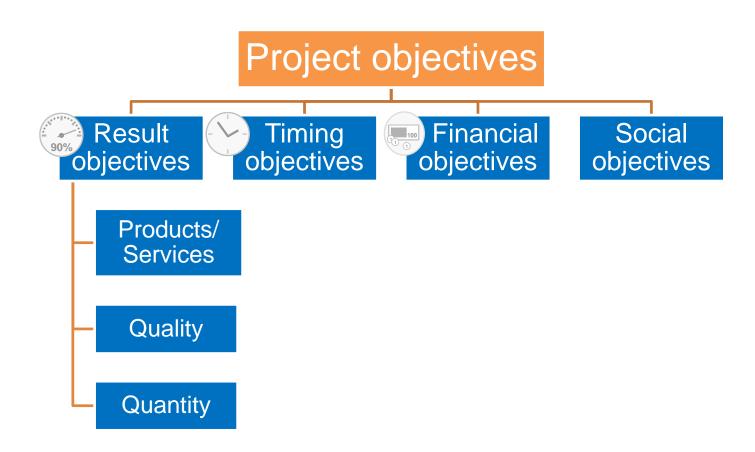


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Types of objectives





Objective prioritization: must and can goals

Project objectives

Must goals

Goals, which have to be achieved **completely** while project progressing. If the goals won't be achieved, the project has **failed**.

Can goals

Desirable goals.
If they won't be achieved, the project is **not failed.**

This categorization can help prioritizing in bottleneck-situations of a project

- Priority 1: Must goals
- Priority 2: Can goals



Non objectives for demarcation of the project scope

For demarcation of the project scope also the "Non objectives" must be determined

- "Non-objective": What is **NOT** part of the Project (Explicit exclusion of objectives)
 - To create clarity
 - To prevent unnecessary conflicts

Example of "Non objectives"

- The maintenance of the software product is NOT part of the project
- The rollout of the new software is NOT part of this project.
 The rollout takes place in a follow-up project.
- The planning, organisation and support of the trade exhibition is NOT part of the congress project. The project manager of the trade exhibition is Mrs. Maren Meier.



Examples – Compare these two objectives!

A: Develop as fast as possible a new version of our control software

B: Version 2.0 of the control software for the VarioChartXL product must be available in series production by November 30, 2019



Objectives: Formulation

specific - simple and understandable

M easurable - definite indicators

- measure if objective has been achieved or not

A ccepted - achievable

- can be influenced & possible from social point of view

R ealistic - relevant

imeable - time bound /defined deadline

Further criteria:

- Completely
- Unambiguously
- Positively
- Result-oriented
- Solution-neutral
- In achievement-oriented language (,...is achieved")



Example: Objectives (Auto-Update News website)

Project objectives

(results/deliverables, timing, financial, social)

- 1. Result:
 - No human administrators, autobot does everything
 - Access time: low (fast site loading)
 - Reliable news
 - Beautiful User Interface (UI)
 - Great User Experience (UX)
- 2. Time:
 - a. 3 months for doing survey for customer's interest
 - b. 1 month for designing UI and finding host/data service
 - c. 3 month for building and coding website
 - d. Release and advertise it to as many people as possible
- 3. Financial:
 - Host/data service: 2,000,000 VND
 - UI design: 8,000,000 VND
 - Code: 6,000,000 VND
 - Marketing: 4,000,000 VND
- 4. Social:
 - Provide a fast and convenient news sharing website



Example: Objectives (Friends Nearby app)

	Project object	ives	1.	Result	
	(results/deliverables, timing,		•	Fast, smooth, reliable location detection	
	financial, social)		•	Update Google Map, Facebook database	
			•	Multi-platform application	
			•	Friendly interfacing (ads allowance)	
			•	Do not violate Facebook and Google Map policies	
			•	Friend list is sorted by distance between users and their friends	
			•	Tap to invite	
			•	Voice recognition	
			•	Meeting places suggestion	
			2. 7	Fiming	
			•	1st step: 1 month for preparation and plan	
			•	2 nd step: 6 months for developing main features (things must do)	
			•	3 rd step: 6 months for developing extended features (things can do)	
			•	4 th step: 1 year for product promoting	
			3.	Financial	
				\$3000 per month in first 6 months	
			4.	Social	
			•	Feedback from user > 4/5 stars	
			•	100 000 active users per month	
	Non objectives		•	Maintenance application product	
			•	Update to fix minor errors and improve quality	
	Times	Duration	1 ye	ar and 1 month	
II Ü		Start date	1/3/2	2016	
U		Finish date	1/3/	2017	

Workshop "Objectives"

- Teams develop **objectives** for their project
 - Result objectives
 - Time objectives / milestones
 - Financial objectives
 - Social objectives
 - NON objectives
- 2. Review
 - SMART verbalization of objectives
 - Completeness of the objective catalogue

Time: 0 minutes



Workshop "Objectives": Results

1 Result objective:

- Friendly interface

- Don't need doctors to

- Collect data: 200 \$

Survey for diggerent type

diagonise common diseases

- Accuracy: 99%

- Diagnosing using AI service and build library (2 month) - Advertising: 1000\$

- 3rd step: modeling & coding

(3 months)

- 4th step: complete product,

advertising & selling (3 months)

4. Social the Social the Help patients to have more time to research new dismans.

5. Man-objective

- Update to fix errors

- Joint trade exhibition to odvertise product

