

Agility meets Product Management

Scaling up agility in the organization

Slide 1 17. Oktober 2012

Rainer Grau, Zühlke

Context of work ...



Director and Partner Zühlke Group (S)PM, RE, Lean, Agile, Change Mgmt Trainer, Coach, Mentor, Advisor Working with

- **SwissICT**



...and experiences working with clients





hearing systems



























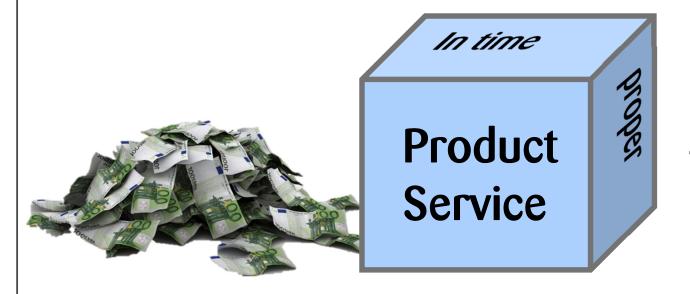
Agenda

- Products
- The Knowledge Worker's Job
- Organizational Context Levels
- Good practices (not best practices)
- Change Management
- Products

What we really want to build are...

Products...

...and gain benefits...



low TCO

Total Cost of

Ownership
low

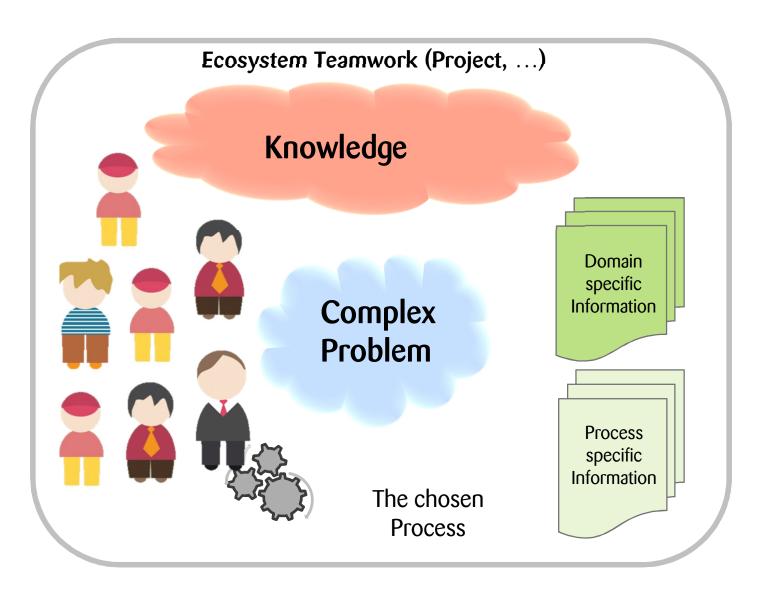
low

Let's start

with...

The Knowledge Worker

Individuals working as team (?) to build 'something'



Actually, Knowledge Worker work on a...







Complex Problem







Attributes of a complex problem

Huge number of variables

Tight coupling between variables

Complex Problem

Many stakeholders with many wishes

Dynamic changing context

Statements to remember



There is no closed, plan-driven solution for a complex problem

The Deming PDCA feedback cycle applies → iterative processes are best suited to solve complex problems

Knowledge Worker? So, what is...



Knowledge is...

Linking of Information items

Make information-networks accessible

Knowledge

Apply knowledge and create value



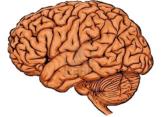
Knowledge is bound this specific context

Now we come to the point ... two types of knowledge

Tacit Knowledge
...as the efficient form of
Knowledge

volatile





durable

Explicit knowledge requires extra effort



Information

Statements to remember



Knowledge is bound to a context

Knowledge is acquired in the heads of people

Tacit and shared knowledge is the efficient form of knowledge

Knowledge Work is the way...

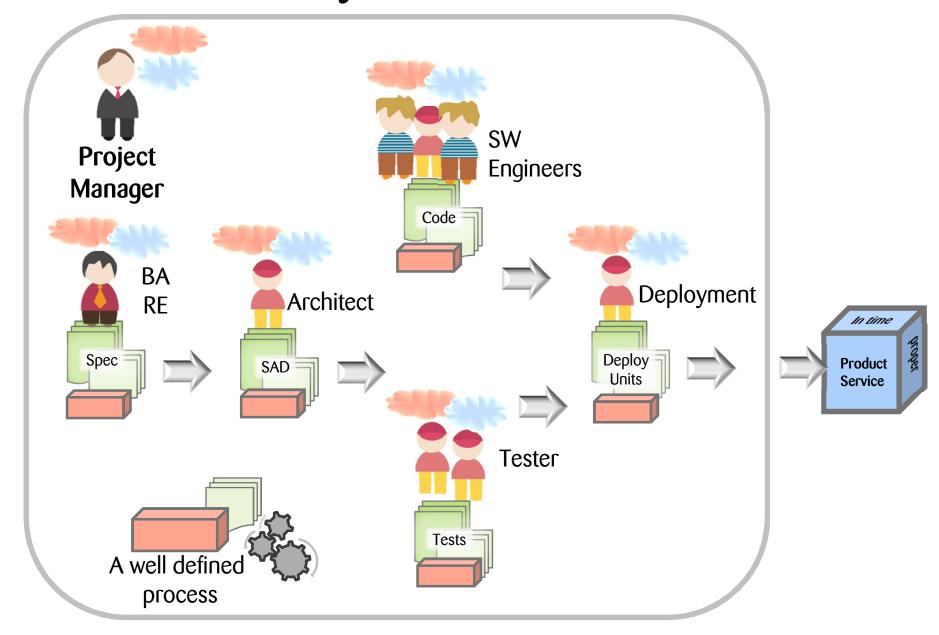
Identify and close knowledge gaps feedback, iterative, learning, experiment

...solving a Complex Problem

So, what process type supports efficiency better?

...reflection...

The waterfall life cycle?



Or an iterative approach based on feedback loops? Product Manager SAD Spec Knowledge Deploy **Product Vision Product** Units Service **Complex Problem Tests** Code

Statements to remember



Documentation (of any form) holds information not knowledge

Maximize the amount of tacit knowledge

Really think about the required amount of explicit knowledge

Three Organizational Abstraction Levels

Strategy defines what we want to sell



Today

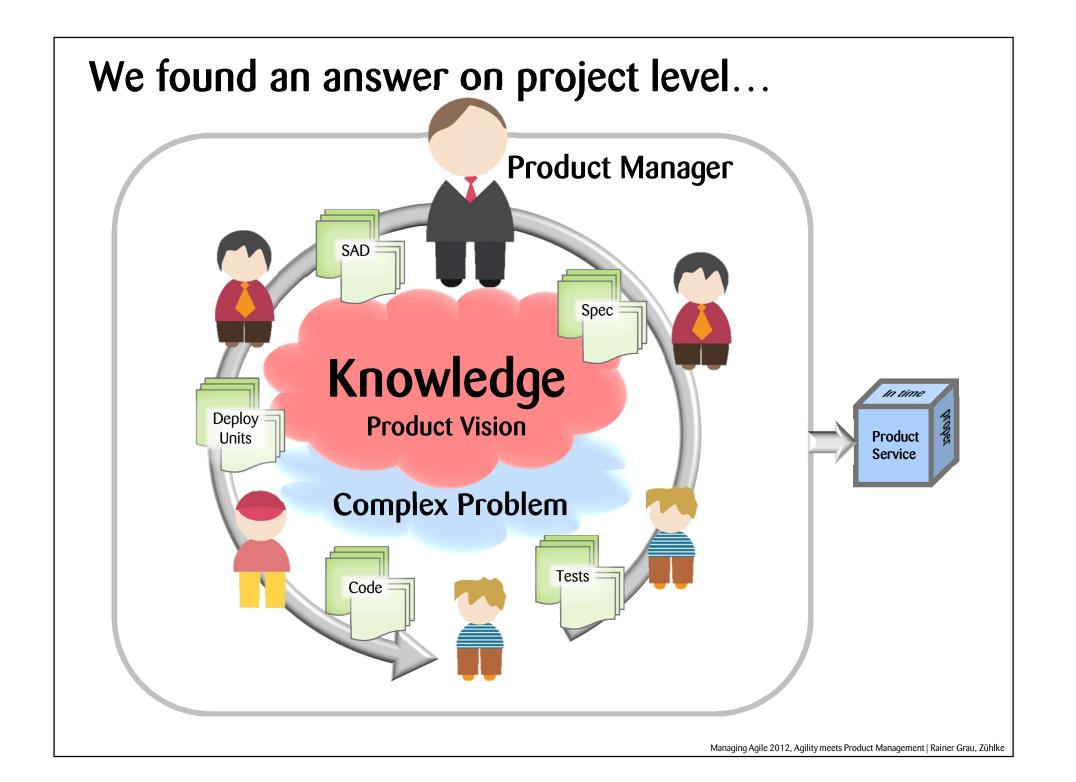
Tomorrow

The Product Roadmap is the tactical implementation

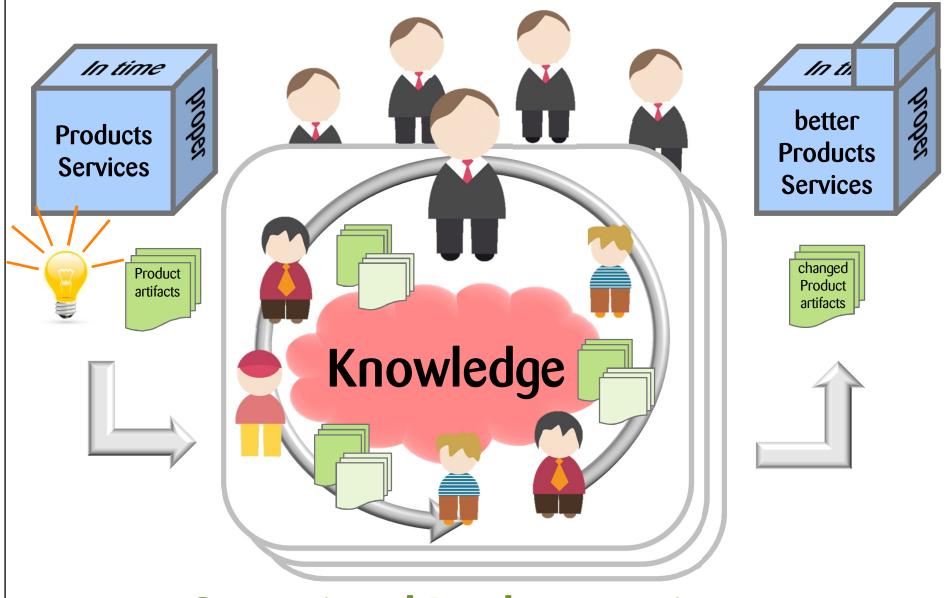


Project are the Operational Implementation Boss **Strategy** revised In time Vision **Product Portfolio Management** better **Products Product Roadmapping Products Services Services Product Manager Vision Tactics** Project Portfolio Management Product changed artifacts **Product** Project artifacts **Product** artifacts **Project Professionals** artifacts

Operational Implementation

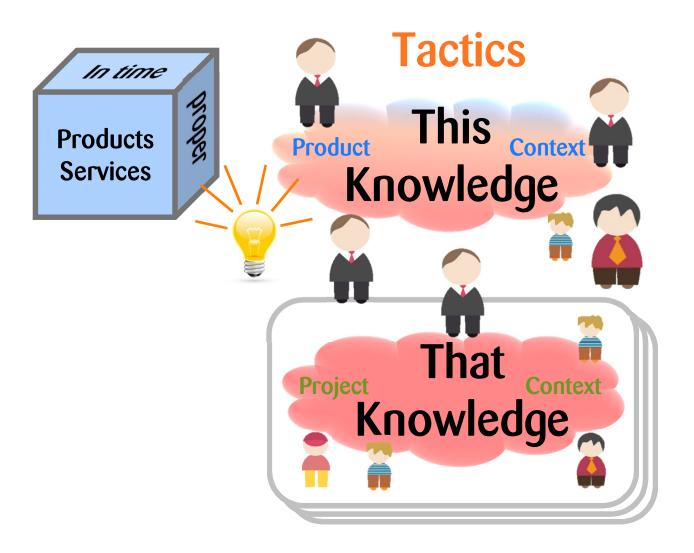


But what about the tactical level ??!!



Operational Implementation

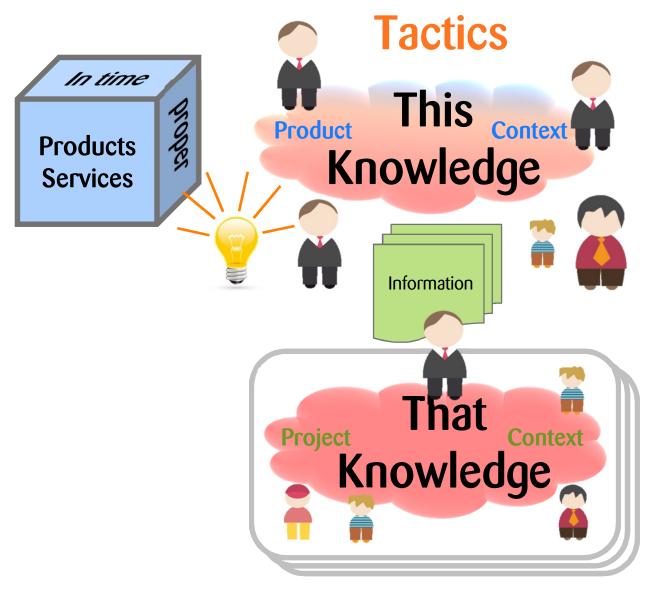
Two different context areas !!

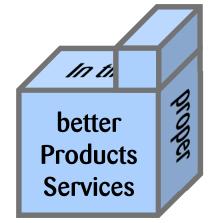




Operational Implementation

Shared information – but different knowledge!!





Operational Implementation
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Statements to remember

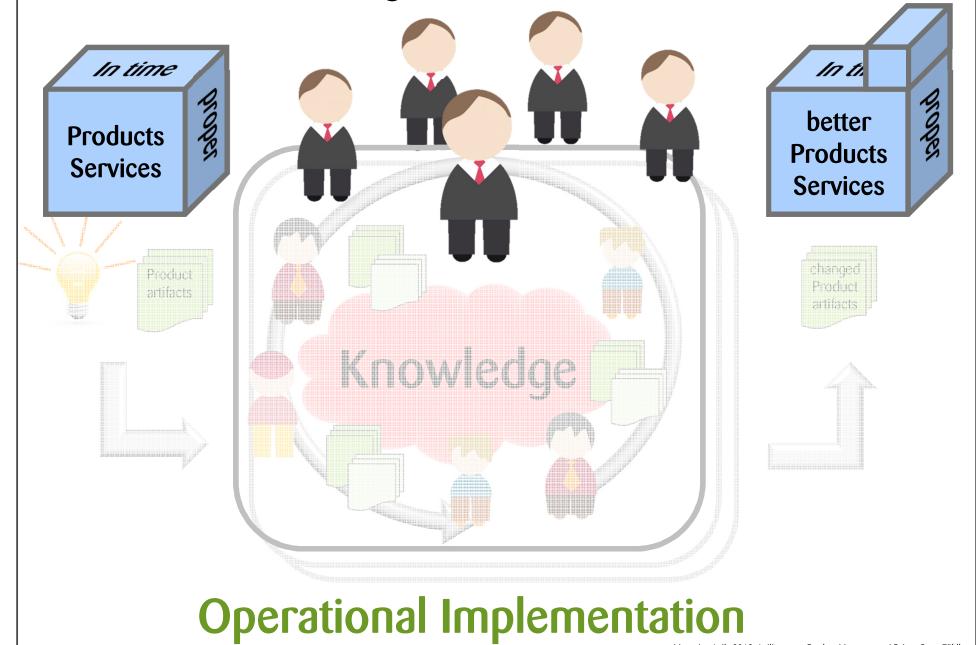


Each organizational level exists in its own context with an specific knowledge

Shared information (documentation) is not equal to shared knowledge

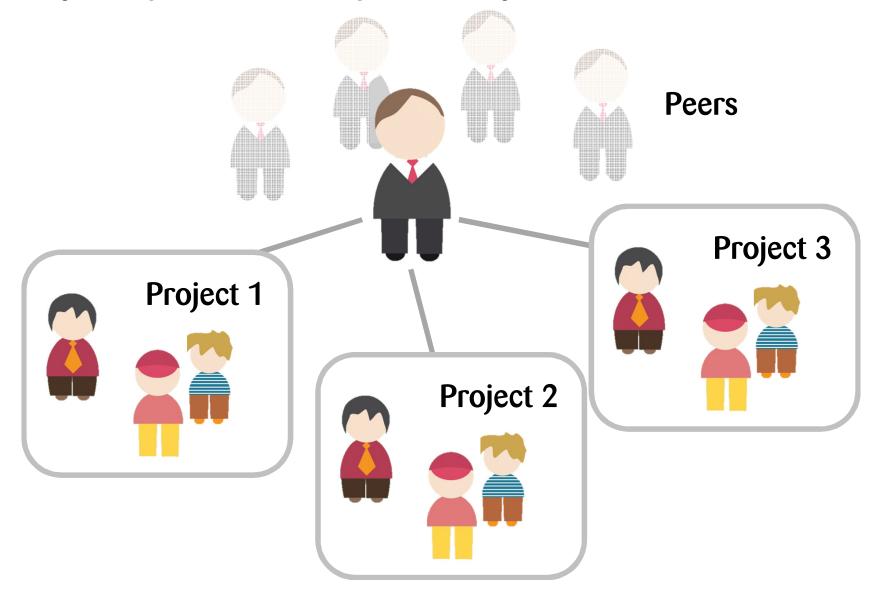
Let's have a look on the ... In time better **Products Products Services Services** changed Product **Product** artifacts artifacts Knowledge **Operational Implementation** Managing Agile 2012, Agility meets Product Management | Rainer Grau, Zühlke

...individual existing in two context areas

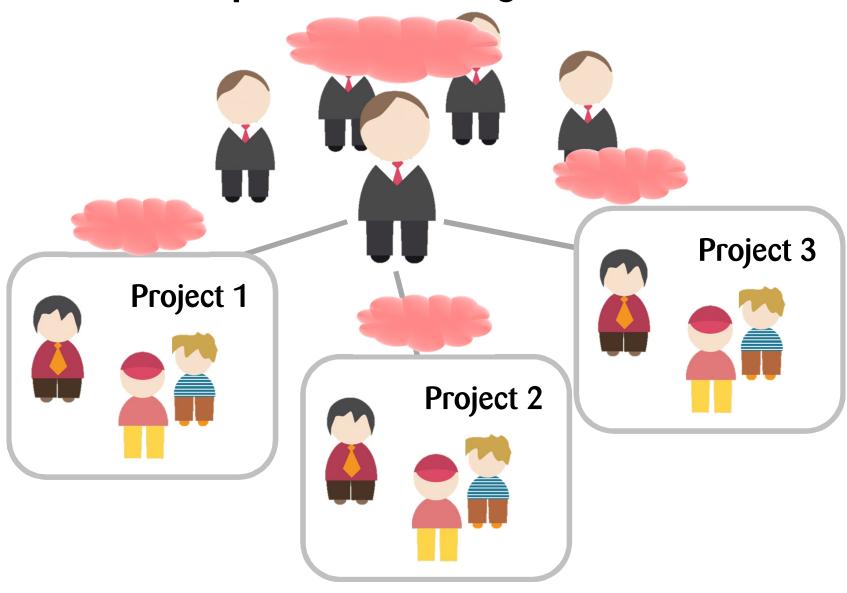


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Every single one living in many context areas



Hard to build up tacit knowledge...



Hard to establish feedback loops Project 3 **Project 1** Project 2

Statements to remember



Carefully select information that is shared in different context levels

Reduce complexity (i.e. amount of information) on tactical level

Establish feedback loops above project level

Statements to remember



Care for well balanced setup of tacit versus explicit knowledge in teams and organizational levels

care for context specific repositories

...and yes: managers (of any kind) are hit by permanent context switches

Methods and Techniques

There are **Best Practices...**

existing body of knowledge

available resources

existing tooling support

Scrum

Just use them!!

ATTD

Kanban

user stories

user centric design

small iterations

continuous integration
KISS

emerging architecture

pair programming

refactoring

...and many more...

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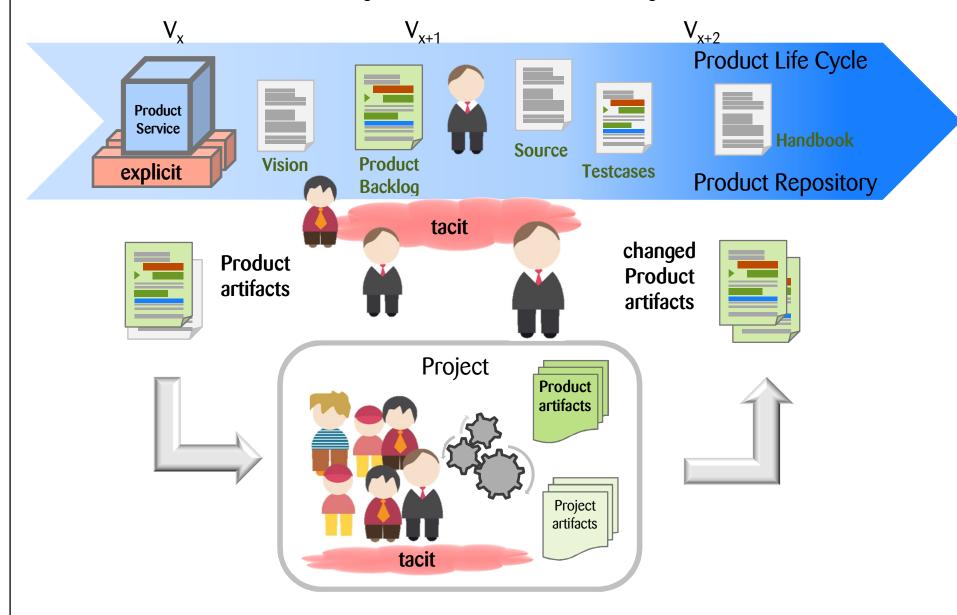
There are Good Practices...

Find, shape and establish your good practices!!

Let's have a look at some methods and techniques...

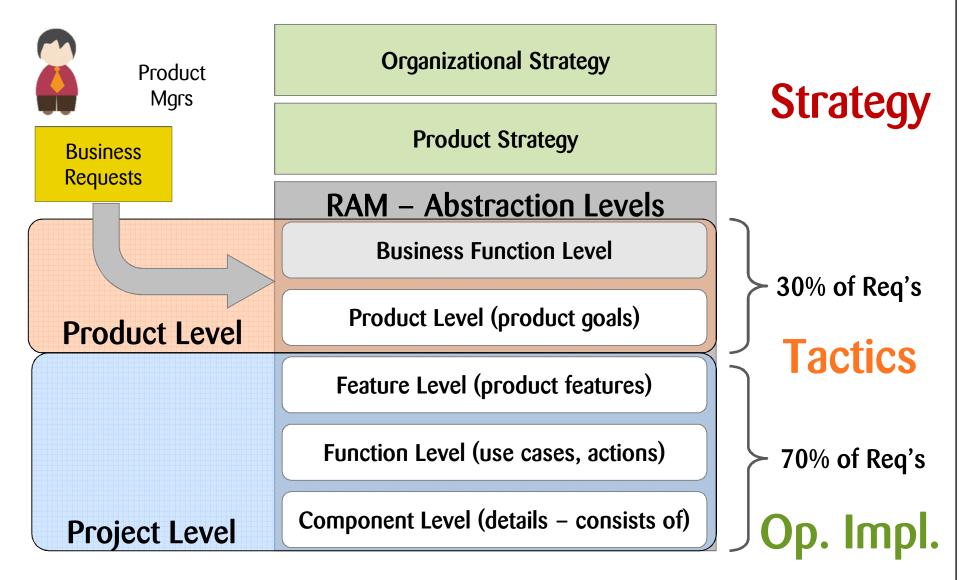
Identify Products and build up Product Repositories

See as well: Product Master Data Management, Product Meta Data Management



Concept: Requirements Abstraction Model RAM

See: http://gorschek.com/doc/publications_files/A05_RAM.pdf, University Blekinge



Concept: Lean RAM

See: http://fileadmin.cs.lth.se/cs/Education/Examensarbete/Rapporter/2008/Vetart_2008-27.pdf

Orga	nizat	ional	Strategy
- 3-			

Product Strategy

Mapping of RAM abstraction levels to agile terms

Business Function Level

Visions

Product Level (product goals)

Themes

Feature Level (product features)

Epics

Function Level (use cases, actions)

User Stories

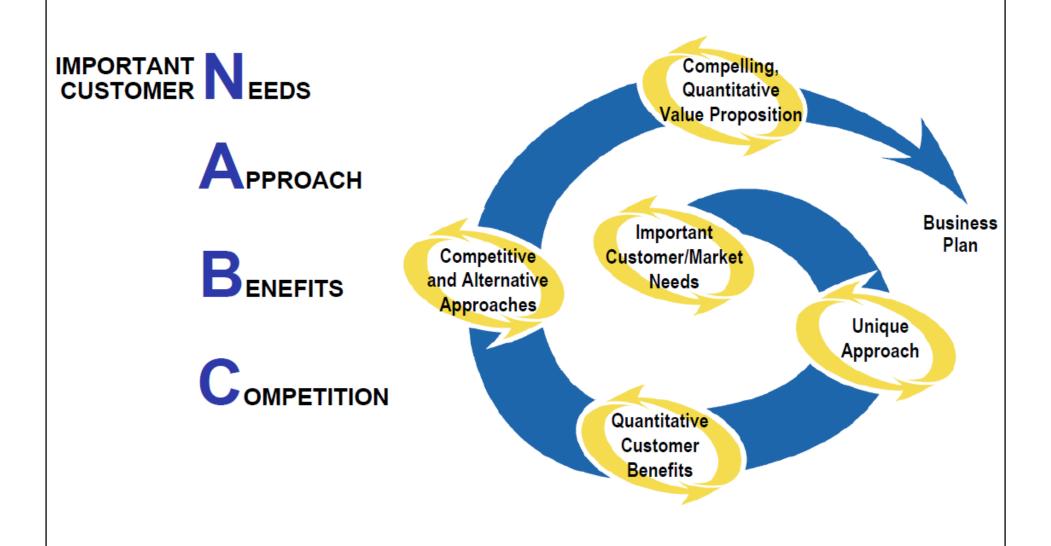
Component Level (details – consists of)

Tasks

Method: NABC by Stanford University

See: http://www.stanford.edu/class/educ303x/wiki-old/uploads/Main/SRI_NABC.doc

Workshop Technique to establish tacit knowledge and create clear product vision

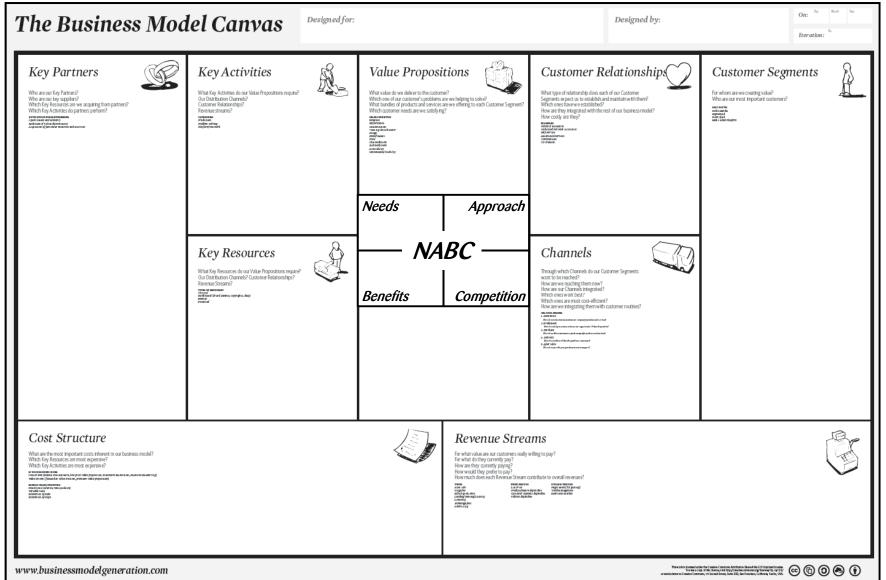


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Technique: Business Model Generation

See: http://www.businessmodelgeneration.com/canvas and http://alexosterwalder.com

Toolbox and visual communication method to describe and sharpen business models



Explicit Knowledge: Working with Visions, part I

See: RUP (vision), Scrum (Vision, Sprint goal), Microsoft MSF – agile Template, ...

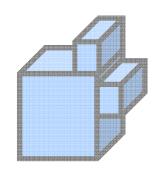
SSNiFs source: http://stealthisidea.com/articles/ssnifs/

Stakeholder (user/customer)	Situation	Need	Feature/Solution
Daily mass transit commuter	Commutes daily for 60 minutes or more by bus or train. Long, repetitive journey becomes boring.	something to make the idle time more stimulating, fun, enjoyable, or enriching.	Portable audio player with headphones (eg. iPod, walkman)
Air traveler	On a long plane ride. There is a lot of idle time.		Exambia
Fitness buff	Running or working out gets boring without something to occupy the mind, making it hard to stay motivated.	SSNIF	s Example
Teenager	Has a lot of free time on his hands. Musical preferences are a part of their social identity. Effective brooding demands physical, sonic and symbolic isolation.	a way to listen to parent-repelling music at high volumes without getting yelled at.	

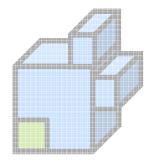
Explicit Knowledge: Working with Visions, part II

















3 months vision

6 months vision

1 year vision

3 years vision

Product Roadmapping:

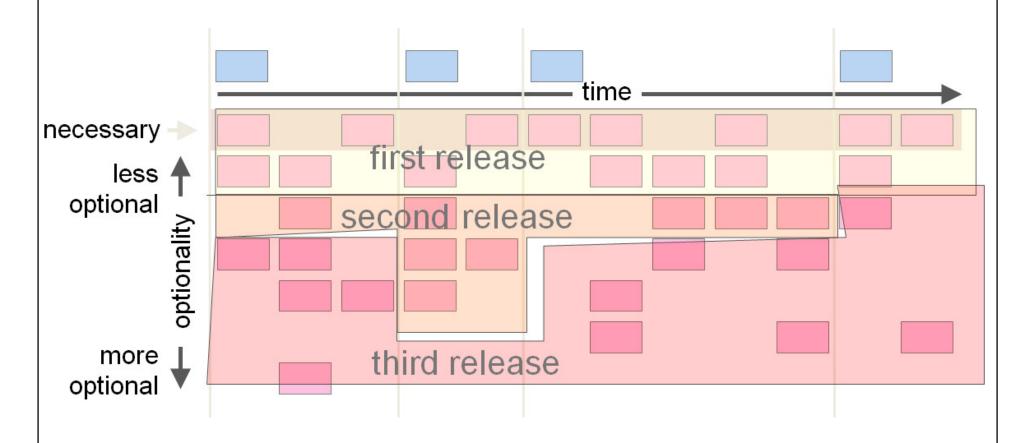
Implemented as continuous process on product level

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Method: Story Mapping

See: http://www.agileproductdesign.com/blog/the_new_backlog.html

Agile Roadmapping and Release Planning Method based on user stories and backlog management



Product Roadmapping: Alignment of Vision view (top-down) with Backlog view (bottom-up)

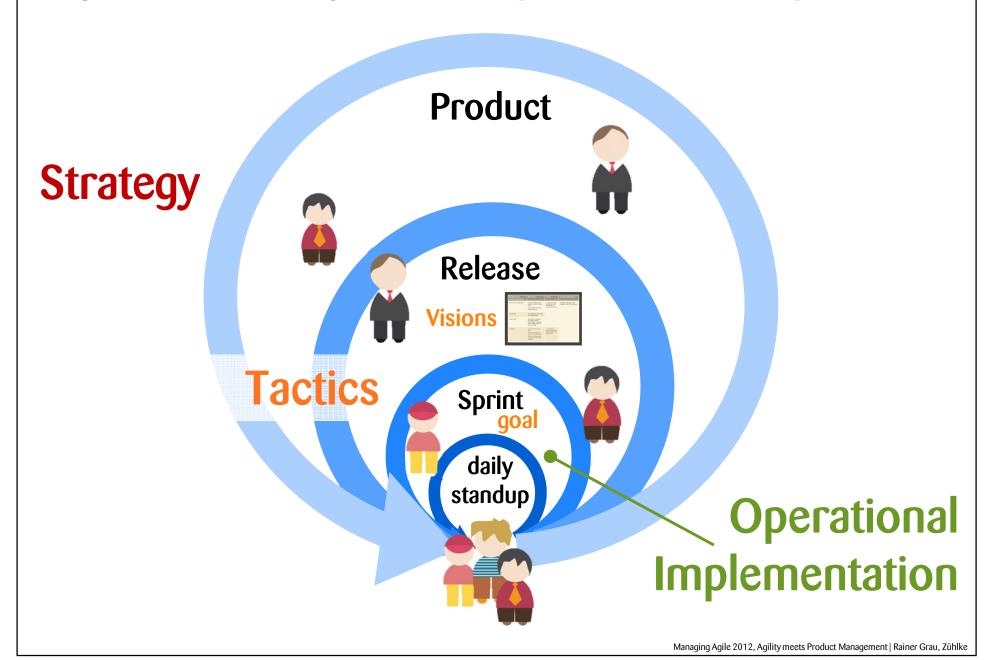
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Implicit Knowledge: Scale Up Feedback Loops

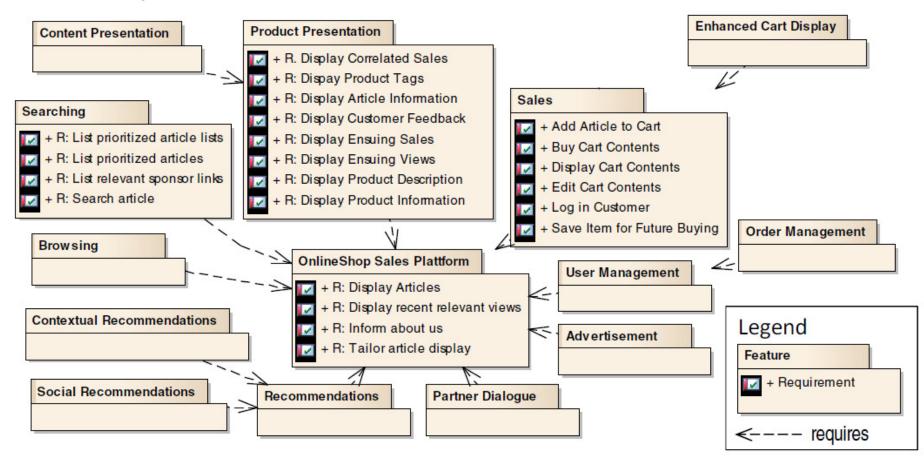


Concept: Feature Trees

See: http://www.bth.se/fou/forskinfo.nsf/alfs/f5649783f4f7f77cc125797b004b801b, University Blekinge

Supports Release Management, Product Backlog Grooming, Emerging Architecture In combination with and aligned to story mapping

OnlineShop Sales Solution



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...and many more good practices...

Statements to remember



Best practices are common ground - so just use them !!

Good practices is what works in your organization – try and develop them !!

...this is part of the complex problem – tacit knowledge – feedback – context game

Introducing lean product management requires...

Change Management

Your organization is of type complex problem...

Huge number of variables

Tight coupling between variables

Complex Problem

Many stakeholders with many wishes

Dynamic changing context

Develop your organization...

Product Management Today

Change Management

Lean / agile Product Management



top down decision
deep hierarchies
resource pools
functional organization
push principles



Respect the agile manifesto as well

Product Management Today

Change Management

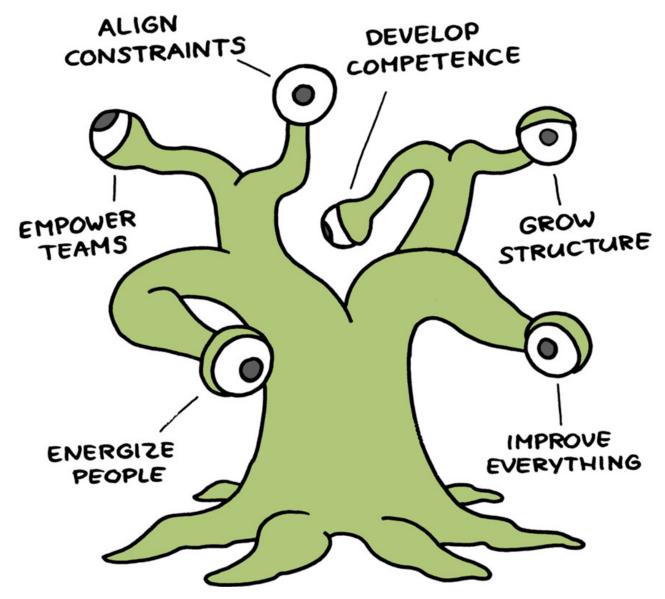
Lean / agile Product Management

Individuals and interactions over processes and tools

...will create tacit knowledge about your organization

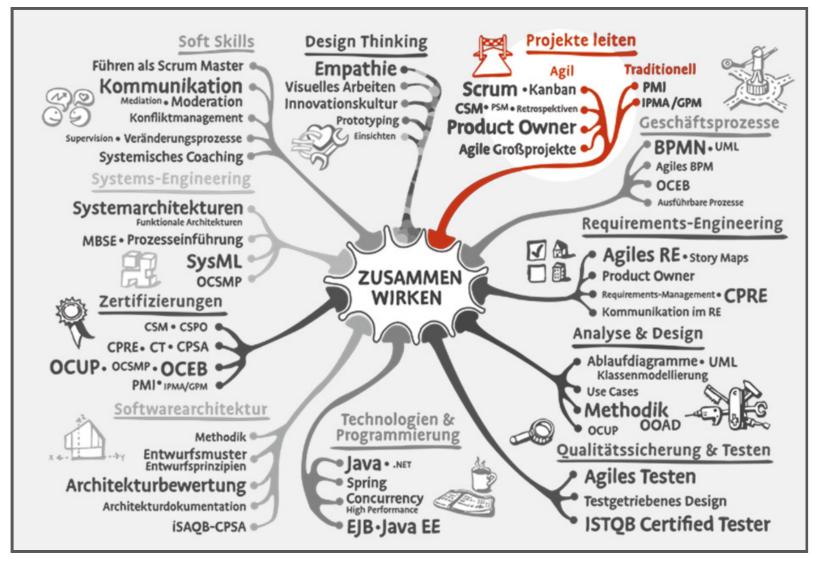
Culture and Change Mgmt: Management 3.0

See: http://www.management30.com/, Book by Jurgen Appelo, ISBN-13: 978-0321712479



Culture and Change Mgmt: Social Skills

See: Book "Soft Skills für IT-Führungskräfte und PL" by Uwe Vigenschow, Björn Schneider, Ines Meyrose, ISBN-13: 978-0321712479http://www.oose.de/publikation/?p_id=46157/,



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Statements to remember



Every single new method or technique implies a (minor or major) change

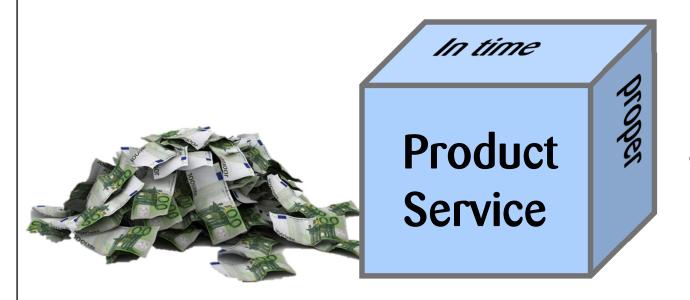
Change requires support

Effective change support comes from outside the context of change

This is a chance to build...

Products...

...and gain benefits with...





low