

Agile Requirements Engineering @ Digitec Galaxus

The agile and lean organization

One company two brands

The screenshot displays the digitec.ch website interface. The top navigation bar includes the logo, a search bar, and links for login, account, and cart. A left sidebar lists product categories such as Accessories & Cables, Audio & Hi-Fi, Cameras & Camcorders, Gaming & Gadgets, Navigation & Watches, Networking, Notebooks & Tablets, PC components, PCs & Servers, Peripherals, Printers & Scanners, Software, Storage, Telecommunication, and TV & Video. Below this, there are sections for 'Top 10 categories' and 'Go to' links for Sale, Vouchers, Promotions, and Current advertisements.

The main content area features a 'Offers of the week' section with a banner for SSDs, showing a price of 417.- for an Intel SSD 750 Series NVMe. To the right, there is a yellow banner for keyboards with a price of 79 / 100 pieces, dated Aug 23.

Below the SSD banner, there is a large promotional banner for 'Essenza Bettwäscheset-Ausverkauf' (Essenza Bed Linen Set Sale). The banner features a colorful quilted bedspread and a large '40% Rabatt' (40% Discount) graphic. The text on the banner reads: 'Angebote der Woche', 'Essenza Bettwäscheset-Ausverkauf', 'Profitiere jetzt von 40% Rabatt auf Essenza-Bettwäschesets!', and 'Abstimmen und Traum-Singlespeed gewinnen!' (Vote and win your dream Singlespeed!).

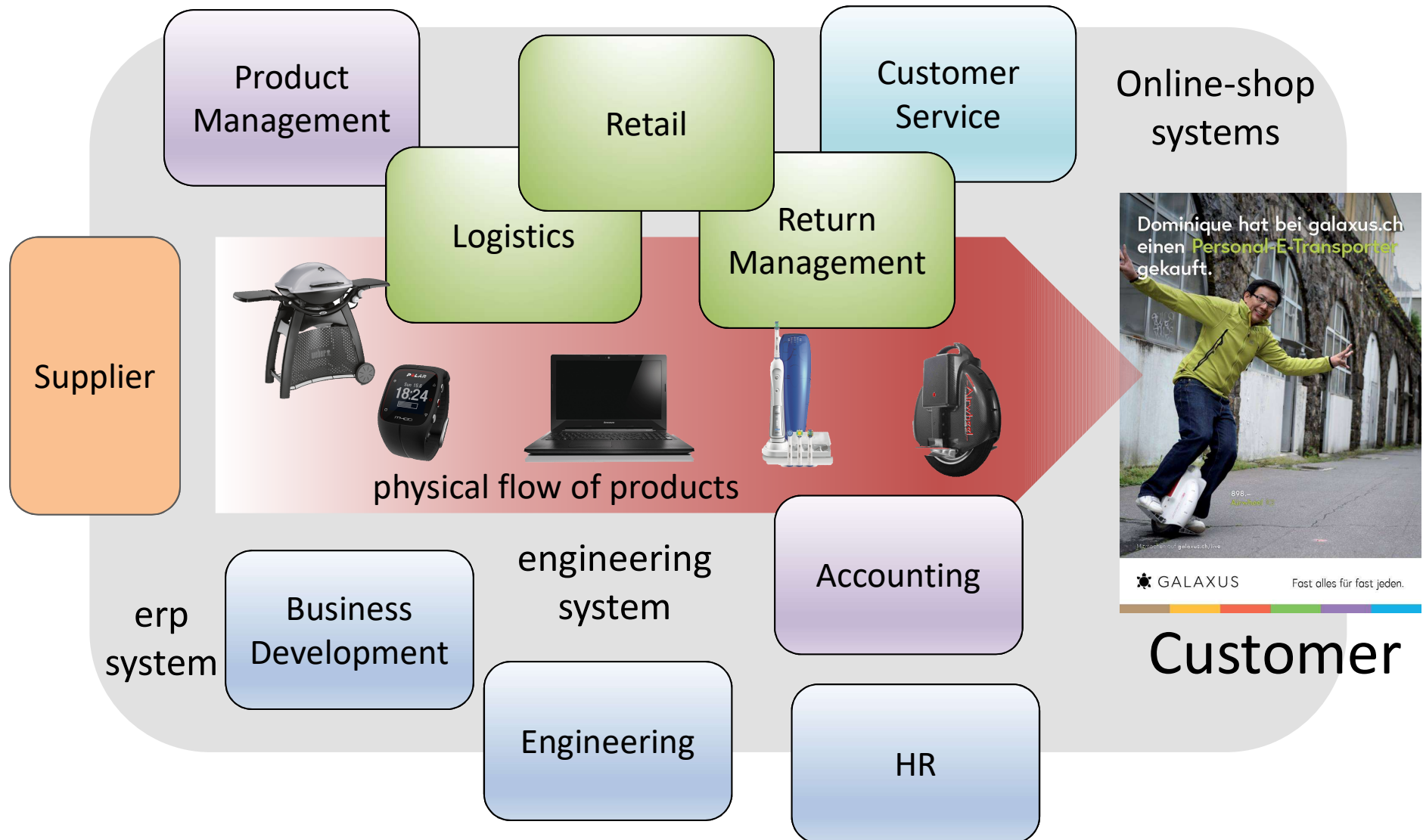
To the right of the bed linen banner, there is a yellow banner for a Krups toaster, showing a price of 20 / 23 Stk., dated Aug 23. The text on the banner reads: '20 / 23 Stk.', 'TOASTER', '55.- statt vorher 76.60³', 'Krups Fdk451 (Schwarz)', 'Angebote des Tages', and 'Zu den aktuellen Angeboten'.

Below the bed linen banner, there is a green banner for a JET tool set, showing a price of 'Bis zu 25% günstiger!' (Up to 25% cheaper!). The text on the banner reads: 'Werkzeugsets von JET bis zu 25% günstiger!', 'Gültig bis 09.09.15', and 'Bis zu 25%'. The banner also features an image of the tool set.

On the left side of the main content area, there is a sidebar with a 'Top 10 Kategorien' (Top 10 Categories) section, listing: LEGO, Zahnbürste Zubehör (Toothbrush Accessories), Elektrische Zahnbürste (Electric Toothbrush), Staubsauger (Vacuum Cleaner), Steckdosenleiste (Power Strip), Leuchtmittel (Light Bulbs), Stromadapter (Power Adapter), Standmixer (Blender), Bart- & Haarschneider (Shaver and Hair Clipper), and Zubehör Haarentfernung (Hair Removal Accessories). Below this, there is a 'Direkt zu' (Go to) section with links for Ausverkauf (Sale), Gutscheine (Vouchers), and Promotionen (Promotions).

At the bottom of the sidebar, there is a section for 'Current advertisements' featuring an ASUS VX2 monitor.

Organizational structure



RE @ Digitec Galaxus

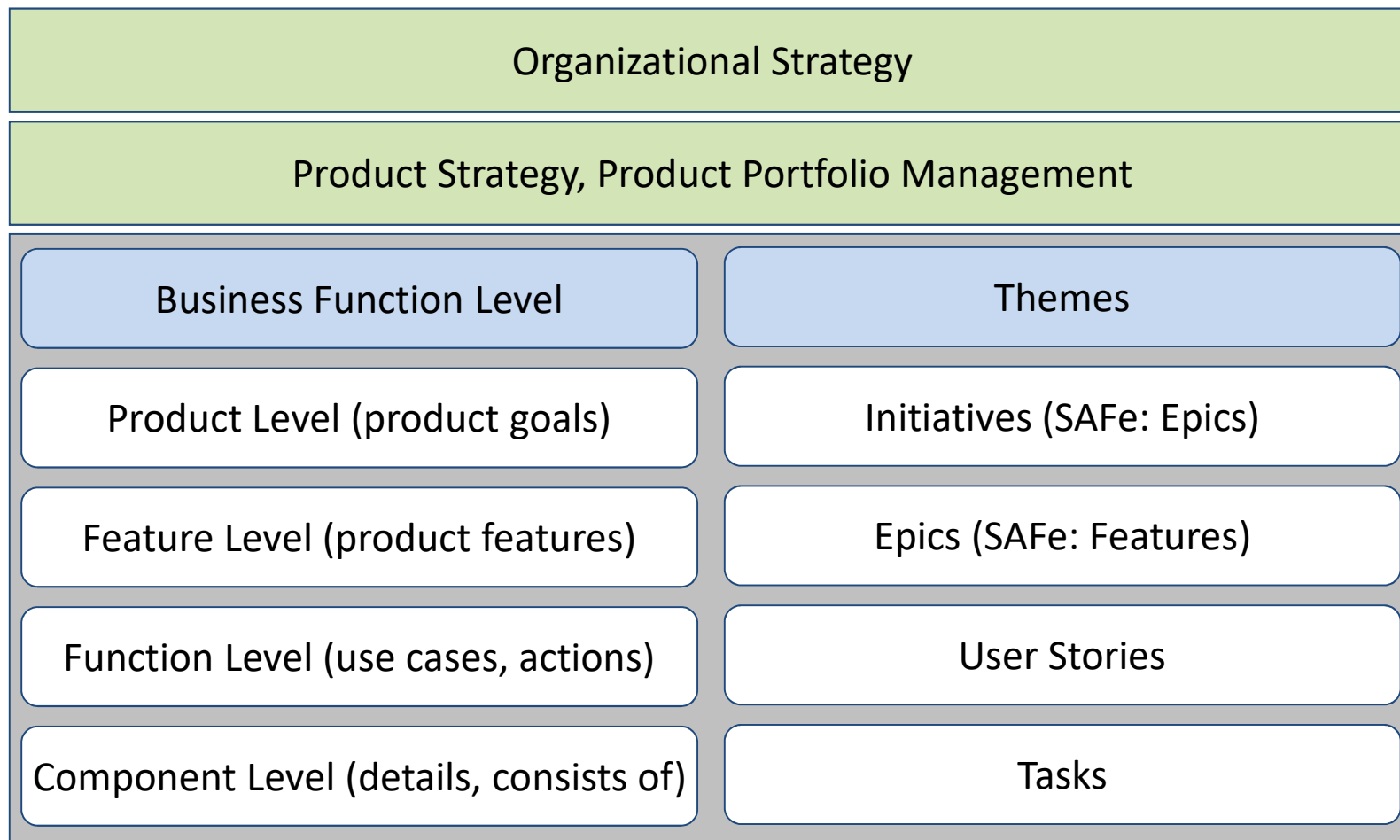
Abstraction levels,
process model & events

Organizational Abstraction Layers

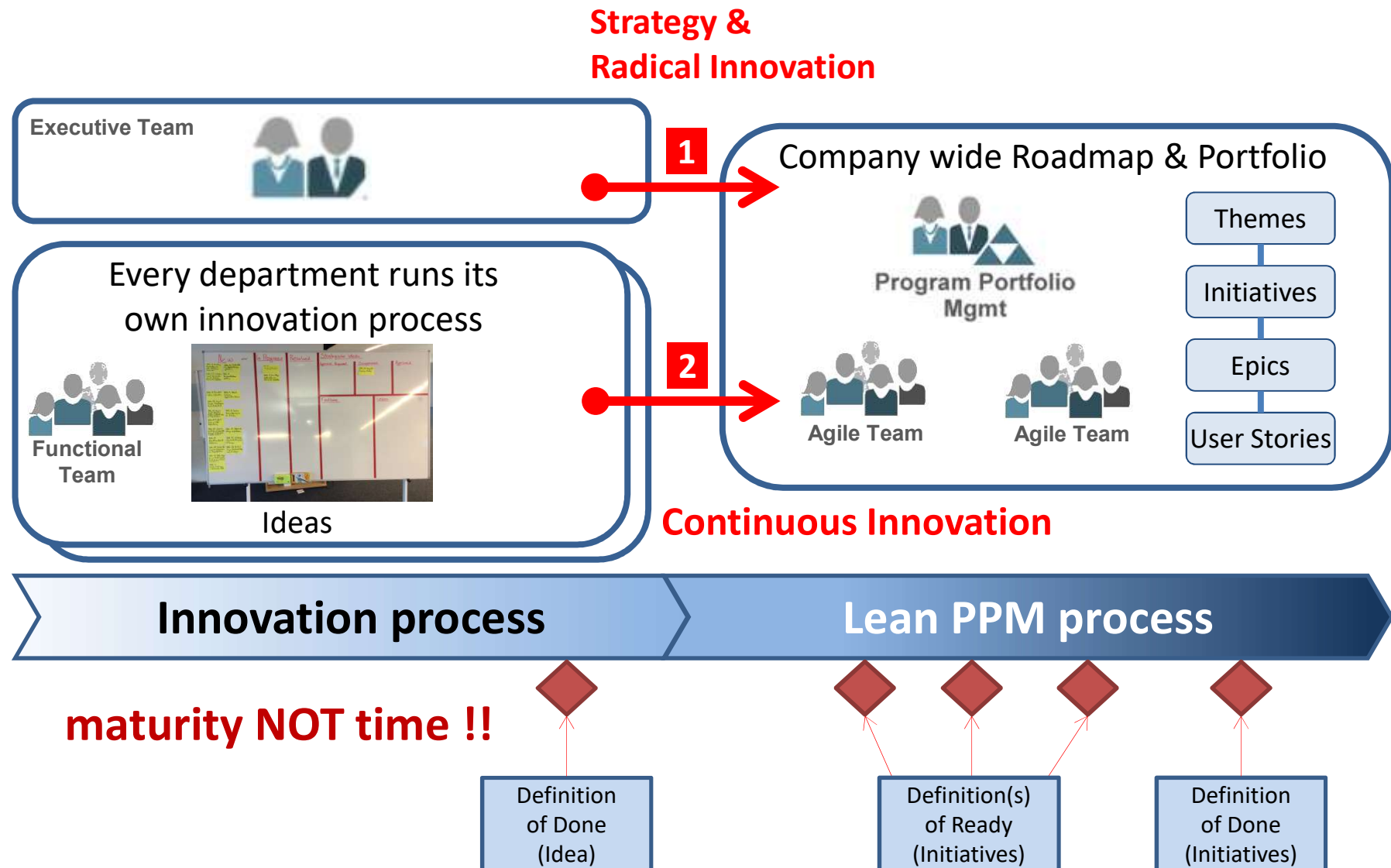


(agile) RE Abstraction Model

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



Innovation and PPM Process



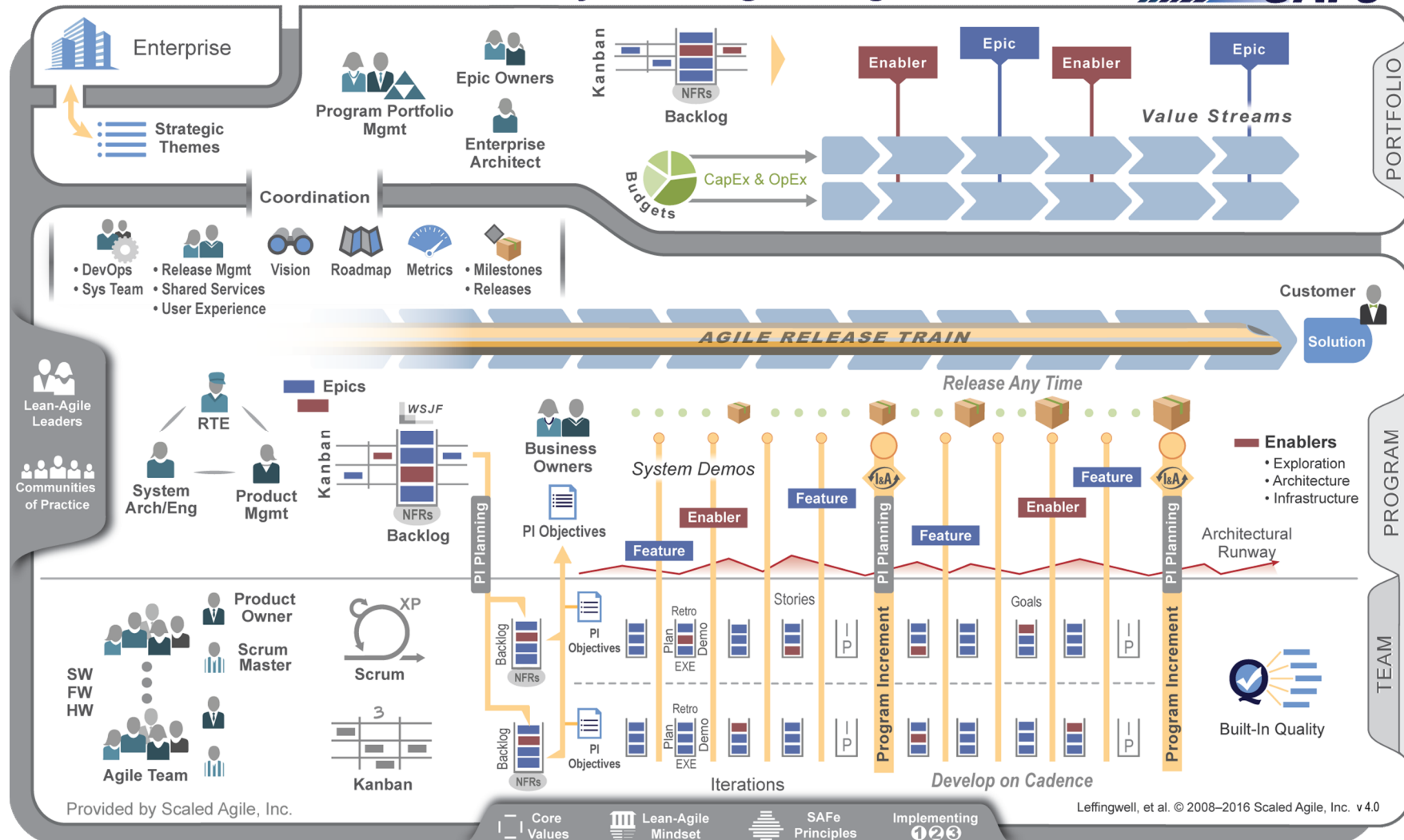
Department's innovation board

2



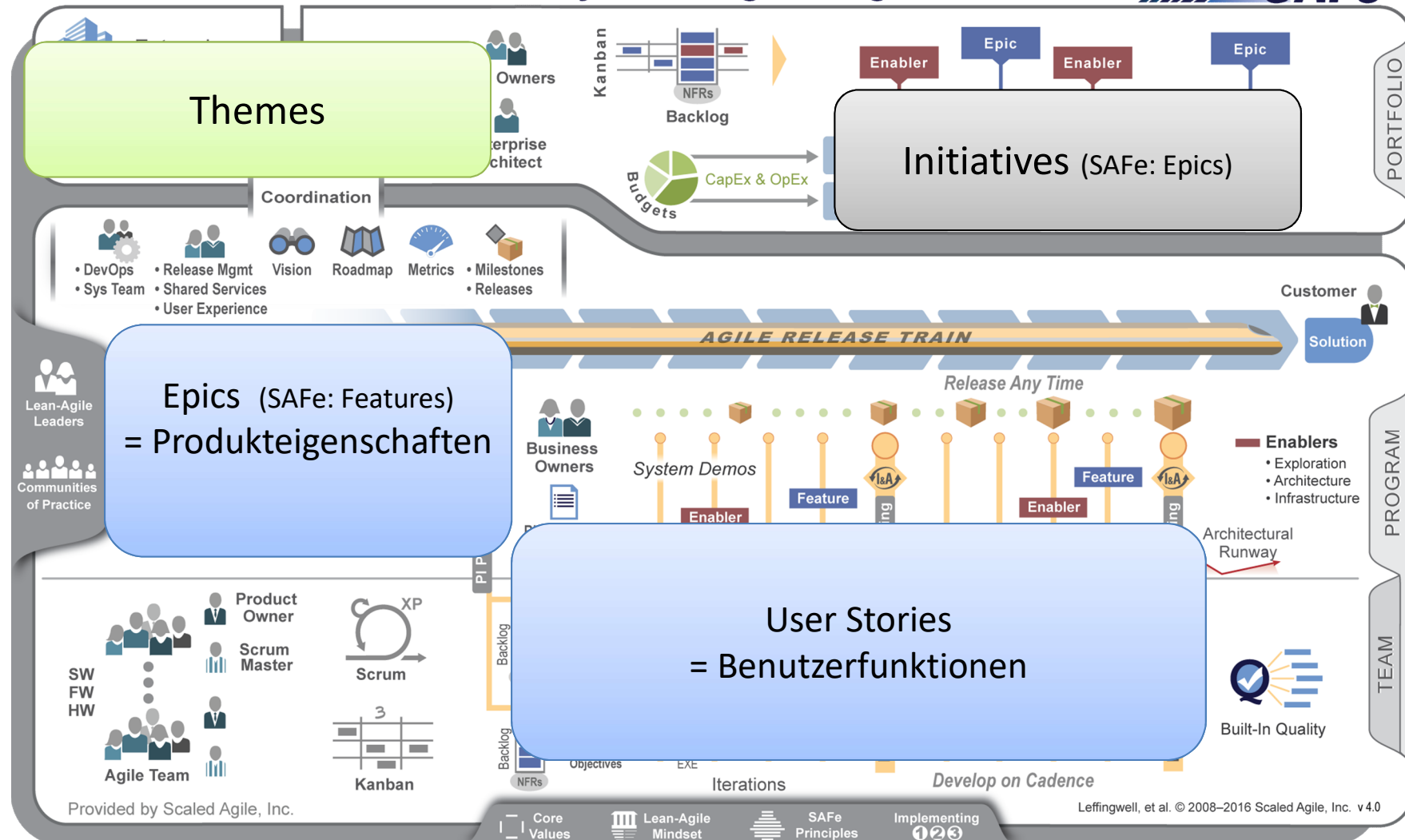
SAFe as process framework

SAFe® 4.0 for Lean Software and Systems Engineering

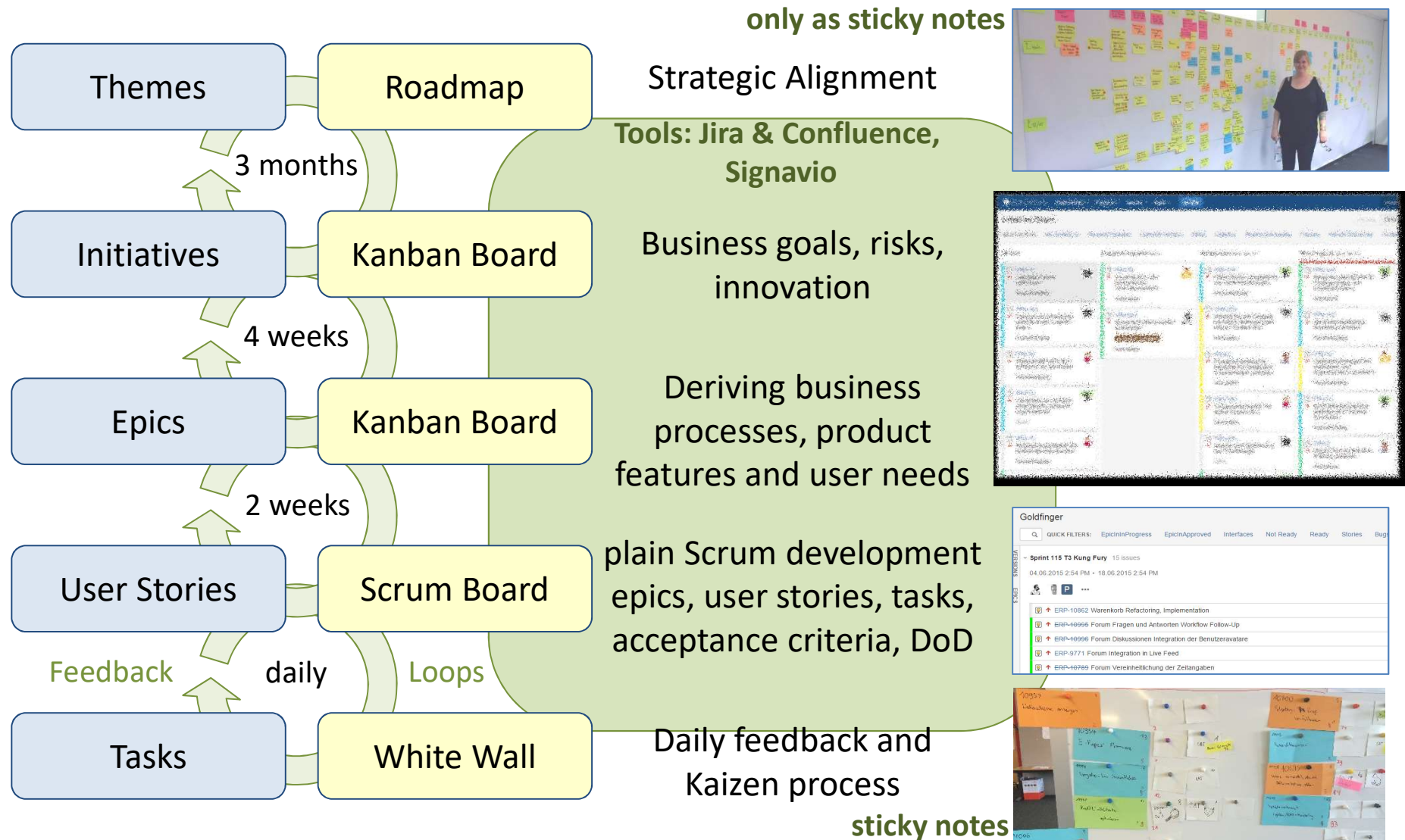


Wir fokussieren uns auf diese 4 Abstraction Levels aus diesem Framework

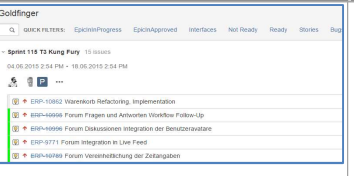
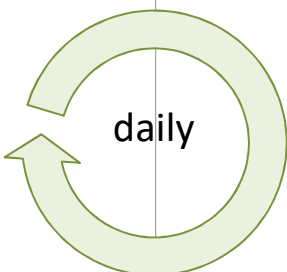
SAFe® 4.0 for Lean Software and Systems Engineering



Abstraction Levels of RE



Übersicht «Abstraction Levels»

Level	Themes	Initiatives	Epics	User Story	Tasks
	Strategische Themen	Initiativen	Produkteigenschaften	Benutzerfunktionen	Aufgaben
Darstellung					
	Road Map	Kanban Board	Kanban Board	Scrum Board	White Wall
Inhalt	Strategic Alignment	Business goals, risks, innovation	Deriving business processes, product features and user needs	Plain Scrum development epics, user stories, tasks, acceptance criteria, DoD	Daily feedback and Kaizen process
Feedback Loop					
Durch die Feedback Loops werden alle «Abstration Levels» miteinander verbunden und synchronisiert					

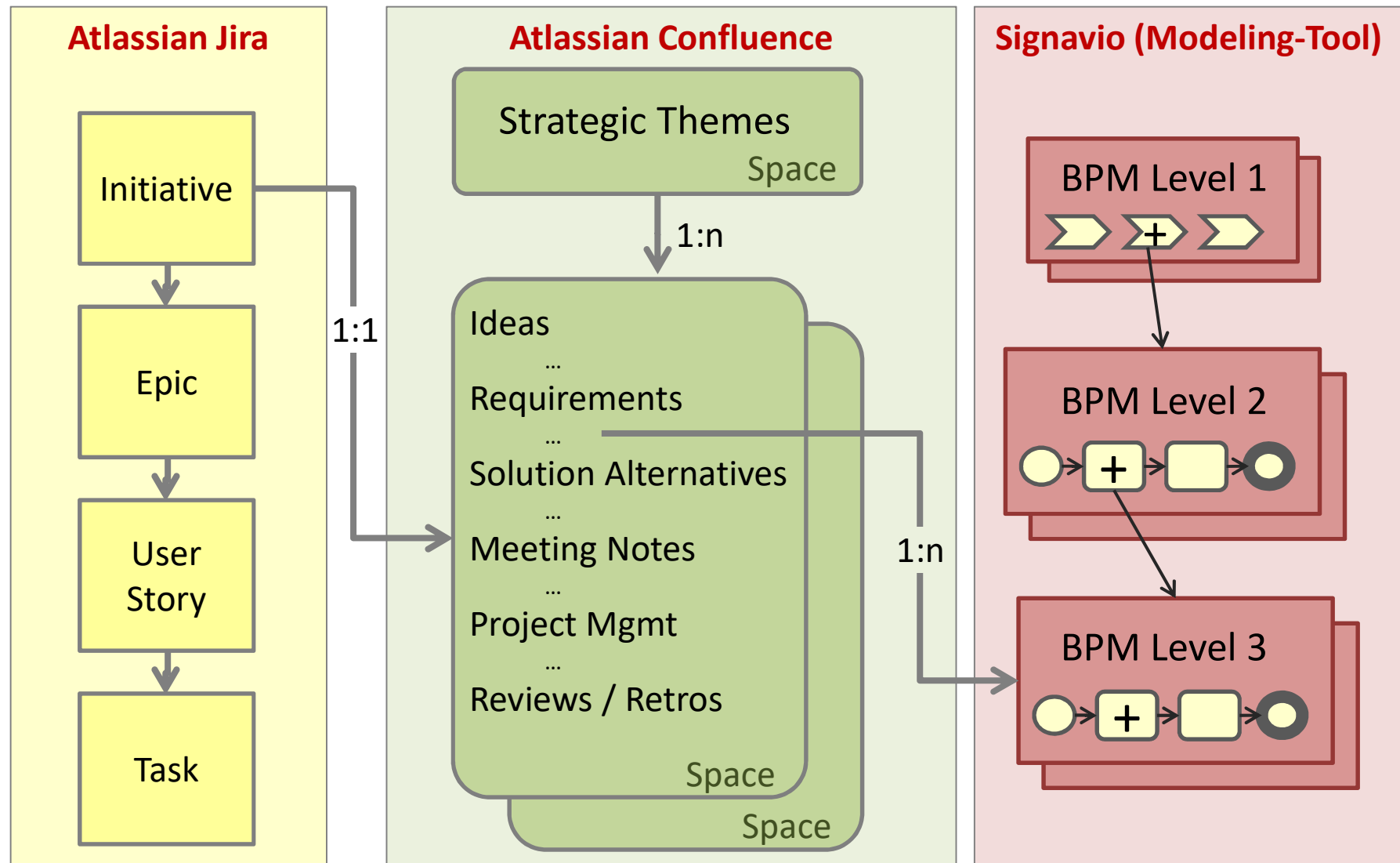
Arbeit in digitalen Tools

Arbeit in physischen Tools

Requirements Engineering in action

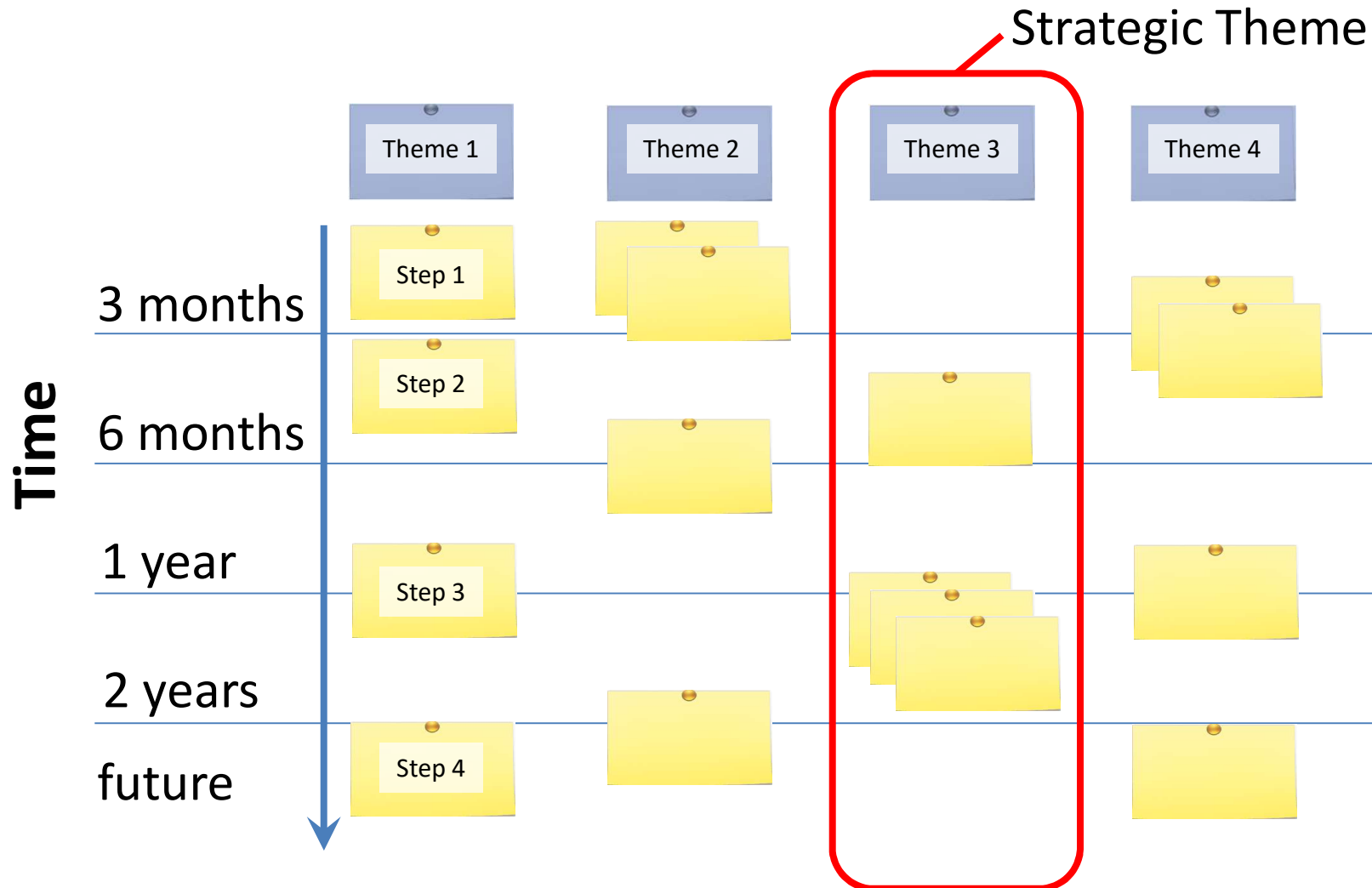
Tooling aspects

Tools used for documentation



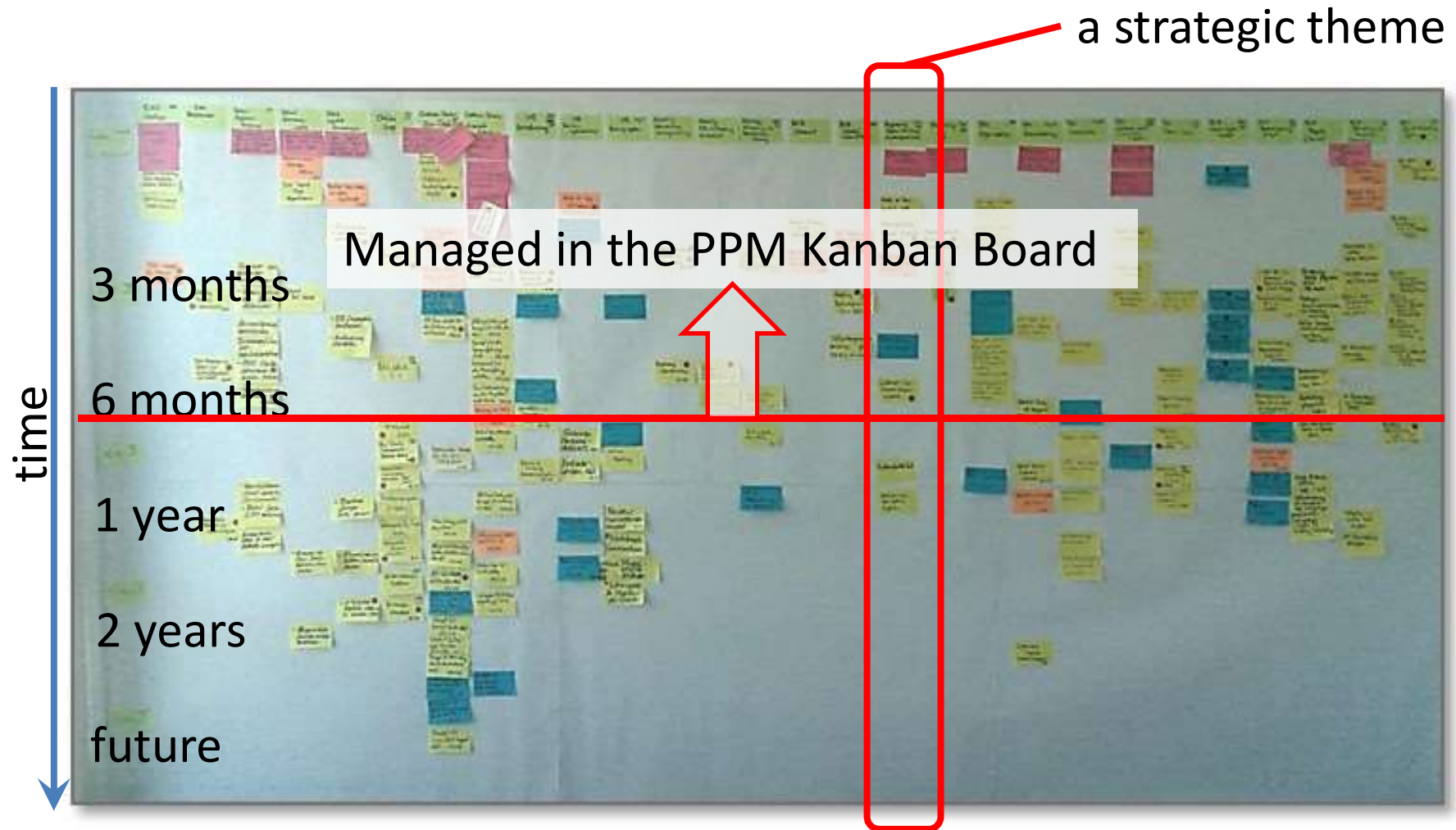
Key Method: Story Mapping

Jeff Patton; User Story Mapping, Publisher:O'Reilly Media, ISBN:978-1-4919-0490-9

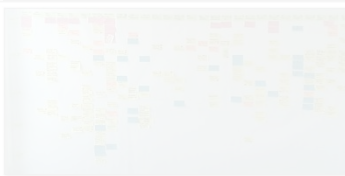
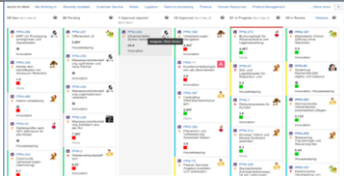
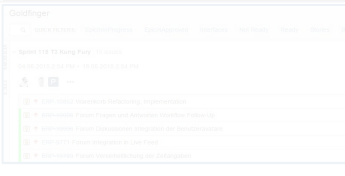


Company-wide strategic roadmap

A Company wide Story Map (see Jeff Patton)



Übersicht «Abstraction Levels»

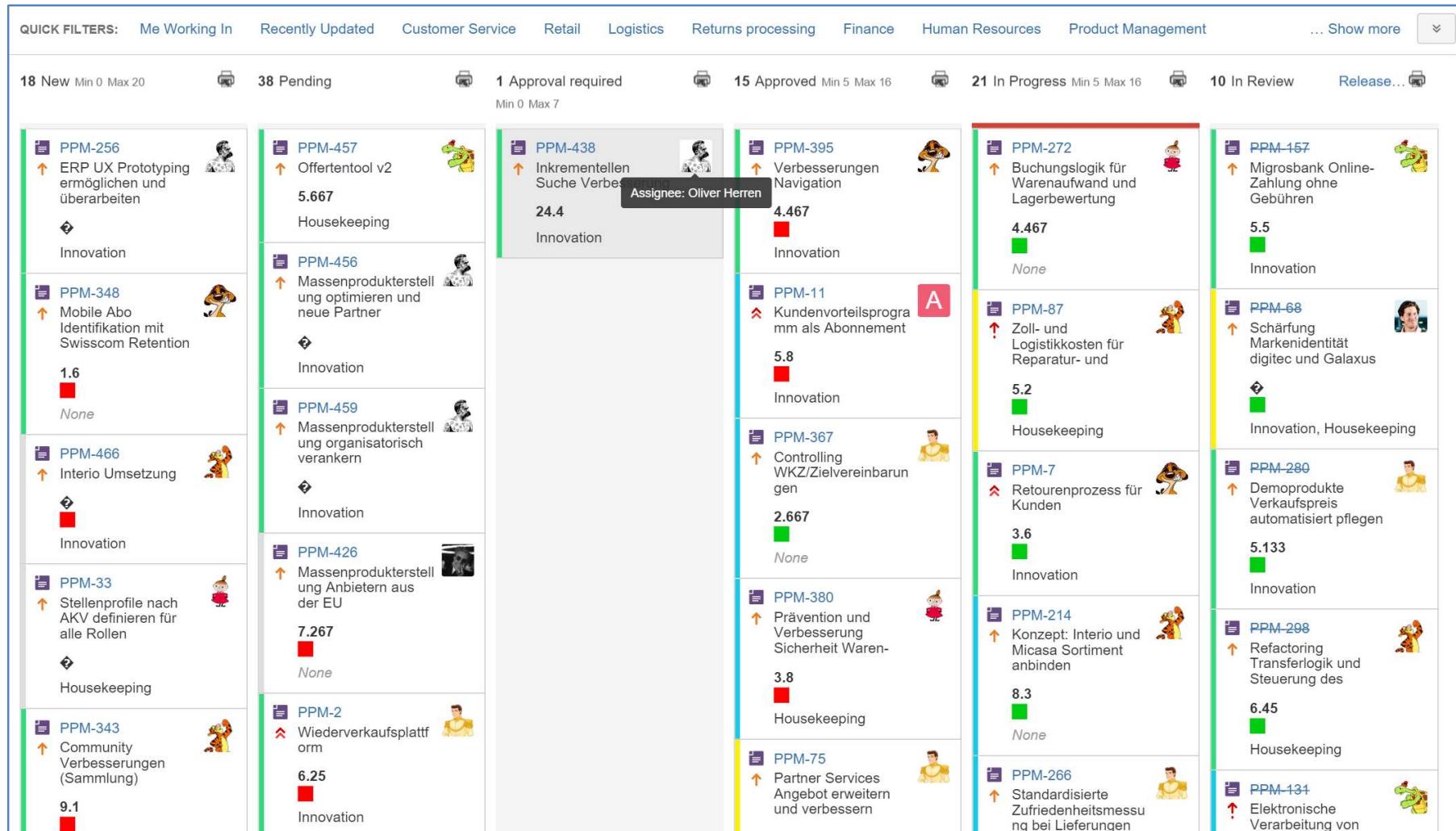
Level	Themes	Initiatives	Epics	User Story	Tasks
Darstellung	Strategische Themen 	Initiativen 	Produkteigenschaften 	Benutzerfunktionen 	Aufgaben 
Inhalt	Road Map Strategic Alignment	Kanban Board Business goals, risks, innovation	Kanban Board Deriving business processes, product features and user needs	Scrum Board plain Scrum development epics, user stories, tasks, acceptance criteria, DoD	White Wall Daily feedback and Kaizen process
Feedback Loop	 3 months	 4 weeks	 2 weeks	 daily	
einander verbunden und synchronisiert					

Arbeit in digitalen Tools

Arbeit in physischen Tools

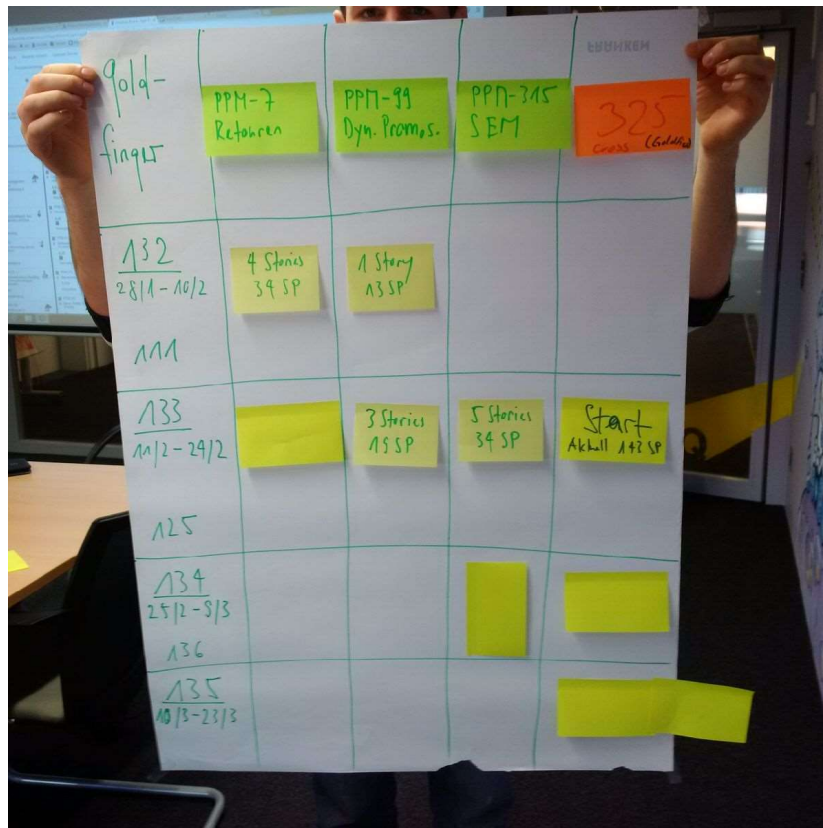
Company-wide Portfolio (Kanban)

All (!) company wide change is managed in this board

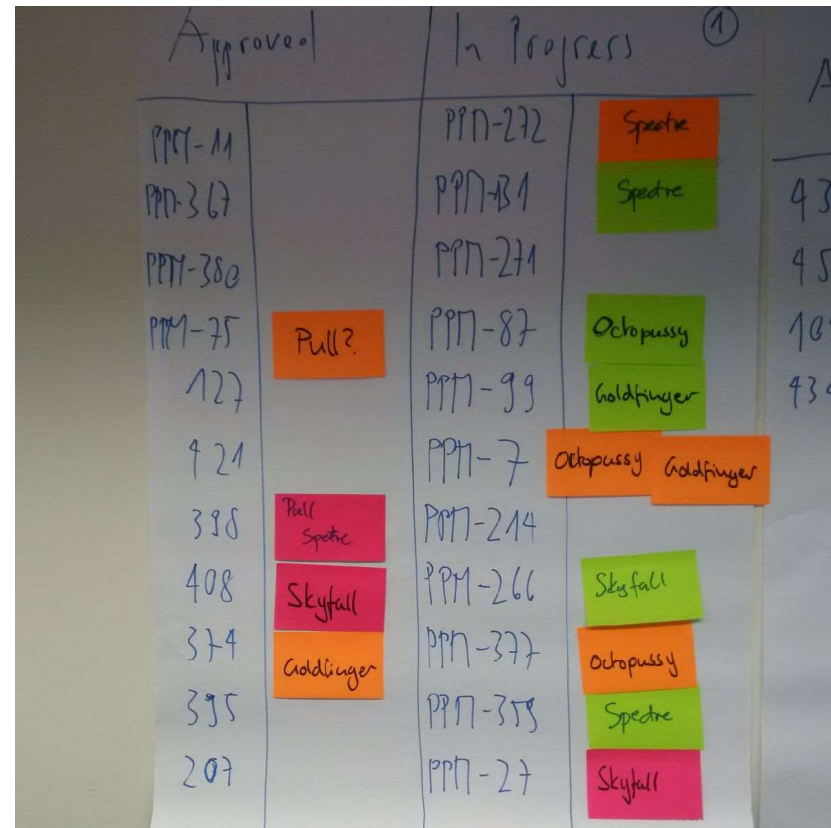


Release Planning on team level

per team planning part



team synchronization part



Team Backlog

One board per team; some as Scrum, some as Kanban board

The screenshot displays the Digitec Galaxus AG Team Backlog interface. The top navigation bar includes links for Dashboards, Projects, Issues, Boards, and a Create button. A search bar is also present. The main content area shows the Backlog for the team 'Octopussy'. It features a sidebar with navigation icons and a main area with a list of issues. The issues are grouped by sprint, with the current sprint being 'Sprint 146 T1 11.8' which has 12 issues. The issues are listed with their IDs, titles, and associated tags. The interface also includes filters for various categories like Engineering, EpicInProgress, EpicInApproved, Assigned to me, Not Ready, Ready, Stories, and Bugs. A 'Start Sprint' button is visible at the bottom of the sprint list.

ID	Title	Category	Assignee	Count
ERP-13344	Clean UP RMA Erfassung Workflow	Innovation	Workflow RMA Erf...	13
ERP-13252	[Timeboxed] Review Story Goldfinger "Stockwerklieferung"	Innovation	Lieferung an Verwe...	3
ERP-13186	F&F Refactoring Einbuchprozess Teil III (b) IntegrationsTest	Innovation	F&F: Konzept & Re...	13
ERP-12934	Zubehör scannen bei der Demoerstellung	Innovation	Workflow RMA Zub...	13
ERP-13287	F&F Kanaltrennung - Walking Skeleton	Innovation	F&F: Kanaltrennun...	13
ERP-13338	Anpassung Einbuchungsprozess für Kanaltrennung	Innovation	F&F: Kanaltrennun...	8
ERP-13289	F&F Kanalauswahl - Mini in LHM buchen	Innovation	F&F: Kanaltrennun...	13
ERP-13350	LHM in Container buchen	Innovation	F&F: Kanaltrennun...	21
ERP-12956	Für im Retail erfasste Rma-Fälle soll der Review Prozess über Scan der HandlingUnit gestartet we	Innovation	Workflow RMA Tra...	13
ERP-12957	Bei vorerfassten Rma Fällen kann der Review Prozess gestartet werden	Innovation	Workflow RMA Tra...	8
ERP-13255	Sammelstory Verbesserungen Zubehör Workflow	Innovation	Workflow RMA Zub...	5
ERP-13261	RMA Label automatisch drucken	Innovation	Workflow RMA Erf...	2

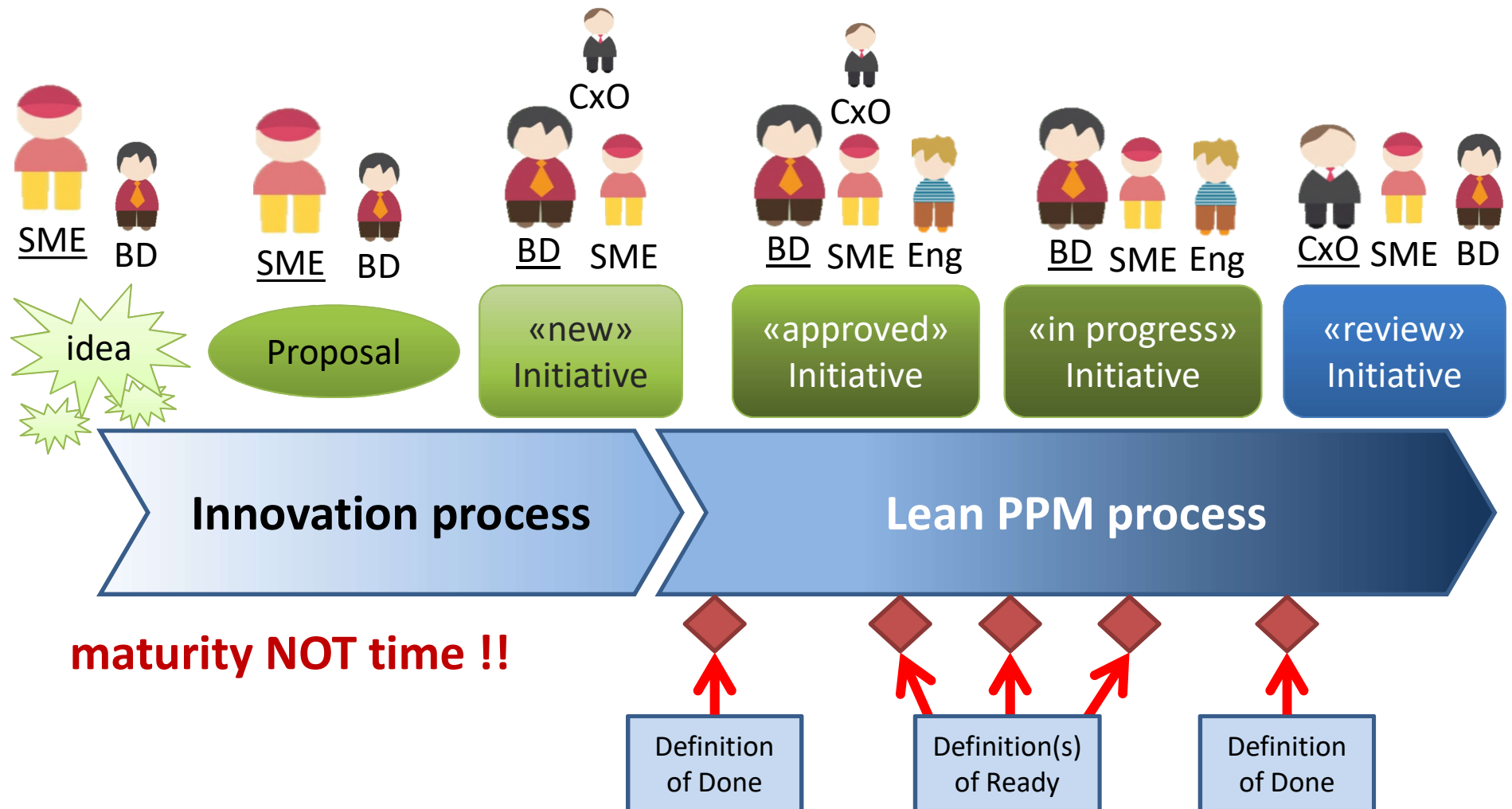
Requirements Engineering in action

Who does what when

RE competences

Jobprofile	Roles	RE competence
 CxO	manager, strategist, visionary, business epic owner, reviewer	low definition of goals, business value, priority
 Subject Matter Expert	expert, specialist, business analyst, stakeholder, tester, user	low to medium Specification of REs and business processes
 PM / BA	business analyst, requirements engineer, process engineer, product owner, process coach	expert all RE & business analysis activities, process engineering, coaching
 SW-Engineer	requirements engineer, Ux, designer, SW-architect, developer, tester, 3rd level support, scrum master	high all RE activities

Course of life of an initiative

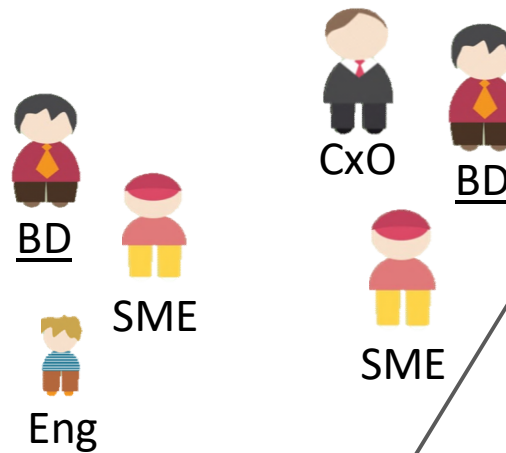
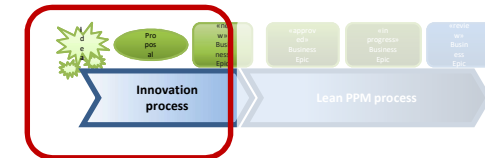
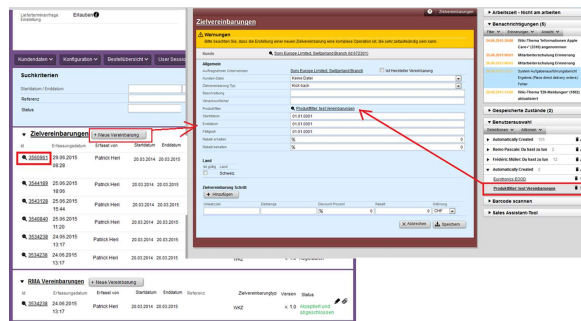


Ideation Phase

Business Model Canvas



Prototyping, Mocks

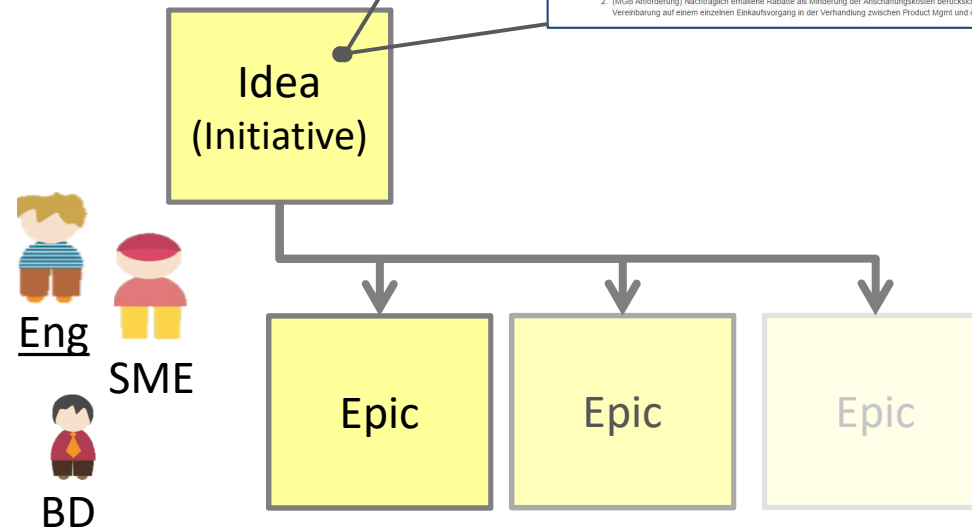


Description
Ausgangslage
Das Accounting der Digitec/Galaxus unterscheidet sich vom Accounting des MGB. Als Mitglied des MGB muss Digitec/Galaxus die Anforderungen des MGB-Accounting erfüllen (Offen: bis wann?).

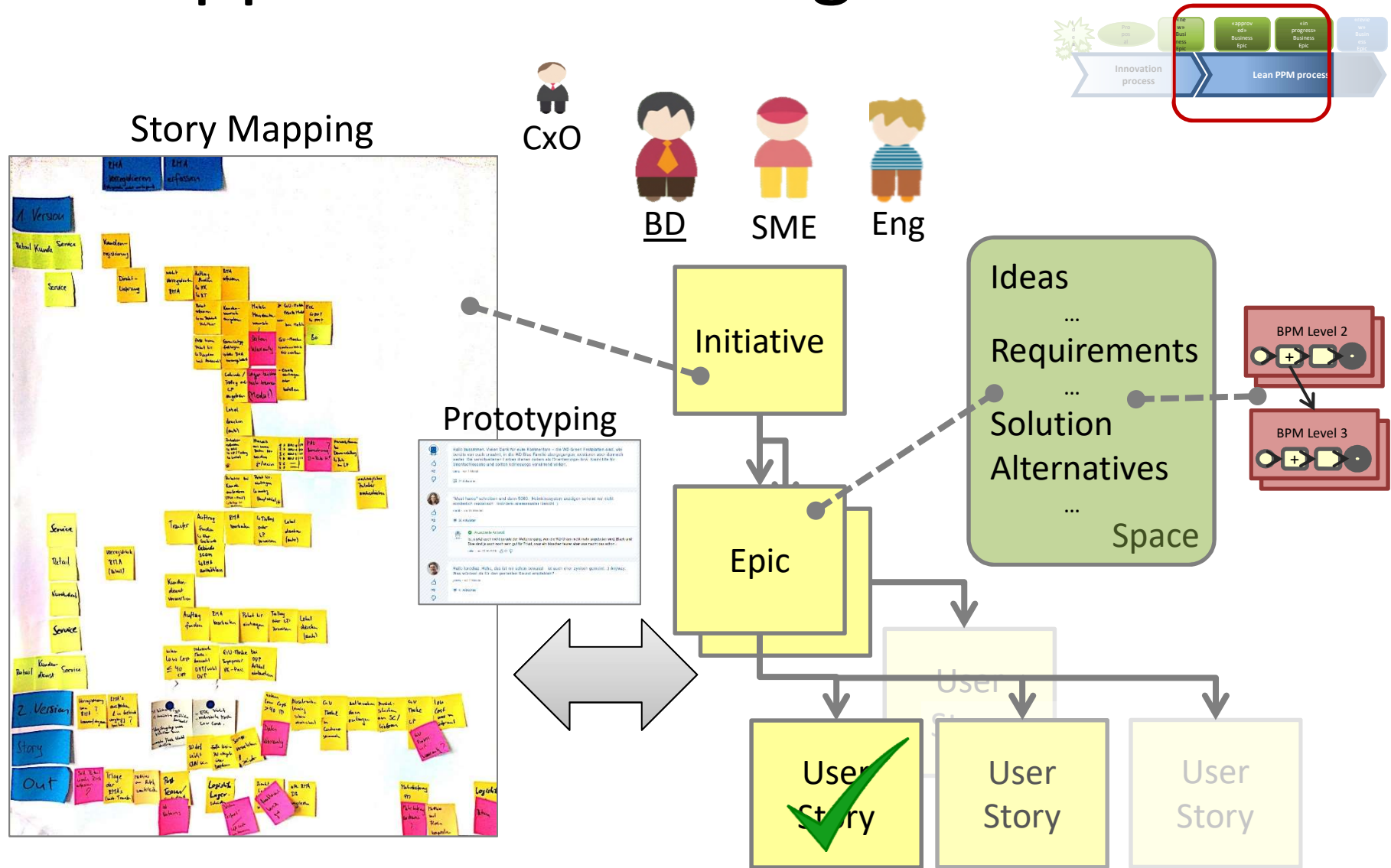
Ziele
Um die Anforderungen des MGB-Accounting zu erfüllen ist ein Set an Änderungen an unserer Buchungslogik für Warenaufwand und Lager durchzuführen.
Im Rahmen dieser Initiative werden nicht alle Änderungen durchgeführt. In der folgenden Liste sind alle notwendigen Änderungen aufgeführt. Die mit "In Scope" aufgeführten Änderungen werden in dieser Initiative durchgeführt. Die mit "out of Scope" aufgeführten Änderungen werden in weiteren (noch zu erstellenden) Initiativen durchgeführt.

MVP

1. in Scope
 1. (MGB Anforderung) Direkte (Buchung) der Warenaufwand und Lager an Ende einer Periode
 2. (MGB Anforderung) Verbrauchte Güter werden auf der Standard-Schnittstammethode der Anschaffungskosten statt FIFO
 3. (MGB Anforderung) Alle Bestandteile der Anschaffungskosten inklusive Transportkosten und Einfuhrzölle berücksichtigen statt des reinen Kaufpreises
 4. (MGB Anforderung) Nachträglich erhaltene Rabatte als Minderung der Anschaffungskosten berücksichtigen aufgrund der Zielvereinbarung mit dem Lieferanten
 5. (interne Anforderung) Die interne Profitabilitätsrechnung muss nach den Veränderungen korrekt sein.
2. out of Scope
 1. (MGB Anforderung) Mehrwertsteuer und Vorsteuer korrekt abrechnen
 2. (MGB Anforderung) Nachträglich erhaltene Rabatte als Minderung der Anschaffungskosten berücksichtigen aufgrund einer Kickback Vereinbarung auf einem einzelnen Einkaufsvorgang in der Verhandlung zwischen Product Mgmt und dem Lieferanten

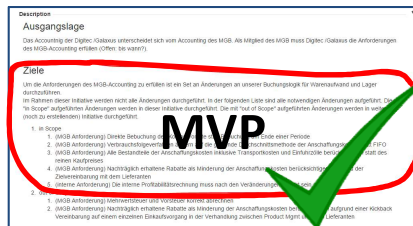


Approved & In Progress Phase

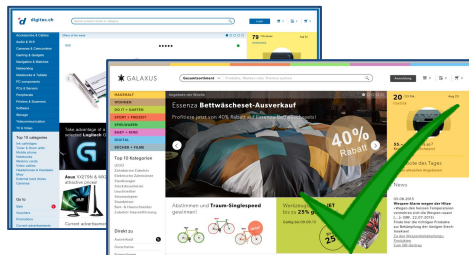


Review Phase

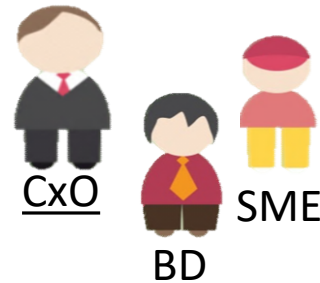
Acceptance Criteria



Operative Systems



BI, Measures, Analytics



Initiative



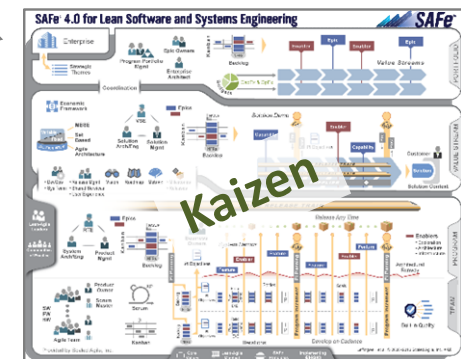
«new» Initiative

Proposal

Review

Retrospective

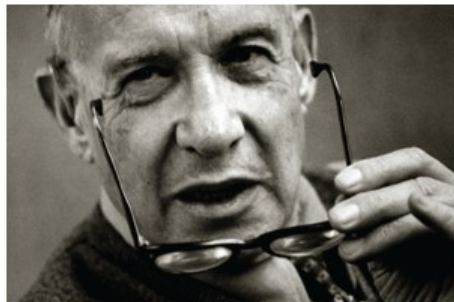
Definition of Done



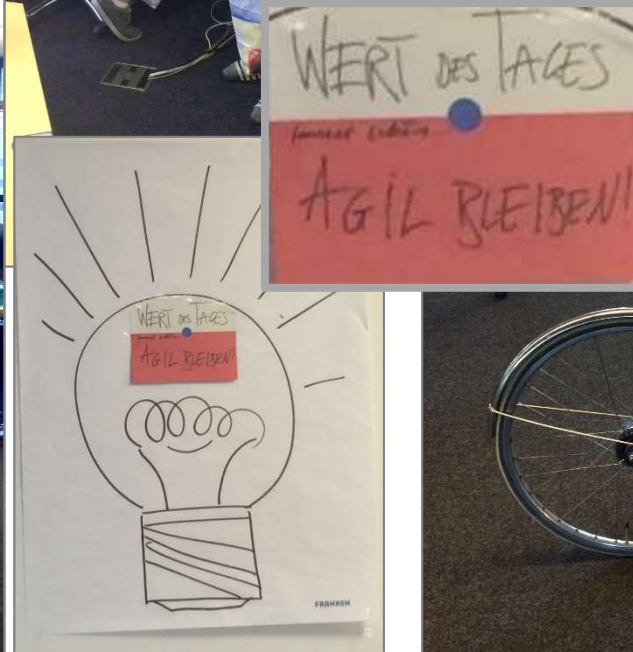
Success factor Team Spirit

It is all about people (Drucker 2005)

Es gibt nicht die Belegschaft (CSS
Versicherung)



A shared team spirit builds on trust



Thank you

