

Intro

DO YOU SPEAK SOFTWARE?

WIE DIE AGILE DENKWEISE IN INDUSTRIEUNTERNEHMEN EINZIEHT



Thomas Schindler
Agile Coach & Digital Transformation
(DX) Program Manager

<https://www.linkedin.com/in/thomas-schindler-214576/>

YOKOGAWA 



Christoph Schmiedinger
Consultant

<https://www.linkedin.com/in/christoph-schmiedinger/>



Werbeblock 🤪



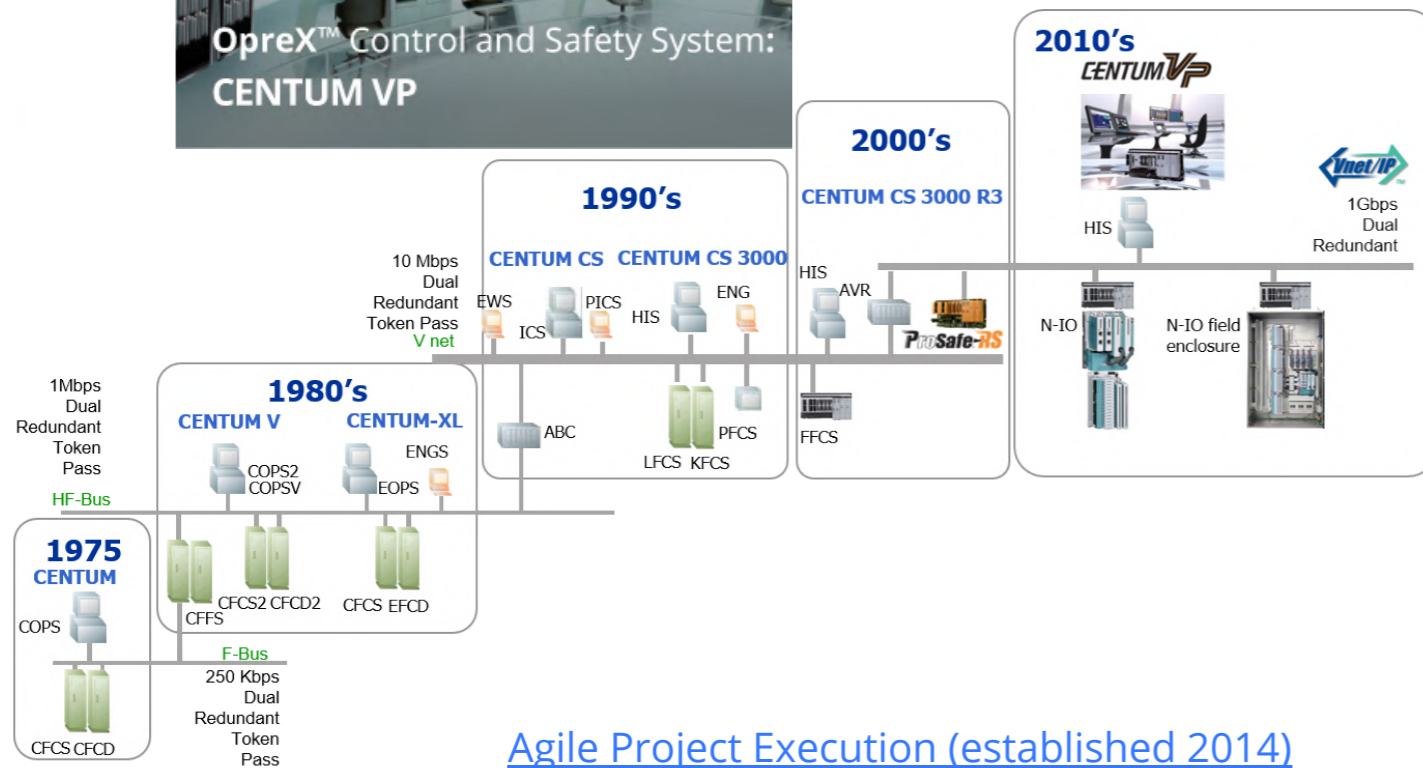
www.yokogawa.com

Control and Safety System

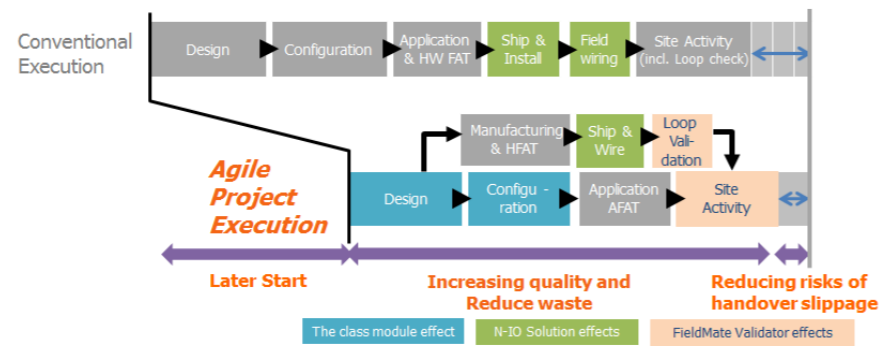
Prozessleitsysteme und sicherheitsgerichtete Steuerungen, die ein hohes Maß an Effizienz, hohe Qualität und einen sicheren Anlagenbetrieb unterstützen. Wir bieten Lösungen, die eine langfristig stabile Produktion unterstützen sowie flexible und schnelle...



OpreX™ Control and Safety System: CENTUM VP

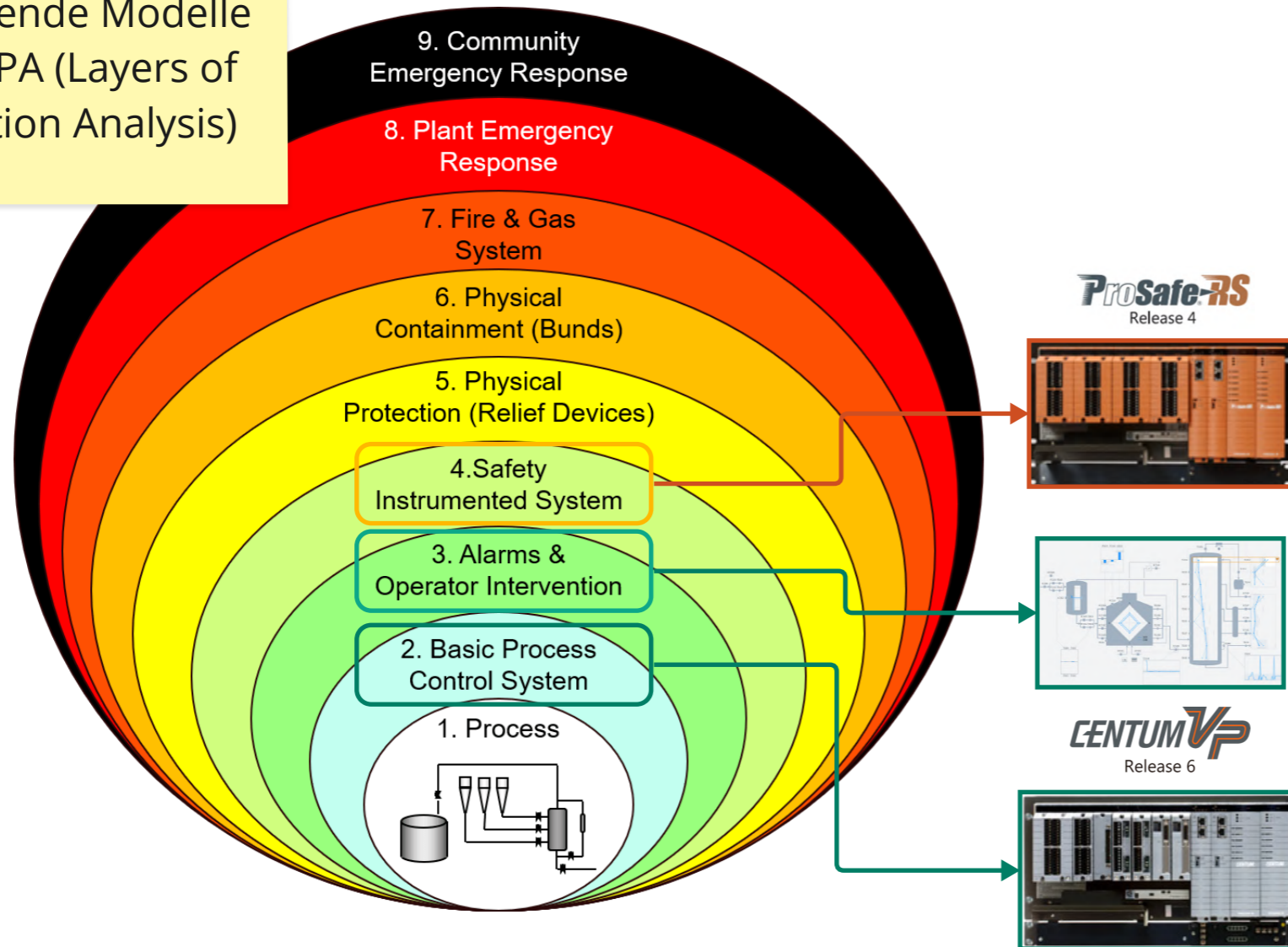


Agile Project Execution (established 2014)



Was uns immer wiederkehrend im Alltag begegnet...

Umfassende Modelle wie LOPA (Layers of Protection Analysis)



Die "Alles selber machen" Mentalität

Fehler?

LOPA: IEC61511 part 3 annex F
Functional safety – Safety instrumented systems for the process industry sector

Riesige Excel Tools - "Faustkeil des Ingenieurs"

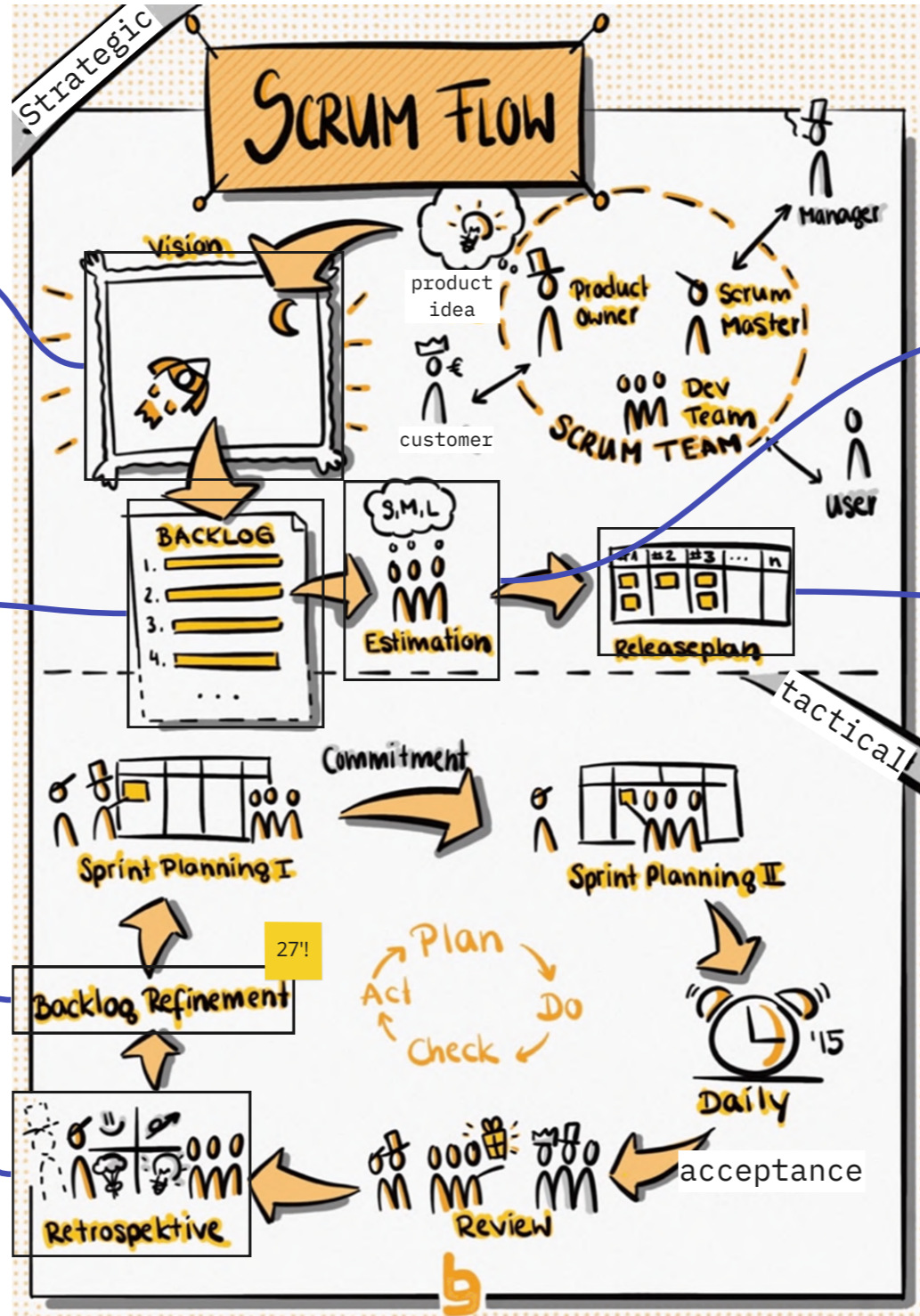
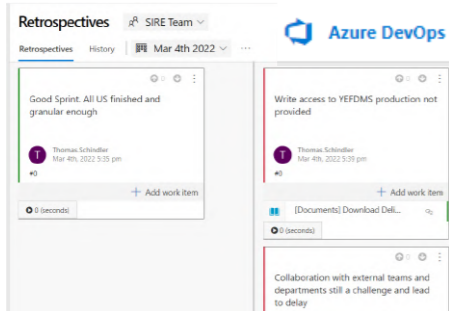
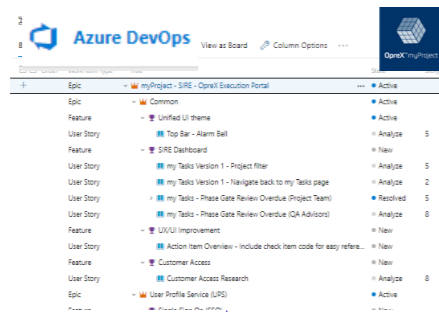
Beispiel: Datenbankbasiertes Webtool zur Erfassung und Bearbeitung von Mängeln während Kundenabnahme (Punch Tool) ~2005 entwickelt



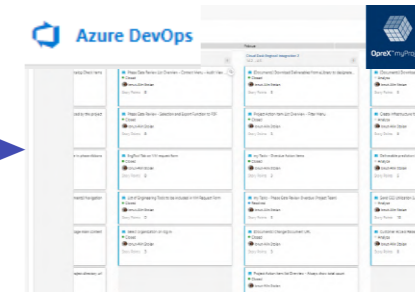
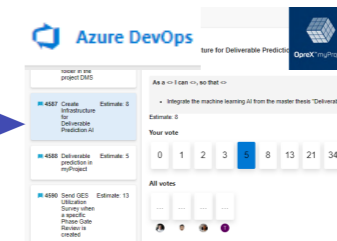
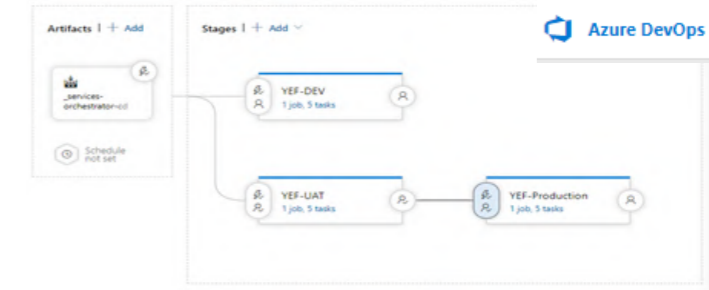
DDX Scrum flow utilisation



Vision
Integrate and digitalize all existing Yokogawa IA processes and procedures
User value and data integrity is in the foreground



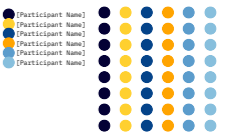
Release Management



Strategic:
WSJF & Story Points
Weightest Shortest Job First

3 weeks Sprints ~25 Story Points

all tactical Meeting via MS Teams



Unzählige weitere Beispiele...



Wallbox

Kontinuierliches Hinzufügen
weiterer Protokolle
(Bluetooth, WLAN, NFC, ...)



Vakuumventile

Doppelt so viele
Schließzyklen im
Belastungstest



Leistungs-
transformatoren

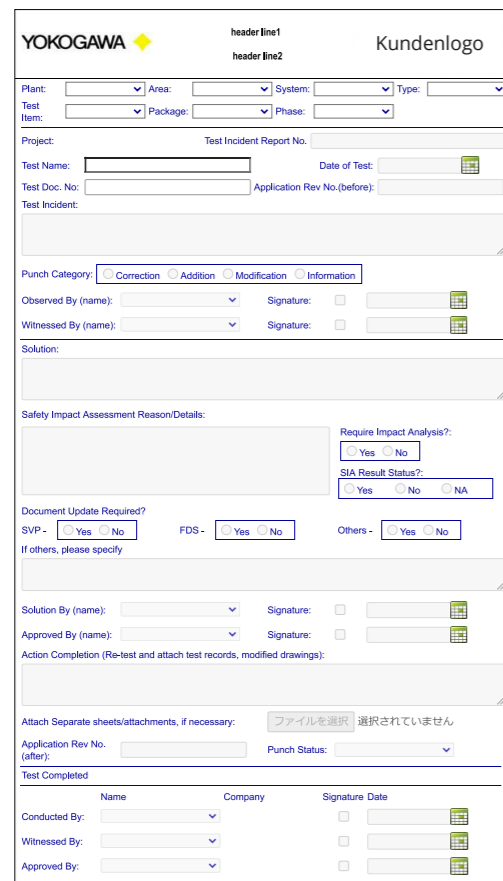
TÜV-Zertifizierungen für
Europa obwohl Kunden
auch in Drittländern



Was es eigentlich braucht!

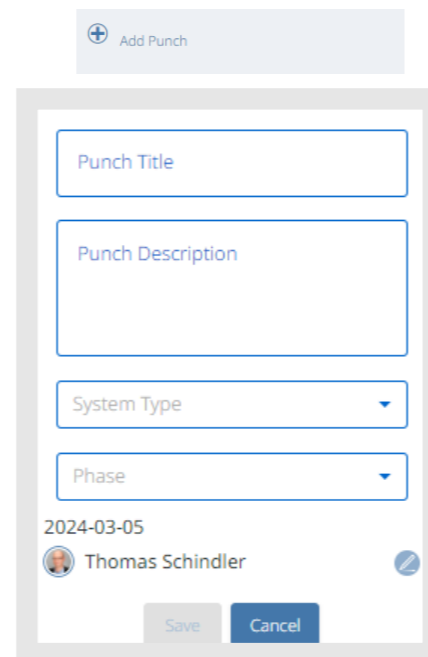
Vom Maximum zum Minimum Viable Product

Beispiel: Punch Formular



The screenshot shows the full Yokogawa Punch Form. It includes a header with the Yokogawa logo and 'Kundenlogo'. The form is divided into several sections: 'Plant' and 'Test Item' dropdowns; 'Project' information including 'Test Incident Report No.', 'Test Name', 'Test Doc. No.', and 'Application Rev No. (before)'; 'Punch Category' with radio buttons for Correction, Addition, Modification, and Information; 'Observed By' and 'Witnessed By' fields with signature and date inputs; 'Solution' text area; 'Safety Impact Assessment Reason/Details' with 'Require Impact Analysis?' and 'SIA Result Status?' options; 'Document Update Required?' section with 'SVP', 'FDS', and 'Others' options; 'Action Completion' section with 'Attach Separate sheets/attachments, if necessary' and 'Application Rev No. (after)'; and a 'Test Completed' table with columns for Name, Company, and Signature Date.

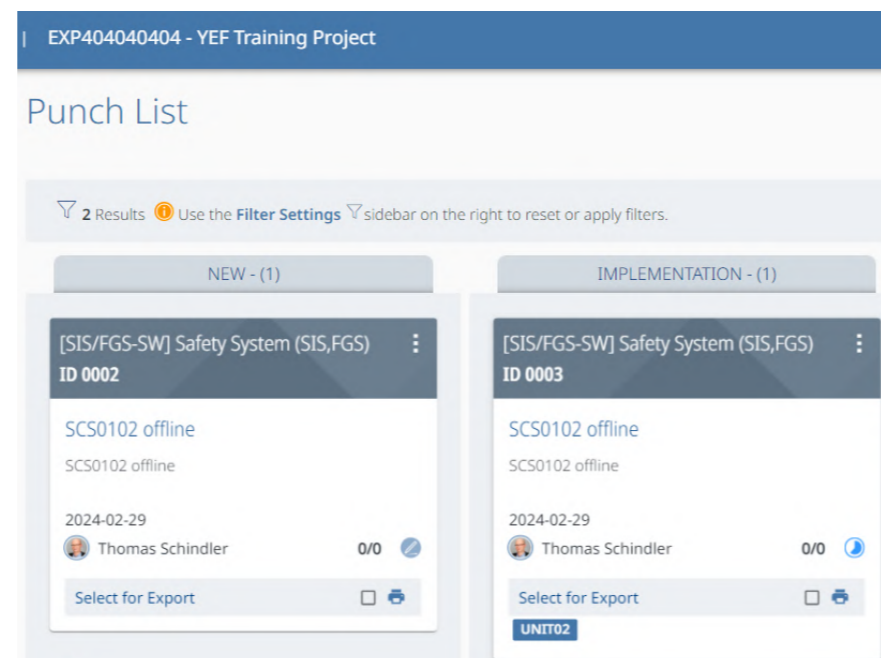
Schnell erfassen!



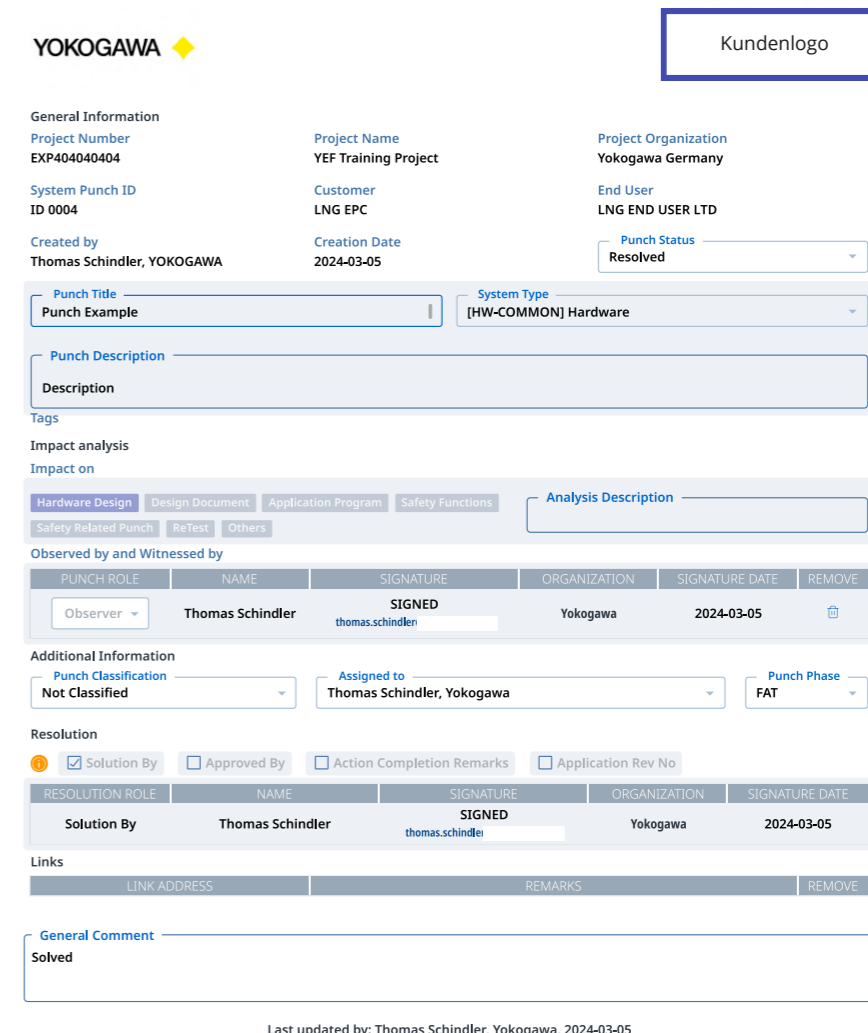
The simplified form shows a 'Punch' modal with a '+ Add Punch' button. It contains a 'Punch Title' text box, a 'Punch Description' text area, a 'System Type' dropdown menu, and a 'Phase' dropdown menu. Below these is the date '2024-03-05' and the name 'Thomas Schindler' with a profile icon. At the bottom are 'Save' and 'Cancel' buttons.

Details später/optional!

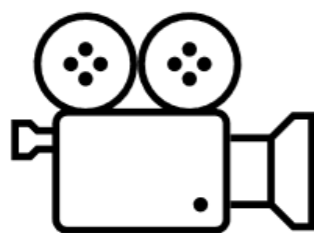
Übersichtlich darstellen!



The screenshot shows the 'Punch List' for 'EXP4040404 - YEF Training Project'. It displays two columns: 'NEW - (1)' and 'IMPLEMENTATION - (1)'. Each column contains a card for a punch item. The first card is '[SIS/FGS-SW] Safety System (SIS,FGS) ID 0002' with the status 'SCS0102 offline'. The second card is '[SIS/FGS-SW] Safety System (SIS,FGS) ID 0003' with the status 'SCS0102 offline'. Both cards show the date '2024-02-29', the name 'Thomas Schindler', and a '0/0' status. There is a 'Select for Export' button and a 'UNIT02' tag on the second card.



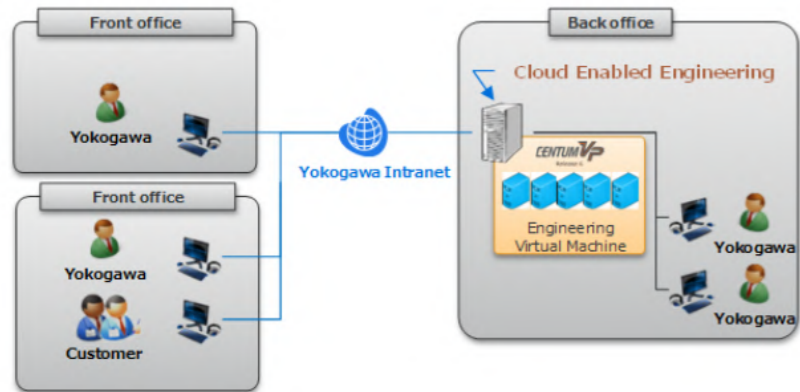
The detailed form shows the 'YOKOGAWA' logo and 'Kundenlogo'. It includes 'General Information' with 'Project Number EXP4040404', 'Project Name YEF Training Project', and 'Project Organization Yokogawa Germany'. It also shows 'System Punch ID ID 0004', 'Customer LNG EPC', and 'End User LNG END USER LTD'. The 'Created by' field is 'Thomas Schindler, YOKOGAWA' and the 'Creation Date' is '2024-03-05'. The 'Punch Status' is 'Resolved'. Below this is the 'Punch Title' 'Punch Example' and 'System Type' '[HW-COMMON] Hardware'. The 'Punch Description' section has a 'Description' text area and 'Tags'. The 'Impact analysis' section includes 'Impact on' and 'Analysis Description'. The 'Observed by and Witnessed by' table shows 'Observer' 'Thomas Schindler' with a 'SIGNED' signature and date '2024-03-05'. The 'Additional Information' section shows 'Punch Classification' 'Not Classified', 'Assigned to' 'Thomas Schindler, Yokogawa', and 'Punch Phase' 'FAT'. The 'Resolution' section has a table with 'Resolution Role' 'Solution By', 'Name' 'Thomas Schindler', 'Signature' 'SIGNED thomas.schindler', 'Organization' 'Yokogawa', and 'Signature Date' '2024-03-05'. The 'Links' section has a table with 'LINK ADDRESS', 'REMARKS', and 'REMOVE'. The 'General Comment' section has a 'Solved' text area. At the bottom, it says 'Last updated by: Thomas Schindler, Yokogawa, 2024-03-05'.



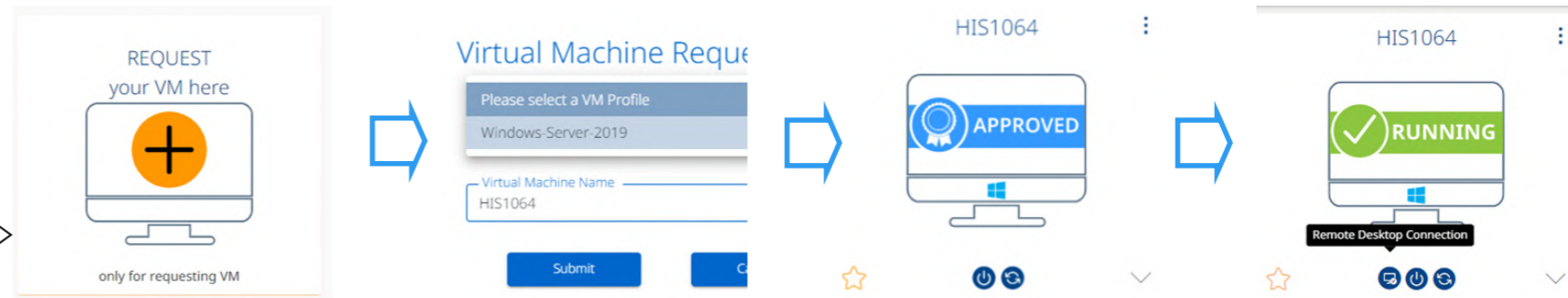
Was es eigentlich braucht!

Beispiel: Cloud Platform

Vom Maximum zum Minimum Viable Product

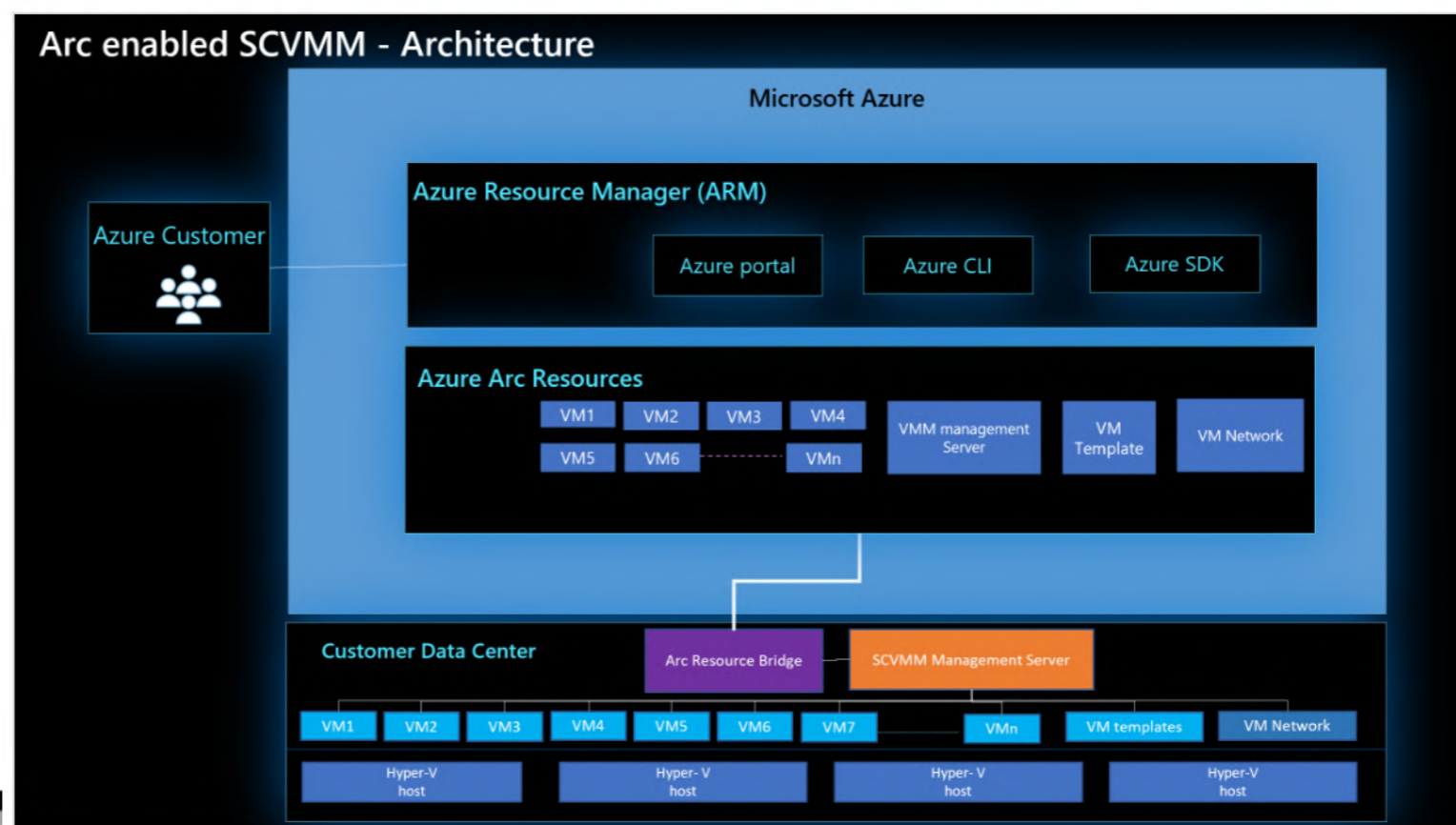


Fokussierung auf den Nutzer



Vom Request bis zum Starten der virtuellen Maschine (VM) in wenigen Minuten!

The following image shows the architecture for the Arc-enabled SCVMM:

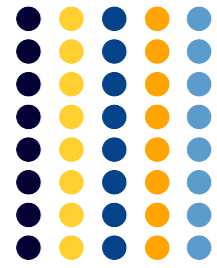


Quelle: Microsoft

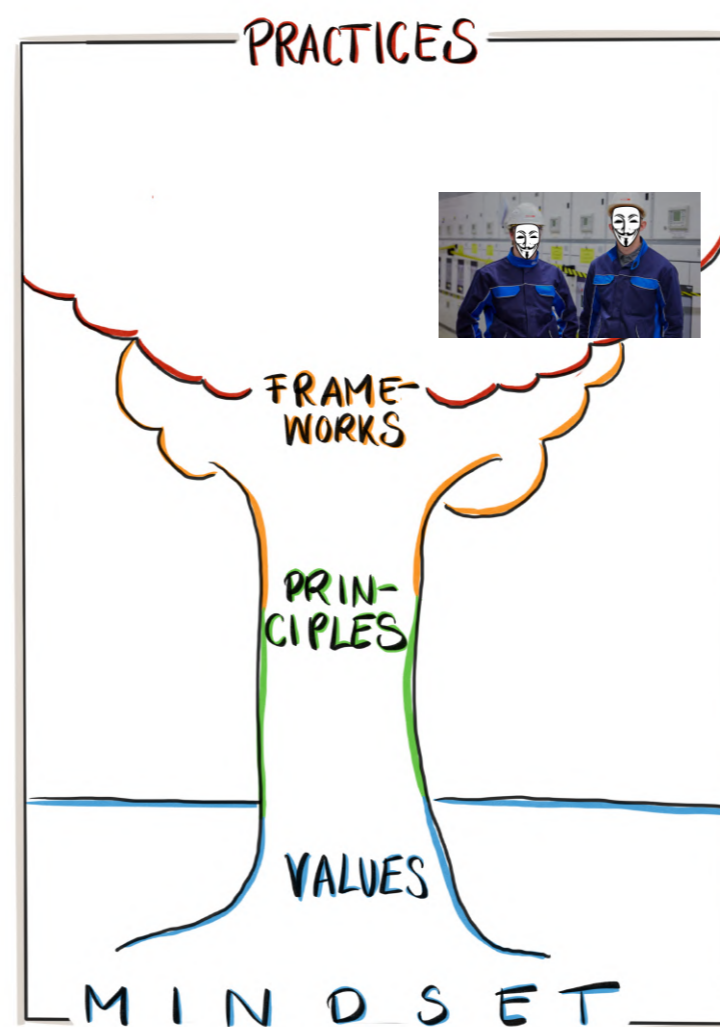
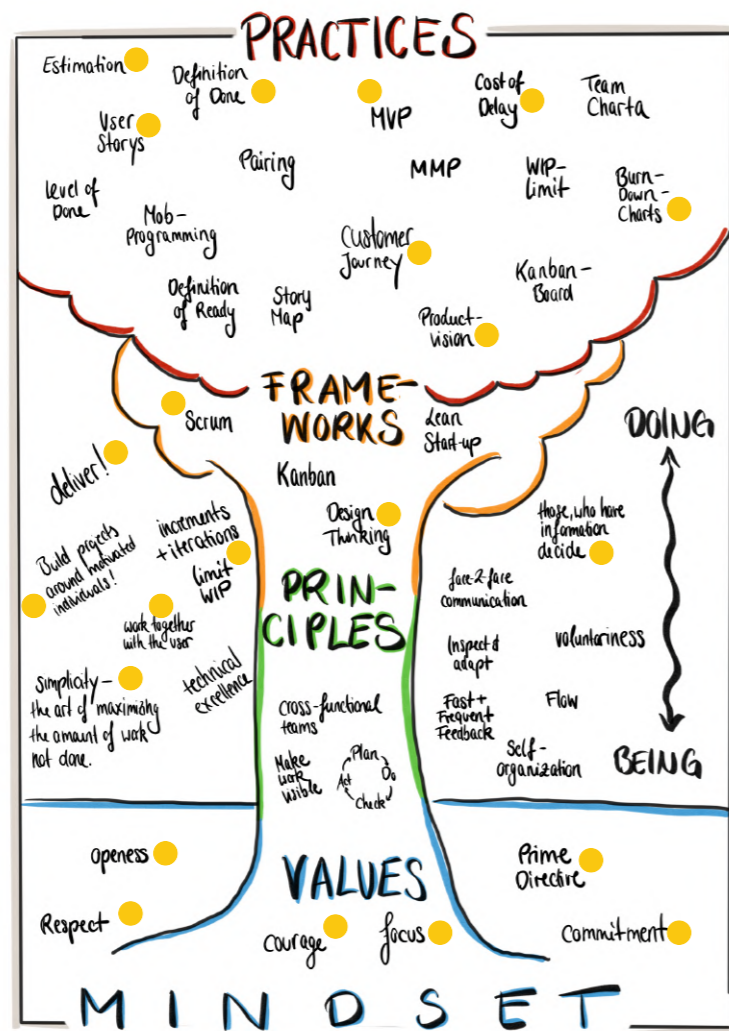


Agilität als EIN Baustein der Lösung

Stages of
Innovation
Adoption



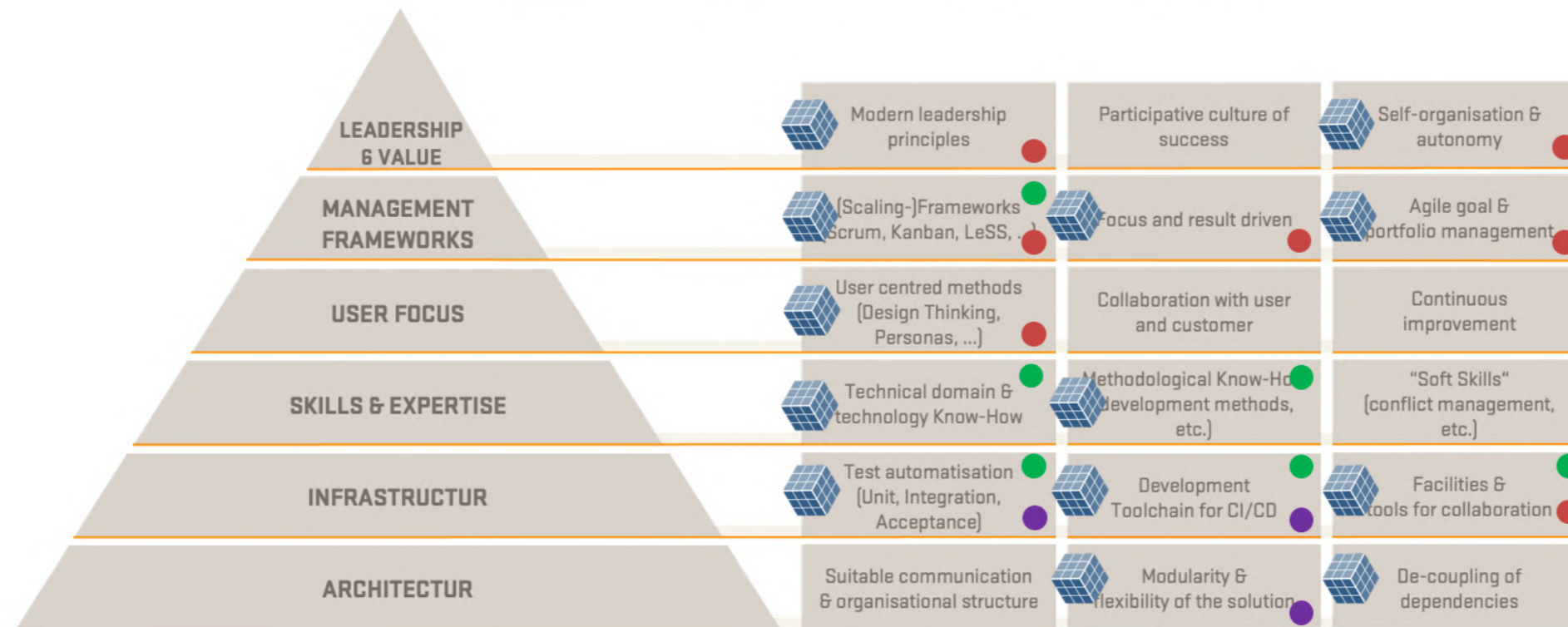
Infinite
Game



Cost of
Delay

Agilität als EIN Baustein der Lösung

Why are we here? Recap of myProject (SIRE initiative)



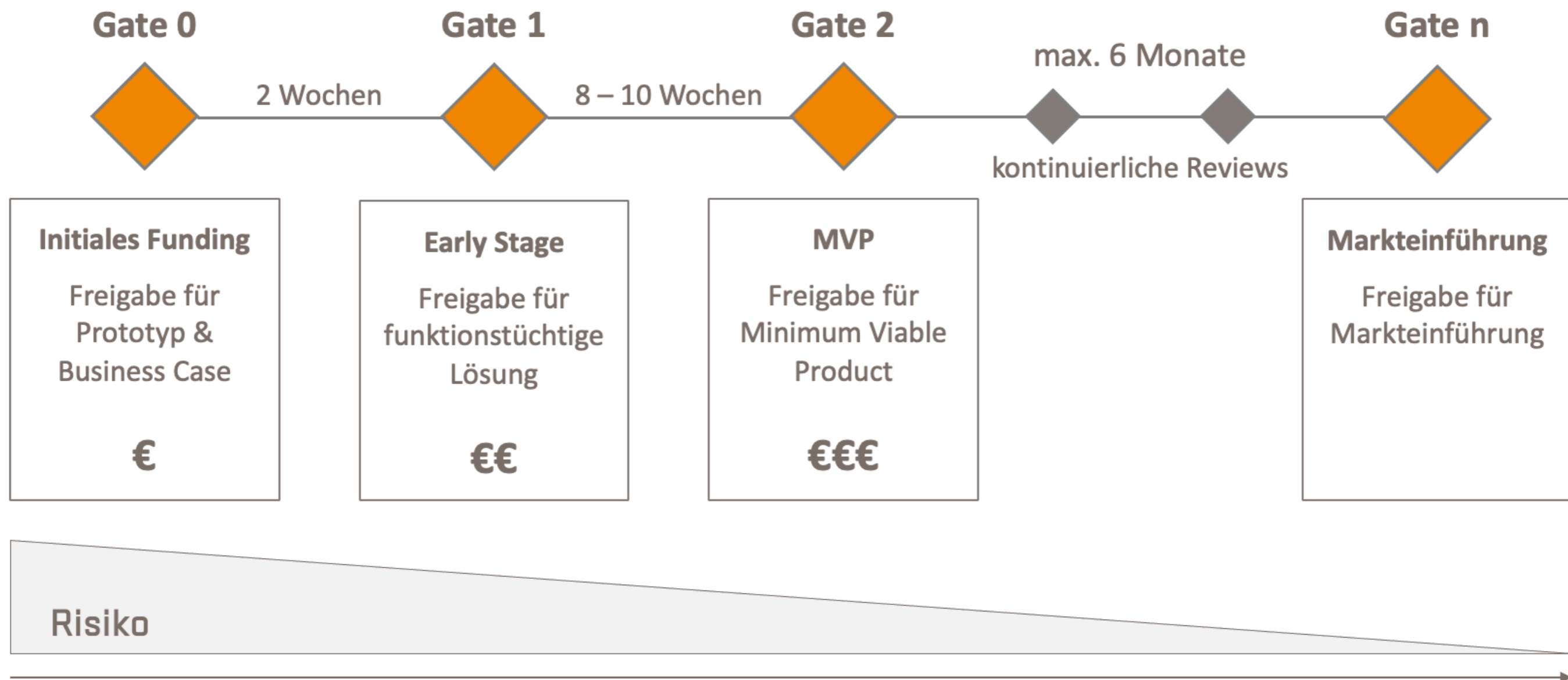
Areas where SIRE team established (avoidable) own skill/knowledge or infrastructure to develop myProject portal*

- Hired experts (SW Dev&UX designer)
- Self education and training (PO/SM/AC**)
- IT support

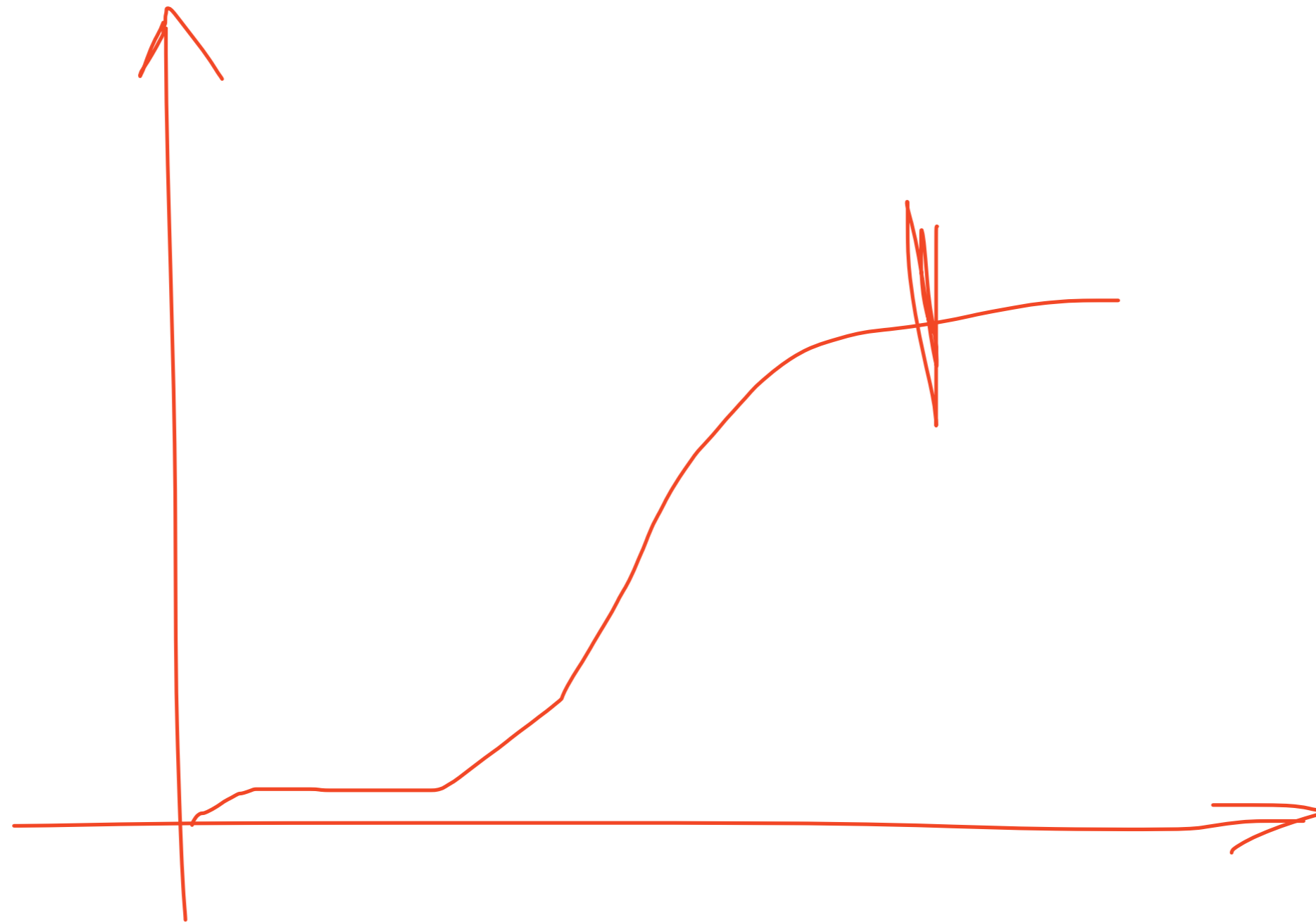
**PO = Product Owner, SM = Scrum Master, AC = Agile Coach



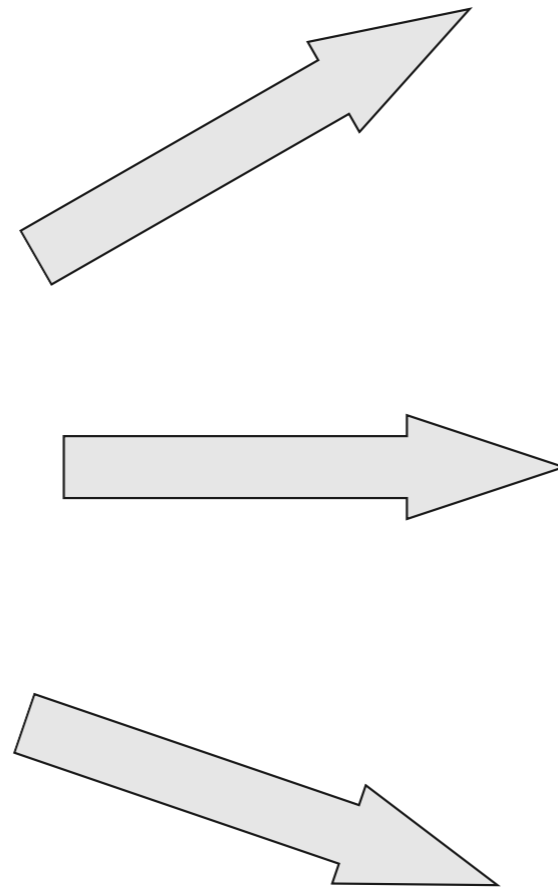
Venture Capital Funding



MVP als Kernidee

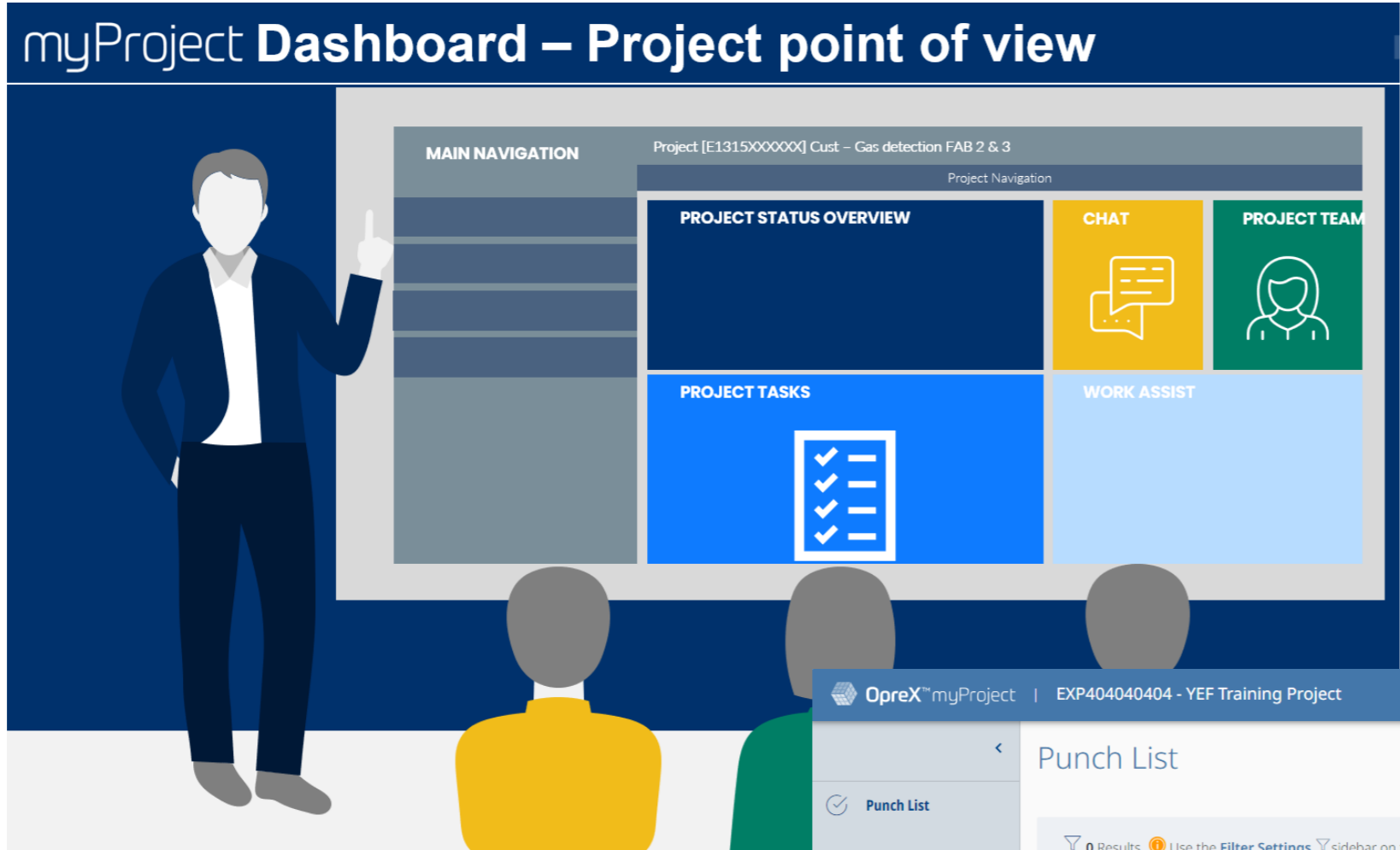


**... und dann auch
noch global verteilt**

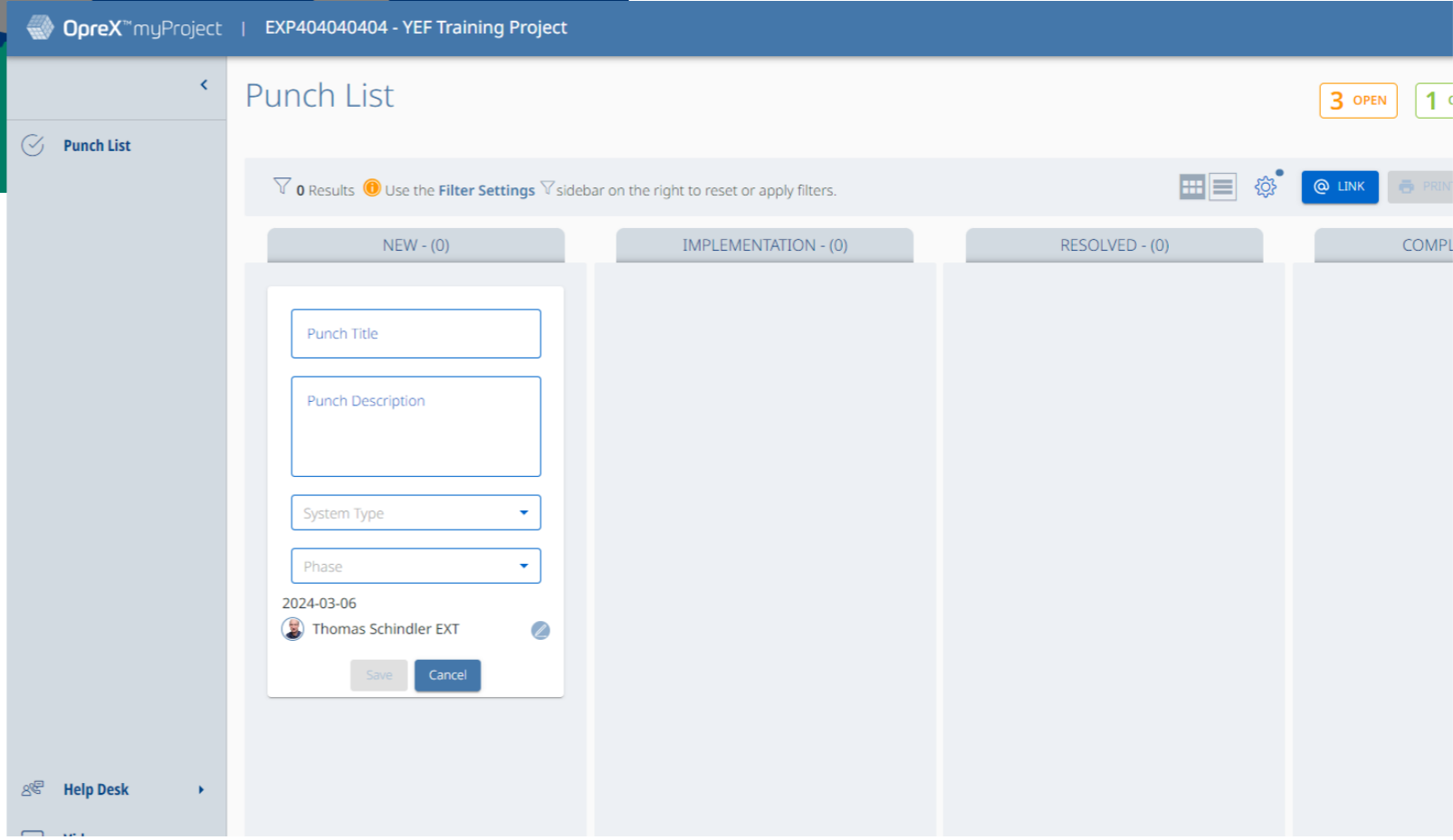


Beispiel: myProject
Execution Platform

Es lohnt sich auf jeden Fall!



early UX Concept



Bessere K
zufriede



Einmal kurz zusammengefasst:

Herausforderung(en)

Dutzende lokale/regionale Lösungen und Portale

Glaube der Ingenieure, dass man es selbst und vor allem besser kann

Denken: etwas neues funktioniert oft nicht so wie ich es brauche

Was haben wir gemacht?
Erfolgsfaktoren

Balance aus kontinuierlich neue Features releasen und bestehende Features verbessern (~20 Releases/~700US seit 2020)

regelmäßig Feedback holen und umsetzen

Fokus auf Innovation statt bestehende Prozesse transformieren

Geduld haben!

Was haben wir erreicht?

Hohe Nutzerrate (~4000 User, intern & Kunden)

User satisfaction rate **95%** (Design, Ease of use, Overall efficiency) - Anonyme Umfrage 2023 (500+ User)

Das digitalisieren von seit Jahrzehnten existierenden Prozessen funktioniert!

Integration anderer BU's (Business Units)

"it works"



Q&A

