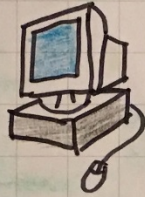
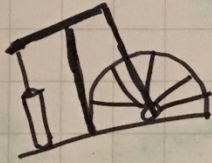


Industrie 4.0 needs Agile



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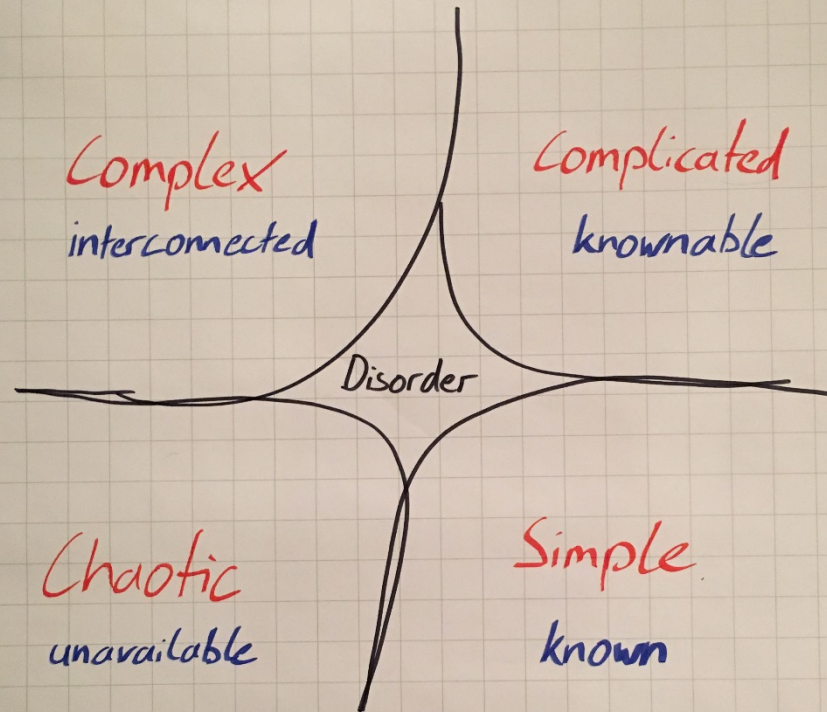
Industrie 4.0

- Hochflexible Großserien-Produktion
- Umsetzung möglich mit IOT
- Möglichkeit individuelle Produkte zu erzeugen (Losgröße 1)

Chancen der Industrie 4.0

- individuelle Kundenanforderungen
- Änderungen von Anforderungen bis zum Produktionszeitpunkt

Cynefin Framework



Systeme sind meist nicht komplex,
sondern ihre Entwicklung! ♡

Was ist Agile?

For a company, to be agile
is to be capable of operating
profitably in a competitive
environment of continually,
and unpredictably, changing
customer opportunities

Steven L. Goldman
Roger N. Nagel
Kenneth Preiss

Agile Competitors
and
virtual organizations

Und was genau?

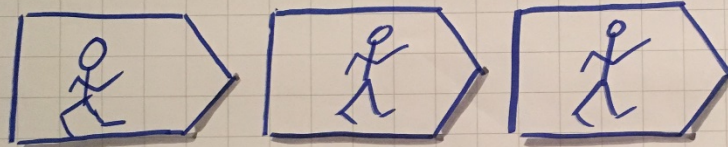
Individuals and interactions **over** process and tools

Working ^{products} ~~software~~ **over** comprehensive documentation

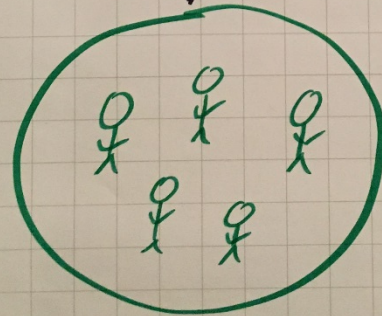
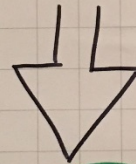
Customer collaboration **over** contract negotiation

Responding to change **over** following a plan

Individuals and interaction OVER processes and tools



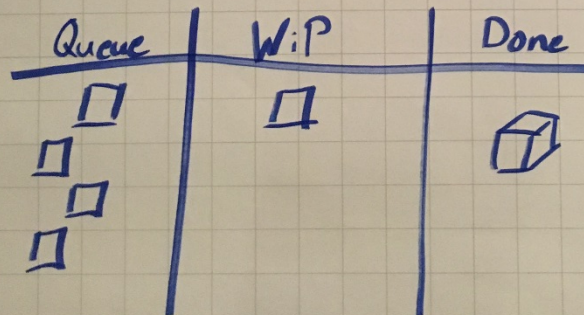
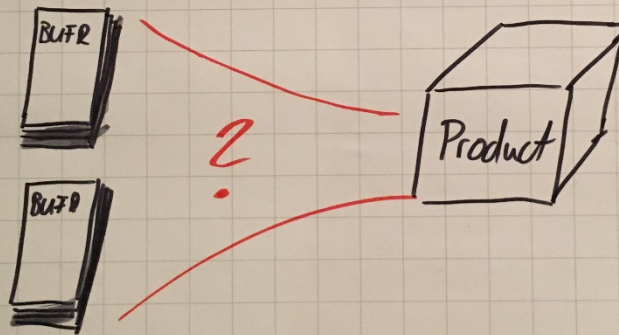
Process
centric



People
centric

Working products OVER comprehensive documentation

... over comprehensive upfront
requirements and design
documentation

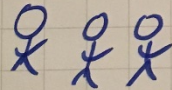
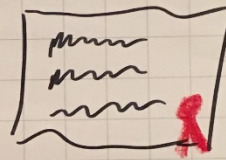
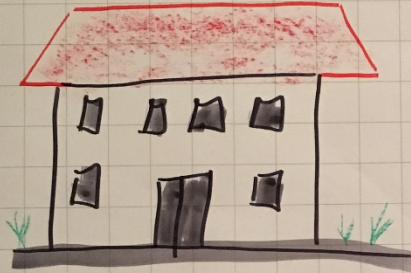


User Documentation
Optional Docs

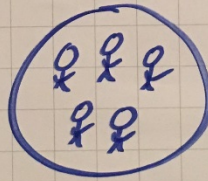
Customer collaboration

OVER

contract negotiation



Stakeholder
Customer
User



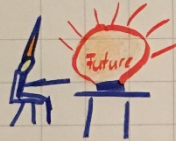
Team

Komplexe Probleme haben unvollständige,
Widersprüchliche und sich ändernde
Anforderungen

Responding to change

over

following a plan



Illusion der
Vorhersehbarkeit

Plan your work, work your plan.

Complex development are
unpredictable

Agile Prinzipien

- 1) Our highest priority is to satisfy the customer through early and continuous delivery of valuable products.
- 2) Welcome changing requirements, even late in development.
Agile processes harness change for the customer's competitive advantage.
- 3) Deliver working products frequently, from a couple of weeks to a couple of months, with a preference to the shorter time-scale.
- 4) 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.
- 7) Working products 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 done - 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.

Wir sind nicht nur
verantwortlich für das,
was wir tun, sondern auch
für das, was wir nicht tun.

(Voltaire)

Danke für Ihre
Aufmerksamkeit

Florian Engel

Agile by HOOD