



SCRUM @ Hardware?

Agile100 Conference

March 12th, 2021 Dr. Jörk Hebenstreit

Some examples





New concept with innovative USP's, 30% carry over parts





The management saw no chance to develop the vehicle in 18 months from the idea to the trade fair with the established processes in their own organization.

- » Core team with its own employees (100 % dedicated) and external engineering resources
- » Agile collaboration with engineering service provider (one team one goal)
- » Common working environment co-located (core team and system engineers of the service provider)
- » Experienced SCRUM coach trains and accompanies the team (full-time at the beginning)
- » Sprint length one week
- » Reviews with decision-makers every week (practically no reporting to committees)
- » Very early feedback from real customers (multiple)
- » Product development process adapted (lean and agile)
- » Involvement of the internal organization (transparency, discussions, openness)
- » Early cooperation with regulatory body (TÜV)





Early customer feedback



source: MAN





Daily and Review in the assembly area (Engineers and Technicians)



source: MAN



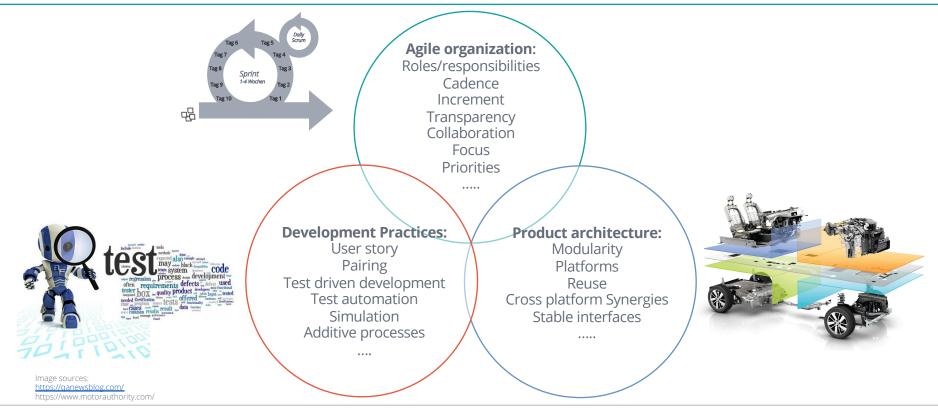
SCRUM Room, Saab



source: Scrum Inc.



SCRUM@Hardware goes beyond pure methodology





We embrace agile methods as the engine driving innovative solutions and collaboration to amplify economic, ecologic and social benefits across our planet.

Through this work we have come to value:

Cross functional team collaboration *over* specialization, process and tools Modularity *over* tightly-coupled solutions Continuous customer collaboration *over* inflexible contracts. Useful continuous delivery *over* a single comprehensive delivery Extending development through manufacturing *over* fixing problems in the field Useful continuous documentation *over* comprehensive documentation

That is, while there is value in the items on the right, we value the items on the left *more*.

* https://agileproductcharter.org/

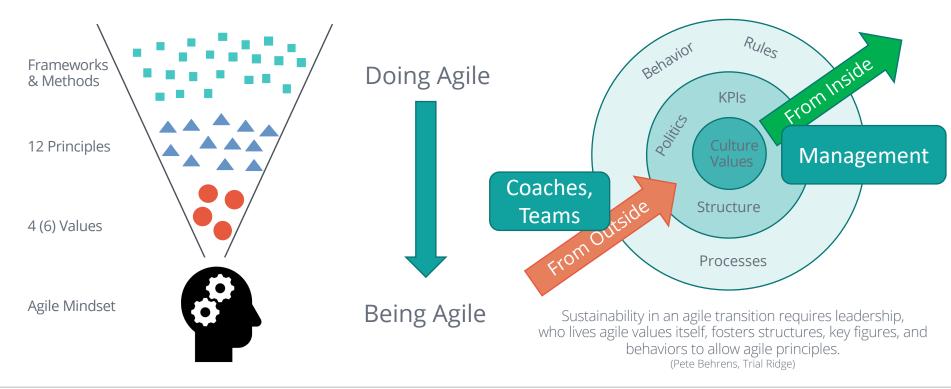


Challenges



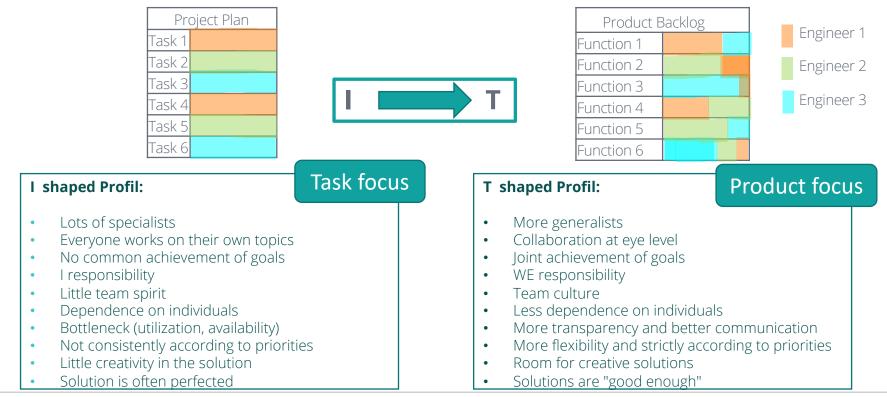


Agile is not only a new Buzzword – it's a cultural change of how we are going to work in an organization





The capability profile of Engineers might need to change











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