

overall system.

—— Delegating responsibility: success through teamwork

“Managers need to delegate responsibility to the team and trust them to get the job done,” says Pilster. The team organizes itself and takes responsibility for its own actions, for example by helping to choose new team members. Most of the coaching and support the team needs for its work come from a scrum master, who is tasked with improving the way in which the team works together within the organization. The scrum master can mediate between individual team members, other related teams and managers in situations where the team is unable to overcome obstacles on its own. Communication is the key in these cases.

“There are certain tasks where agile might not be the best approach, however. That’s why we’re not aiming to abandon methods that have worked well for TRUMPF in the past, but rather to combine both approaches,” says Schlegel.



Agile methods have long been used in software development, but now they are making inroads into other areas such as mechatronics. The fully automated [TruLaser Center 7030](t3://page?uid=700) was developed using agile methods. – Andreas Weise



(From left to right) Livia Greisiger, Kai-Uwe Hüber, Daniela Schindler, Julian Gergen, Daniel Stannard (computer science trainer) and Torsten Klaus (group manager for technical apprenticeships) with their ‘TRUMPF cube’ – in this case a digital key box. – Andreas Weise

—— What does agile working look like in practice?

The best way to successfully adopt agile methodologies is to learn them from an early stage. “We need even more support from the government in training and developing people’s agile skills. We need to make digitalization a fundamental part of primary, secondary and higher education,” says Maassen. That’s why TRUMPF has already incorporated elements of work 4.0 in its training programs for young talent. TRUMPF was the first company in Germany to employ a dedicated trainer for the topic of connected industry, whose mission is to prepare young trainees for digital working environments and provide them with the necessary skills.

—— TRUMPF fosters young talent’s digitalization skills

One example of this approach is the TRUMPF cube initiative – a collaborative, interdisciplinary development project for students enrolled on a co-op work-study program at Baden-Wuerttemberg Cooperative State University (DHBW). The project covers everything from the modelling and construction of the cube right through to its marketing. The metal cube’s dimensions are fixed, but the students can apply their creativity to deciding what function the product should have. One of the designs the students came up with was a digital key box, in which a mechanical claw automatically ejects keys from the cube via a 3D printed ramp at the push of a button. The interdisciplinary nature of the TRUMPF cube project makes it a genuinely collaborative process. This example brought together electrical engineering students to handle the electronics, mechanical engineering students to plan the individual components and produce them on a 3D printer, and computer science students to program the cube. “This type of collaboration is a particularly powerful learning experience because



students working on a TRUMPF cube constantly have to take into account the ideas and requirements of the other disciplines," says Torsten Klaus, group manager for technical apprenticeships.



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