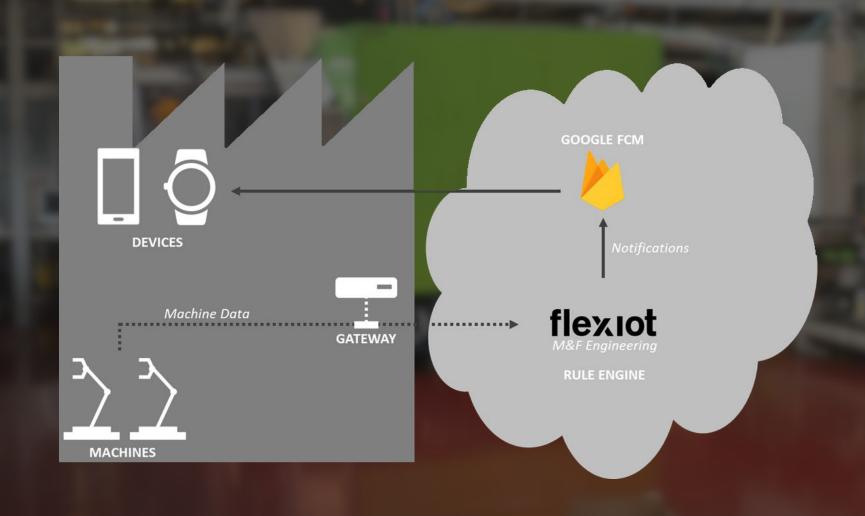
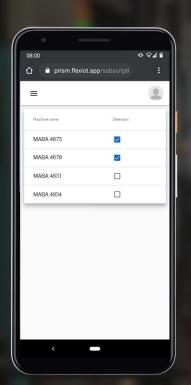
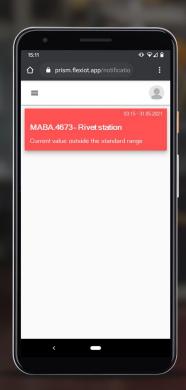


Monitoring Framework for Manufacturing Environments



Mobile and Wearable Monitoring Apps



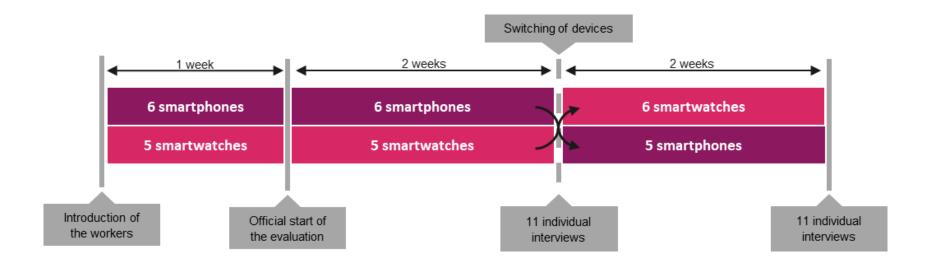






App Evaluation

- User Study under running production at Geberit during May and June 2021
- 1 week pre-test:
 - Participating production workers became familiar with machinery monitoring apps
 - Solved potential technical problems which might occur under productive conditions
- 4 weeks study with switching devices at half-time
- Semi-structured individual interviews regarding the participants' experiences with the app



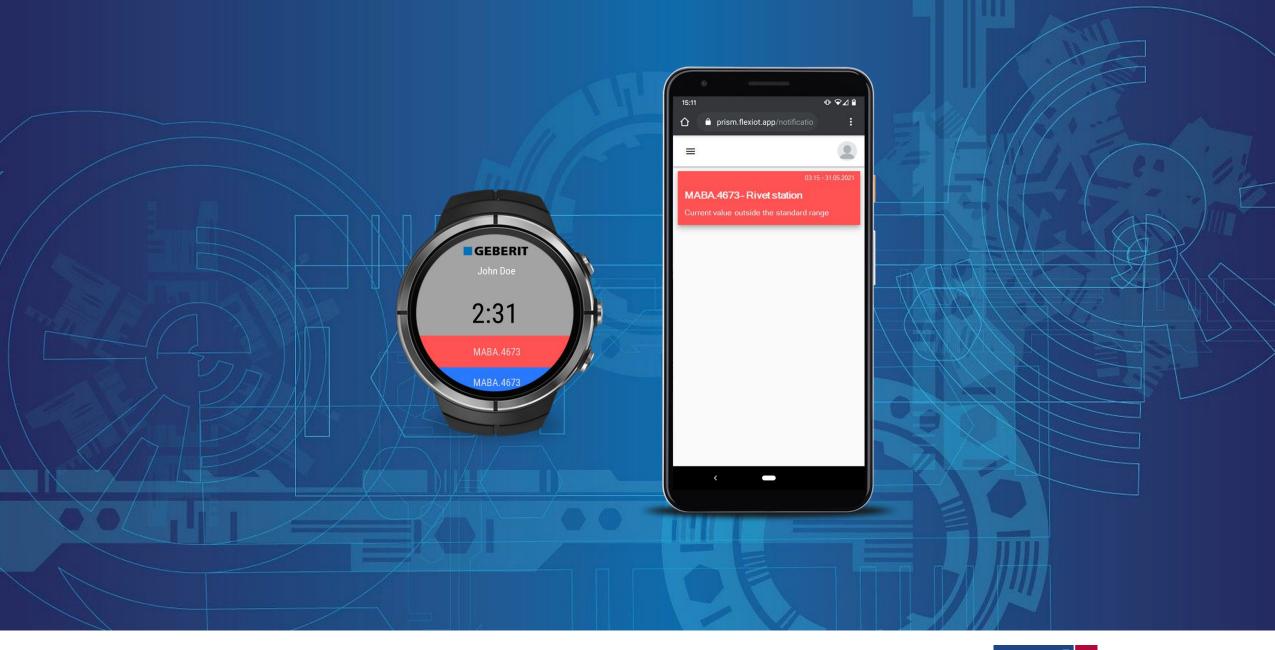
Results

- Very high SUS scores for both apps (smartphone: 95.2 / smartwatch: 95.9)
- All participants emphasized the advantage of the monitoring apps for situations, "when the machines are out of the worker's sight or cannot be heard"
- "Sometimes I'm completely focused on one machine, then the app is very helpful to keep an eye on the other machines"
- All participants agreed that the smartwatch is superior to the smartphone for the purpose of machinery monitoring
- Compact presentation of the relevant information without any additional input, confirmation, etc. is key for worker satisfaction









Website: PRISM - Preventive Intervention in Smart Manufacturing

Contact: Prof. Dr. Matthias Baldauf, IPM-OST





