

ARENA2036

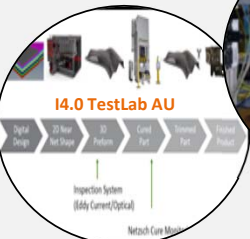
# I4Produktion

# Cognitive Digital Twin towards Factory Resilience

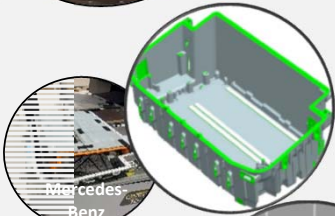


## Digital Twins Real-Time context capturing

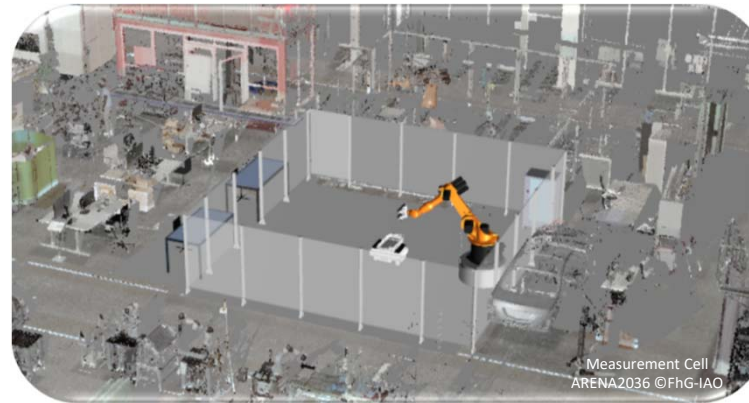
Complex and holistic  
production  
demonstrators



Product,  
Process, Factory  
Digital Twins



Real-time data  
capturing and  
management



## Real-Time Product, Process, Production Simulation and Optimization



Robotics and autonomous  
vehicles (AGVs)



Production simulation and  
optimization

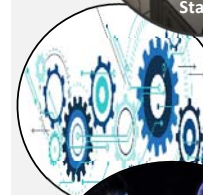
## AI-based adaptive production and continuously improvement



Context reasoning and  
interpretation



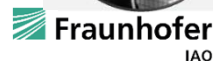
Simulation, Analysis,  
AI-based Optimization



Optimization measures and  
automation



Connected humans  
and Digital Twins  
Knowledge without  
border



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