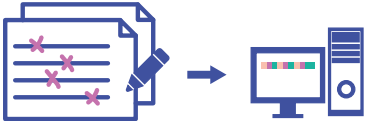

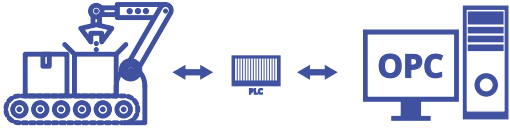


	Plant new to OEE measurements	Plant understands OEE, machines without networked-PLC	New machines and for more complex measurements
What	 <p>Manual measurement (either on paper or digital)</p>	 <p>Measurements using hardware IOT device</p>	 <p>Complex measurementst using Software OPC</p>
Advantage	Easy start without complex setup. You really get a feel for OEE	Easier setup than OPC	More complex measurements possible. Final solution in most cases.
Disadvantage	More work for the operators Less detailed measurements	Limited amount of signals	Installation is more complex than IOT
Additional information	Continu for 8-12 weeks until the whole plant understands OEE	-	In order to reach the final solution, a train-the-trainer program will be supported by Cierpa to ensure that the necessary knowledge is available at every plant.
Support supplied by Cierpa	We can provide train-the-trainer workshops and training materials	The hardware installation of the IOT device can be performed by the technicians that are commonly utilized by the site. They only need knowledge of electrical signals and understanding of the production line layout. We provide installation manuals and signal validation tools.	For software OPC we will perform the installation remotely and we will need access to the local network and support by a system administrator.