Use Cases \ Requirements	optimization			machine control			digital twins							interfaces & support				human-factor					visualization	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	knowledge about upstream and downstream processes	optimization at a global scope	immediate knowledge about unexpected situations	consistent real-time handling of production and sensor data	control technology for the plant (timing independent)	Low Latency for time-critical tasks	logical connection between DTs	creating and managing DTs	inherited structure for DTs with different varaints or configurations	basic DTs and advanced DTs	cascaded structure of DTs for subsystems	exchange format for DT-description	unified communication interface for DTs	algebraic optimization	AI / ML	manual input for additional data in DTs	AR / VR / XR	DT for humans	human interaction with the metaverse	protection of personal employee data	support of the employees in the execution of the work	real time notification of the employee	visualization of processes	visual guidance for tasks
Scheduling	3	3	2	3	1	0	3	3	1	1	1	1	1	3	3	2	1	2	2	2	2	2	1	1
Simulation	3	2	1	3	2	2	3	2	2	2	2	1	1	3	2	1	1	3	1	2	1	1	1	0
Prediction	3	2	1	2	2	2	3	2	2	2	2	1	1	3	3	1	1	3	1	2	1	1	0	0
Sensititvity Analysis	3	2	0	2	0	0	3	2	2	1	1	1	1	2	2	1	1	2	1	2	1	0	1	0
Predictive Maintenance	2	3	3	2	1	1	3	3	2	2	2	1	1	2	3	3	2	1	3	1	2	3	2	2
Quality assurance	2	2	3	3	1	1	3	3	2	1	1	1	1	2	2	3	1	1	3	0	1	0	0	1
Mean	2.7	2.3	1.7	2.5	1.2	1.0	3.0	2.5	1.8	1.5	1.5	1.0	1.0	2.5	2.5	1.8	1.2	2.0	1.8	1.5	1.3	1.2	0.8	0.7

0	not necessary	1	beneficial, but neither important nor necessary	2	important, but not necessary	3	absolutely essential