

ID		Yes (checked) or No (unchecked)	If Yes, is it tool supported?	If Yes check AI/ML support	If Other (Value)	Optional Comment (max 50)	Explanation
A	Which aspects of DT Engineering are covered?						
1	Modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Creating accurate digital representations of physical systems. If yes, check with DEF MBE if model-based techniques are used
2	Simulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Take into account simulation of digital models
3	Data Integration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Combining data from various sources to create a comprehensive digital twin
4	Real-Time Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Continuously updating the digital twin with real-time data from sensors and other sources
5	Predictive Analytics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Using the digital twin to predict future states and behaviors of the physical system
6	Optimization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Enhancing the performance and efficiency of the physical system through simulations and analysis
7	Interoperability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Ensuring that the digital twin can communicate and work with other systems and digital twins
8	Scalability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Developing digital twins that can scale to complex systems and large datasets
9	Security and Privacy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Protecting the data and operations of the digital twin from unauthorized access and breaches
10	Lifecycle Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Managing the digital twin throughout the lifecycle of the physical system from design to decommissioning
11	User Interaction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Providing interfaces and tools for users to interact with and analyze the digital twin
12	Federation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			If Federation is explicitly mentioned, please collect all the given definitions.
13	Traceability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			If Traceability is explicitly mentioned, please collect all the given definitions.
14	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			If other, please add the value.
15	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			If other, please add the value.
16	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			If other, please add the value.
17	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			If other, please add the value.
18	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			If other, please add the value.
B	Any evident relationships between Modeling, Federation, and Traceability?						Report any useful information about combination of at least two of these topics
1	Modeling and Federation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Both concerns are taken into account AT THE SAME TIME
2	Modeling and Traceability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Both concerns are taken into account AT THE SAME TIME
3	Federation and Traceability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Both concerns are taken into account AT THE SAME TIME
4	Modeling, Federation and Traceability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			All concerns are take into account AT THE SAME TIME
C	Application Domains						
C1	Use Case-related Application Domains						First, check if the selected study is related to any use cases
1	Railway (ALSTOM)	<input type="checkbox"/>					Check WP1 information for additional information about the UC
2	Energy Microgrid (Siemens)	<input type="checkbox"/>					Check WP1 information for additional information about the UC
3	Renewable Energy (CleanWatts)	<input type="checkbox"/>					Check WP1 information for additional information about the UC
4	Manufacturing (Thinglink)	<input type="checkbox"/>					Check WP1 information for additional information about the UC
5	Automotive - Buses (OTOKAR)	<input type="checkbox"/>					Check WP1 information for additional information about the UC
6	Aerospace Robotics (Leonardo)	<input type="checkbox"/>					Check WP1 information for additional information about the UC
7	Internet Of Things - Bridge Building - Railway (CNET)	<input type="checkbox"/>					Check WP1 information for additional information about the UC
C2	Generic Application Domains (up to 5)						Otherwise, select (up to 5) generic application domains.
1	Select an Application DTE Domain	Not Available					If you choose the Other option, please add the value
2	Select an Application DTE Domain	Not Available					If you choose the Other option, please add the value
3	Select an Application DTE Domain	Not Available					If you choose the Other option, please add the value
4	Select an Application DTE Domain	Not Available					If you choose the Other option, please add the value
5	Select an Application DTE Domain	Not Available					If you choose the Other option, please add the value