## **CHECKLIST FOR DEVELOPER AND REVIEWER**

O Yes / No

Capture of Al/ML Constituent Requirements
<ul> <li>Have you captured all requirements necessary to design and implement the AI/ML constituent?</li> </ul>
○ Yes / No
<ul> <li>Have you allocated subsystem requirements to the AI/ML constituent?</li> </ul>
○ Yes / No
<ul> <li>Has the AI/ML constituent's safety requirements been captured?</li> </ul>
<ul> <li>Performance: [YES/NO]</li> <li>Reliability: [YES/NO]</li> <li>Resilience: [YES/NO]</li> </ul>
• Have information security requirements for the AI/ML constituent been captured?
○ Yes / No
<ul> <li>Are functional requirements for the AI/ML constituent captured?</li> </ul>
○ Yes / No
<ul> <li>Are operational requirements for the AI/ML constituent captured, including: - ODD monitoring: [YES/NO] - Performance monitoring: [YES/NO] - Detection of OoD input data: [YES/NO] - Data-recording requirements: [YES/NO]</li> <li>Are non-functional requirements for the AI/ML constituent captured, such as: - Scalability: [YES/NO]</li> <li>Have interface requirements for the AI/ML constituent been captured?</li> </ul>
○ Yes / No
Definition of AI/ML Constituent ODD Parameters
<ul> <li>Has the set of parameters pertaining to the AI/ML constituent ODD been defined?</li> </ul>
○ Yes / No
• Are these parameters traceable to the corresponding OD parameters when applicable?
○ Yes / No
Trustworthiness Analysis
• Is a trustworthings analysis being performed for the AI/MI application?

Are all four building blocks of AI trustworthiness (Figure 3) being considered: - Data quality: [YES/NO] - Model validation: [YES/NO] - Explanation and transparency: [YES/NO] - Monitoring and auditing: [YES/NO]

## **Types of Learning**

- Is the AI approach data-driven?
  - Yes / No
- Are supervised learning, unsupervised learning, and reinforcement learning being considered: Supervised learning: [YES/NO] Unsupervised learning: [YES/NO] Reinforcement learning: [YES/NO]