

Applying the EU-CEM in the MODI project

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One of the main elements in the development of the evaluation methodology for the MODI project [1] was the collaboration with the FAME project and in particular the application of the European Evaluation Methodology (EU-CEM) which was developed in parallel. The first version of the MODI Evaluation Methodology [2] was developed based on the FESTA Handbook [3] at the beginning of the project in 2023. A key task of the MODI evaluation team was then to integrate the content from the FAME project, i.e. familiarize people with the EU-CEM. This process began with the participation of MODI representatives at FAME workshops or in the summer school and was completed with an update of the MODI evaluation methodology based on the EU-CEM at the beginning of 2025. At the same time, the application of the EU-CEM draft version allowed detailed feedback and recommendations from the MODI project to be provided for the further development of the EU-CEM, which is presented in this abstract. Therefore, the MODI project provides some best practices and lessons learned from the evaluation methodology perspective as a result of joint effort between the MODI evaluation team.

The best practices and lessons learned of the updated MODI evaluation methodology [4]:

1. To include and address a GAP Analysis

While the EU-CEM provides detailed instructions on how to perform impact analysis of CCAM demonstrations, gap perspectives are only briefly mentioned, and then in a more limited frame than the gap analysis being performed in MODI. Referring to Section 3.3 of the EU-CEM, and the term “Societal scenarios”, we however believe that this could potentially be expanded to incorporate a wider range of ecosystem and societal aspects than it currently caters for and thus be a starting point for including gap analysis in the evaluation framework for CCAM pilots. This would in the long term strengthen the potential for moving the technology from “proof of technology and functionality” demonstrations, to meeting real-world conditions and user requirements for sector-specific functionality and economic sustainability. [4]

2. Integration of social readiness

More specifically, we recommend incorporating societal readiness into the EU-CEM methodology, making it an equally important evaluation field alongside impact assessment and technology readiness assessment. Evaluating societal readiness in EU projects is gaining increasing attention, as confirmed by drafts for the work programmes for 2025 and beyond. Moving forward, it will be crucial not only to include social science and humanities (SSH) experts but also to evaluate societal readiness in a structured and replicable manner. [4]

3. The Logistic sector

An additional lesson learned, pertains to logistics. The MODI project focuses on the logistics sector and how to enable the deployment of CCAM within it. While the EU-CEM provides an extensive methodology built on numerous previous projects, the framework could emphasise logistic processes and requirements more. For instance, logistics scenarios could be included in the descriptions of the lower-level scenarios in Section 3.3 of the EU-CEM. The logistics sector depends on automating much more than just the driving process itself. There are additional technology-related challenges which need to be addressed, and specific logistic processes such as customs declarations, which may also have to be digitalised and automated for the logistics sector to have a viable business case for deploying CCAM. [4]

To see the successful application of the EU-CEM within a CCAM project, the two evaluation methodologies based on the FESTA Handbook and the updated version based on the EU-CEM are published on the Knowledge Base.

[1] <https://modiproject.eu/>

[2] Moscoso, C., Seter, H., Hung, C., Meland, S.; Hartveit, H.J.L., Pokorny, P., 'Common evaluation framework for MODI-demonstrator, version 1.0' MODI project, 2023,[Online]. Available: <https://modiproject.eu/library/>

[3] FOT-NET Data, 'FESTA Handbook, version 8', Updated and maintained by FOT-Net, CARTRE and ARCADE EU Coordination and Support Actions., 2021. Accessed: Feb. 22, 2023. [Online]. Available: <https://www.connectedautomateddriving.eu/methodology/festa/>

[4] Moscoso, C., Seter, H. Meland, S. Mølnevik, G., Ryghaug, M (SINTEF); Pokorny, P., Krehic, L., Phillips, R. (TØI), Drossel, P. (BAST), 'Common evaluation framework for MODI-demonstrator, version 1.2', 2025.