

project, but it also has a high ceiling as it is considered one of the most, if not the most, sensitive optical measurement technology.

The added value of the MetAMCII project can be also considered by evaluating the impact on other applications. One should consider that the development work done in MetAMCII was targeted for measuring and generating HCl, but the same techniques can be largely used in detecting and generating many other analytes as well. We estimate that techniques for detecting HCl developed in the project could be used effectively in applications such as emission monitoring (cleanrooms, chemical industry, process industry, ...) and environmental monitoring with a potential market size of 5 million EUR in 2026 (+5 years) and 25 million EUR in 2031 (+10 years).

Economic impact of the static reference materials is challenging to evaluate. The static reference materials will be provided by NPL and VSL after obtaining accreditation. Further, they will use these reference materials to provide certification services to customers. Besides in clean room monitoring, such reference materials will be used for emission monitoring from industry. The combined value of such services is estimated to be of 0.3 million EUR in 2026 (+5 years) and 1 million EUR in 2031 (+10 years).

CONCLUSION

The economic impact of MetAMCII project is discussed in this summary report. The impact is challenging to evaluate as some of the developed techniques are still in the research grade and despite the high ceiling of the techniques, the techniques still need to be refined and productized before they can enter the market. Moreover, the techniques developed in the project can be also used in other high-impact applications, such as in emission and environmental monitoring. By combining the estimated achievable market potential in cleanroom and in other key applications, we estimate that the market value is 8 million EUR in 2026 (+5 years) and 40 million EUR in 2031 (+10 years).