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# D 5.9 Lighthouse experimentations results v1

## WP5 – Cross-Border Industrial Experiments

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## Executive Summary:

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This deliverable reports on the first results of the lighthouse experiments carried out in three different domains: Automotive, Cutting tools and Materials.

While the technical aspects of the experiment have been dealt in the factsheet associated to the demonstrators, here the focus is on the business aspects.

Each one of the three use cases analyse the impact of MIDIH solutions in the factory operations and the impact on the business indicators.

Thanks to MIDIH based solutions, CRF is expecting an increase in the plant productivity, reduction of the environmental impact and a lower cost for vehicle produced.

In terms of business NECO expects to reduce the need to rework the parts of the 25% and reduce the defective products by 10%.

Finally, the experiment carried out by IDSA, ThyssenKrupp and IBM in the materials domain aim at creating a trustworthy ecosystem for transfer of data, process industrial Additive manufacturing orders in a fast, traceable and reliable manner and protect IP and assure quality.

# 1 Introduction

## 1.1 Scope of the deliverable

The main objective of the WP5 is the definition and implementation of a common methodology to design, perform and evaluate the Lighthouse Experiments and the cross-border ones derived from the Open Calls.

The present document describes the first results of the experiments with focus on the business aspects and impact.

## 1.2 Contribution to other WPs and Deliverables

The “D5.9 Lighthouse experimentations results v1” will be the reference point for the following deliverable

The picture below (Figure 1) presents graphically the relation between WP5 and other WPs and deliverables.

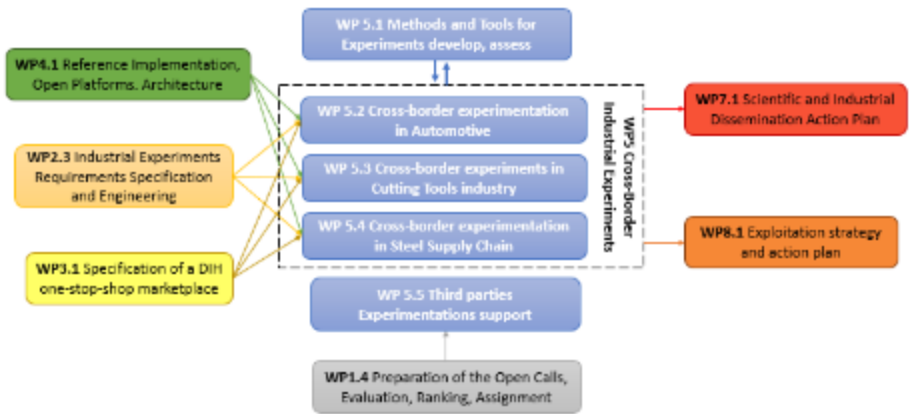


Figure 1. WP5 Relationship with other Tasks and Deliverables

## 1.3 Structure of the Deliverable

The deliverable is structured in three section, where each one of the use case leaders, CRF in Section 2, NECO in section 3 and IDSA in section 4 analyses the business problem, the solution provided by MIDIH and the impact on the business aspects.



## 2 Conclusions

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This deliverable reports on the first results of the lighthouse experiments carried out in three different domains: Automotive, Cutting tools and Materials and the expected impact on the business aspect. On M36 the second version of this deliverable will report about the whole experiments carried out, will include results of the experiments of the open call winners and a complete analysis of the KPI.

## References

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## List of Acronyms and Abbreviations

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ID	Comments