



Automated Production

FLAG-6



smart

advanced manufacturing

ORGANISATION PROFILE

Insert brief description of the leading organisation: Name, Personnel, Size, Products/Services/Technical areas and R&D project expertise.

Name: Agoria-FLAG

Size companies: large enterprises, open for SME's in the consortium
Research organisations: Sirris, KULeuven

Products:
The companies build parts for applications in aerospace sector.

Technical areas and R&D expertise:

- Design and production of (critical) aerospace parts
- Technical areas: aerospace
- R&D expertise: profound expertise (KULeuven and Sirris more theoretical; the skills that the companies will use in the project and will be more pragmatic)

PROPOSAL INTRODUCTION (I)

Vision: main project goal

Enhance the resilience and competitiveness of local companies through digitization and automation. The focus is on processes that are more difficult to automate or that have not been or taken in account during the past design phase.

Motivation: Small countries and regions do not have important domestic OEMs on their territory so the need to be a strong and unique supplier is essential to be selected as a partner. Becoming and remaining a best class player is therefore a must. Most countries see aerospace, either through civil or military projects as 'strategic' because of its high technological content. This RRF support and focus is part of the essential elements to maintain and reinforce Flanders and Belgium in that sector.

Content: automation and digitization of high mix lox volume products-----

PROPOSAL INTRODUCTION (II)

Expected outcome: descriptions of the results to be obtained in the project
Digitisation and automation solutions for aerospace (low volume high mix).

This project looks particularly into flexible automation, data driven process optimisation and digital tools to make local companies resilient and competitive through digitalisation and automation. The focus is on processes that are more difficult to automate or that have not been or taken in account during the past design phase.

Impacts: what will be the expected market impact of the project

The challenges specific for Aerospace with its low volume high mix production, requires less straight forward solutions in automation. Most solutions that are needed still need to be developed or based on solutions from other industries. For data driven optimisations based on artificial intelligence algorithms, the current state of the art can be applied and combined with automated processes.

Schedule: start and end dates for the project. Duration: 2 or 3 years

PARTNERS

Current Consortium: Belgian consortium

Partner search: type of partner searched and countries of origin (if necessary).

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CONTACT INFO

Contact info: of the person coordinating the project proposal

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