FITFAME

CRM Group will be partner of a new research project coordinated by SABCA and funded by the European Space Agency (ESA). This new project aims to study the surface finishing of complex Al- and Ti-based components made by additive manufacturing (AM).

The aim of the proposed research project is to study the surface finishing of complex metallic components made by additive manufacturing (AM) and correlate the achieved surface finish with functional requirements at component level. This will be achieved through:

- Review of the state-of-the art of surface finishing technologies, as well as the selection of two use cases (including their specific requirements);
- Definition of a suitable end-to-end process, including suitable surface finishing technologies for fulfilling the requirements of the selected case studies
- Evaluation of the AM end-to-end process at coupon level, on both alloys;
- Manufacturing and post-processing of demonstrators;
- Testing and assessment of the performances of the two use cases at component level (including benchmarking with conventional manufacturing routes).

Complementary Partnership

To achieve these goals, a consortium has been set up. It must be underlined that one of the strengths of the proposed consortium is its complementarity and diversity, which will, in turn, improve its efficiency and expand the sets of additive and finishing technologies considered. The partners are **SABCA, APWorks, BMT Aerospace, CRM Group and Chimiderouil**.