



The ESA BIC Sud France opened in 2013 and is managed by Aerospace Valley. The center is located in three regions in the south of France (Nouvelle Aquitaine, Occitanie, PACA) , offering entrepreneurs support and technical expertise for the the creation of innovative start-ups. ESA BIC Sud France is composed of the following members providing the best support to business creators: Six support structure: ESTIA Entreprendre, Bordeaux Technowest, CEEI Théogone, Midi-Pyrénées Incubator, BIC Montpellier Méditerranée Métropole and PACA-Est Incubator Two aerospace competitiveness clusters: Aerospace Valley and Safe The French Space Agency : CNES.

OPT'ALM

Opt'ALM transpose on aeronautic domain applications the use of techniques employed on satellite

OPT'ALM
Additive Manufacturing Options

Website

Founded in 2015 by

- **Alain Toufine**

Incubation period

01-12-2015 to 01-06-2017



About OPT'ALM

As the aircrafts become more and more electrical and because many embedded electronic equipment's are more and more powerful, the thermal exchanges in their packaging must be increased while their masses, their production costs must be lower than the present ones.

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The challenge

The implementation proposed by OPT'ALM in a new manufacturing process strongly

coupled with engineering phase (optimization, sizing) integrating very soon the manufacturing constrains. This process is based on the Laser Metal Deposit 3D printing technology. By this way, the architectures can be adapted to thermal and/or mechanical needs. These new structures will be made in monobloc metallic 3 Dimensions (locally with multi-material), with increased global performances (from 3 to 20 times compared to current ones), with reduced lead times and costs (at least 25% compared to current ones). Moreover, it's possible by this technique to build high sized structures (around cubic meter).

The solution

TBD
