



**FAN 3D**





FAN 3D

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# Meet FAN3D



## WHEN WAS IT FOUNDED

**FAN 3D** was founded in August 2019, in Portugal.

## WHAT IS FAN 3D?

**FAN 3D** is an engineering consulting company, whose purpose is to provide the tools and knowledge at its disposal, in order to ensure added value solutions to its customers. We're also an authorized training centre for the International AM qualification system.

A large part of **FAN 3D's** consultancy activity is related to the processes of additive manufacturing/3D printing and welding, being the official representative of several brands of world reference, in these two vast areas.



# Meet FAN3D



## MISSION

**FAN3D** intends to help its clients in their innovative creations, providing the necessary skills and equipment to enhance the creativity and invention of their process

## VISION

Become industry's biggest partner for AM, helping the development of this technology and its new methodologies.

## VALUES

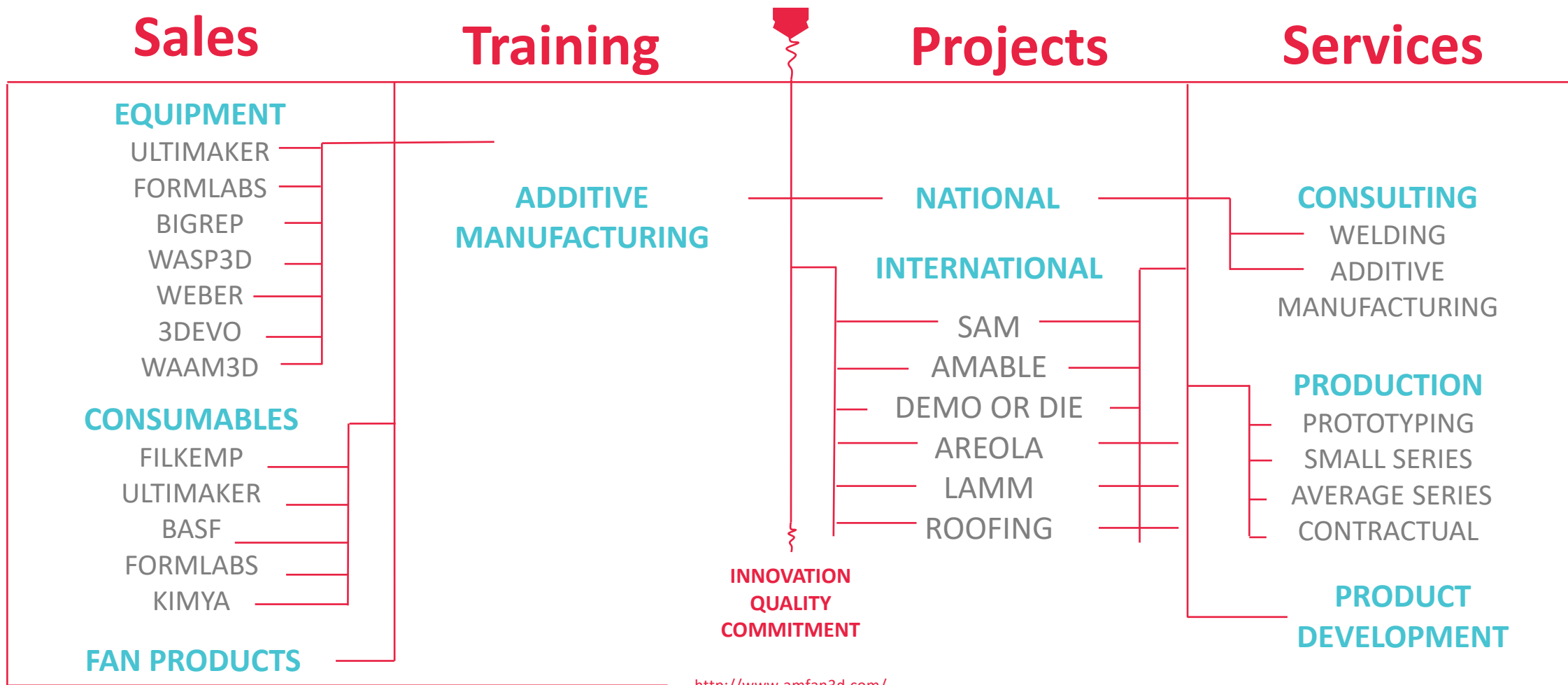
**Innovation:** In an industry that belongs and works for the future, FAN3D is committed to always compete with the most innovative technologies and methodologies.

**Quality:** Always seeking to encourage the development of the industry, we use quality as a basic foundation for our business.

**Commitment:** The collaborative spirit is at the heart of great creations. In this way, we aim to create a community of partners that will help us to encourage additive manufacturing technology.

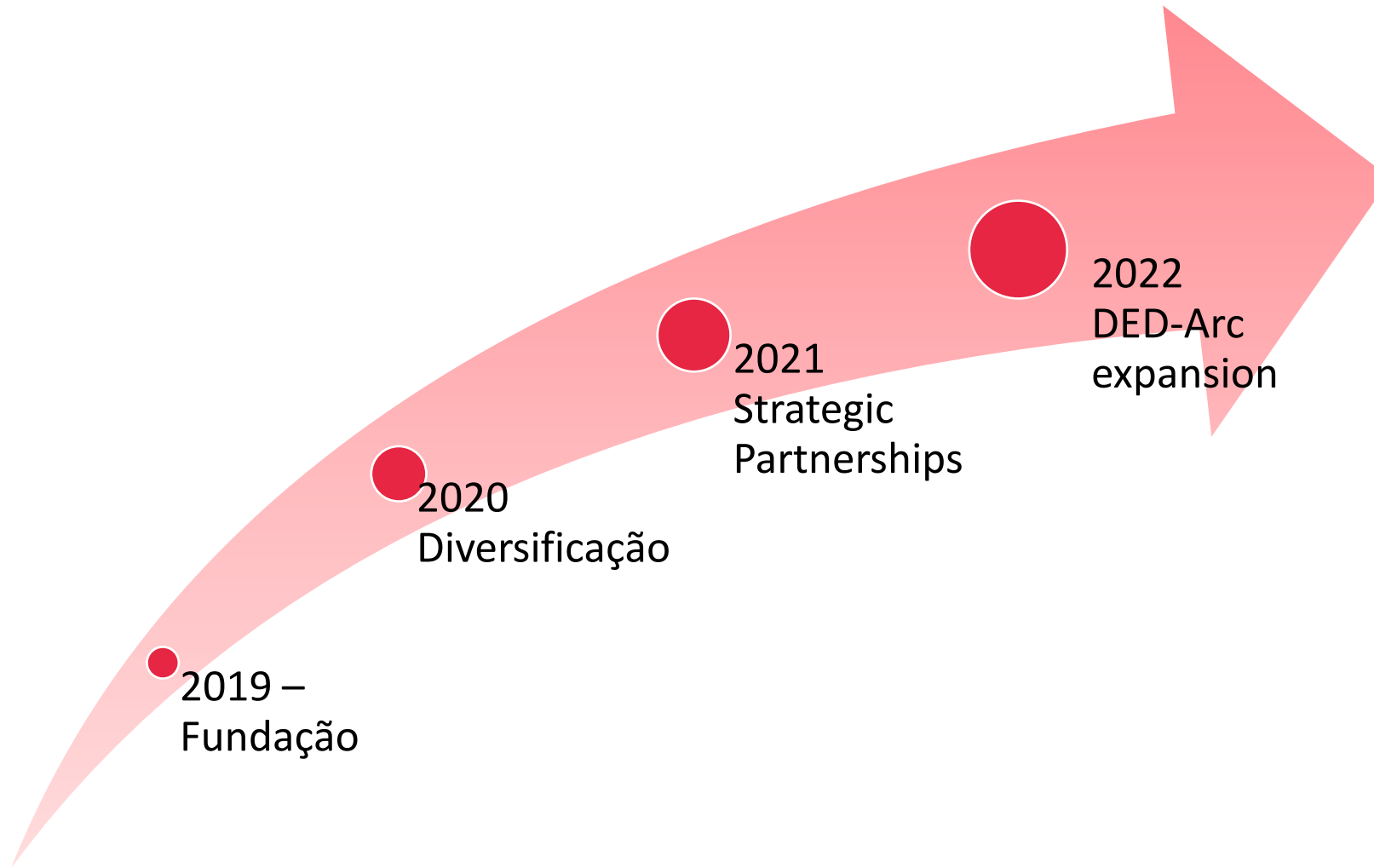


# Meet FAN3D

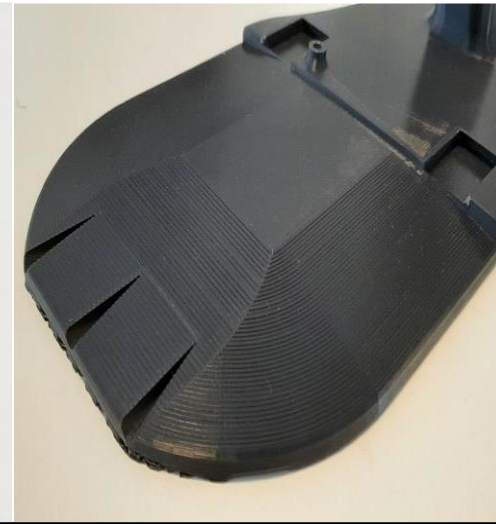
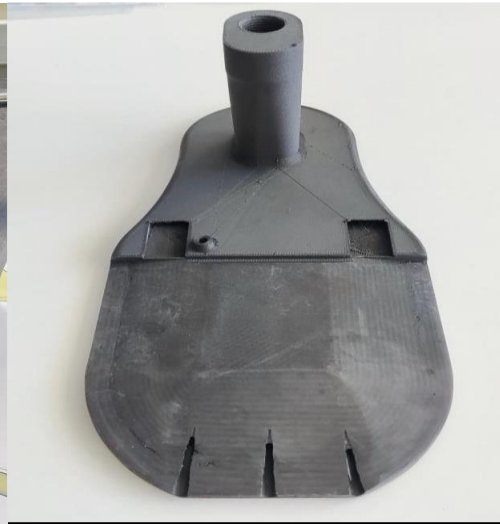
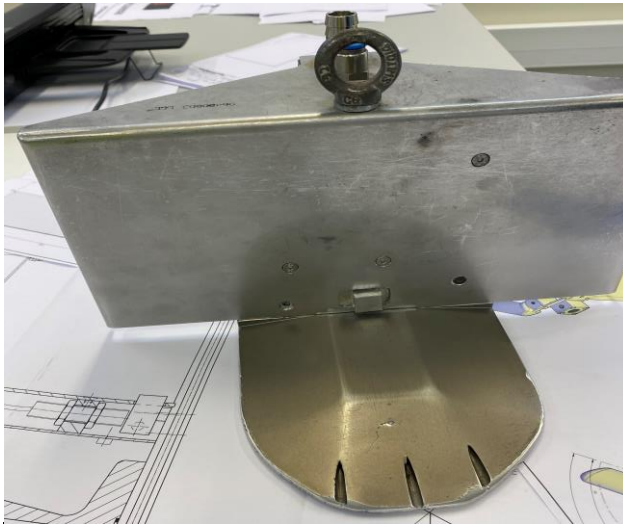




# FAN3D Timeline



# Some interesting cases – “Paper Pusher”

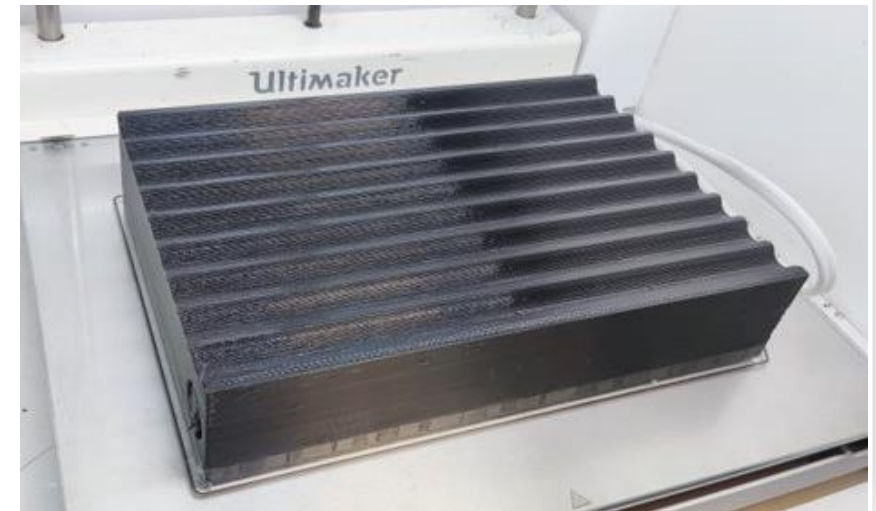


Original:	Material Extrusion prototype	VAT Photopolymerization final part
Metal	CF filled Nylon	ESD resin
Heavy	Cost effective	More expensive than MEX
Expensive	Layer lines undesirable	Good finishing
	Post-Processing difficult	More durable than MEX

# Some interesting cases – ROOFING tile



- **Funded** by the call “GROW/HARVEST Call 1”
- Partnership with **SMASP**
- Four main objectives:
  - Reduce assembly **time** (15%)
  - Reduce total roof **cost** (25%)
  - Better thermal **efficiency** (60%)
  - Lower **Carbon footprint** (40%)









# Our Projects - AREOLA



## OBJECTIVES:

-  Provide a more comprehensive training for PBF-LB Operators using of digital training resources.
-  Reduce the costs associated to PBF-LB practical training (recurring to the use of AR/VR tools)
-  Deliver an innovative Blended learning path supported by training tools for AM PBF-LB Operators VET training.
-  Foster IAMQS implementation, extending its activities in the Aerospace sector.



areola



# Our Projects - AREOLA



# Our Projects - AILEEN



## MOTIVATION:

- To tackle the need for qualifying, Aerospace and Defence personnel through the **“development” of AM Vocational Excellences (CoVEs)**
- **To develop systematic conditions** to guarantee quality of the synergy and cooperation actions across countries.

## OBJECTIVES:

- To develop Advanced Manufacturing technological, digital and green skills
- Update of the European/International Harmonized Curriculums for **Welding Qualifications** and **AM Qualifications** according to the specific requisites of the Aerospace and Defence ecosystems.



AILEEN

# Our Plans For 2024 – DED-Arc



## **WHY?**

Make use of pre-existing know-how  
Reach new markets (both national and international)

## **WHAT?**

We are creating a production center for parts made through metal AM, more specifically DED-Arc.

## **HOW?**

FAN 3D is pursuing this project in partnership with an international key-player in the metal manufacturing scene.

## **WHEN?**

This project is meant to kick-off during 2024, reaching productivity in 2026

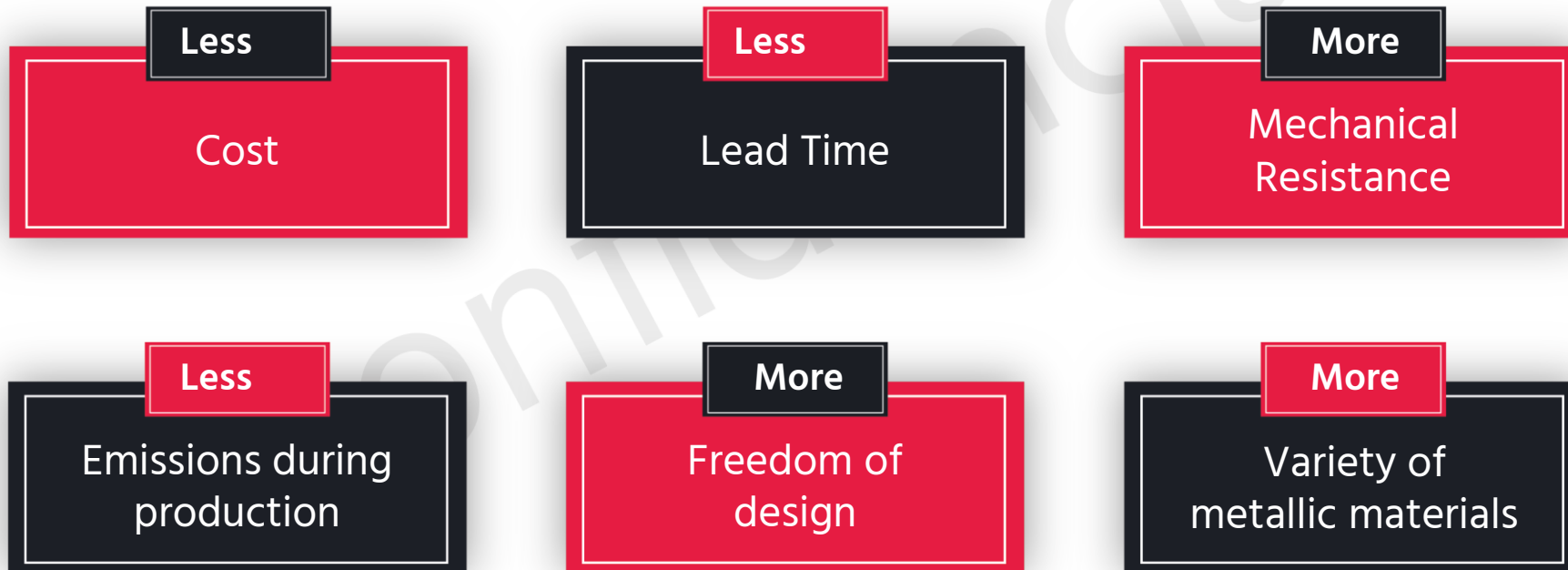


Image courtesy of WAAM3D

# Our Plans For 2024 – DED-Arc



Through this, **FAN3D** offers:





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