

AM INTERACTION DAYS

Luís Fialho

FAN 3D – Route to Additive Manufacturing



EU Industry Week
2021
#EUIndustryWeek



About FAN 3D

ARE YOU—
AM
— READY?

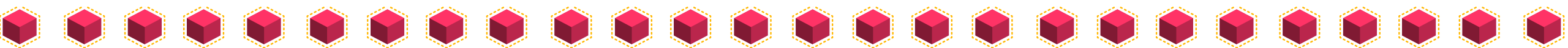
WHEN WAS IT FOUNDED?

FAN 3D is a sartup 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 are also an authorized training body for the International AM qualification system.

A large part of **FAN 3D's** consulting 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.



Why FAN 3D

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FAN 3D was created to deliver the solution!

A gap in the market was observed. A partner that would be able to deliver all the value chain, from consumables to delivering the technology, aiding its implementation.

It was missing a partner that would work with the client understanding its problematic and, through its know-how, delivering the solution, instead of trying to upsell a brand only to comply with KPIs.

A partner that would have the necessary AM background.

And that partner is **FAN 3D**!



Our Statement

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— READY?

MISSION

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

VISION

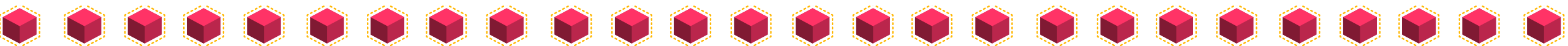
Become industry's biggest partner for AM, helping the development of this technology and its new methodologies.

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.



The background features a repeating pattern of pink 3D cubes, each outlined with a dashed yellow hexagon. A large teal rectangle is positioned on the right side of the image, containing the text "OUR TEAM" in white.

OUR TEAM

FAN 3D Team

ARE YOU—
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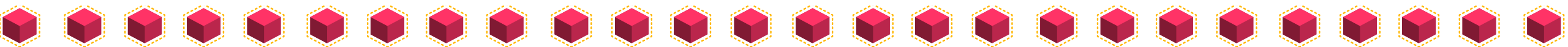
Luís Fialho
CEO



David Barbosa
Project Manager

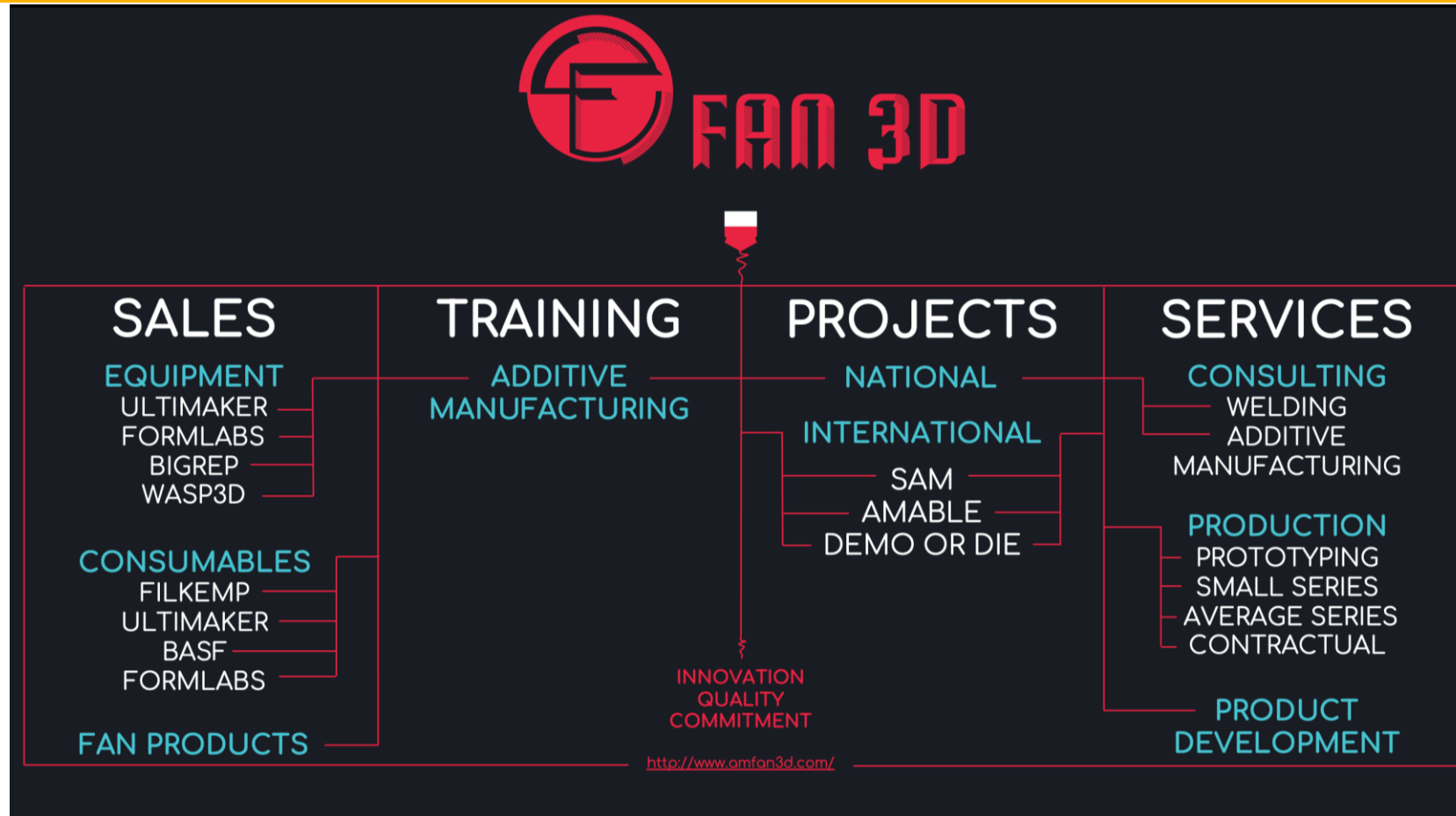


António Hussen
Head of Marketing & Communications



Areas of action

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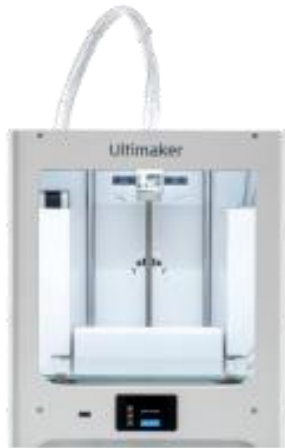
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OUR BRANDS

Ultimaker

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CFS= Compatible filament size



Ultimaker 2+

22,3 x 22 x 20,5 cm

10.3 kg

CFS: 2.85 mm

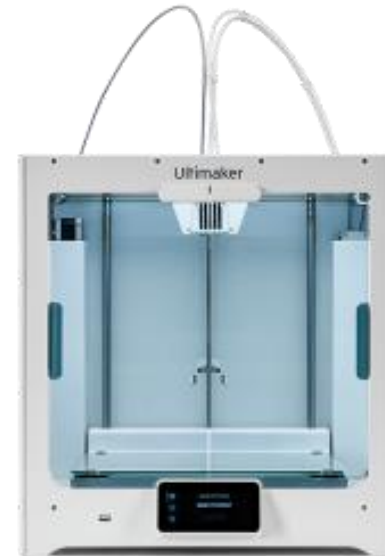


Ultimaker S3

23 x 19 x 20 cm

14.4 kg

CFS: 2.85 mm



Ultimaker S5

33 x 24 x 30 cm

20.6 kg

CFS: 2.85 mm



Ultimaker S5 Pro Bundle

33 x 24 x 30 cm

41.9 kg





Form 3

14.5 × 14.5 × 18.5 cm

17.5 kg

Res: 25μ



Form 3B

14.5 × 14.5 × 18.5 cm

17.5 kg

Res: 25μ



Form 3L

33.5 × 20 × 30 cm

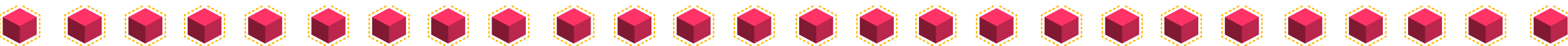
54.4 kg

Res: 25μ



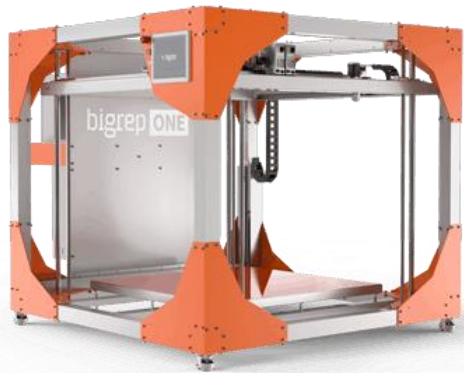
Fuse 1

16.5 x 16.5 x 30 cm





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BigRep One

1005 x 1005 x 1005 (mm)

Compatible materials: PLA, BVOH, PETG, PRO HT,
PLX, HI-TEMP, PVA, TPU



BigRep Studio

1000 x 500 x 500 (mm)

Compatible materials : ASA, ABS, BVOH, HI-TEMP,
PA6/66, PET-CF, PETG, PLA, PLX, PRO HT, PVA, TPU



BigRep Pro

945 x 970 x 985 (mm³)

Compatible materials : ABS, ASA, BVOH, PA6/66,
PETG, PLA, PRO HT



METHOD X

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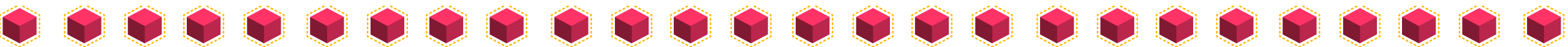
15.2 x 19 x 19.6 cm

Resolution 200μ – 400μ

29.5 kg

Energy: 100-240 V; 8.1A – 3.4A, 50 – 60 Hz; 800 W máx.

Compatible materials: ASA, ABS, NYLON CF, TOUGH, PLA, PETG, NYLON 6
E 12, PC-ABS, PC-ABS FR, SR-30



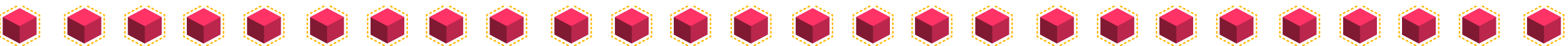
Ø200mm x h400 mm

Minimum layer height: 0,5 mm

Maximum print speed: 150 mm/s

Acceleration: 500 mm/s²;

Material: Ceramic mixtures – Clay, Porcelain, Gres, Earthenware



Consumables

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Ultimaker



formlabs 

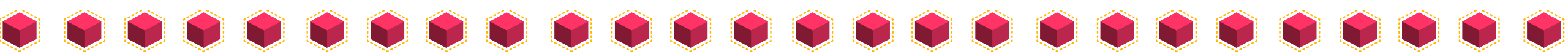



Filkemp[®]



BASF
We create chemistry

FORWARD  **AM**



The background features a repeating pattern of pink 3D cubes, each outlined with a dashed yellow hexagon. A large teal rectangle is positioned on the right side of the image, containing the text 'ADDITIVE MANUFACTURING' in white, bold, sans-serif capital letters.

ADDITIVE MANUFACTURING

The advantages of AM

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Time reduction - It allows to shorten the product chain and obtain the physical product in a short time.

Save material - Reduce waste, using the minimum material indispensable for the production of each part

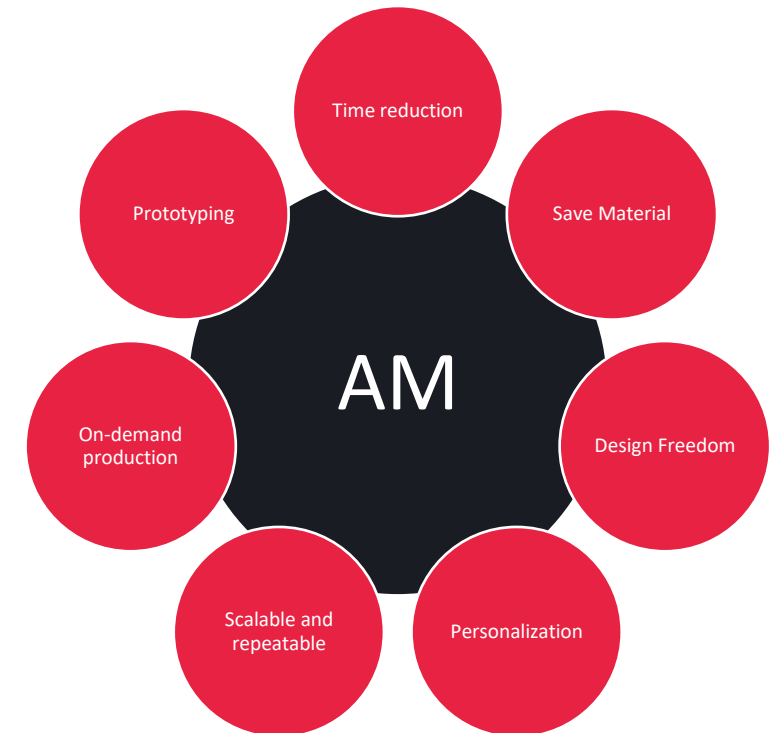
Design freedom - Production of complex geometry products that are not passable or extremely difficult to obtain by conventional processes

Personalization - Quickly change a product and obtain the physical product in a short period of time

Scalable and repeatable - Possibility of increasing production capacity with more equipment without compromising the quality of parts

On-demand production - Production of what you need, when you need it

Prototyping - Production of unique parts that allow testing before moving on to final production

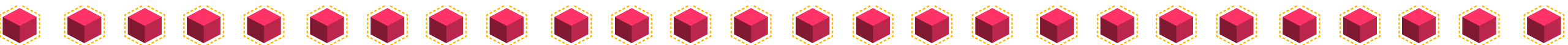


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OUR CLIENTS

FAN 3D Clients

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OUR MAIN SUCESS STORY

Fighting COVID-19

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With the evolution of the pandemic, **FAN 3D** decided to join the fight against this virus, allocating the human resources and equipment it had, in order to support the development and production of parts that allowed and that minimize the risk of contamination.

FAN 3D worked with a wide range of materials (PLA, PETG, ASA, ABS, among others) including a dedicated, high quality composite material based on a lactic polyacid (PLA - polylactic acid). The particularity of this material comes from an additive of copper nanoparticles, which gives it advanced properties and eliminates up to 99.9% of fungi, viruses and bacteria.



Fighting COVID-19

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FAN 3D received a lot of coverage from the Portuguese media with this campaign. Several personalities and companies praised this campaign to help combat COVID-19.

Through social media, a network of hundreds of makers managed by **FAN 3D** delivered more than 9000 3D printed masks, making it one of the biggest donations network national wide.

We think that together we are stronger!



Últimas Covid-19
Todas as notícias sobre o novo coronavírus que está a preocupar as autoridades a nível mundial.
17 Junho 2020



17 Jun 2020

Empresa de impressões 3D ajuda hospitais com produção de viseiras

A empresa portuguesa de impressões a três dimensões FAN3D criou um formulário para a produção de viseiras, de auxílio a hospitais, devido à pandemia de Covid-19, tendo já mais de 50 impressoras aderido ao movimento.

A ideia, criada em 18 de março, seguiu-se a uma primeira produção por parte da empresa Isobeta, que entregou 30 viseiras ao Hospital de Setúbal, o que gerou muitos pedidos de outras instituições hospitalares de todo o país e a entrega de mais materiais médicos elaborados pela FAN3D. O formulário, disponível na página da empresa na rede social Facebook, foi já preenchido por mais de 50 entidades de todo o país, tendo como objetivo angariar pessoas ou empresas que possuam impressoras a três dimensões, de forma a conseguir ajudar hospitais a ter o material necessário para o combate à pandemia de Covid-19.

Tenho uma enorme vontade de ajudar qualquer instituição que precise de material médico nesta complicada altura em que os bens necessários estão a esgotar e toda a ajuda é bem recebida", afirmou o diretor da empresa, Eurico Assunção.



Startup portuguesa está a doar material médico às instituições que precisam
A FAN3D está a fazer entregas em hospitais de todo o País e promete aumentar a escala de produção.

17 Jun 2020



17 Jun 2020

N uma altura em que chegam apelos diários para a doação de material médico, inclusive da Ordem dos Médicos, a startup portuguesa FAN3D decidiu juntar-se ao combate ao novo coronavírus. Durante o último fim de semana, por exemplo, entregaram ao Centro Hospitalar de Setúbal 50 viseiras que foram impressas em 3D.



Covid-19: Empresa de impressões 3D ajuda hospitais com produção de viseiras



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Startup portuguesa, que imprime em 3D, produz agora equipamento para hospitais

23 mar 2020 - 16:12 - Sandra Afonso

O material entregue já está "a ser utilizado no hospital e os grandes resultados". Ainda esta segunda-feira, irão entregar mais peças noutros hospitais.



Foto: FAN3D



Fan 3D: como uma consultora para impressões 3D criou uma rede para imprimir viseiras

A Fan 3d é uma empresa recente de consultoria em engenharia que tinha como foco prestar apoio para a indústria nas melhores práticas da impressão 3D. Agora utilizam este conhecimento as impressoras que têm à disposição para criar viseiras de proteção para os profissionais de saúde, que trabalham nos hospitais. Como conta ao Observador Eurico Assunção, professor no Instituto Superior Técnico (IST), vice-presidente executivo da Federação Europeia de Soldadura e responsável desta empresa: "Como se diz, a ocasião faz o ladrão". Contudo, aqui o lucro não é dinheiro — que não recebem — é ajudarem.

“Val ser um rombo [monetário], mas nem estamos a pensar nisso. Decidimos comprar mais consumíveis [materiais para poderem imprimir]. Se não fizermos, ninguém faz por nós”, desabafa.

Tudo começou quando Eurico falou com “uma colega de centro nacional de Saúde” que lhe disse que não tinham equipamento. Rapidamente foi ver se havia alguma solução para impressão em 3D. No dia do Pai, a 19 de março, já estava a fazer as primeiras viseiras para o Hospital de Setúbal.



Covid-19: Empresa de impressões 3D ajuda hospitais com produção de viseiras



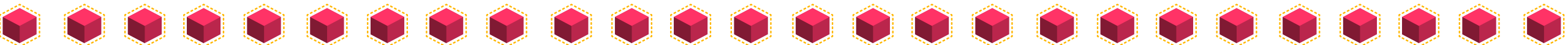
Foto: FAN3D



Exemplo de uma impressora 3D da portuguesa Fan3D/Creative. (Arquivo/Estado Ingerido)

Angariar pessoas ou empresas que possuam impressoras 3D, para ajudar hospitais a ter o material necessário, é o objetivo desta iniciativa.

A empresa portuguesa de impressões a três dimensões FAN3D criou um formulário para a produção de viseiras, de auxílio a hospitais, devido à pandemia da Covid-19, tendo já mais de 50 impressoras aderido ao movimento.



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CONTACTS

CONTACTS

ARE YOU—
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Email: lfialho@amfan3d.com

LinkedIn: @luismarquesfialho

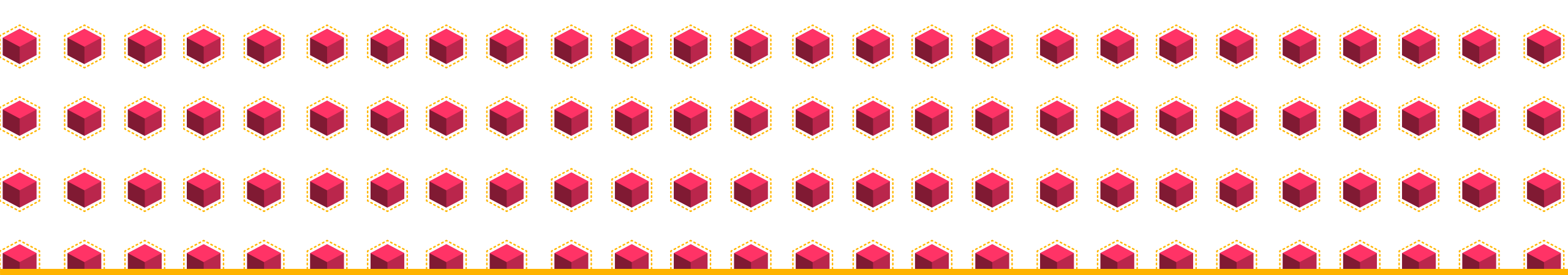
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Store: <http://loja.amfan3d.com/>





Thank you!



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