

FAME

Finnish Additive Manufacturing Ecosystem

Formnext 2024 summary

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Senior Ecosystem Lead





Finland pavilion

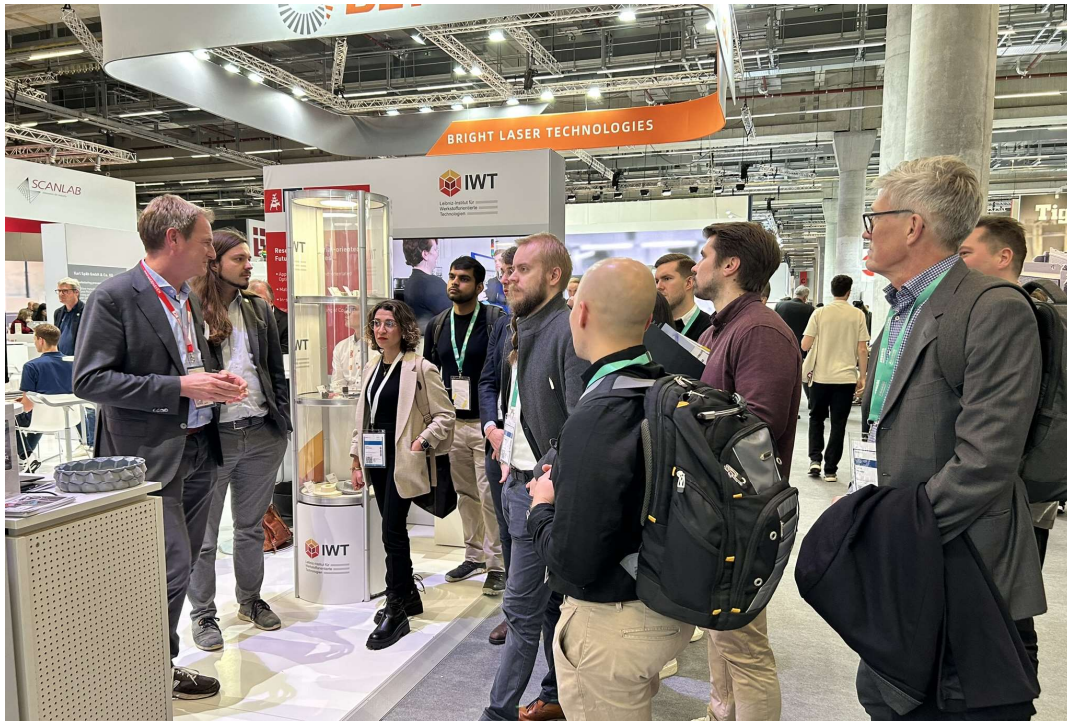
Finland pavilion



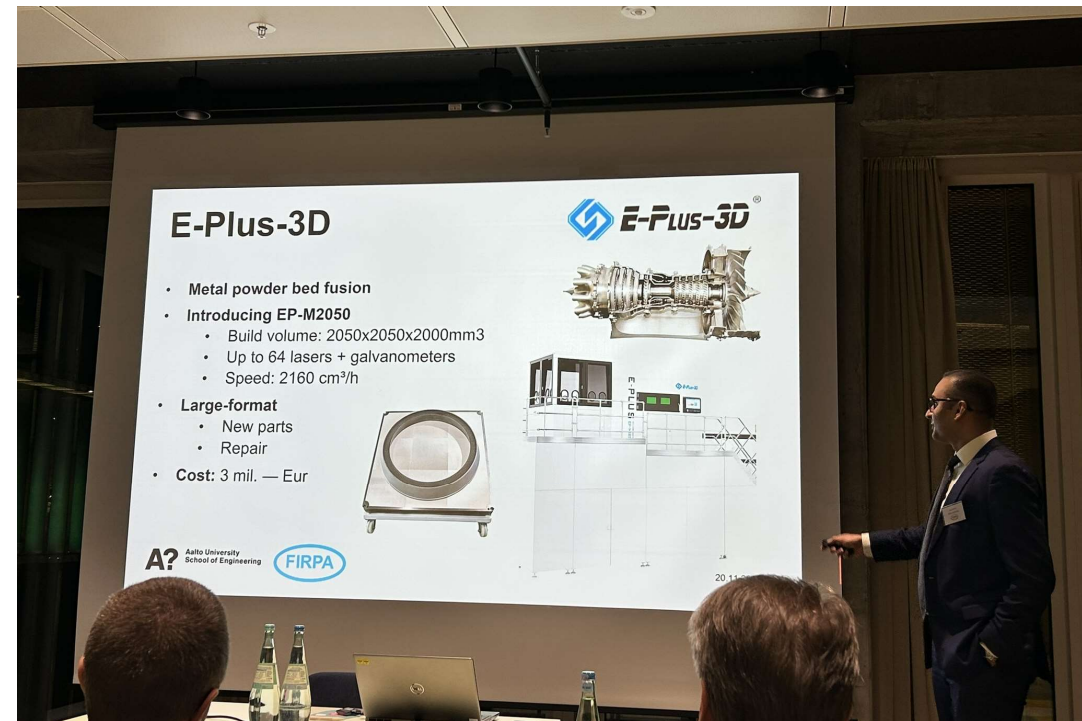
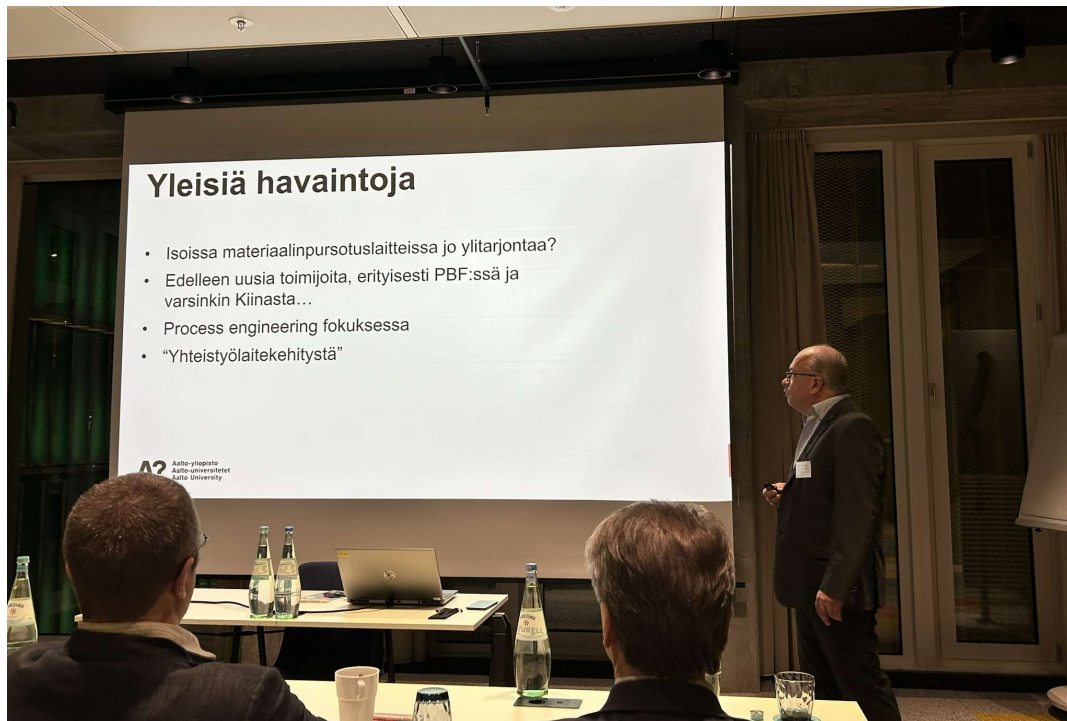
FAME presentations & panel discussions



Group visits



Firpa Formnext summary event



FAME company cases @ important booths

Nikon SLM
SOLUTIONS



WÄRTSILÄ



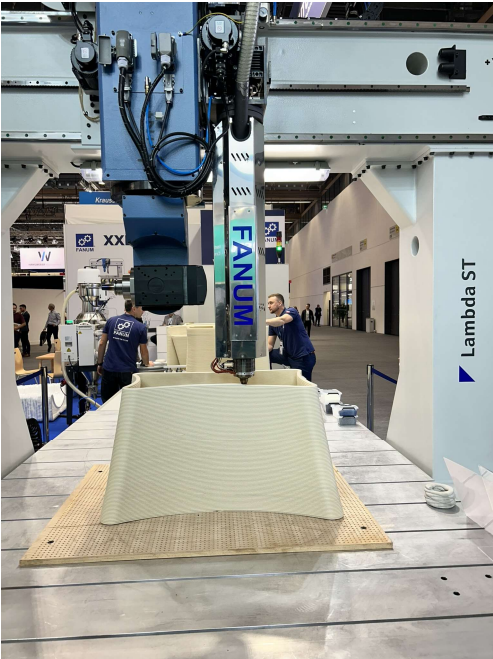
EOS



AMEXCI

Delva

Large scale AM - polymers



Large scale AM – metals L-PBF

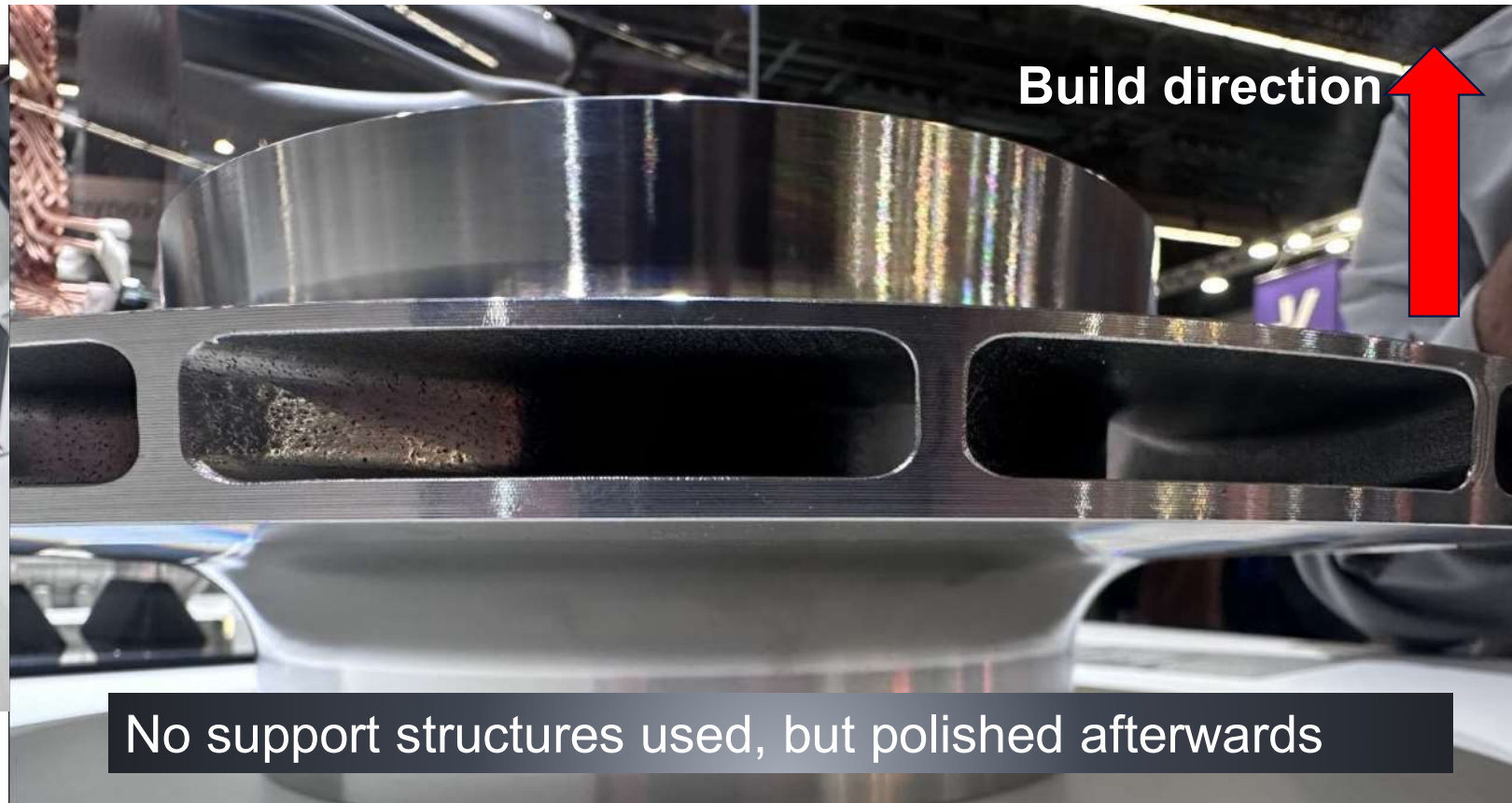


E-plus-3D: EP-M2050 2050 x 2050 x 1100 mm (with a customizable Z-axis up to 2000 mm), 36-64 lasers



Nikon SLM (600 x 600 x 1500 mm, 12 x 1000W lasers, IN718)

Low angle manufacturing



No support structures used, but polished afterwards

Boost productivity
without sacrificing
material quality
with MetalFab™

Ti6Al4V
Gr23

Balanced Parameter

Productivity Parameter



23
hrs

10
hrs

M + **K3D**
Collaborative Development

L-PBF – optimized parameters

Additive industries

Large scale AM – metals DED

New and better software
Temperature and melt pool
monitoring systems



WAAM3D

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Meltio: wire & laser



Norsk titanium
(WAAM)

Caracol:
WAAM

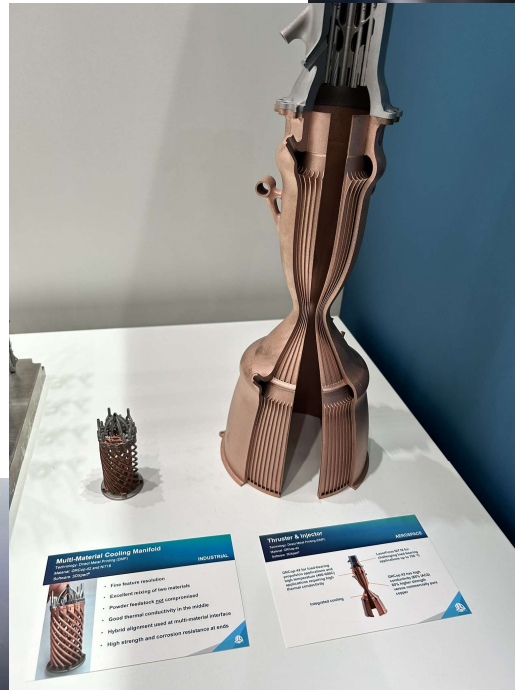


MX3D: WAAM

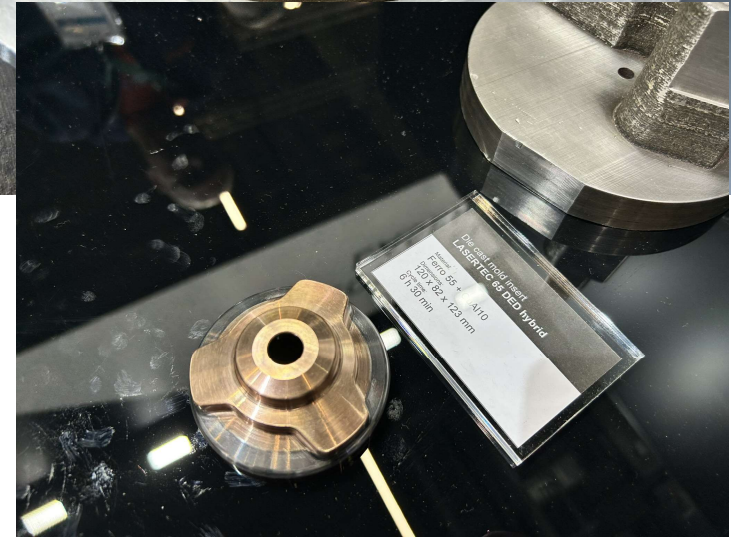
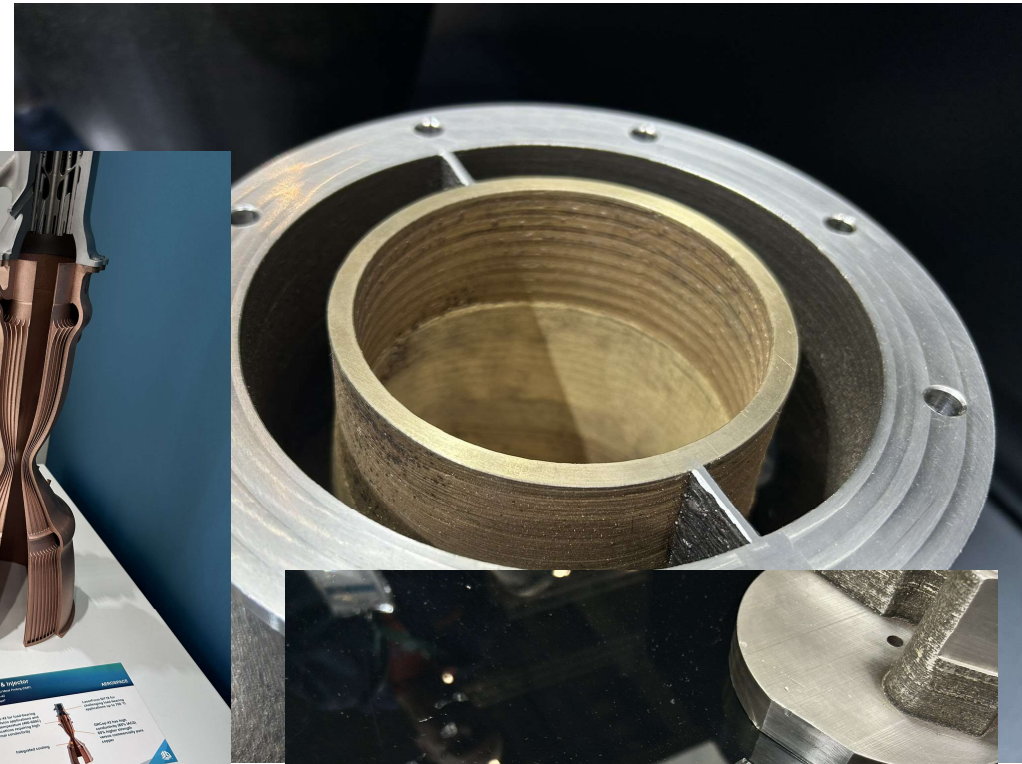
Metal multimaterial examples



Nikon SLM



3D Systems



DMG Mori, DED Hybrid (CuAl10 + 316L / Ferro 55 + CuAl10)

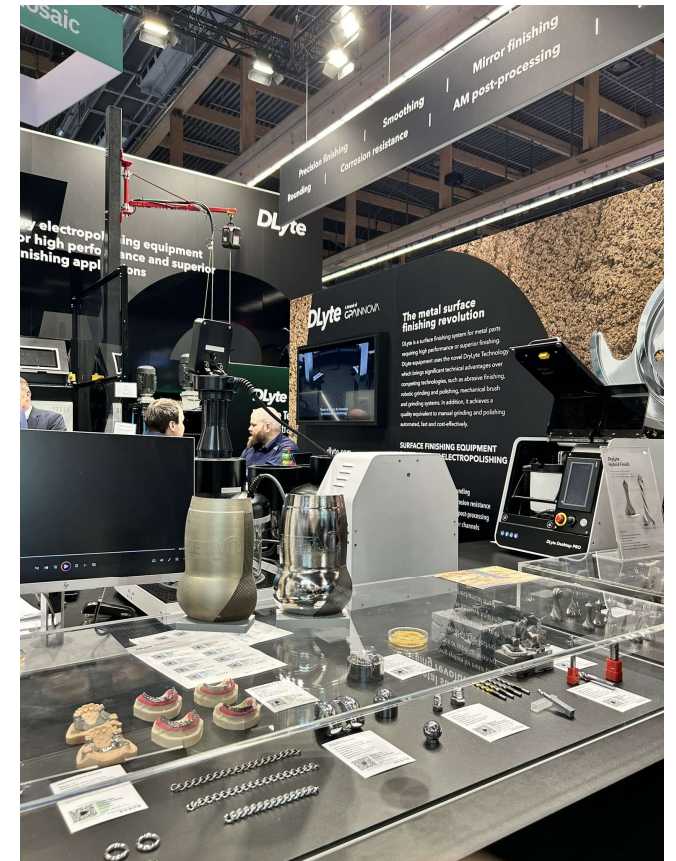
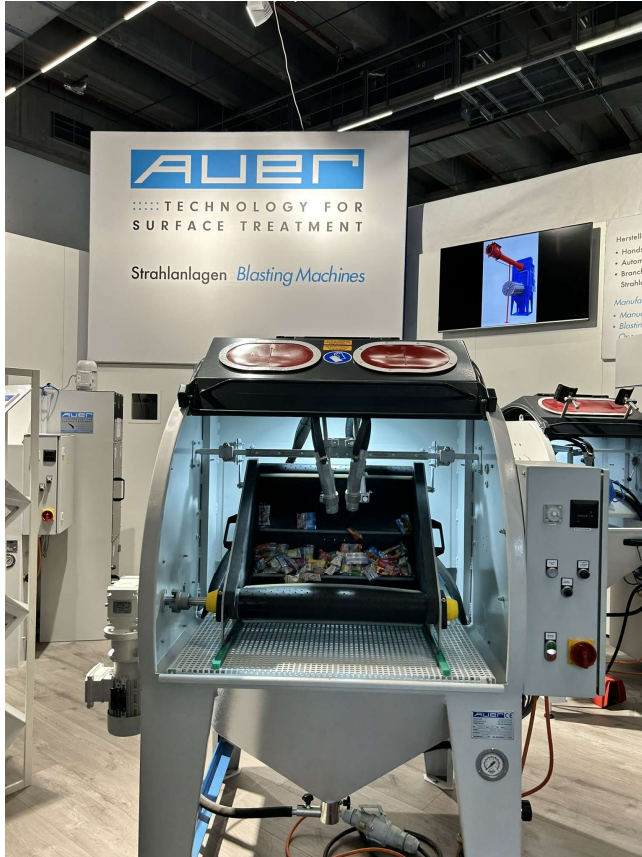


Aconity

AM of ceramics



Post-processing methods



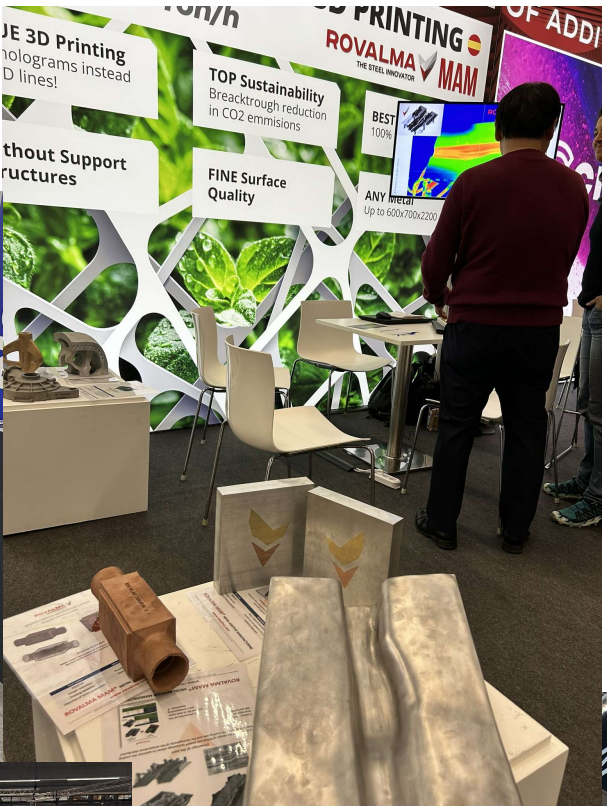
Presence of Chinese companies



Colors!



Sustainability



Sustainability
Using less materials by optimizations
Manufacturing of AM materials from waste
Spare parts



FAME

Finnish Additive Manufacturing Ecosystem



Fame Ecosystem

#FAME3D



www.fame3d.fi

Thank you!



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