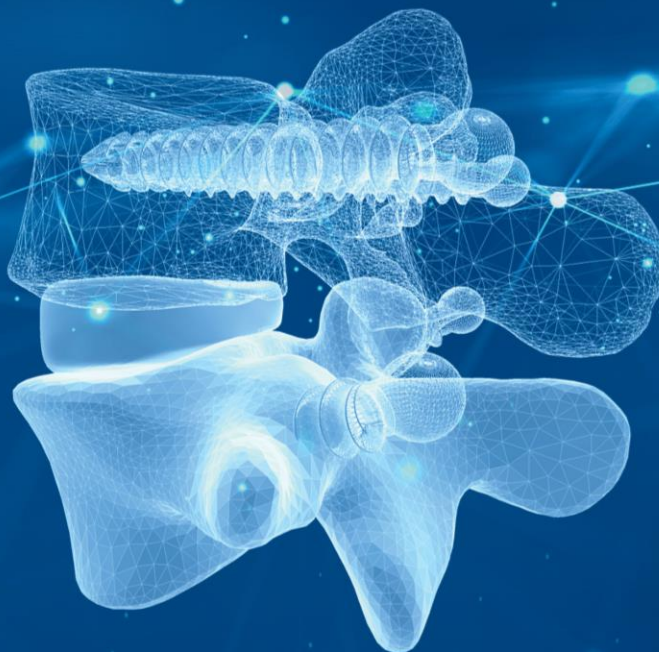


INTERNATIONAL SYMPOSIUM ON IN SILICO MEDICINE

08.12.2023

BUDAPEST

BHC ACADEMY



INTRODUCTION OF A NEW 3D PRINTING TECHNOLOGY AT THE POINT-OF-CARE

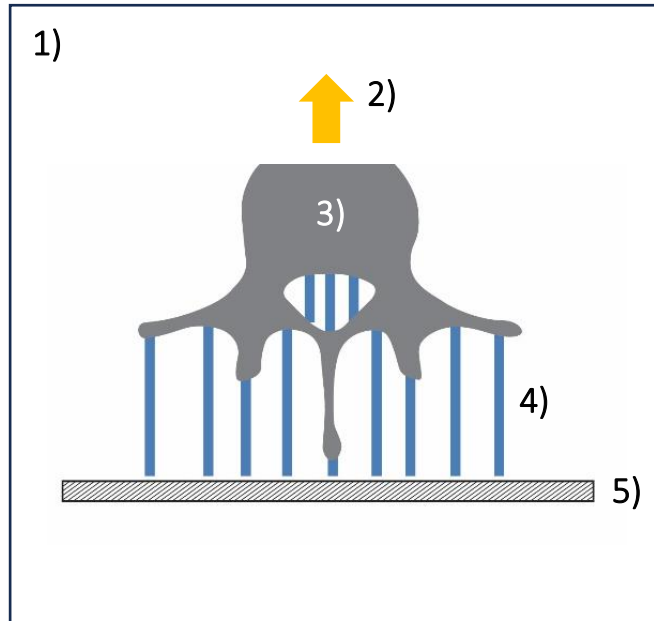
MARTON BARTOS

Background

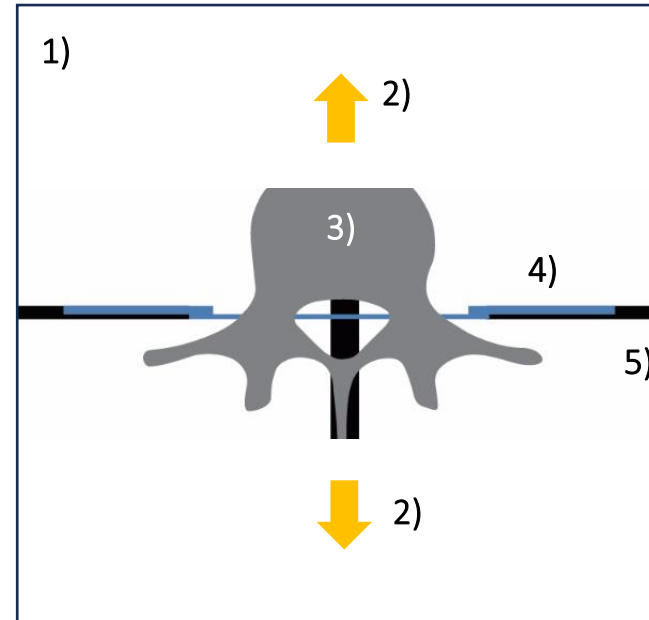


Practical example – 3d printing of a vertebra model

TRADITIONAL



MAP



1) Modell space

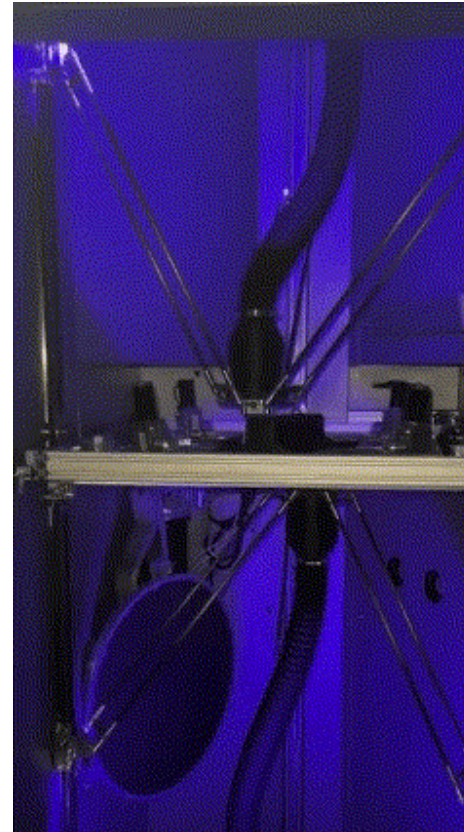
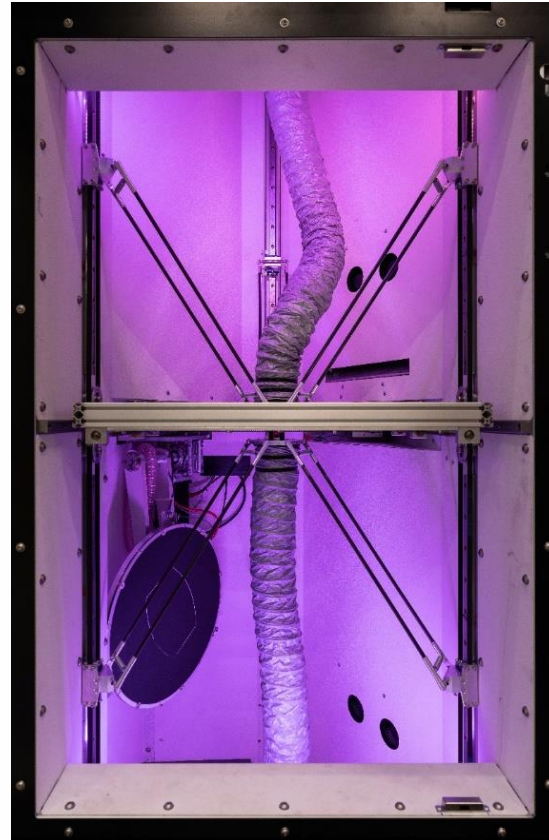
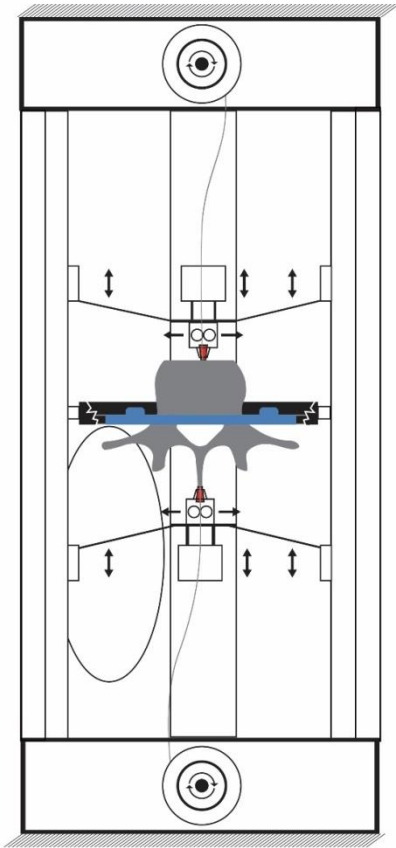
2) Building direction

3) Printed model

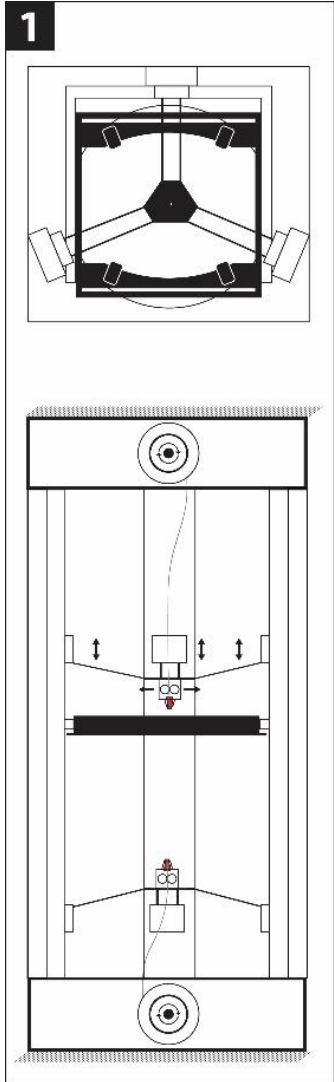
4) Support structure

5) Build base

MAP technology – mechanical configuration

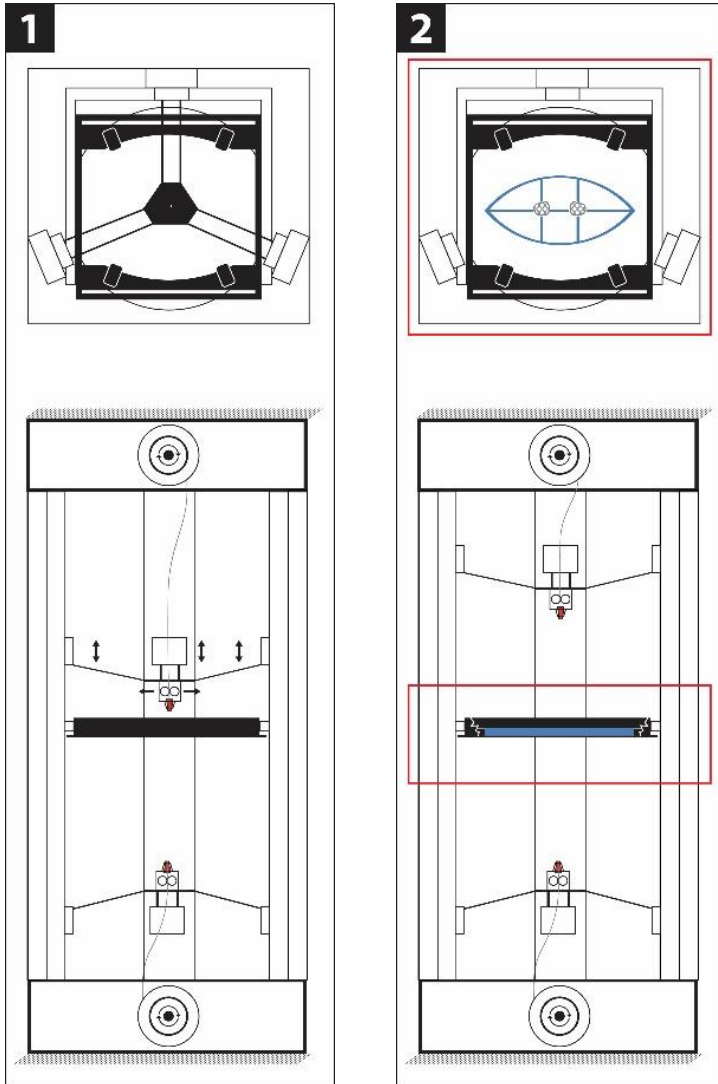


MAP technology – printing process in 5 steps



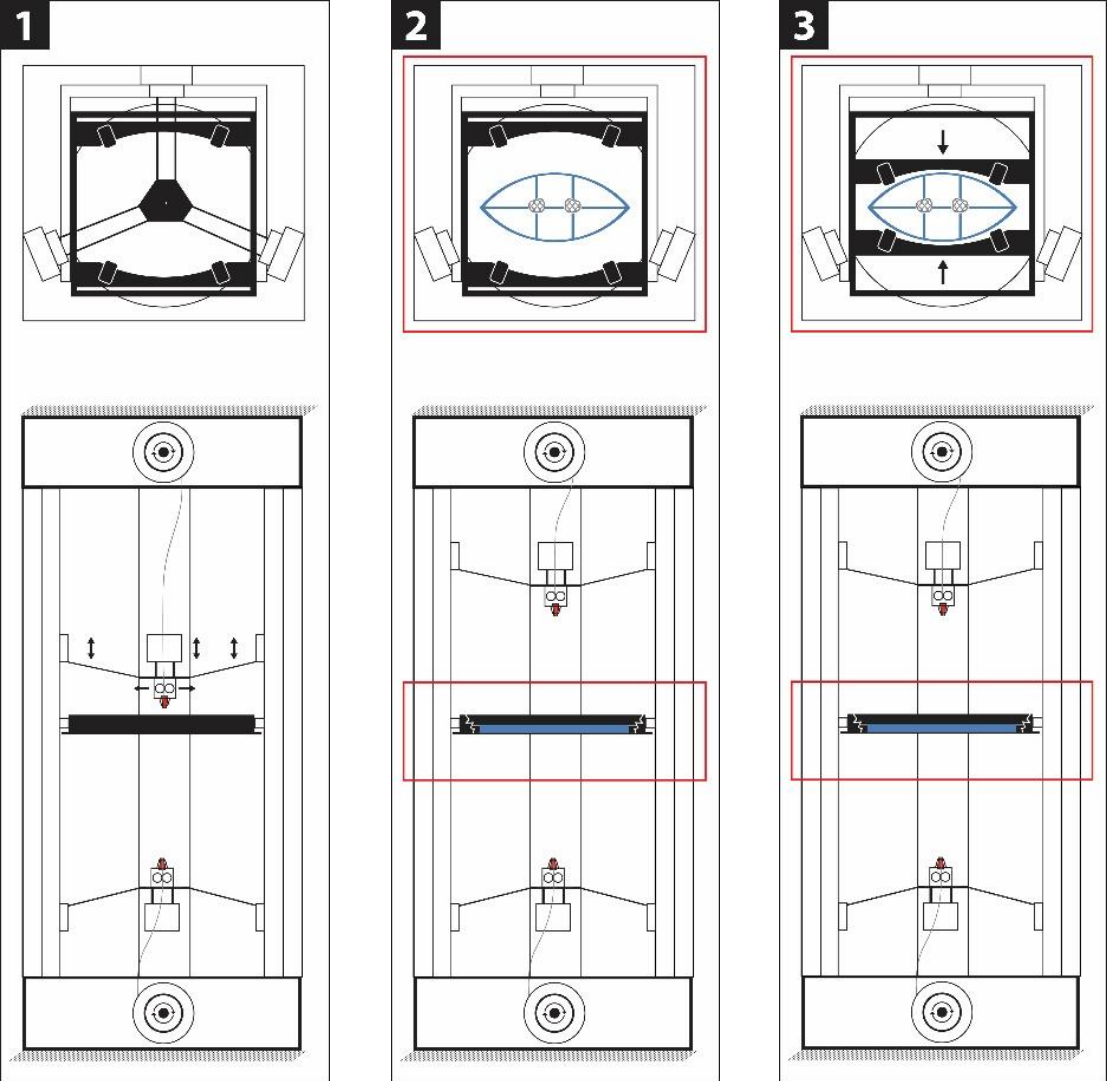
Printing the mid-section of the model
(upper print head only)

MAP technology – printing process in 5 steps



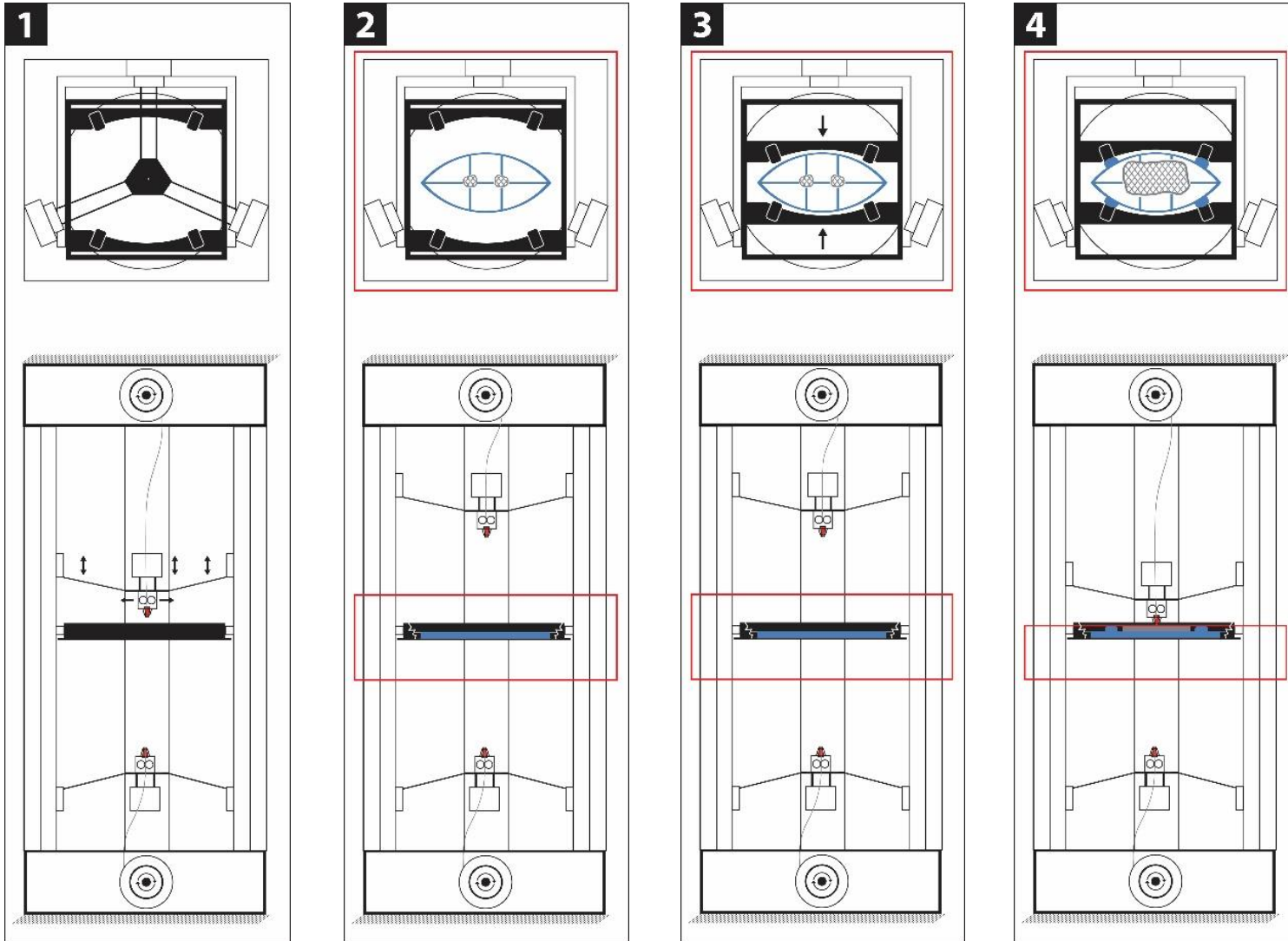
Mid-section is ready
with locking rim

MAP technology – printing process in 5 steps



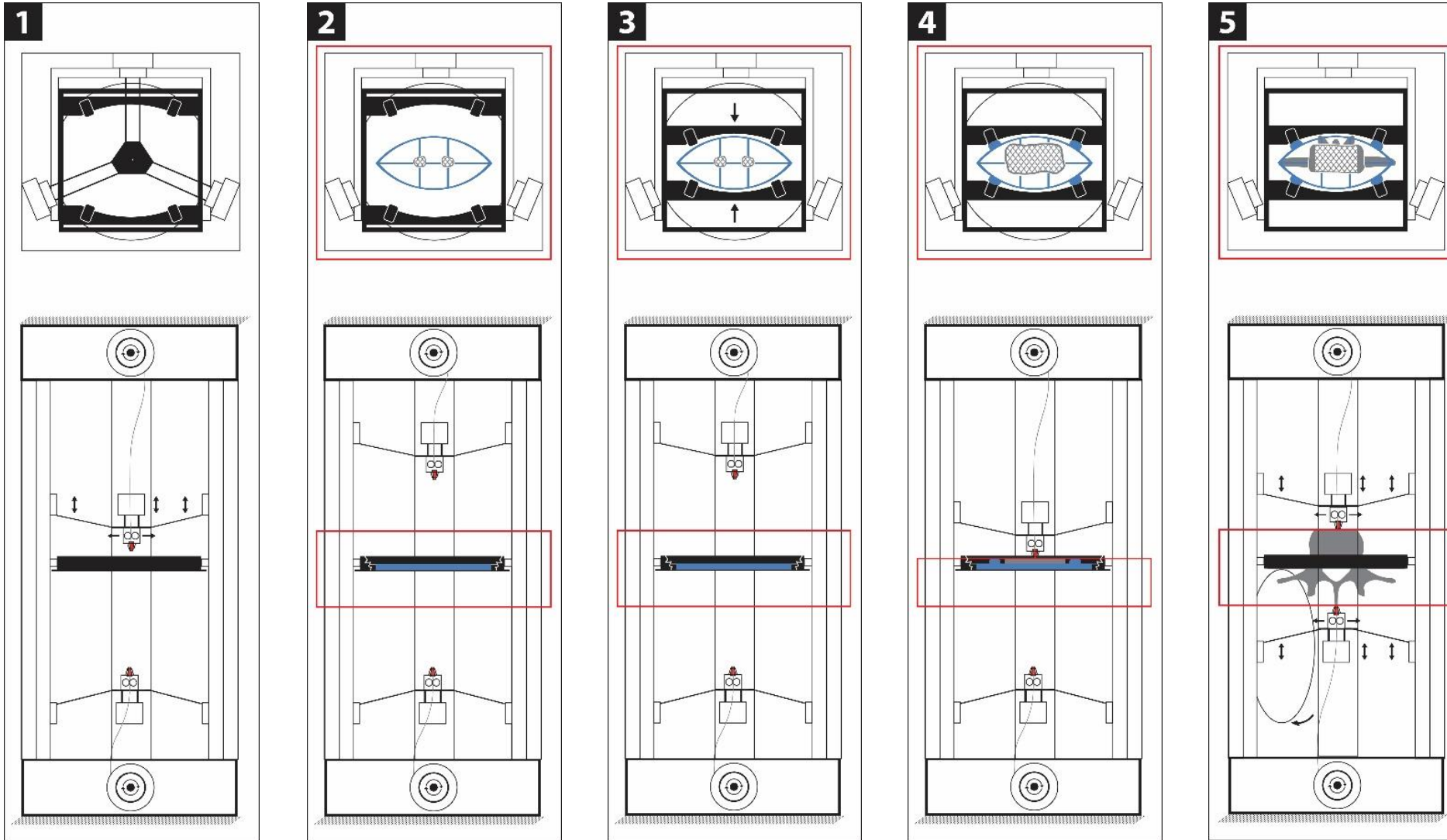
Locking faces are closing

MAP technology – printing process in 5 steps



Continue printing
model's upper side
involving locking
faces

MAP technology – printing process in 5 steps



Base plate separation and starting the print of model's lower side

DUPLEX F2 – market launch

3D Printing Industry's detailed editorial



Additive Manufacturing Media "Top10 Developments on Formnext 2022"

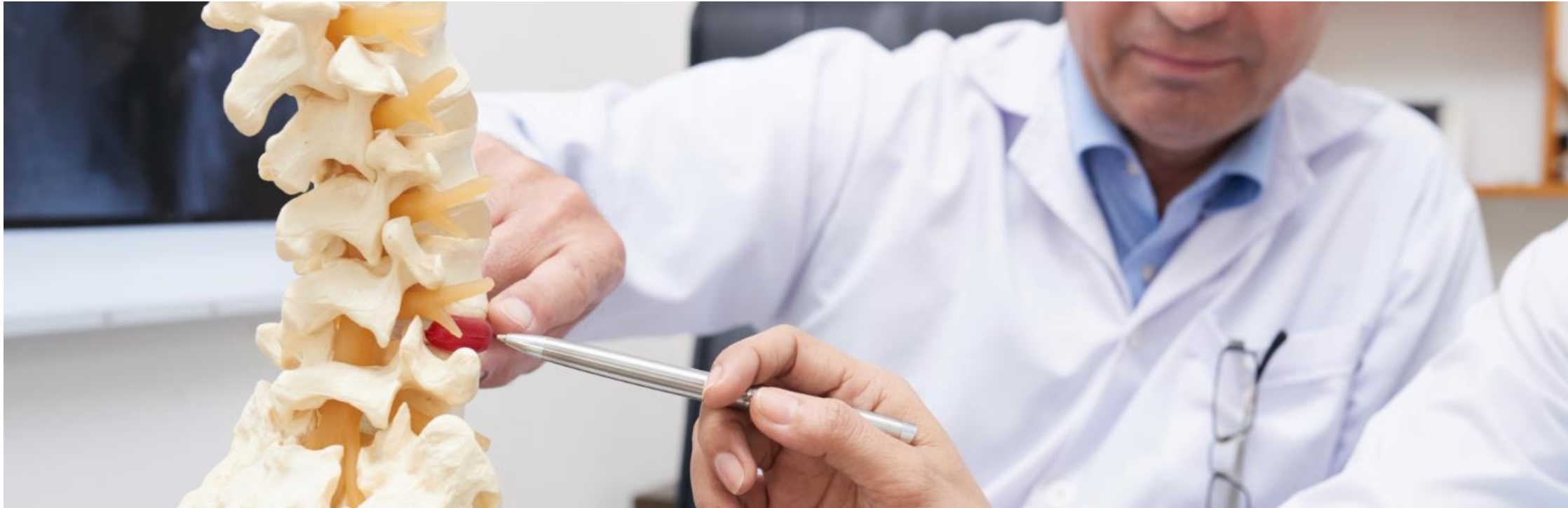


3DNatives: "Printers that amazed us the most at Formnext 2022"



3D Adept Media: "Formnext 2022: the killjoys, the elders and the kids of the 'fAMILY' reunion"

Applications



Applications like presurgical planning often require a tailor-made solution for finding the most effective treatment of patients. It is increasingly recognised that not only anatomical models but a great variety of customized medical appliances can be produced with 3D printing, such as navigational tools, surgical guides and implants.

BRIDGING MEDICINE AND ENGINEERING TO ENHANCE INNOVATION

