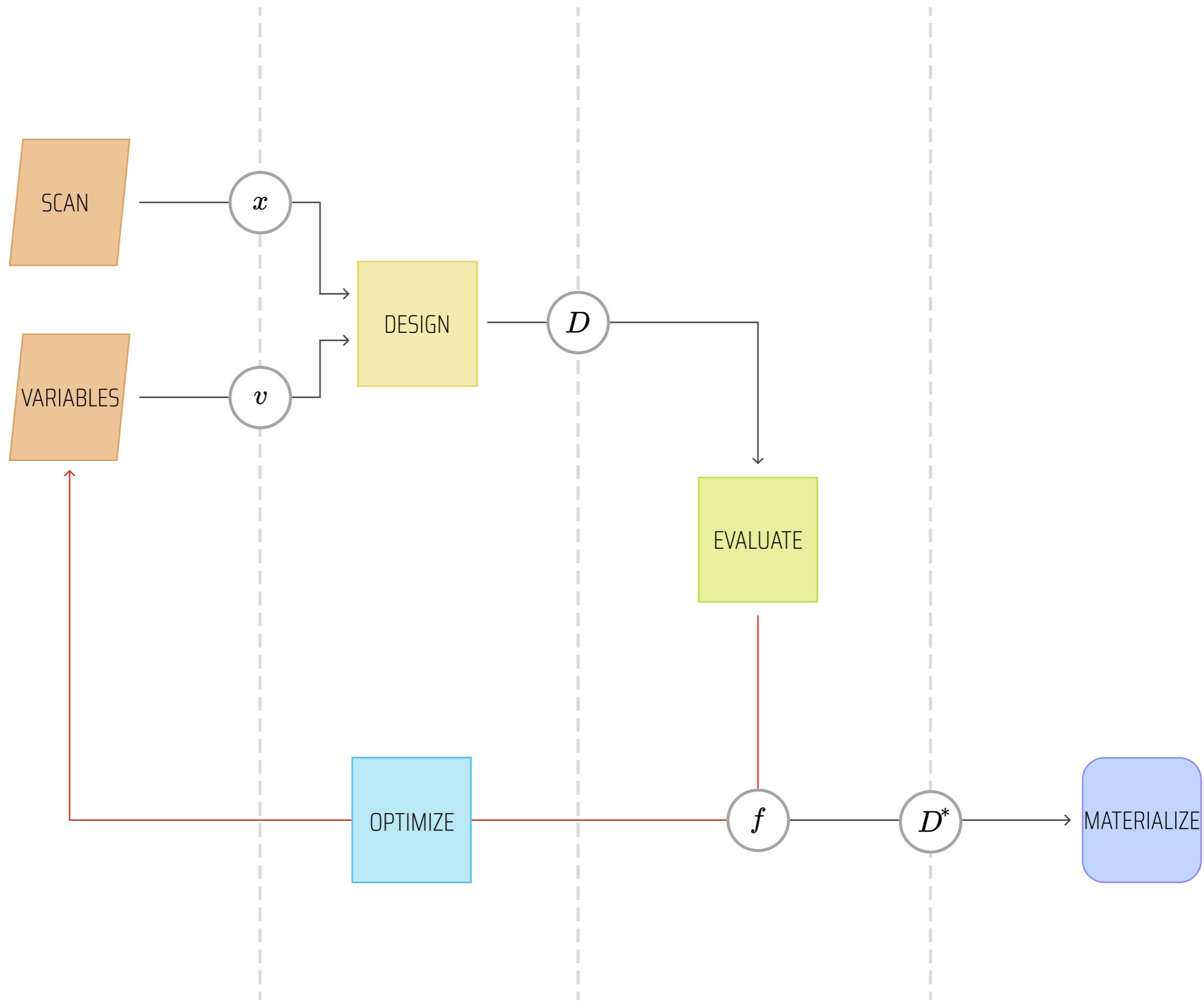
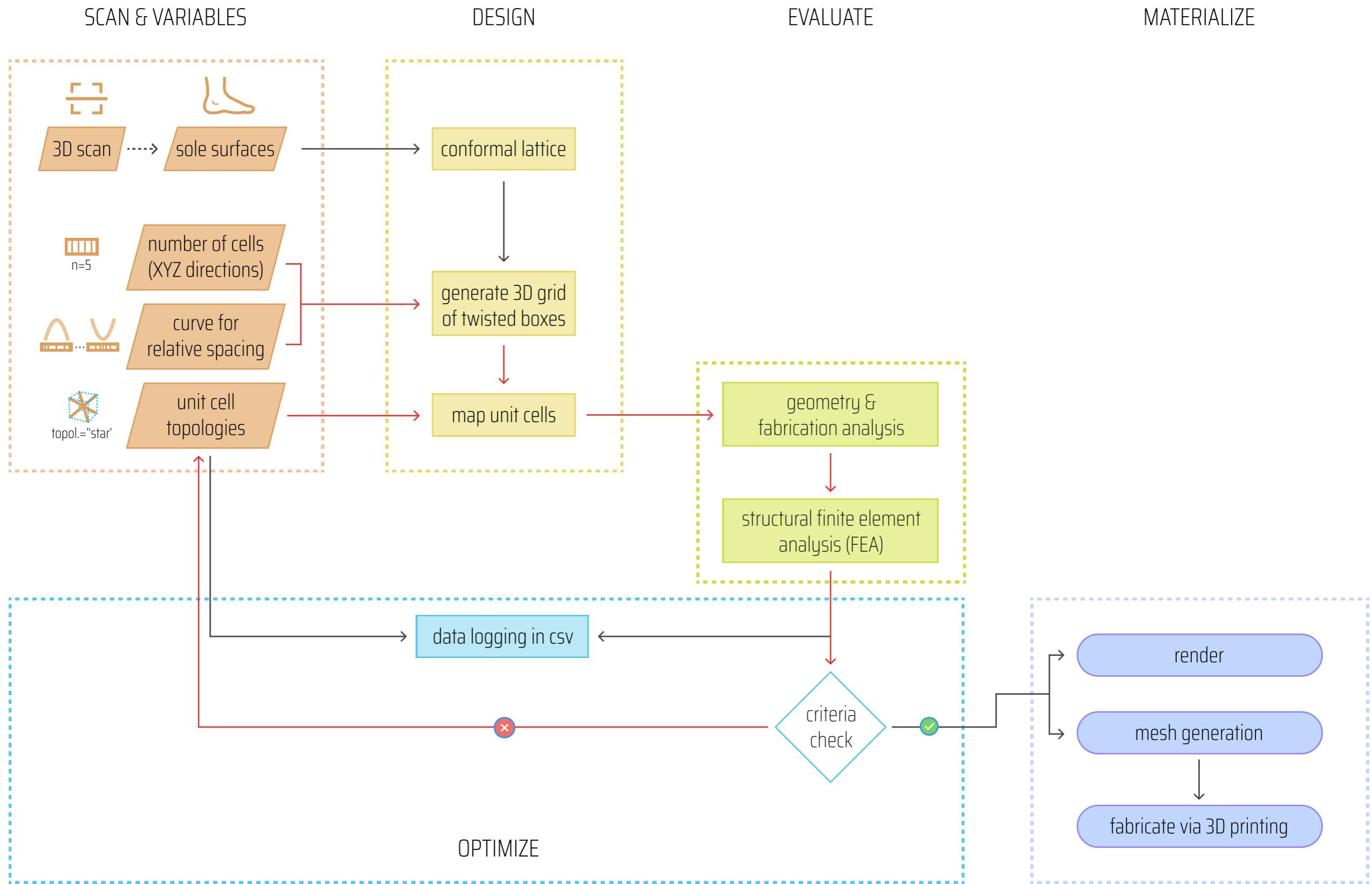


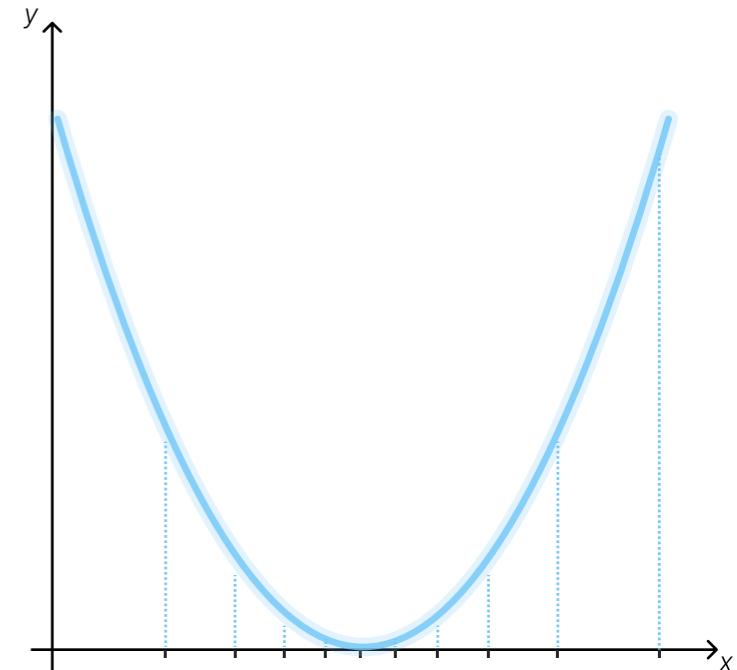
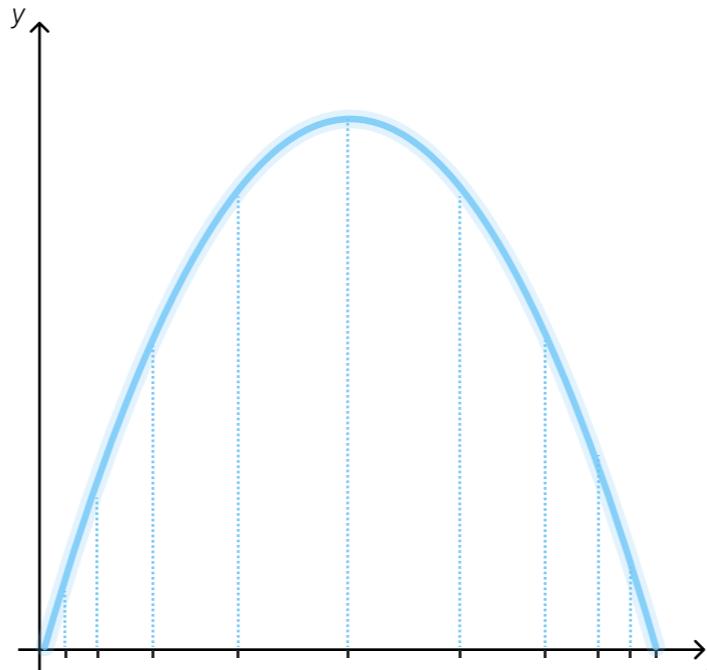
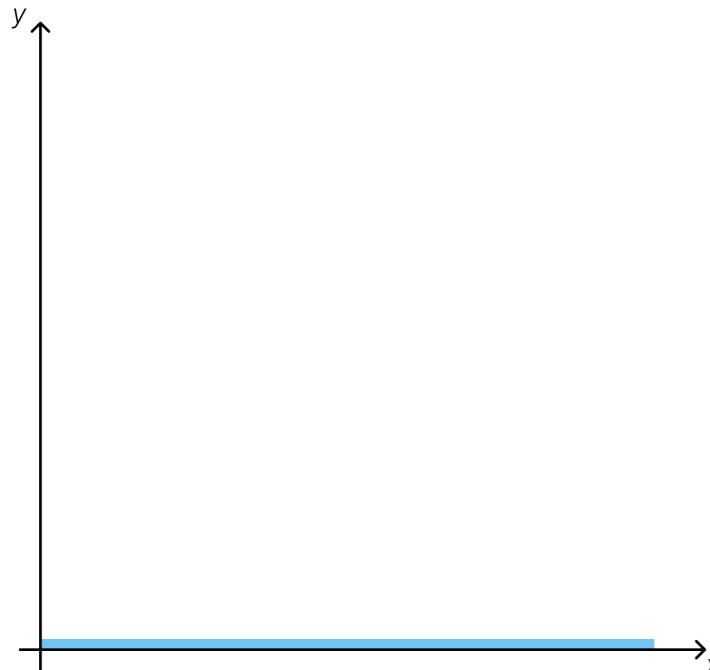
Pipeline Overview



DESIGN PIPELINE

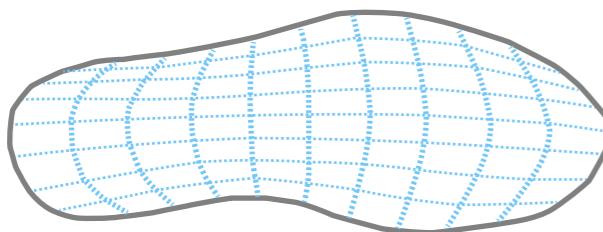


RELATIVE SPACING CONTROLLED BY CURVE



elevation of
shoe midsole

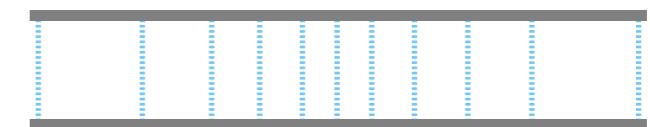
top view



Example 1 | Straight curve:
uniform spacing

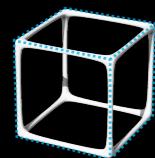


Example 2 | Downward parabola:
*denser on the sides
more dispersed in the center*



Example 3 | Upward parabola:
*denser in the center
more dispersed on the sides*

UNIT CELL TOPOLOGIES



grid



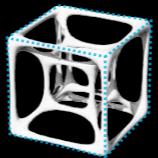
X



star



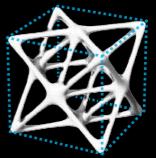
cross



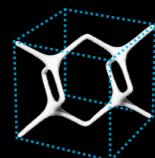
tesseract



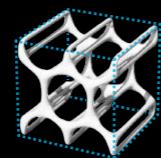
vintiles



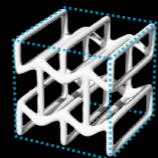
octet



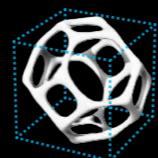
diamond



honeycomb 1



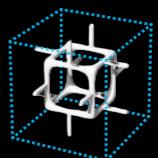
honeycomb 2



Kelvin



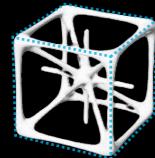
polyhedral



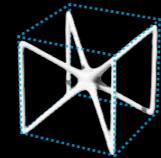
Gibson-Ashby 1



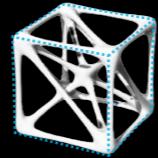
truncated cube



iso truss



BCC + Z strut



tetrahedron-based



FCC



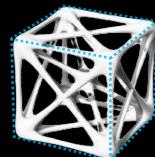
FCC + Z strut



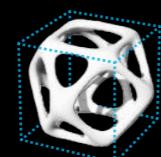
G7



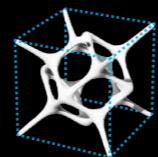
FBCCZ



cuboctahedron



rhombic dodecahedron



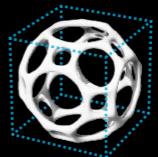
auxetic



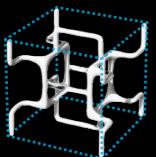
octahedron



truncated cuboctahedron



Gibson-Ashby 2



model 5

DESIGN SPACE



OPTIMIZATION AND ANALYSIS

Simulation models

