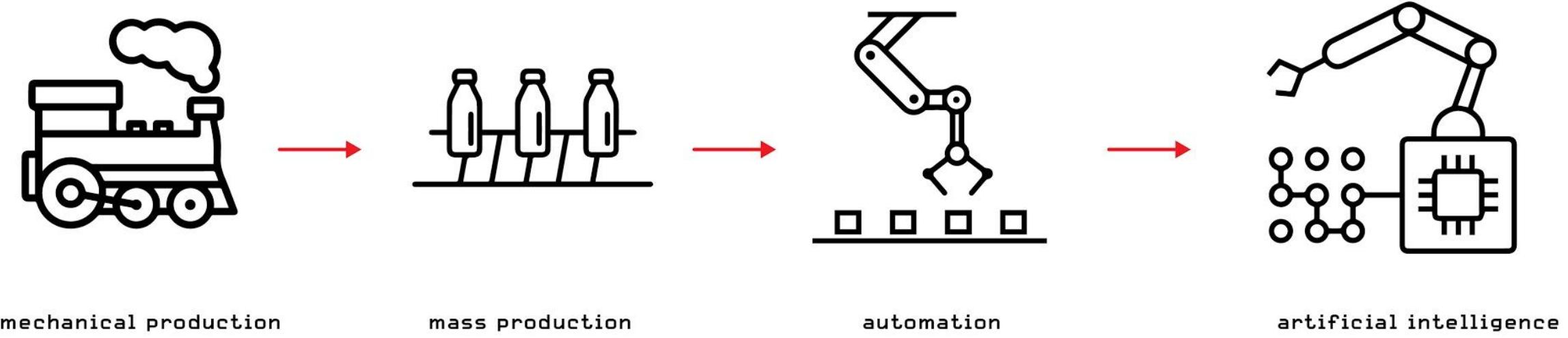
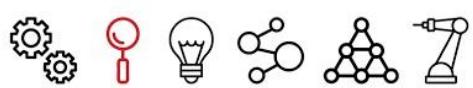


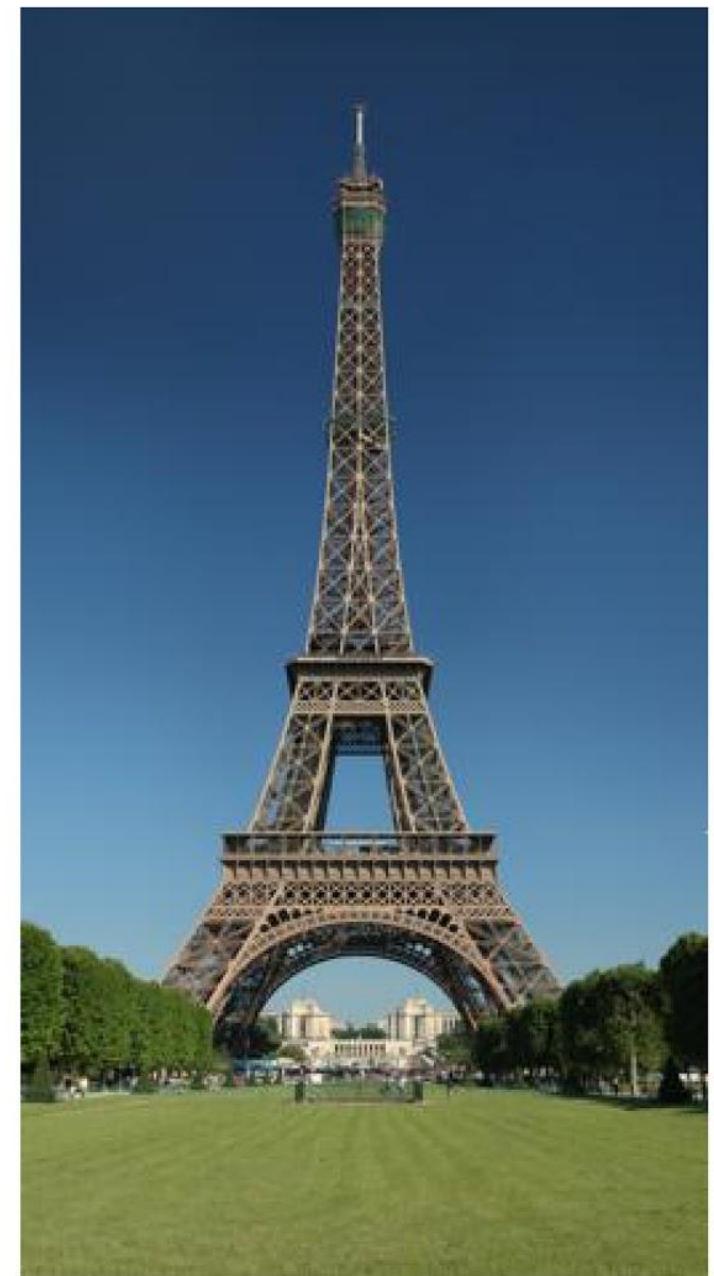
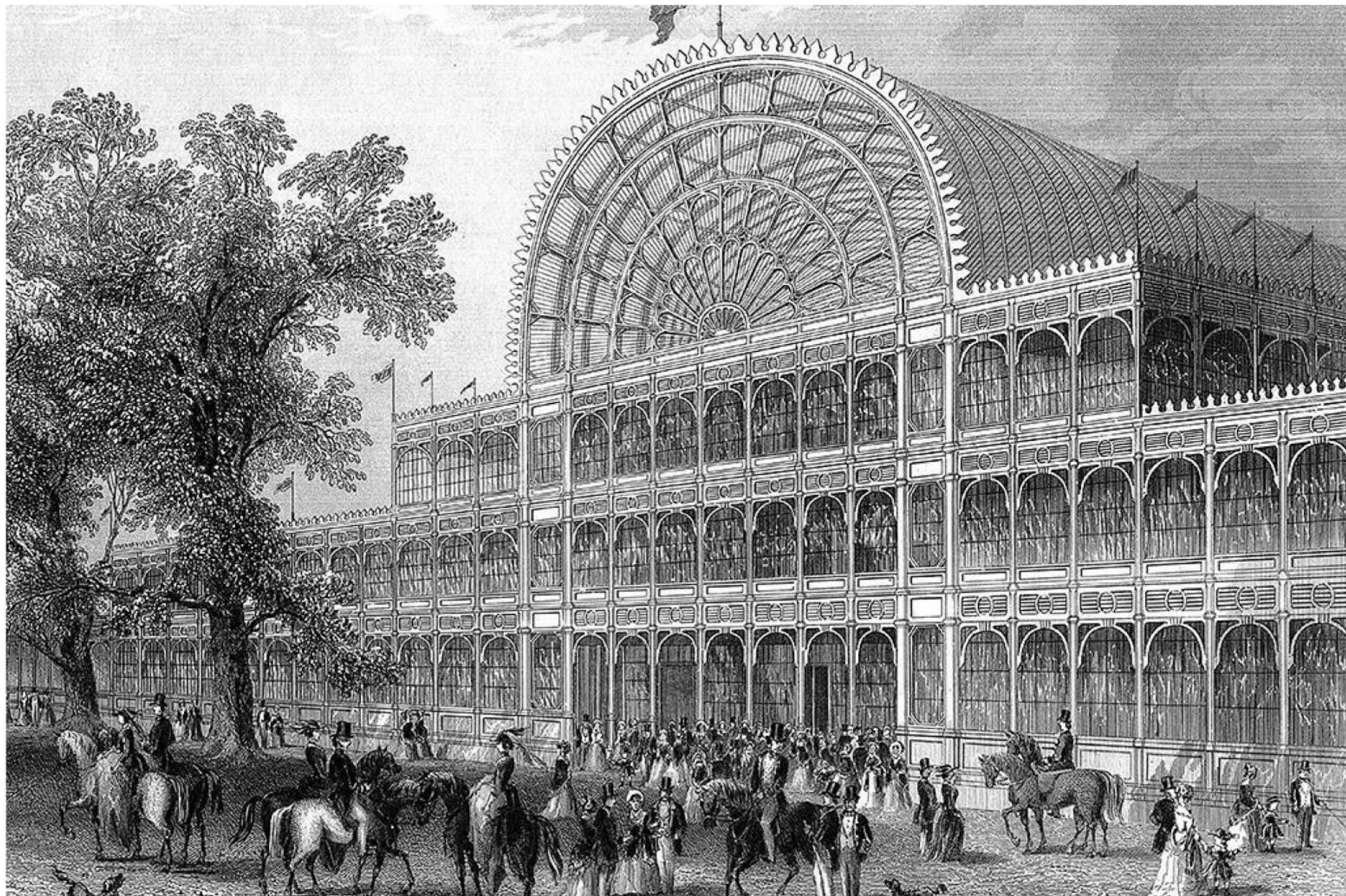
INFORMED MILLING

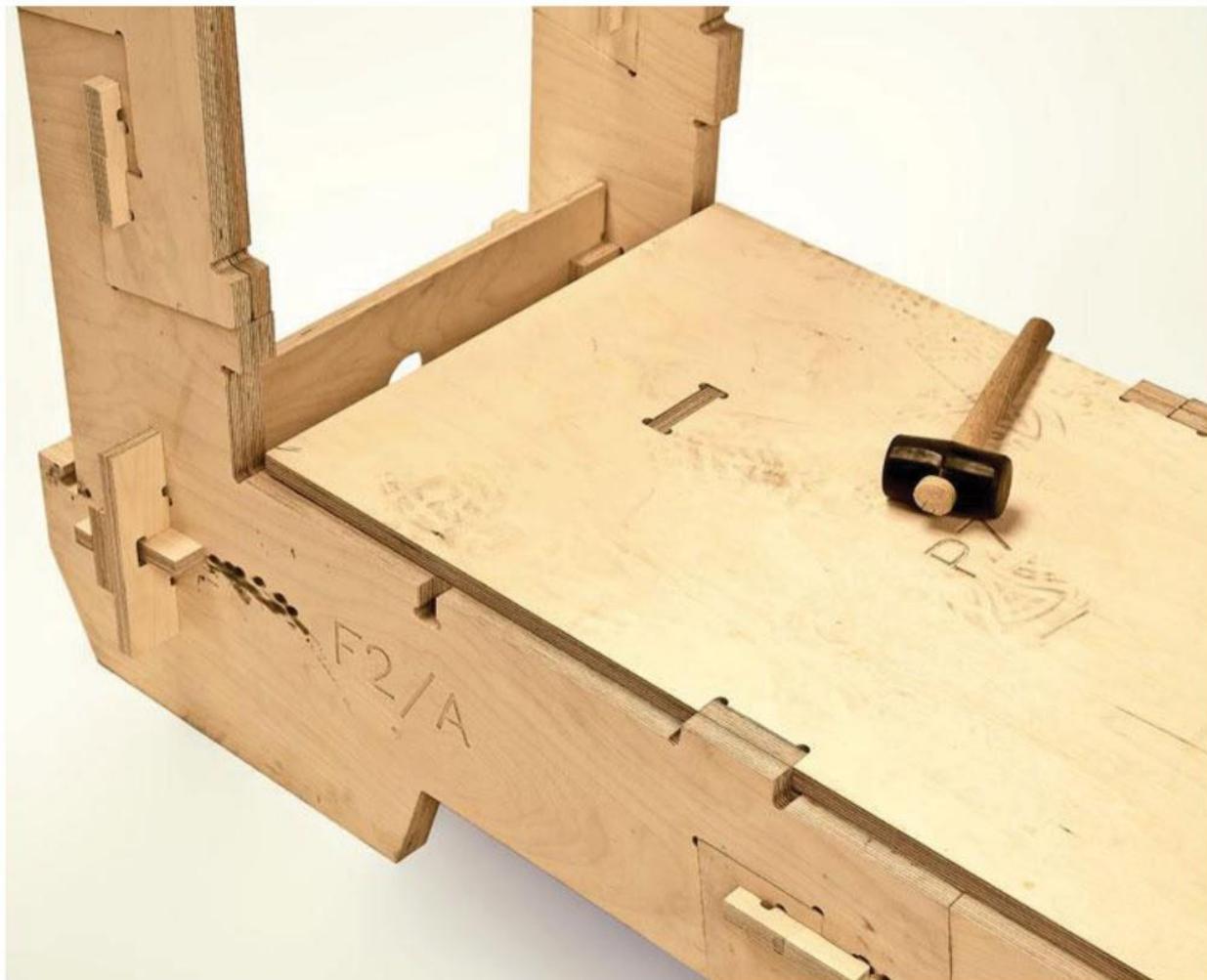
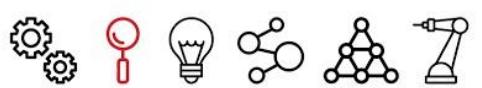


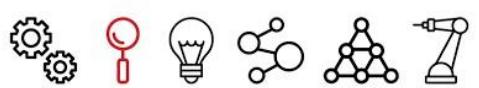
RESEARCH





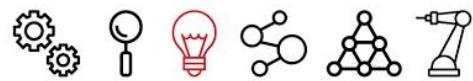






CONCEPT DEVELOPMENT

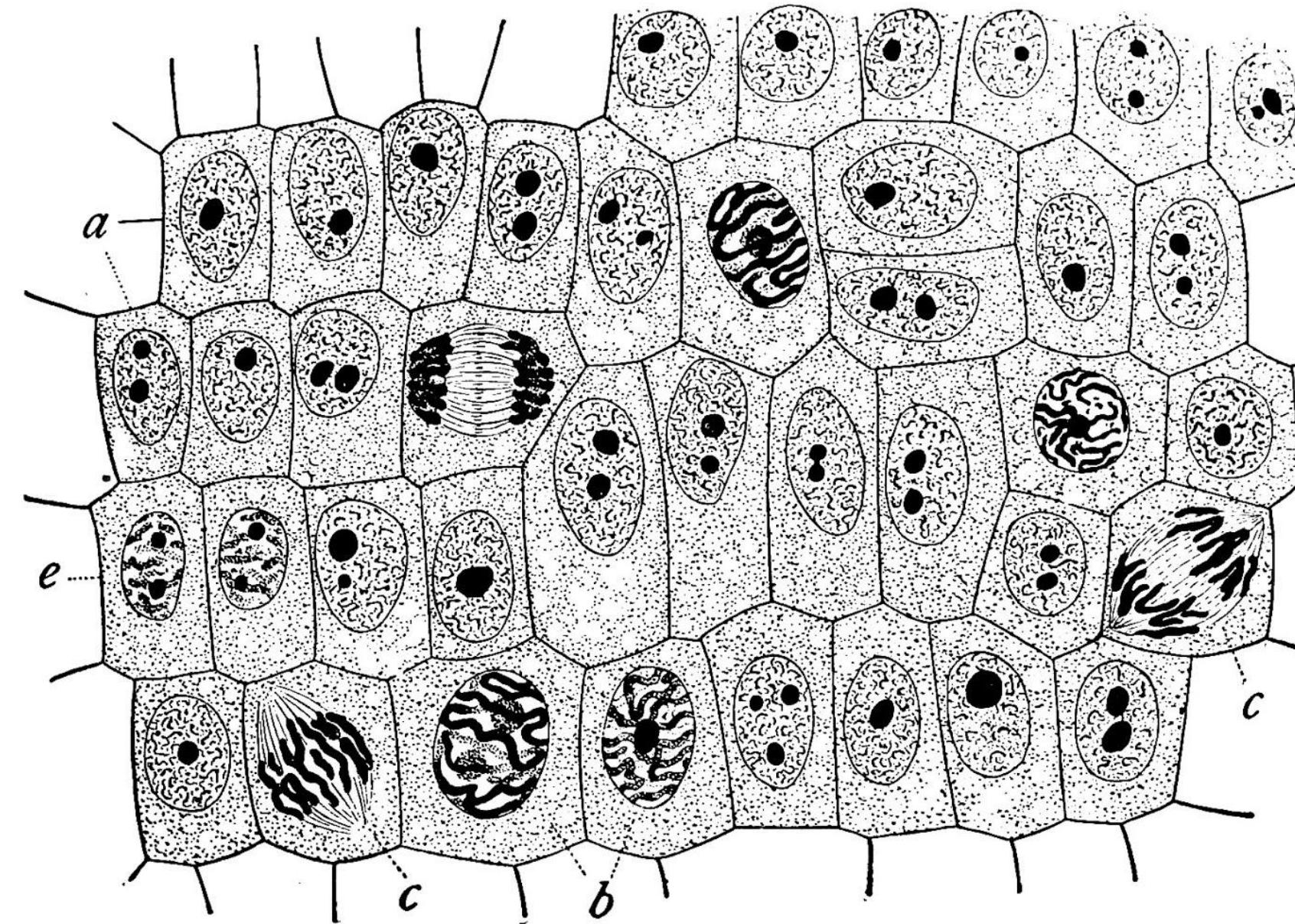
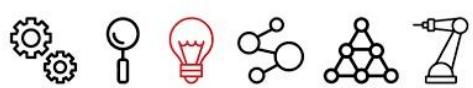




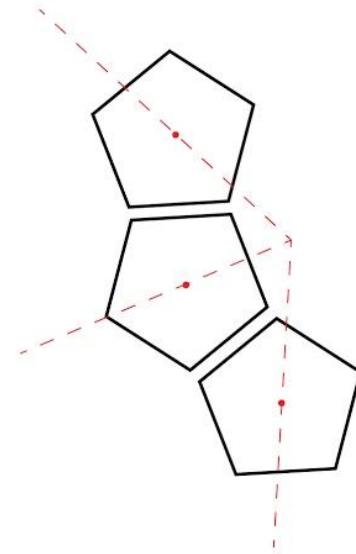
D2RP feedback loop

performance-based design

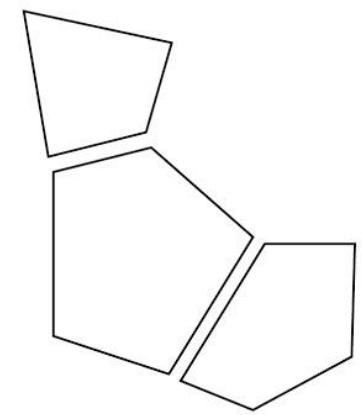
cyber physical



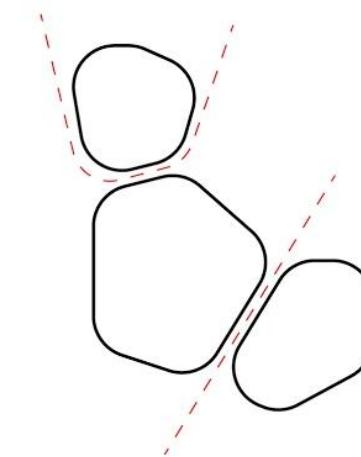
Onion [*Allium cepa*] root cells in different phases of the



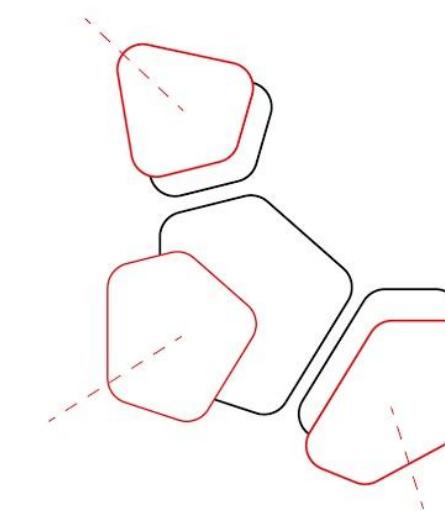
solar porosity



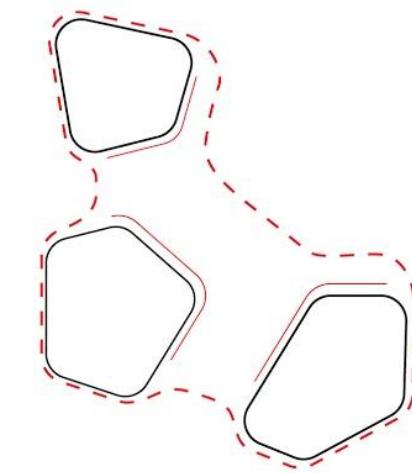
voronai meshing



structural awareness



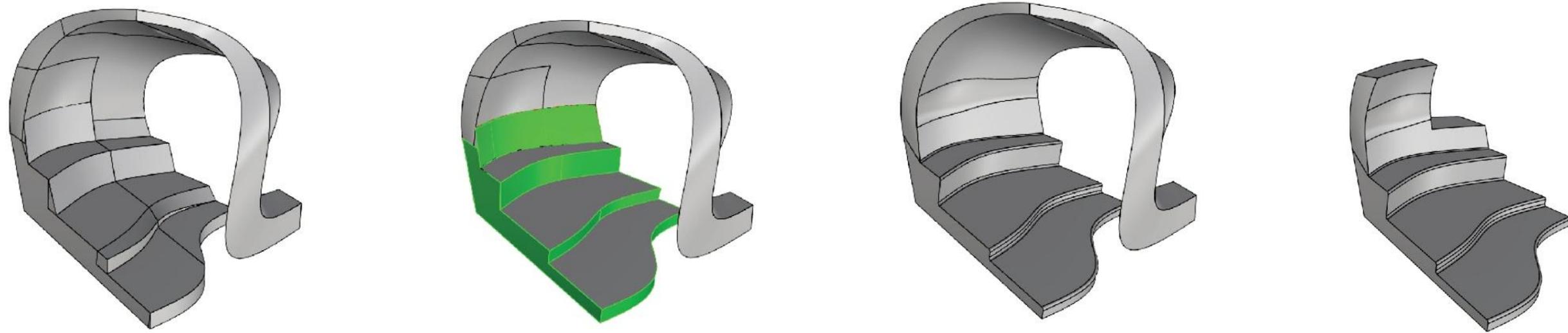
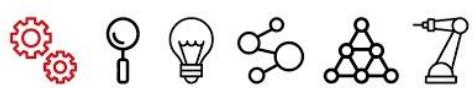
acoustic morphing



robotic optimization

FUNCTIONAL MODIFICATION





original model

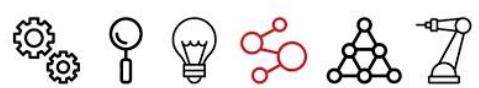
change surfaces for functional purposes

smoothen surfaces

trim to relevant element

STRUCTURAL ANALYSIS



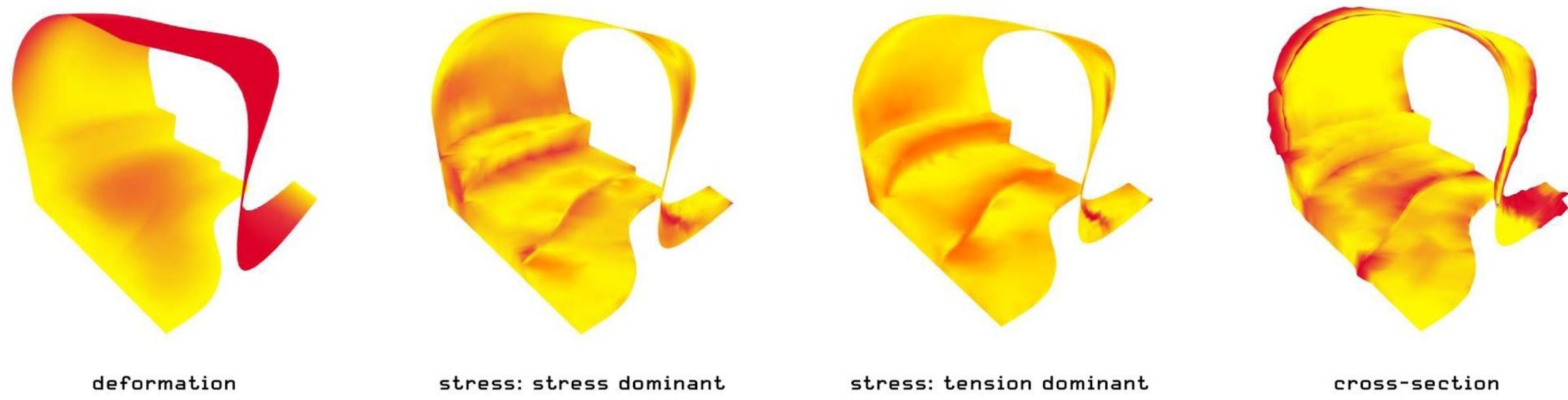
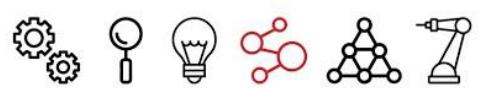


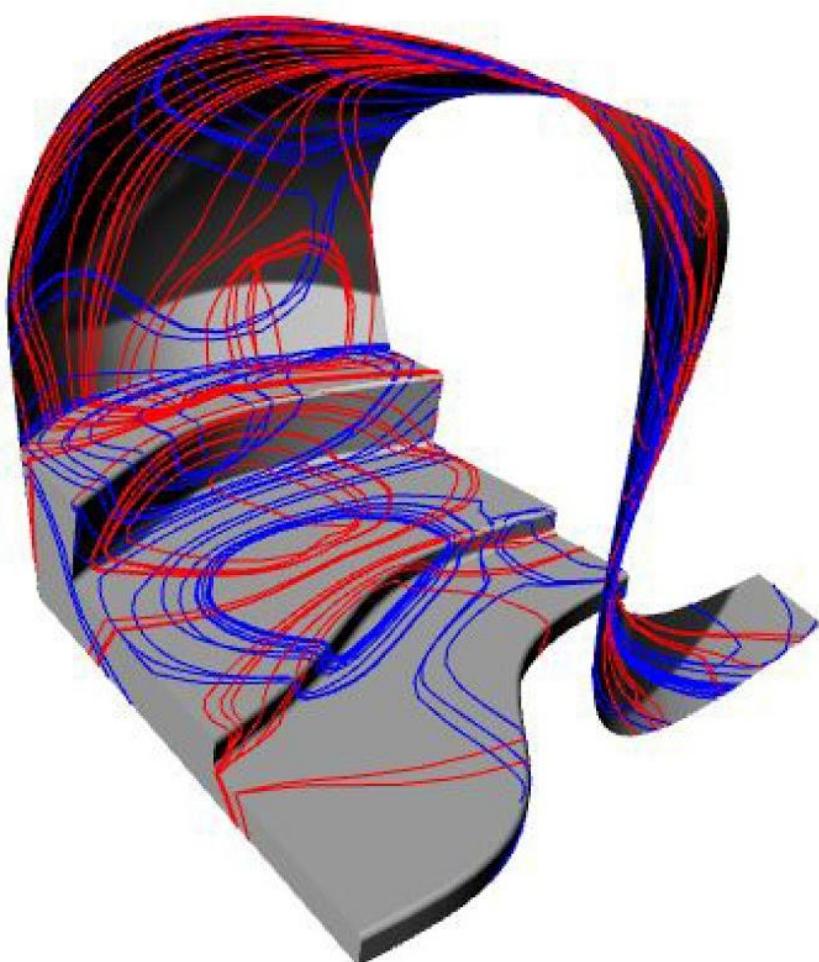
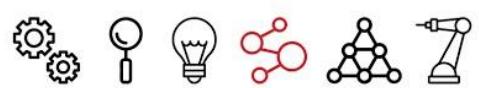
human load

snow load

wind load

all loads

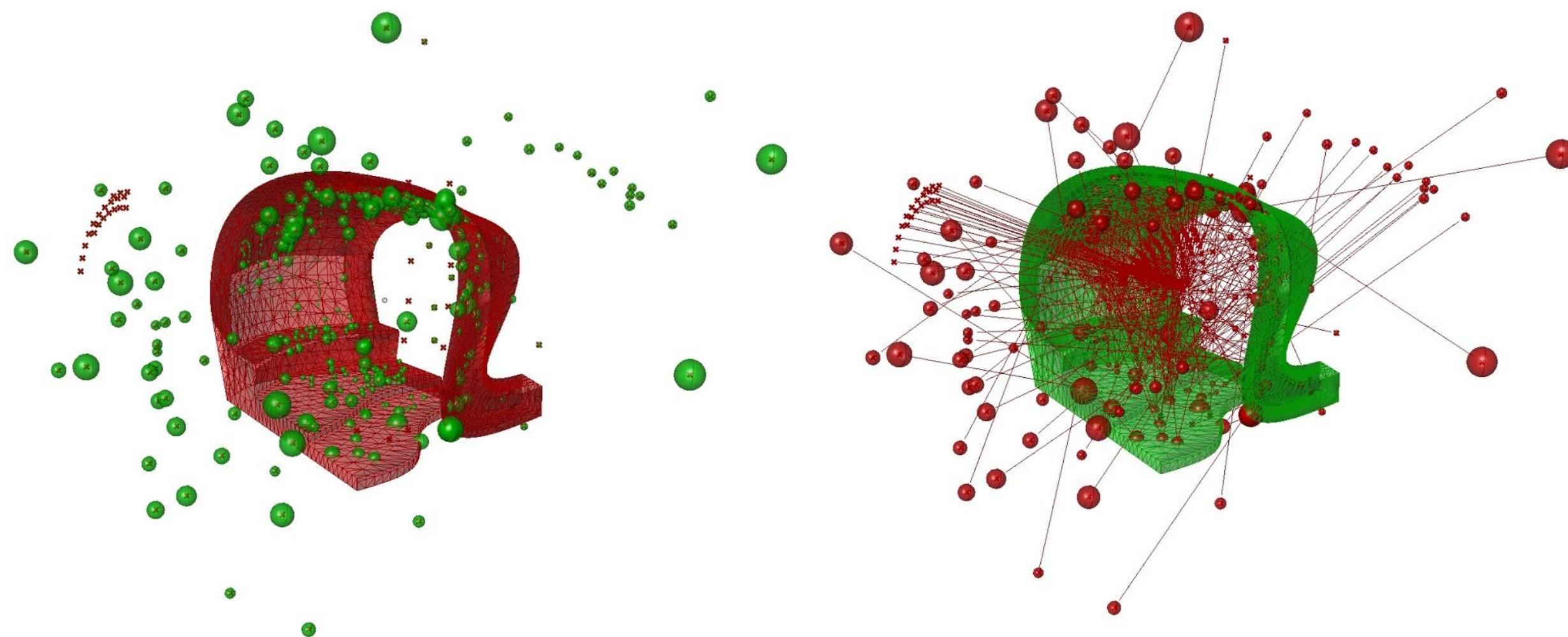
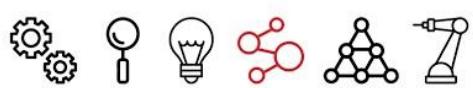




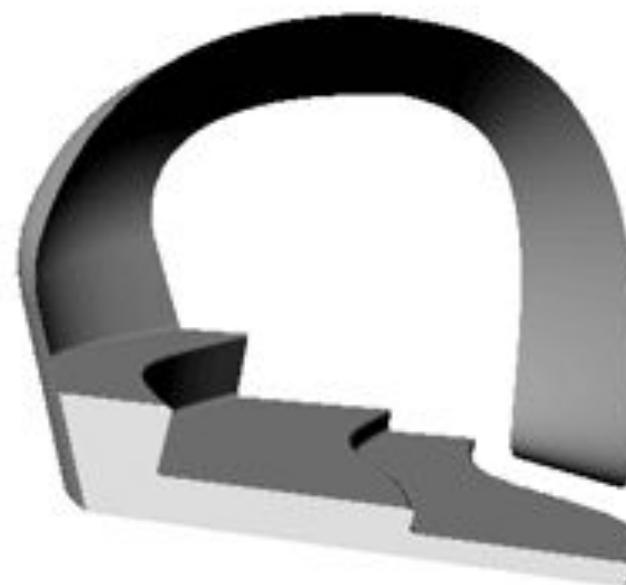
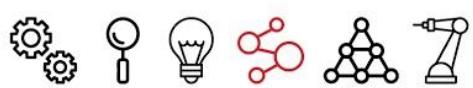
iso curves

ACOUSTIC ANALYSIS



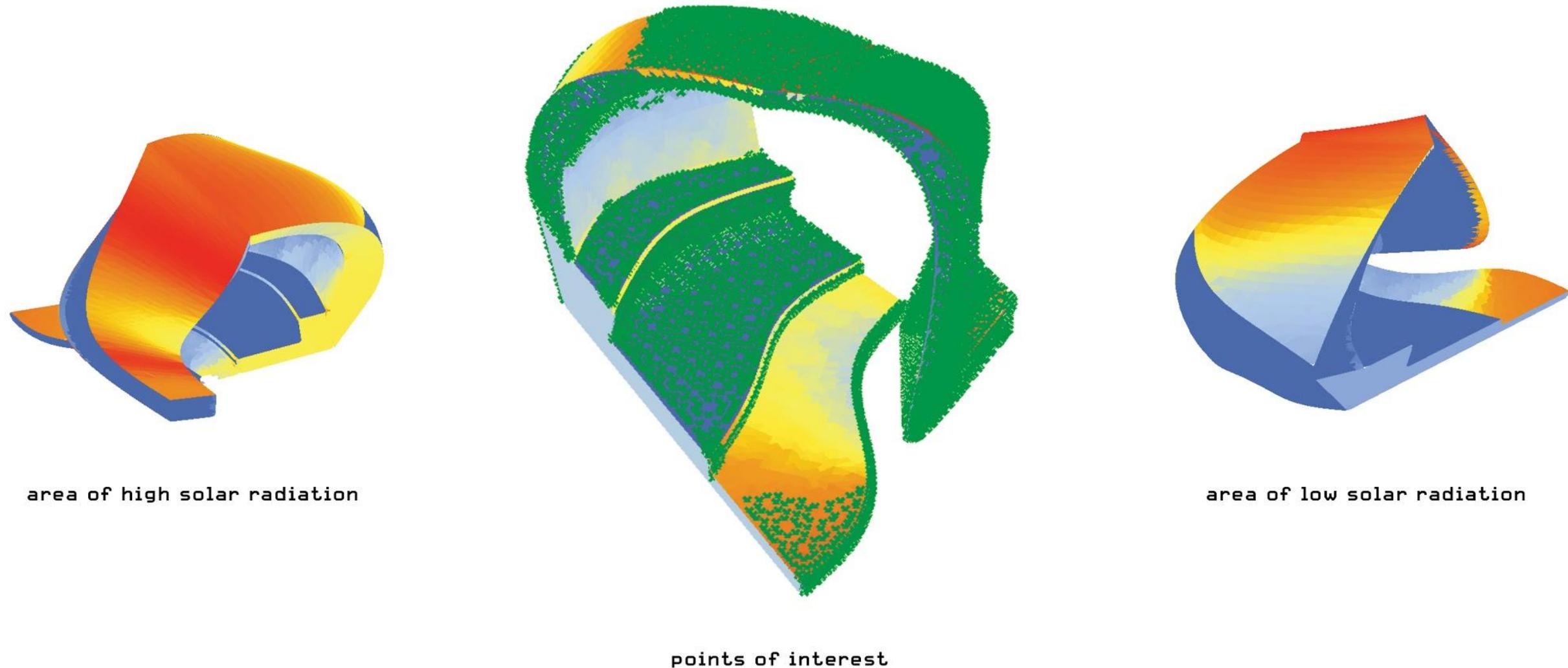


acoustic reverberation vectors and amplification



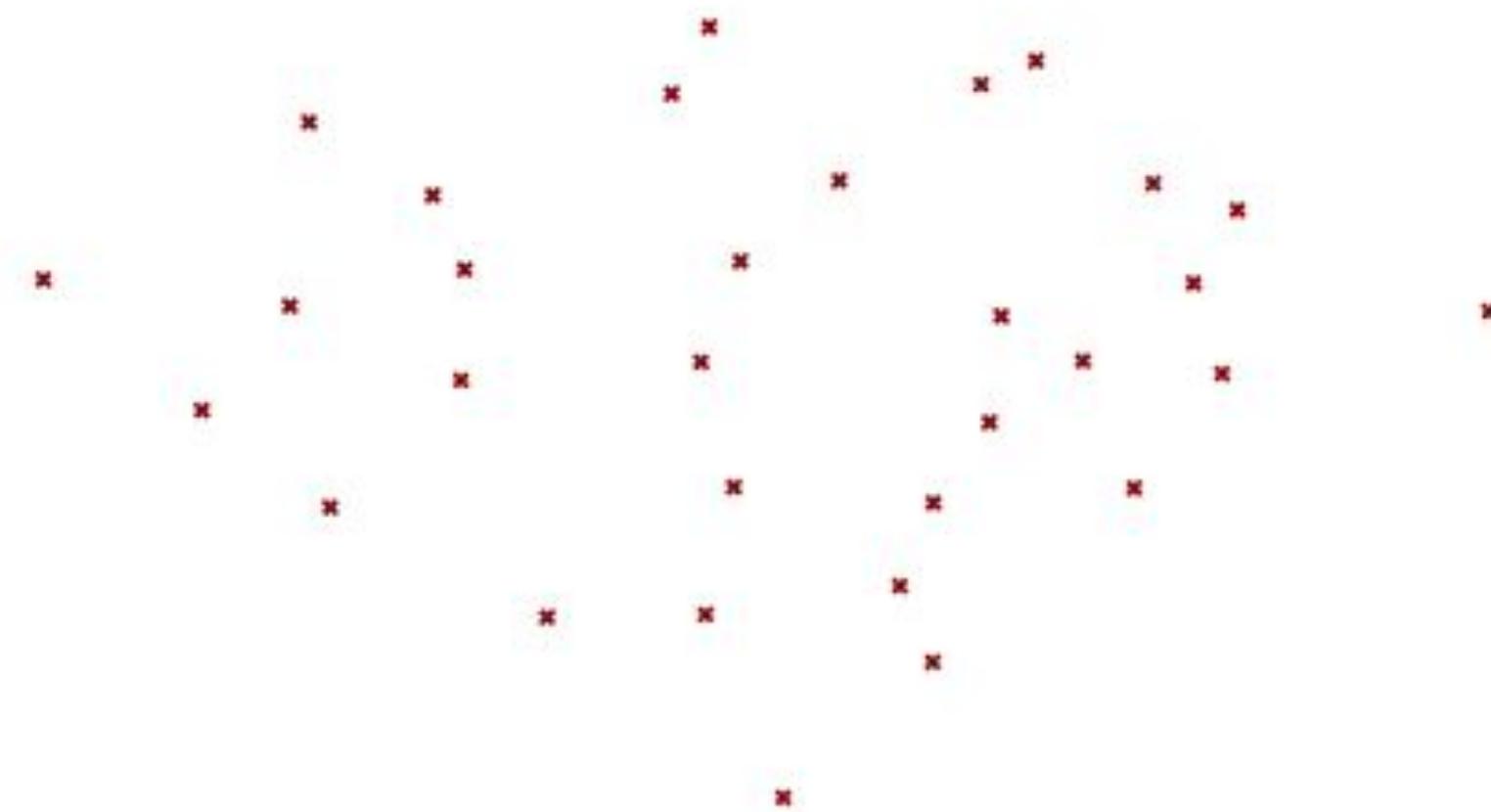
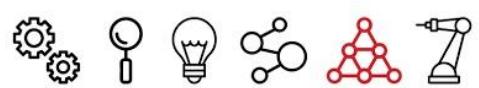
SOLAR ANALYSIS

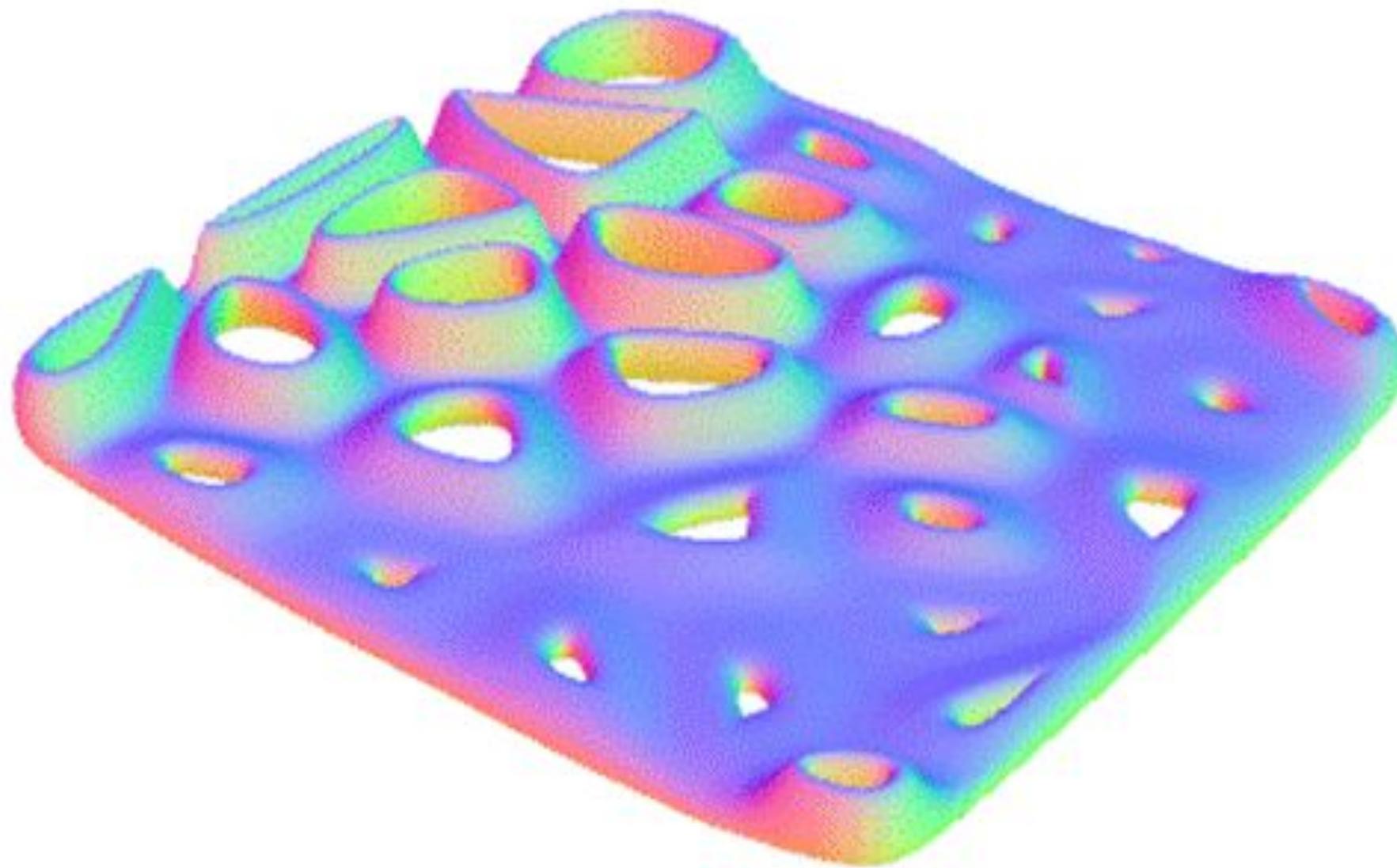
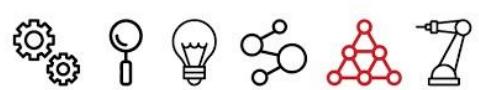


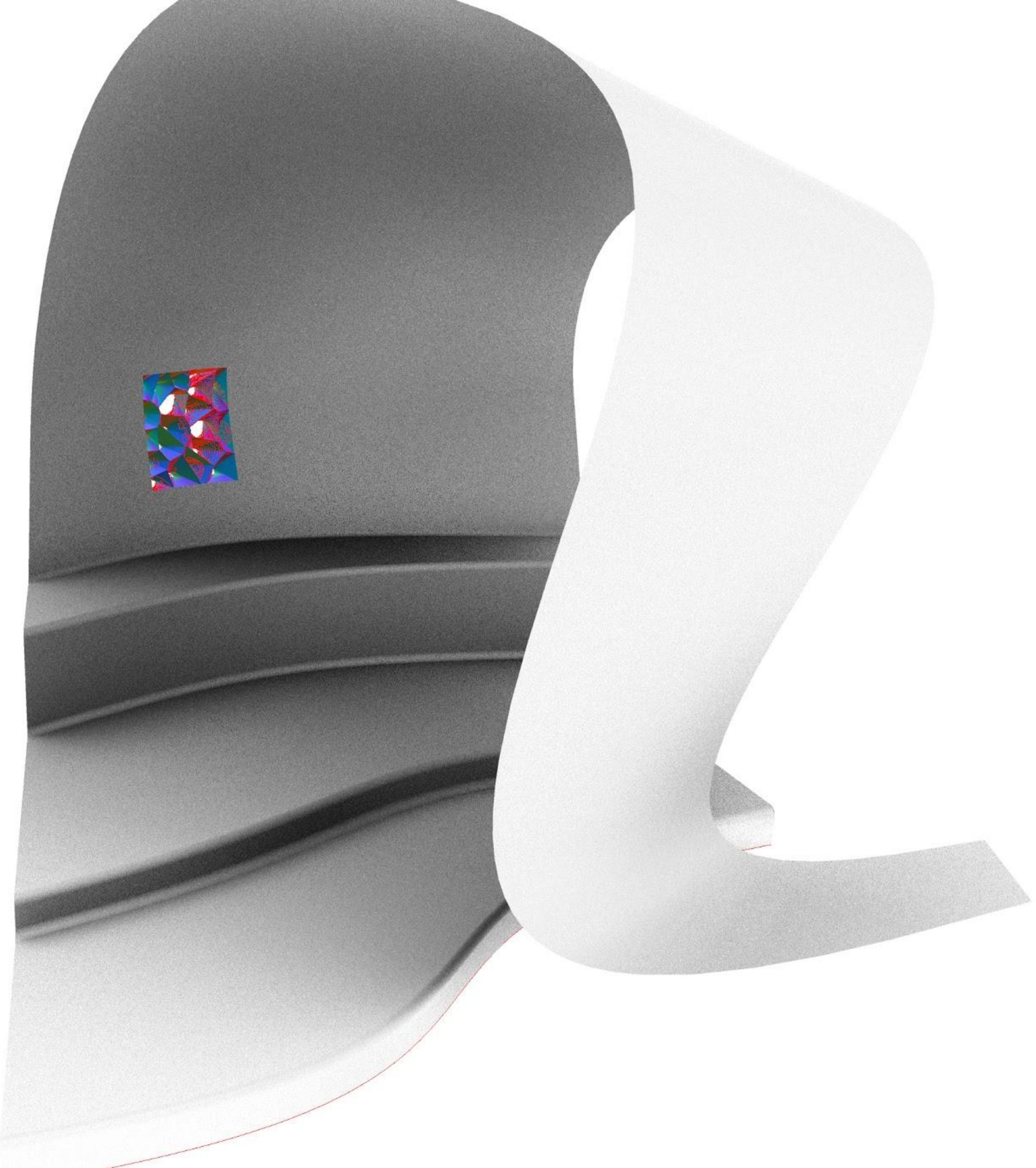
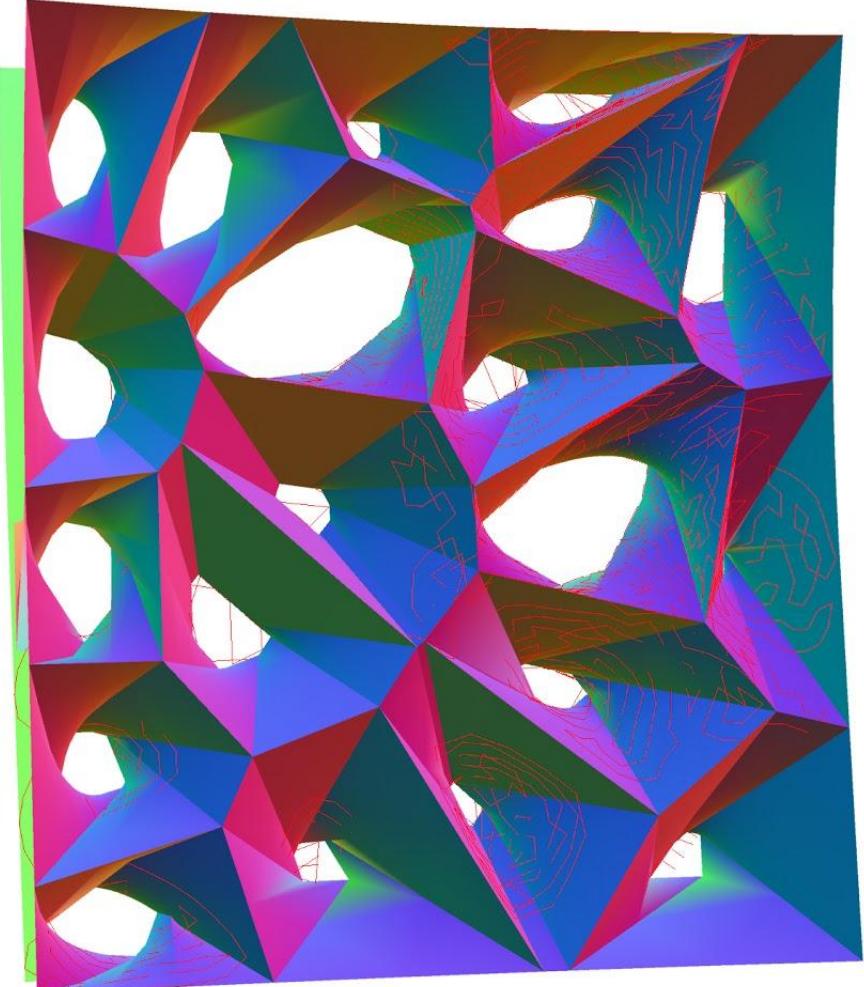
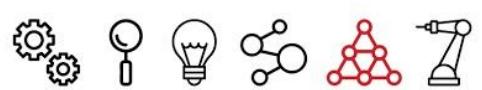


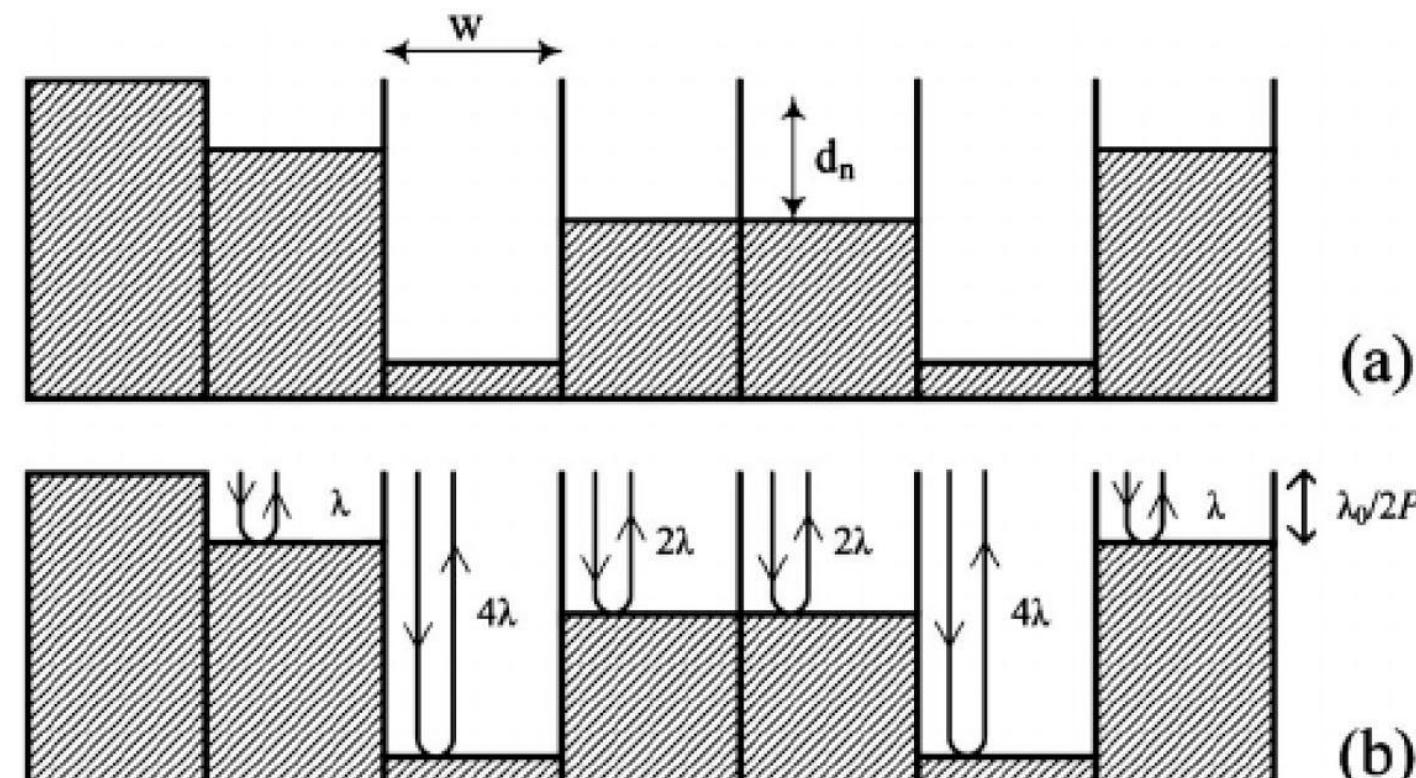
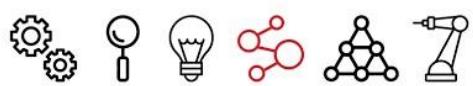
DESIGN DEVELOPMENT





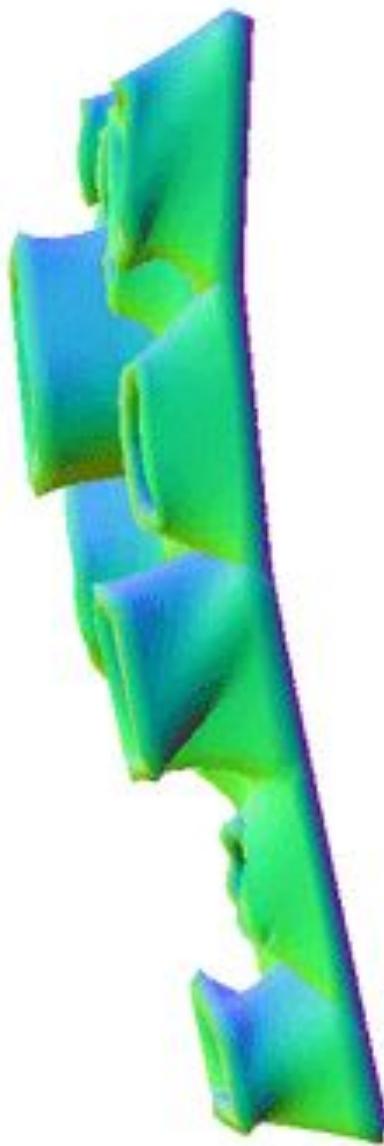




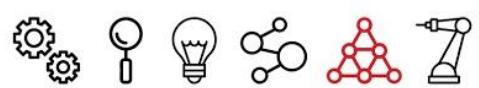


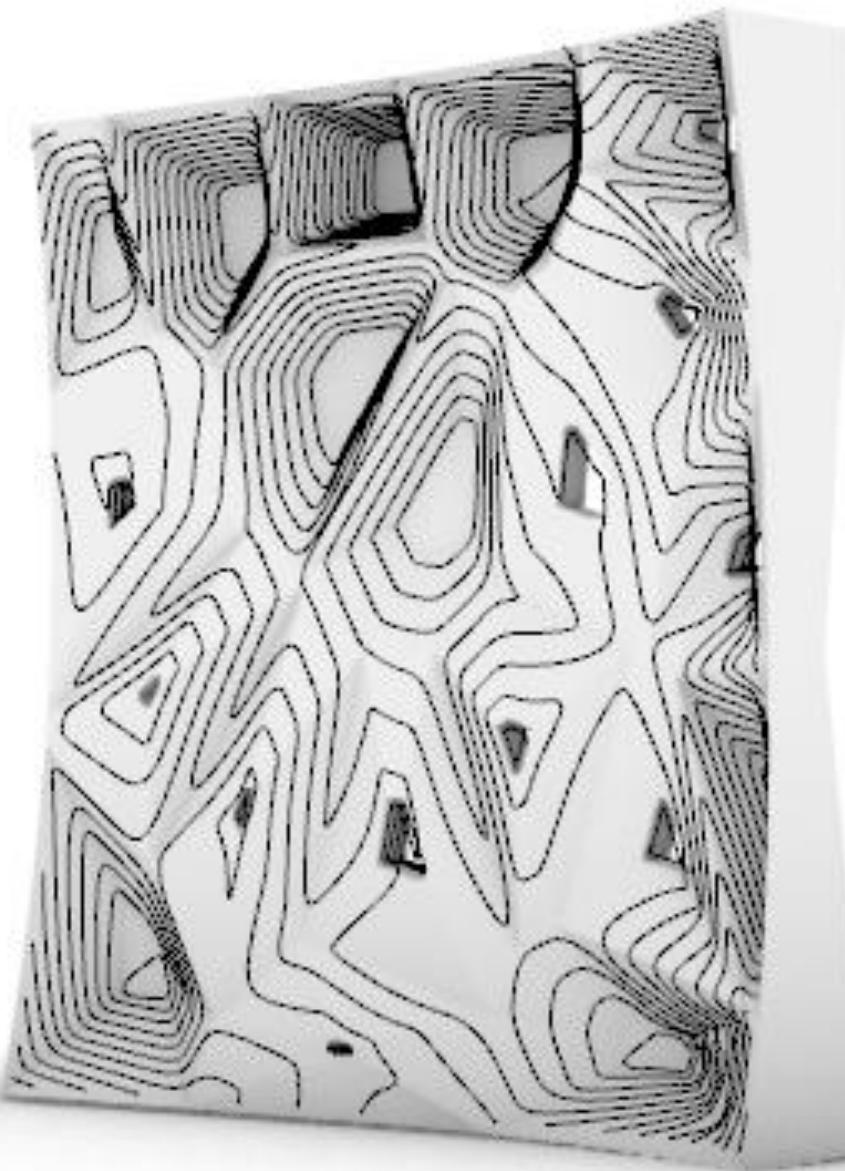
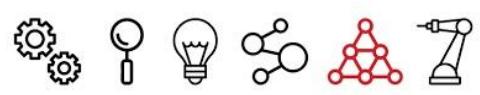
Modulation: one period of a quadratic residue diffuser

Dadiotis, K; Angus, J. A. S; Cox, T. J. 2008. Luke and power residue sequence diffusers. ARS. Salford



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PRODUCTION



