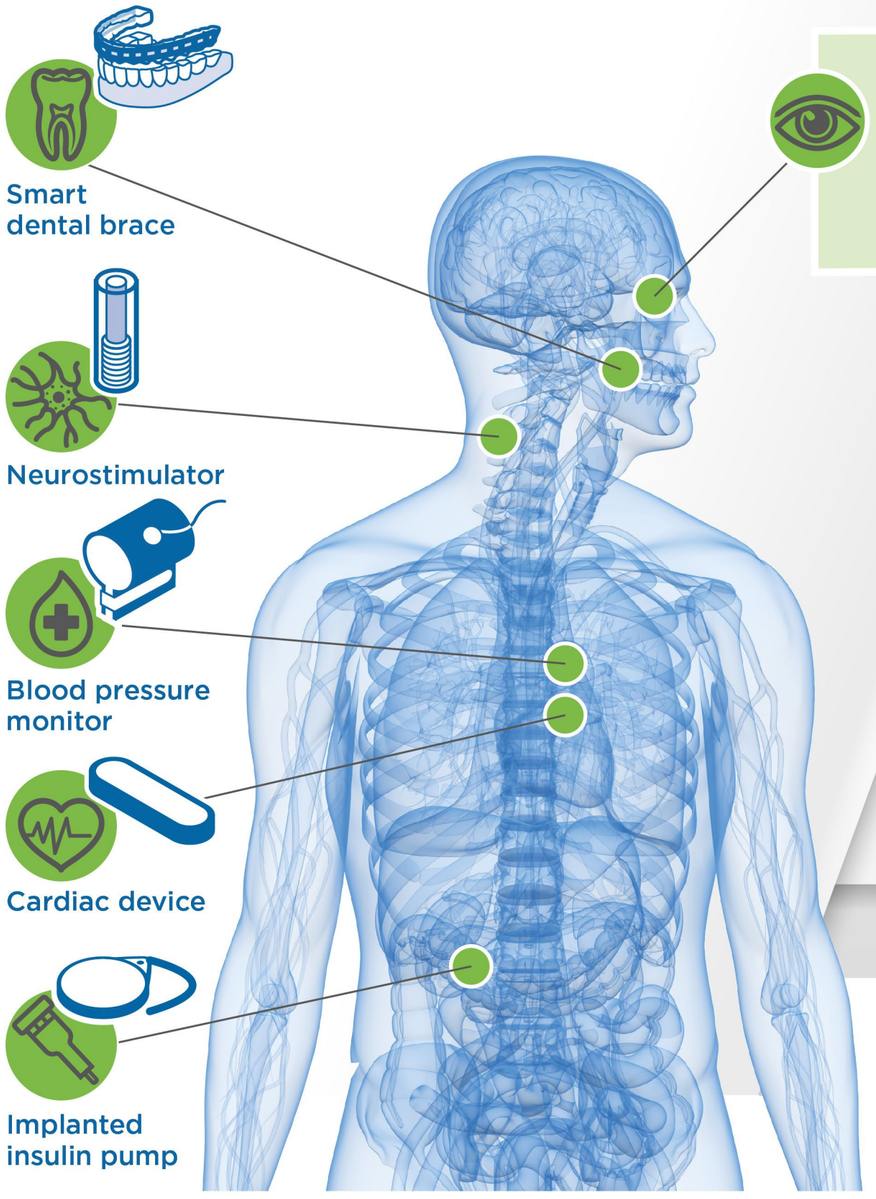
Stereax® M50

Ilika's First Miniature Solid State Battery for the MedTech Industry



Smart contact lenses

< 1mm thin

Market Dynamics	Stereax M50 Benefits	
Miniaturised form factors required	Mm-scale footprint. Thin < 1 mm. Customisable shapes and dimensions	Miniaturisation
Fit and forget devices	Compatible with energy harvesting and wireless charging	Easy Charging
Avoids cost of removal	All-solid chemistry enables 1000s of recharges and 10+ years battery life	Longevity/ Reliability
Increasing interconnectivity of medical devices requiring more battery energy	50% extra density compared to commercially available solid state batteries	Interconnectivity
Devices implanted nearer to vital organs	Safe: Won't leak, burn, explode; biocompatible packaging	Safety/ Biocompatibility

Safe packaging enables implantation

+40% energy density gained from advanced patterning techniques

Leading edge energy density for a given footprint

ilika accelerated materials innovation

www.ilika.com

stereax® solid state batteries for the connected world