



MEMS Design and Fabrication Services

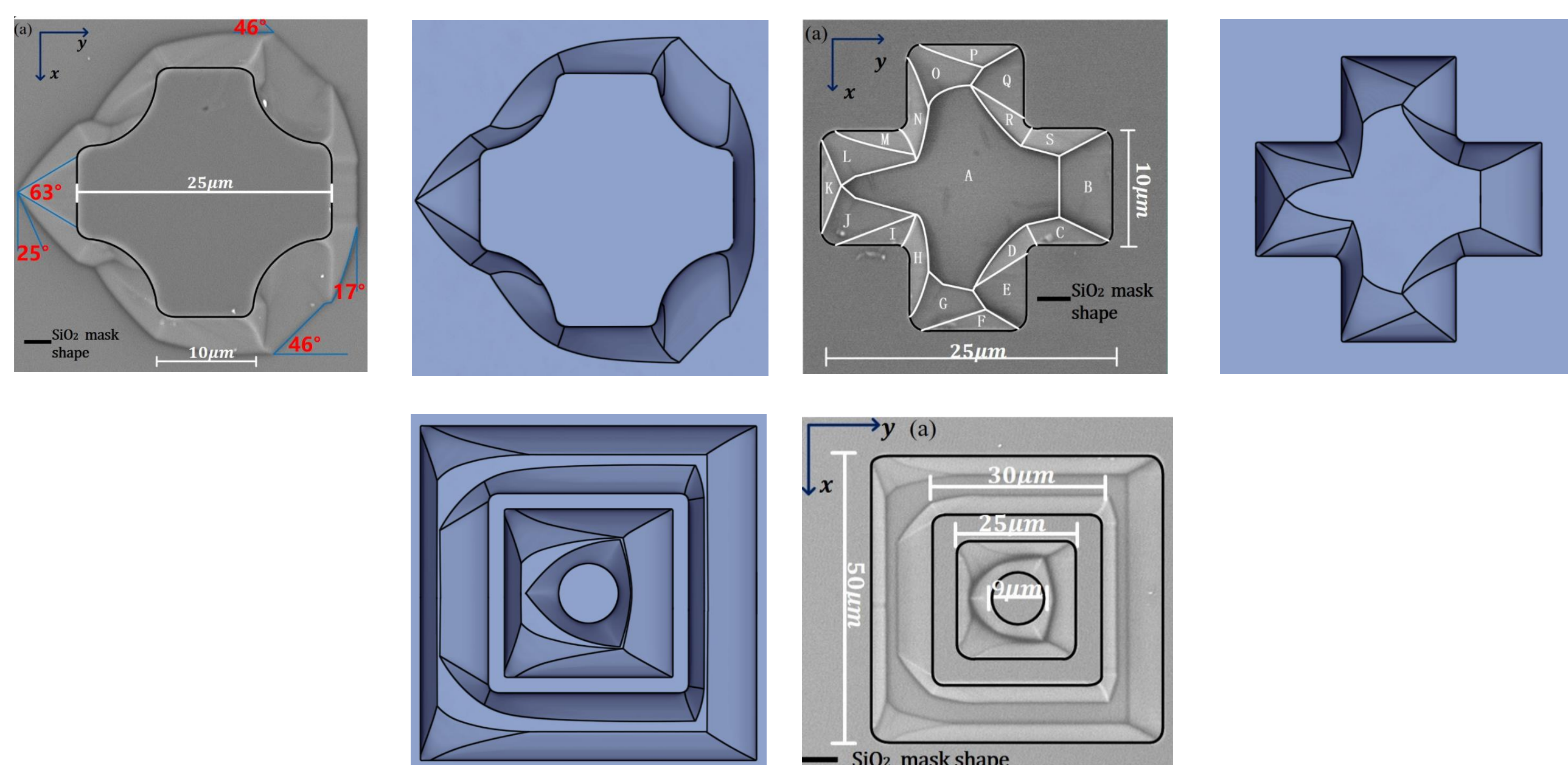
IntelliSense



Design, development and fabrication for blue chip companies and start-up worldwide

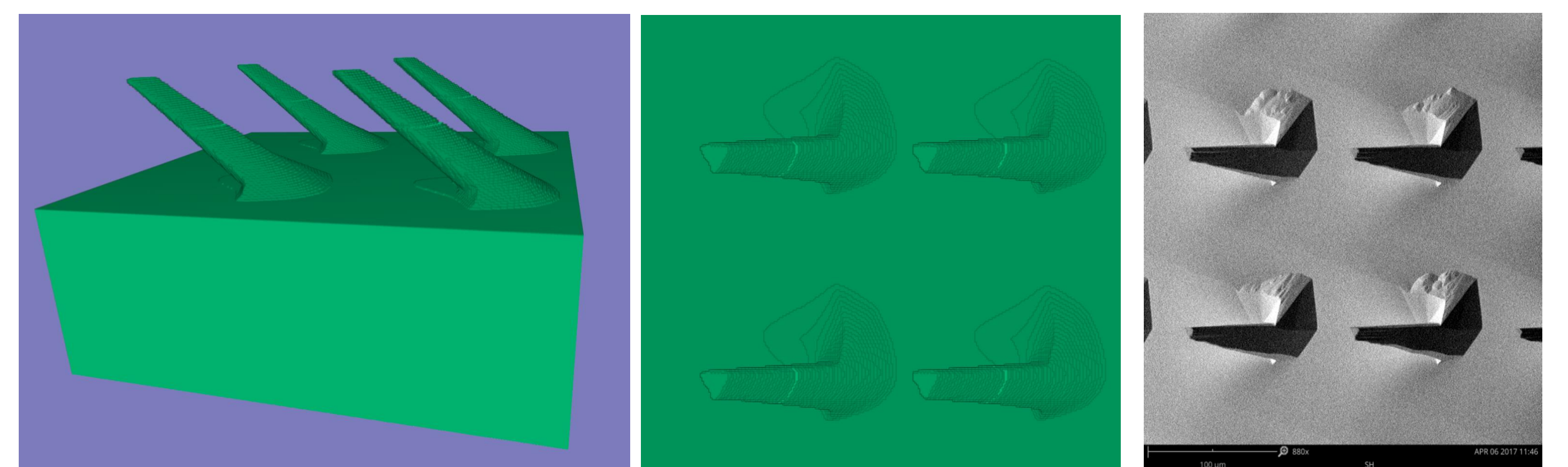
Prototype and transfer MEMS-based components into production

Process case 1: Wet etching of Sapphire



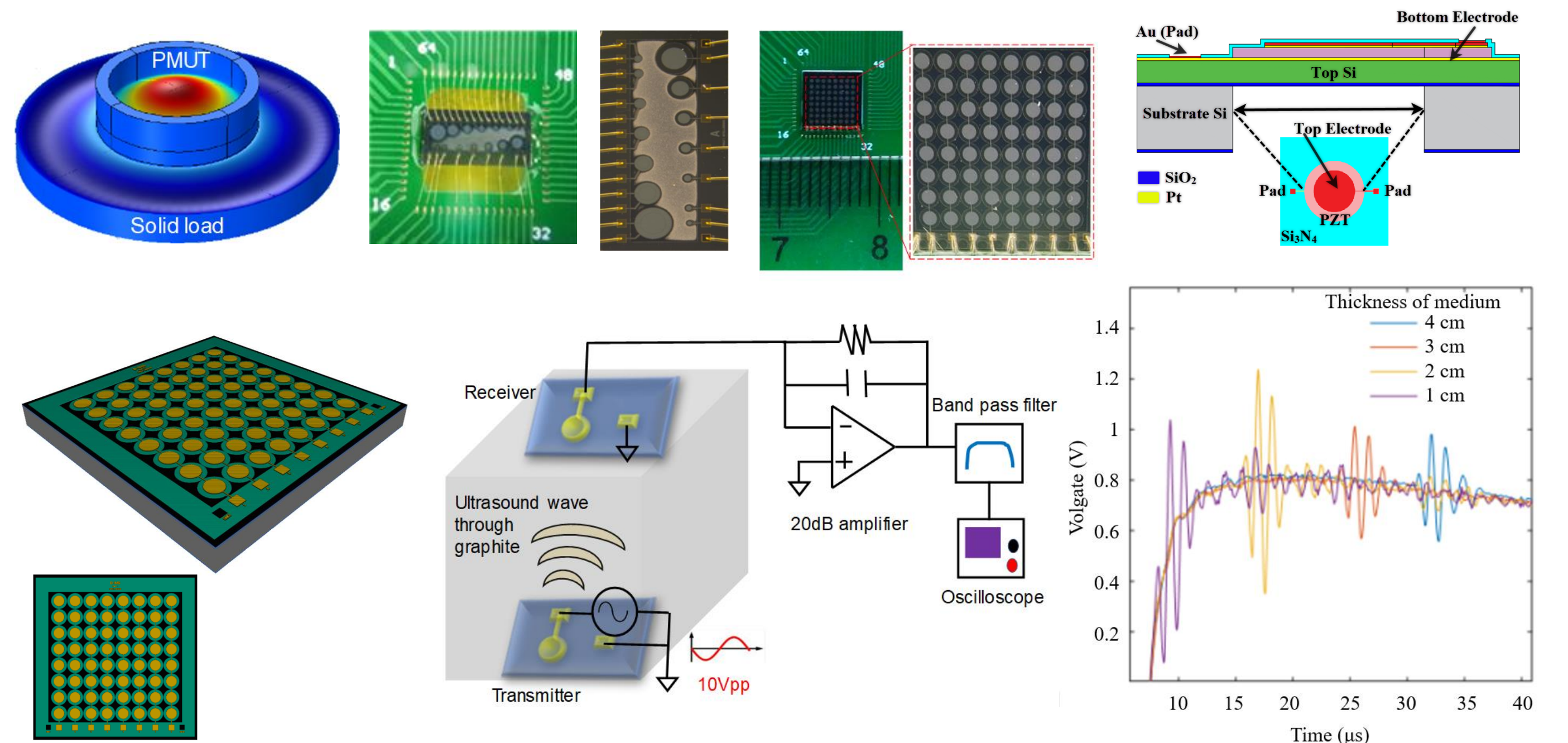
- Wet etching technology for high aspect ratio microstructures.

Process case 2: Sophisticated 3D structure for Quartz



- Wet etching technology for high aspect ratio microstructures on Quartz.
- Patterning 3-D MEMS consisting of high aspect ratio microstructure.

Application case 1: Piezoelectric Micromachine Ultrasonic Transducer(PMUT)

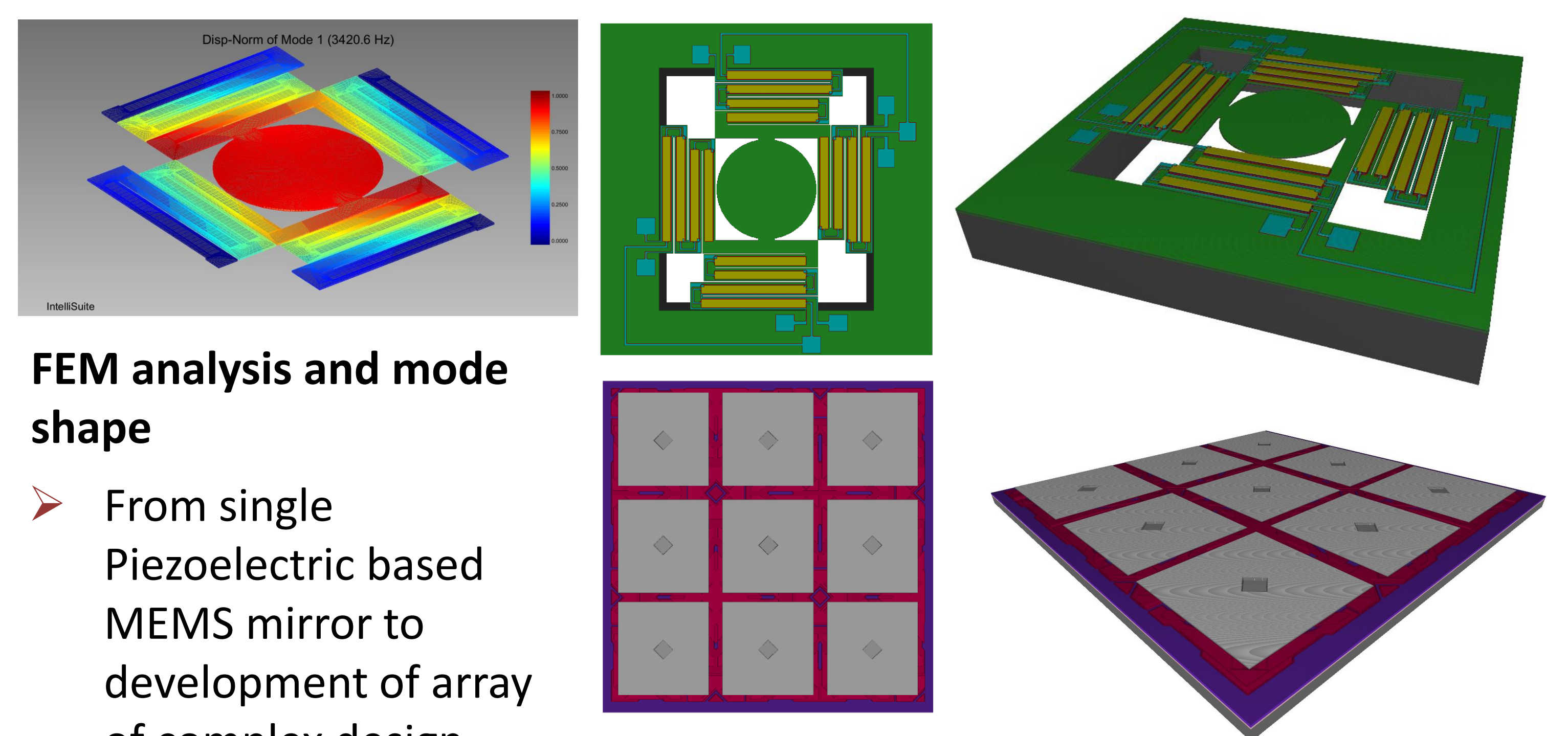


Fabsim virtual clean room process

Multilayer measurement results

- From single to array of PMUT develop for application

Application case 2: MEMS Mirrors

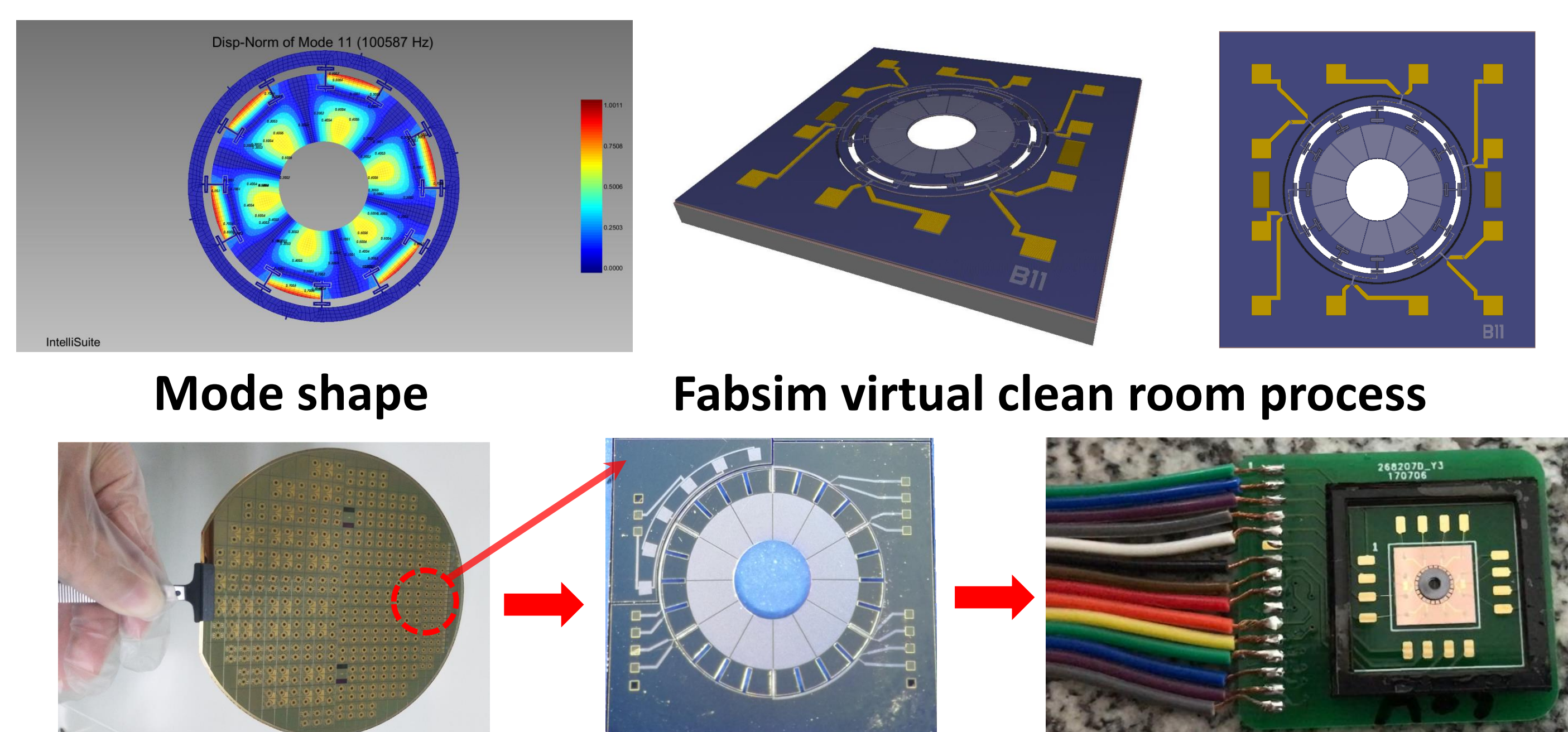


FEM analysis and mode shape

Fabsim virtual clean room process

- From single Piezoelectric based MEMS mirror to development of array of complex design micro-mirrors.

Application case 3: Ultrasonic motor

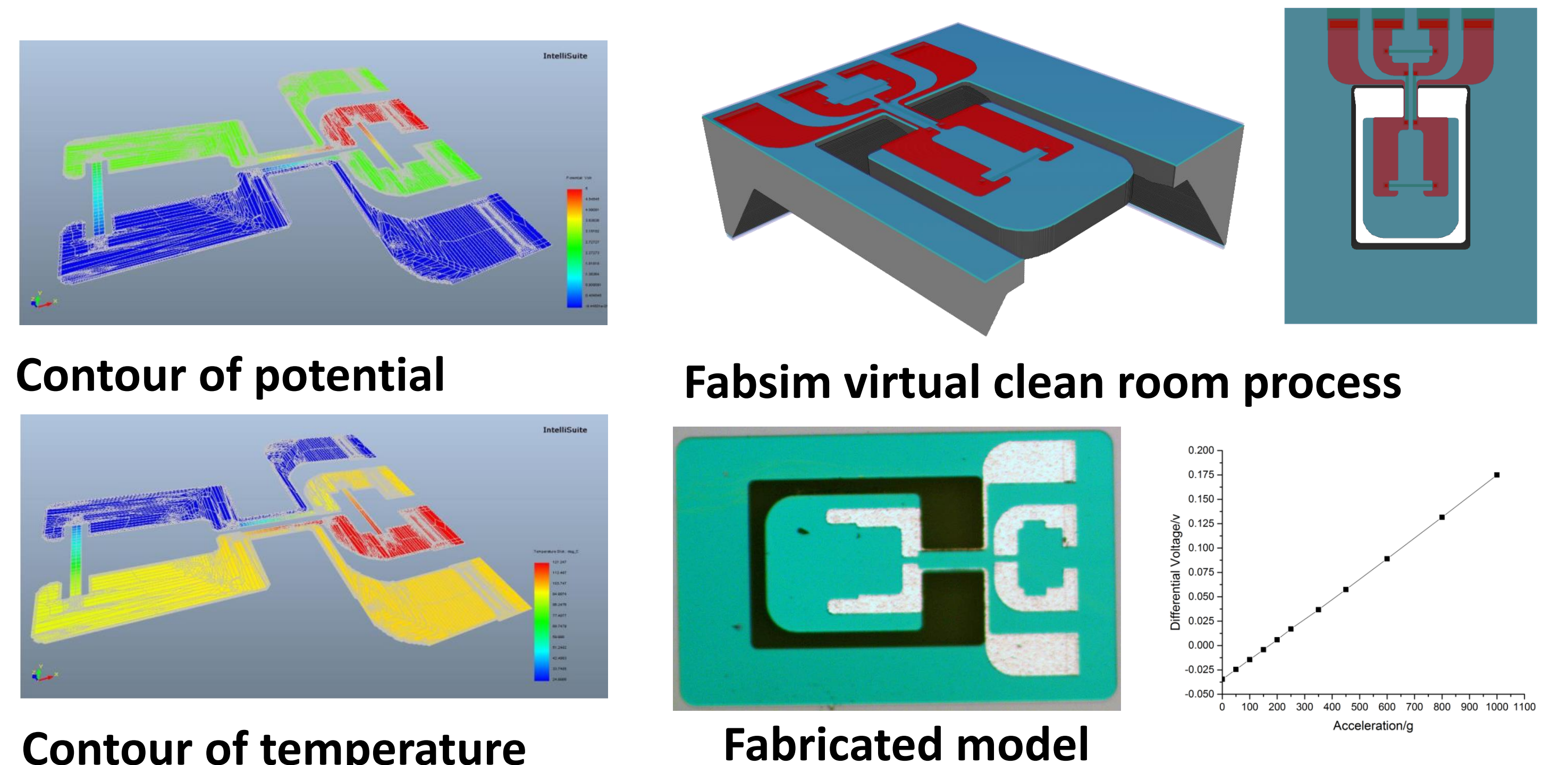


Mode shape

Fabsim virtual clean room process

- From modeling to prototype

Application case 4: Accelerometers



Contour of potential

Fabsim virtual clean room process

Contour of temperature

Fabricated model

