

Biological Domain

Neural Activity
(V_m Depolarization)



Molecular Transduction
(Ci-VSP Conformational Change)



Acoustic Modulation
 $\beta_{NL}(t) = \beta_0 + \eta\Phi(V_m)$

US Beam

Digital Domain

BMI Output
(Cursor / Robotic Arm)



TTHA Decoder
(Harmonic Attention)



Phased Array
(Tx: 500 kHz / Rx: Harmonics)

