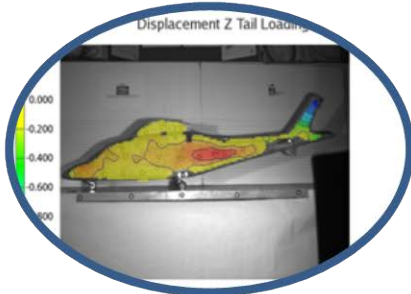


### Fusing Different Measurement Regimes



*Rigid Body*



*Low Flexible Modes*

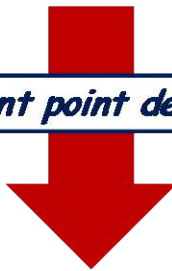


*Higher Flexible Modes*

*Various approaches with different point densities spanning a wide bandwidth*



*Optical*



*Accelerometer*



*Laser*



Different measurement methodologies with different spatial resolutions are commonly obtained. Optical displacements, accelerometers and high frequency laser measurements all have different frequency ranges and spatial distributions. A reduction/expansion methodology is used to create one fused common set of measurements and data to represent the system modes over the complete frequency range.