

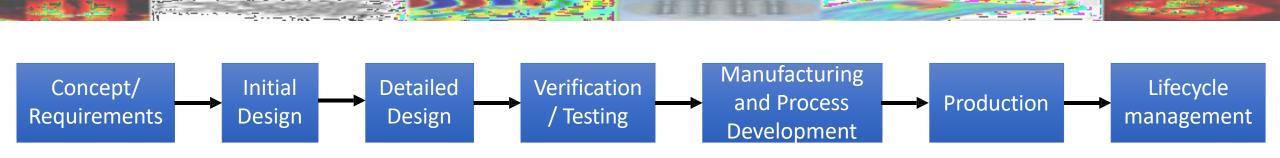


The Inspectability Metric: A Formalized System of Measurement Enabling the Design for Inspection Framework

Peter Juarez, Bastien Clausse, Starr D'Auria, Jérôme Dudous, Elizabeth Gregory, Sébastien Lonné, August Noevere, Bill Schneck

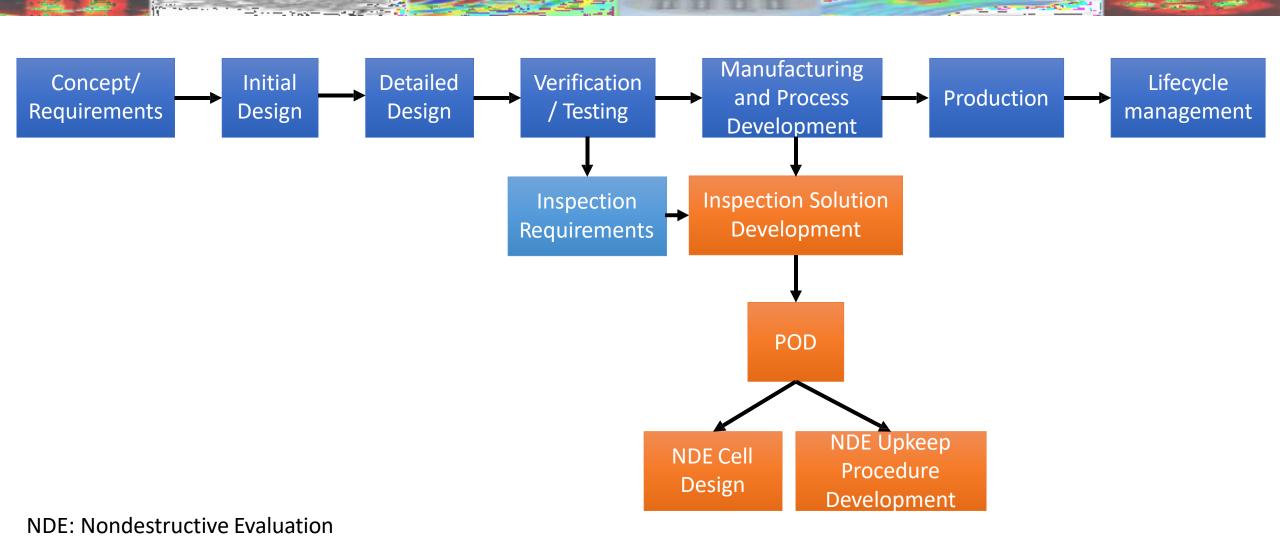










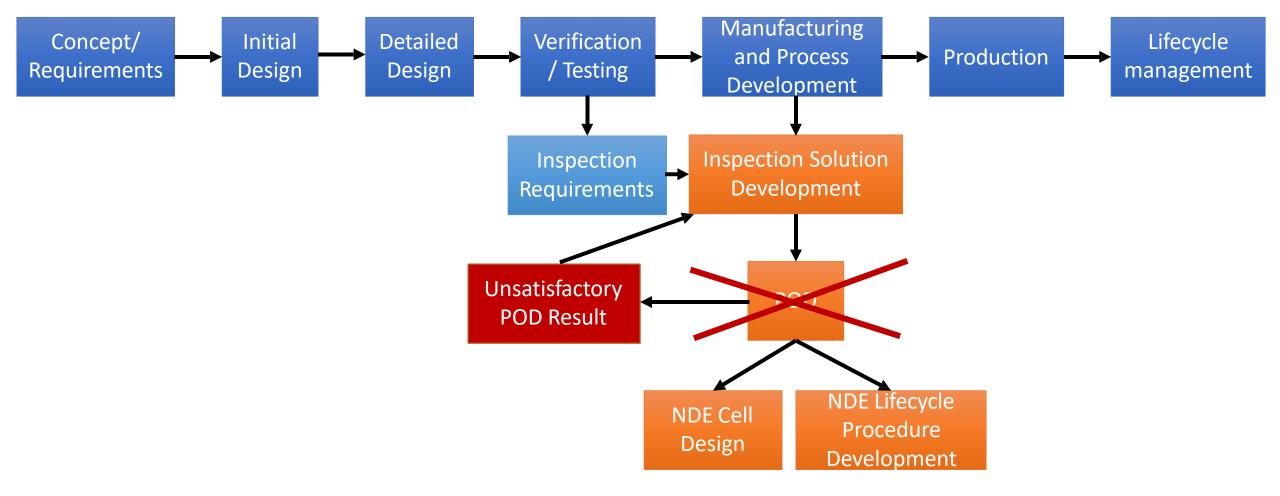


POD: Probability Of Detection



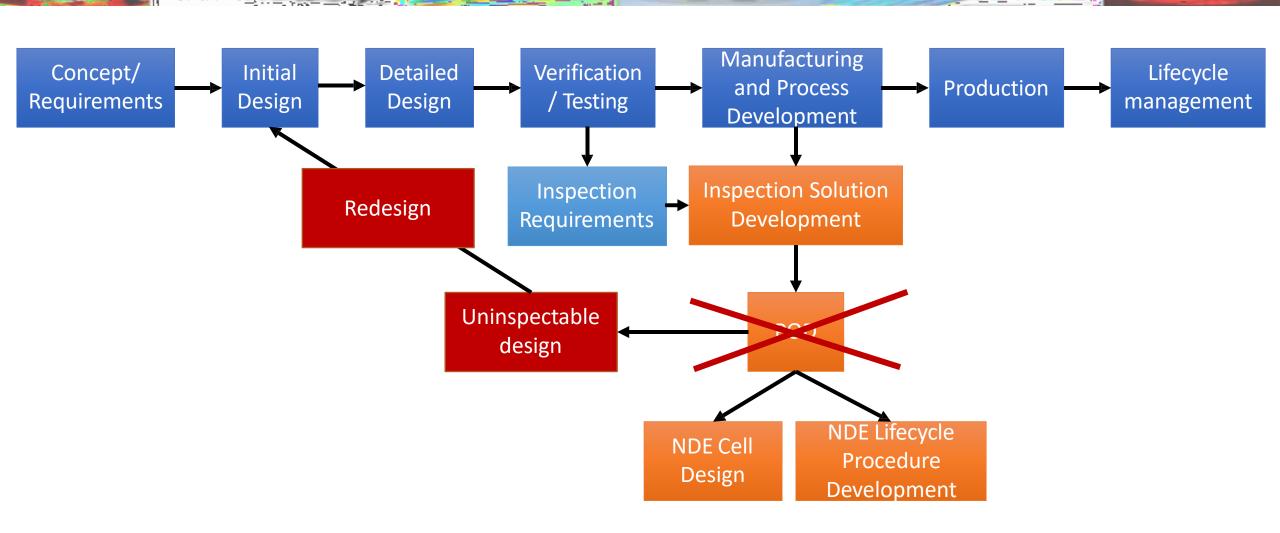






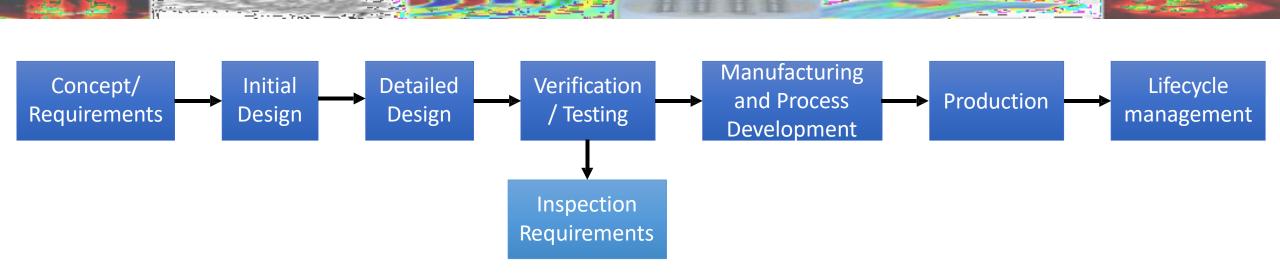






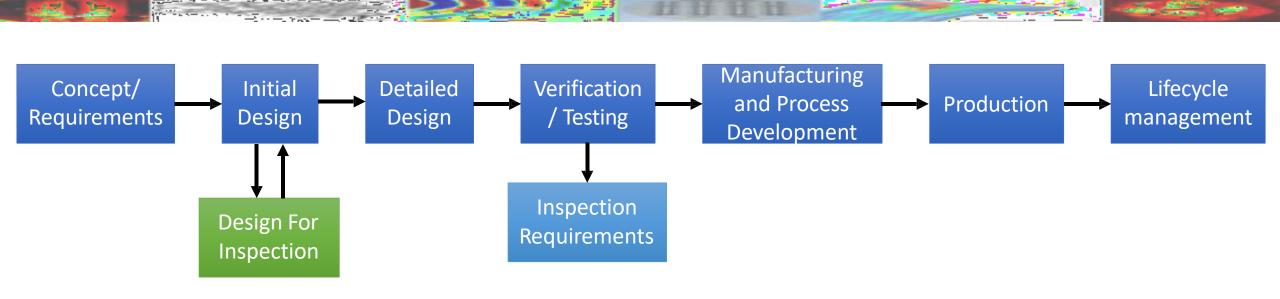






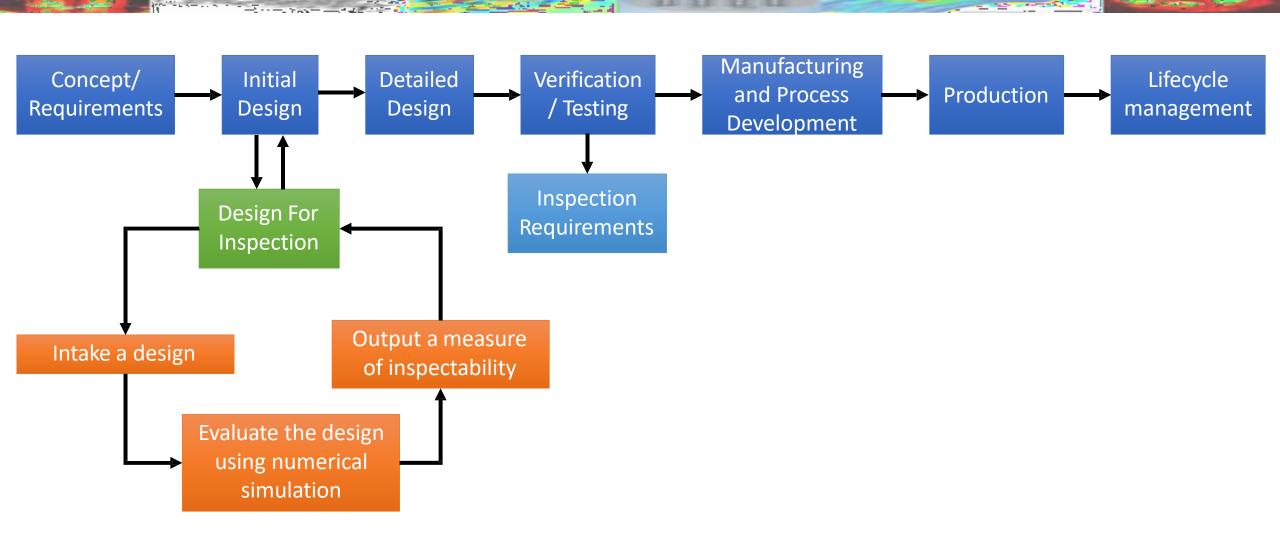






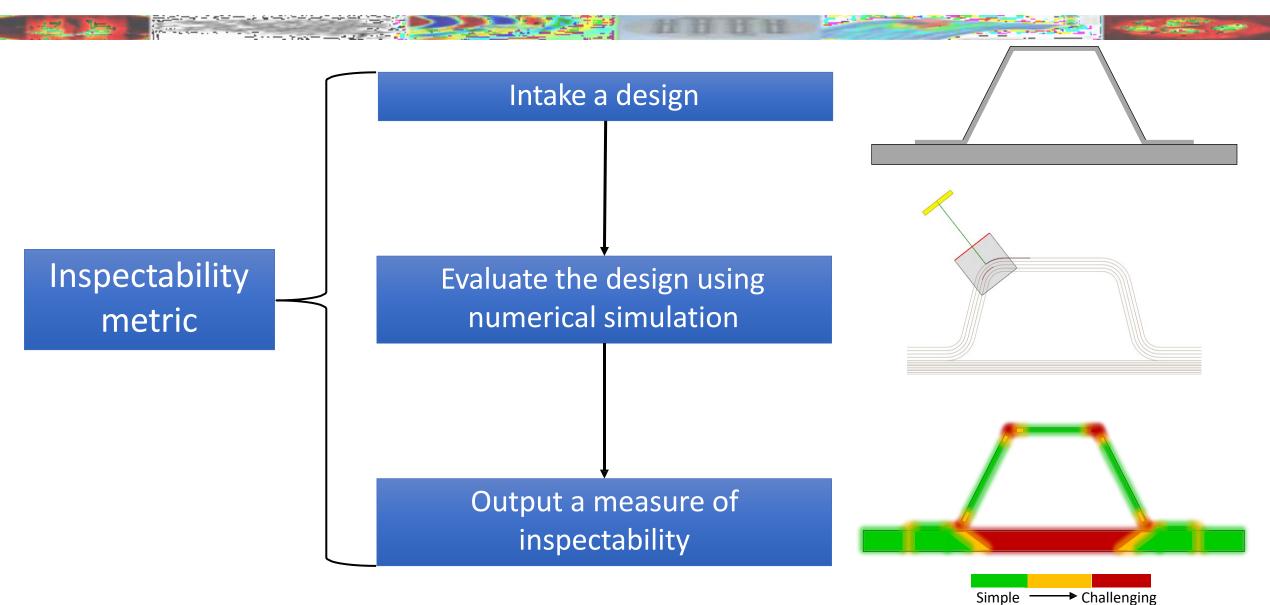
















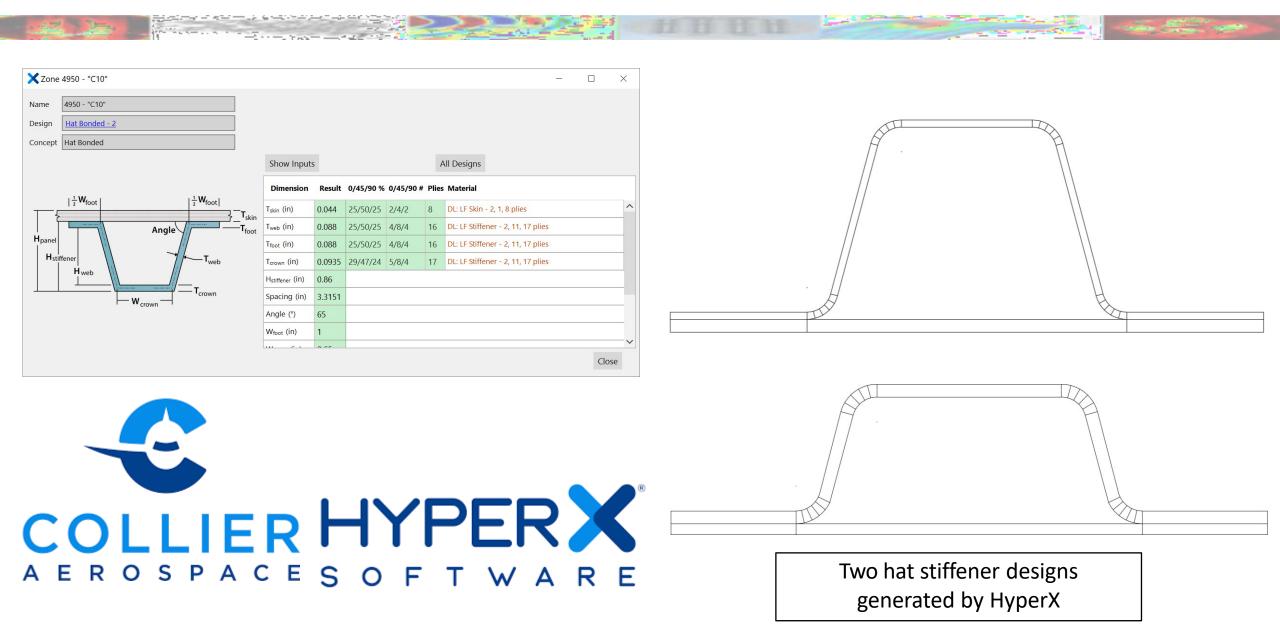


How does the design change the physics of detecting a defect?



Evaluating Inspectability of Competing Designs





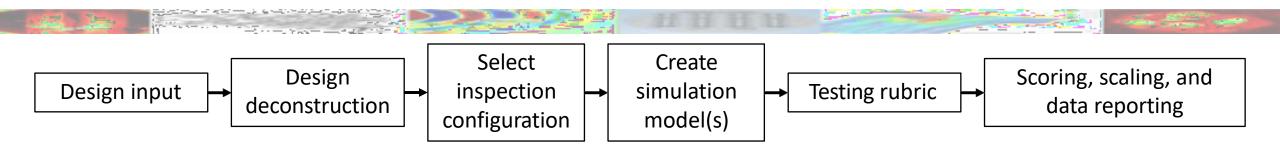






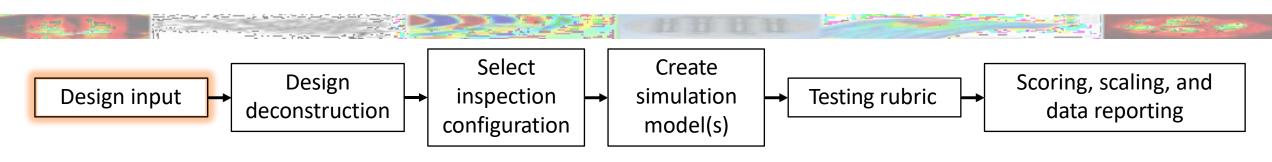


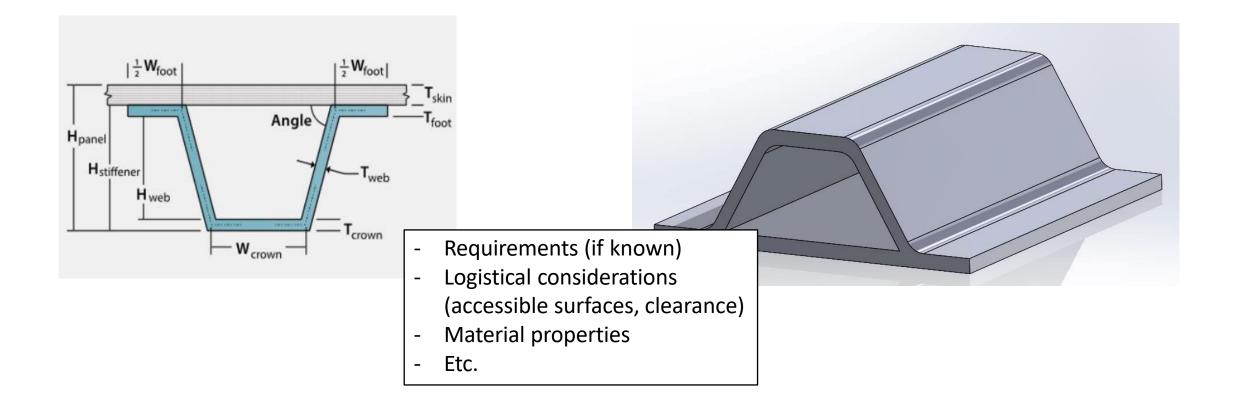






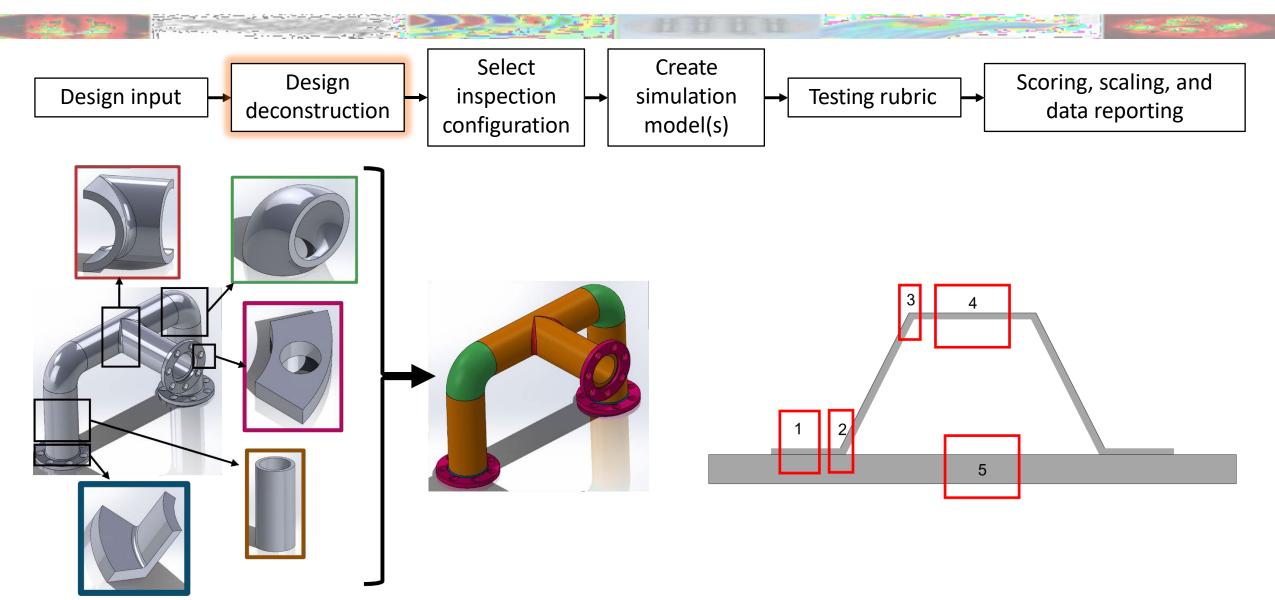






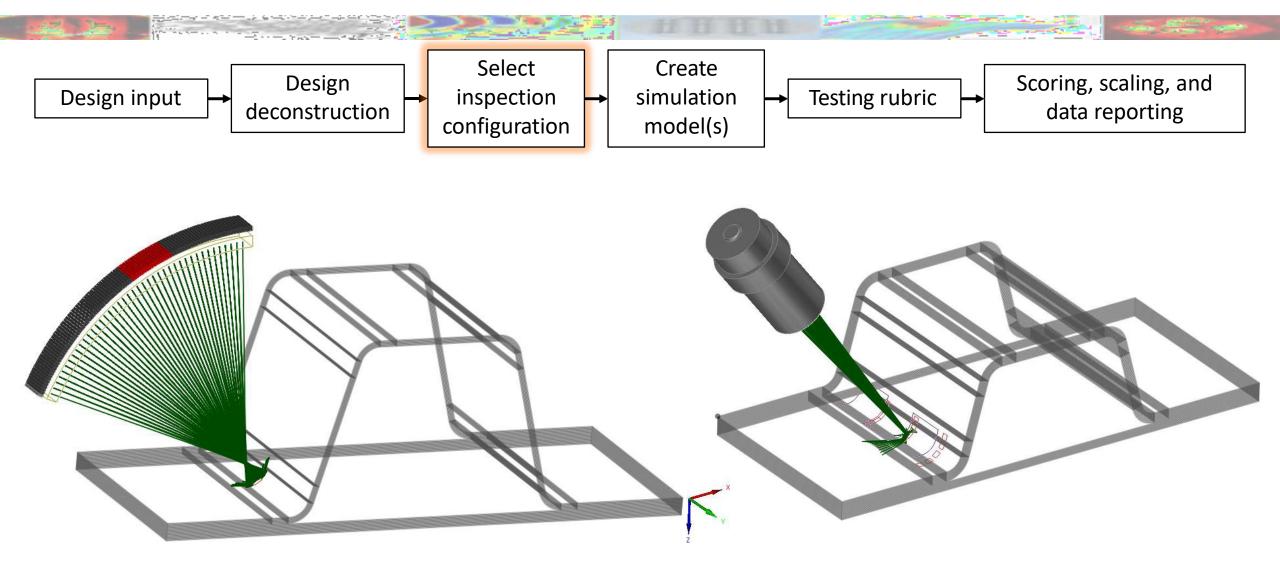






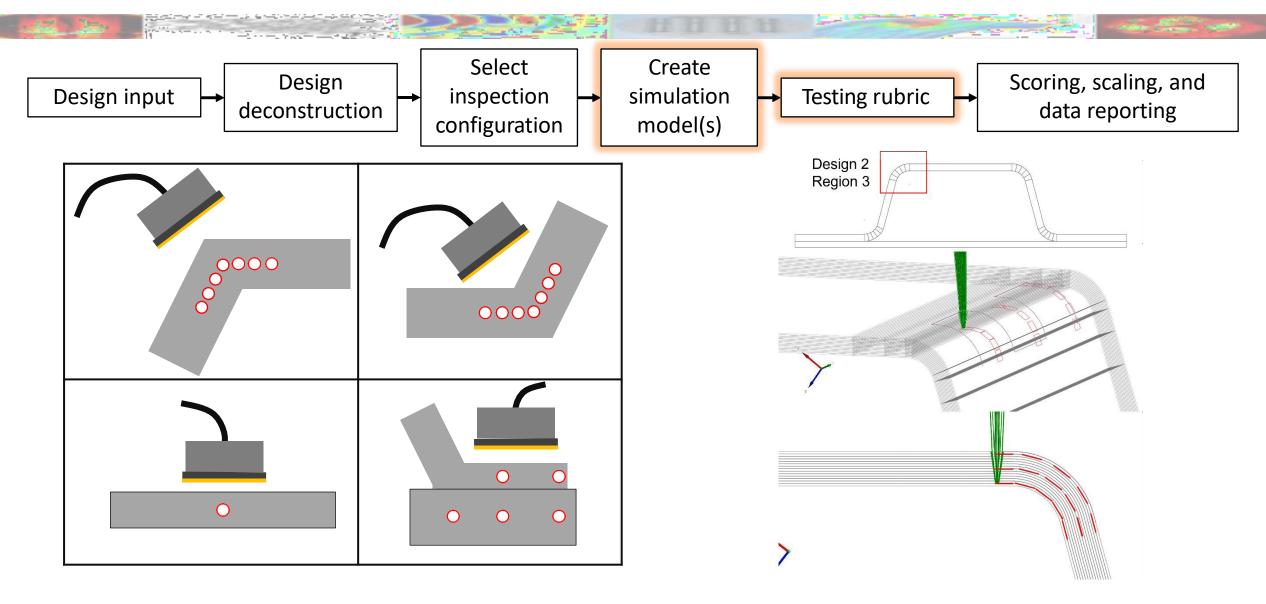






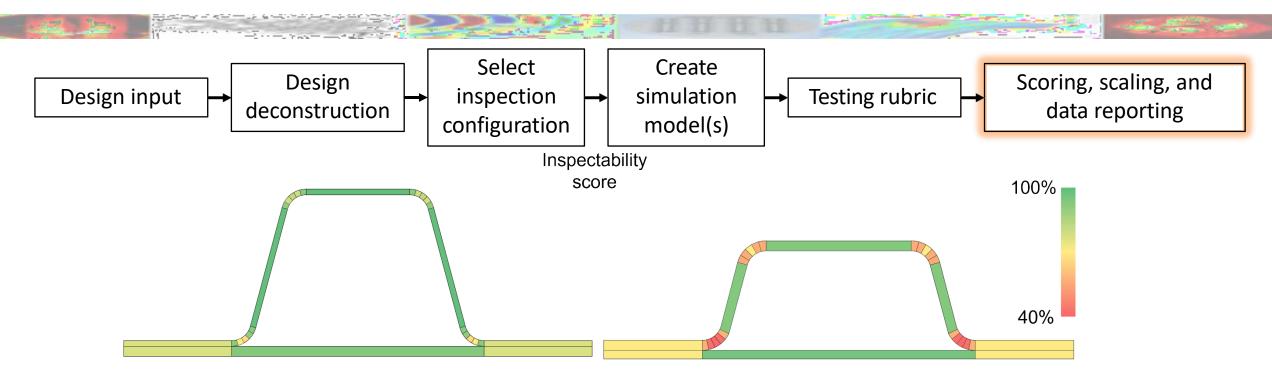






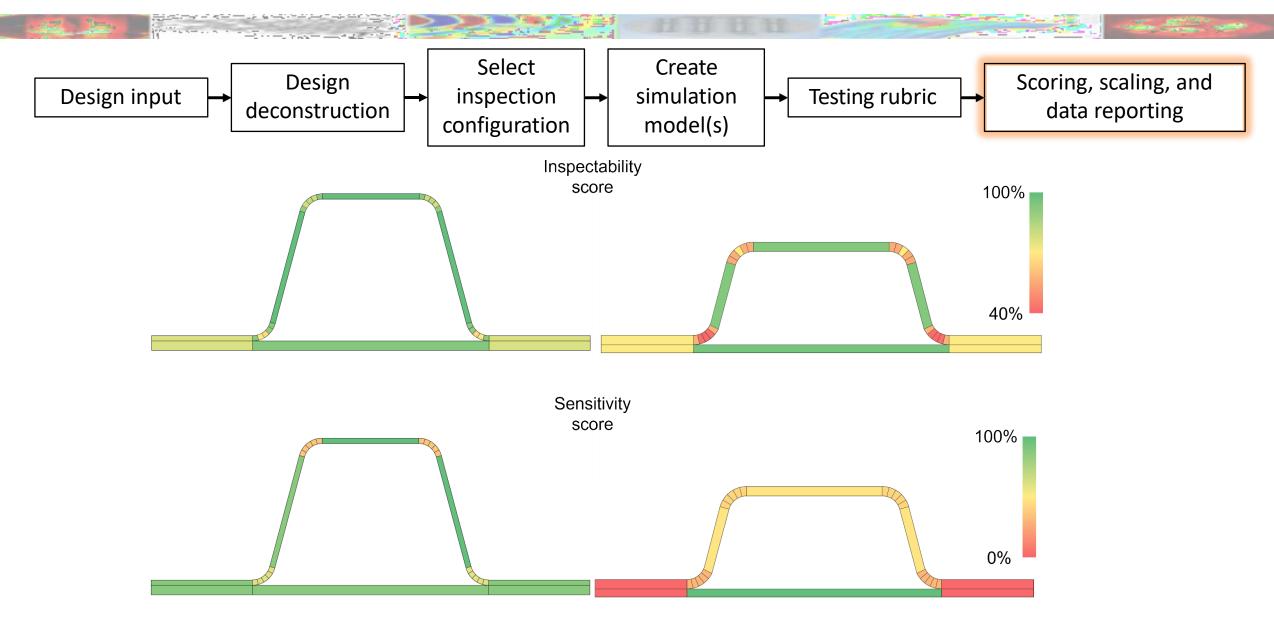


















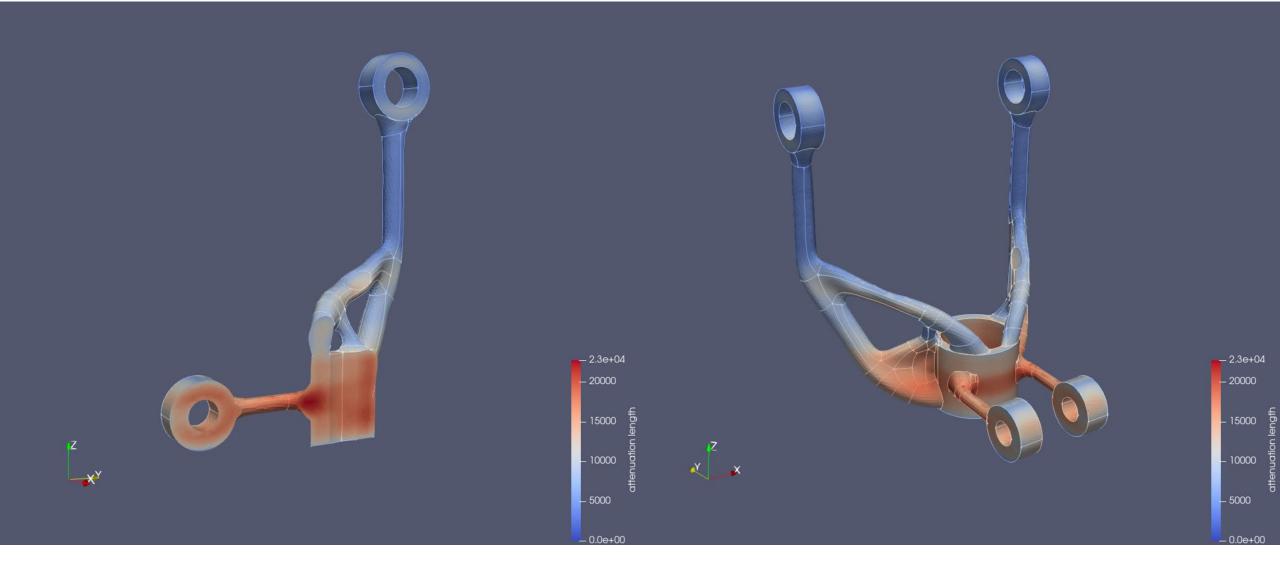
Cessna landing gear fork



Design created using generative design algorithm in Autodesk Fusion360 generative design algorithm

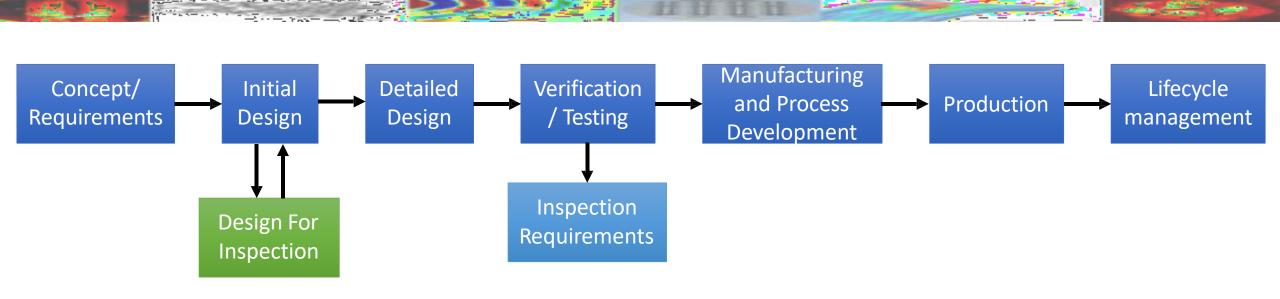






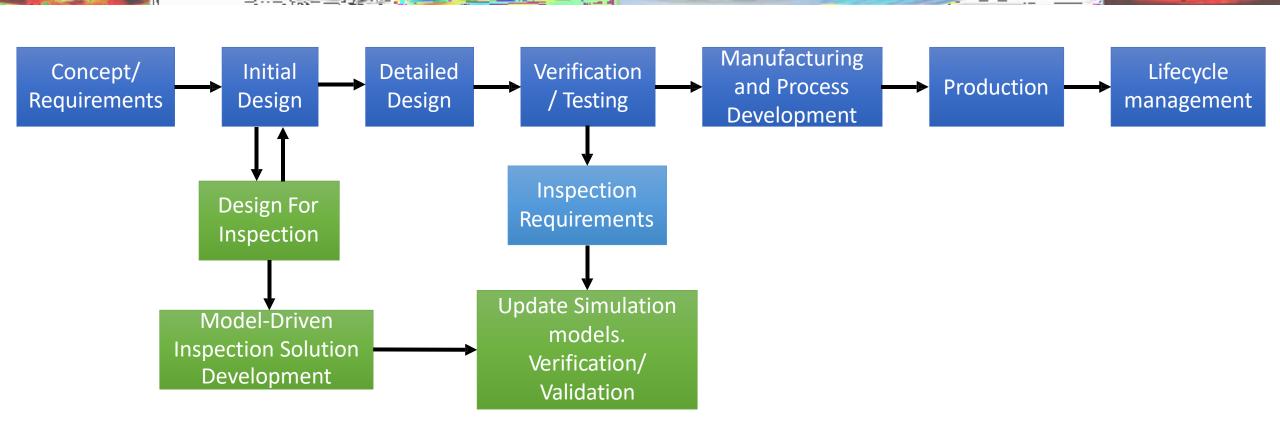






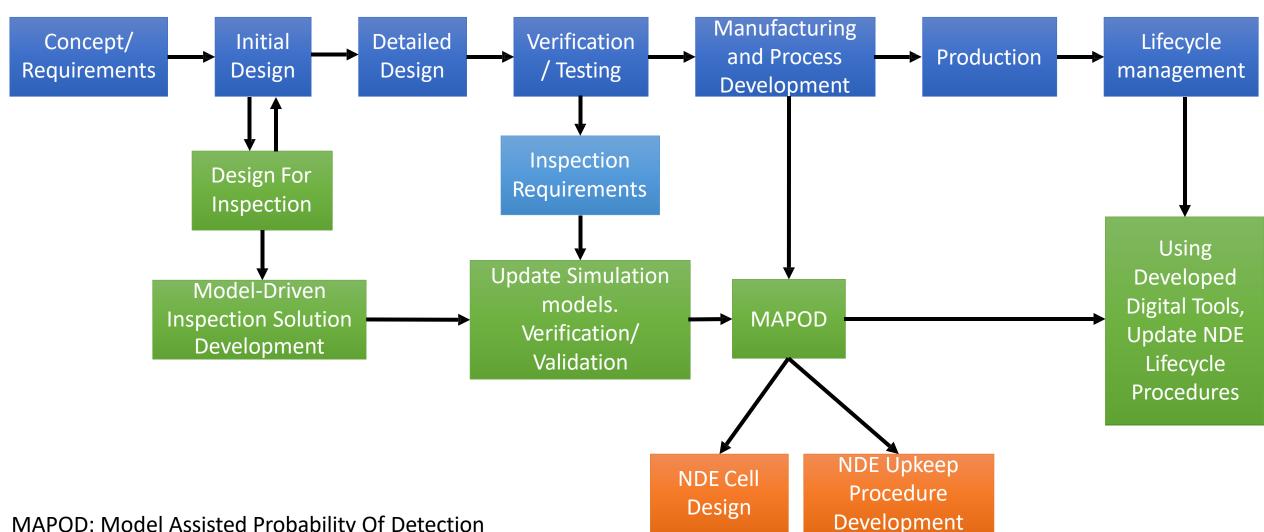




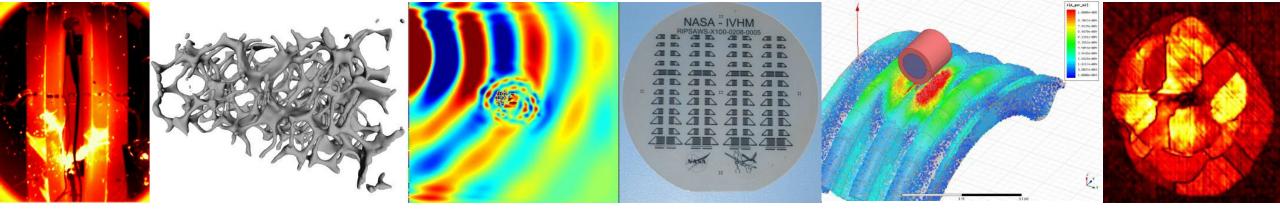








MAPOD: Model Assisted Probability Of Detection



Questions?