

Claudia Jimenez Martin

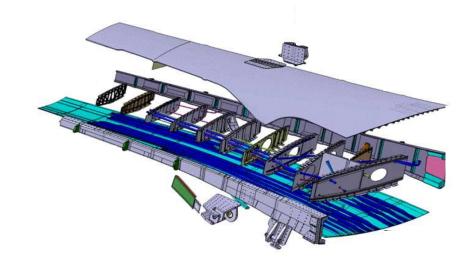
Supervisors: Dr James Kratz (UoB) & Jon Wright (Airbus)

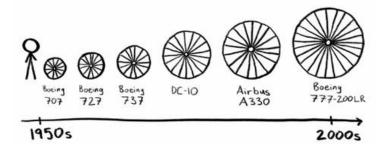


The Problem Statement

- Aircraft production rates are increasing
- Structures are more integrated
- Jet engines are larger







Complex shapes



The Preforming Bottleneck

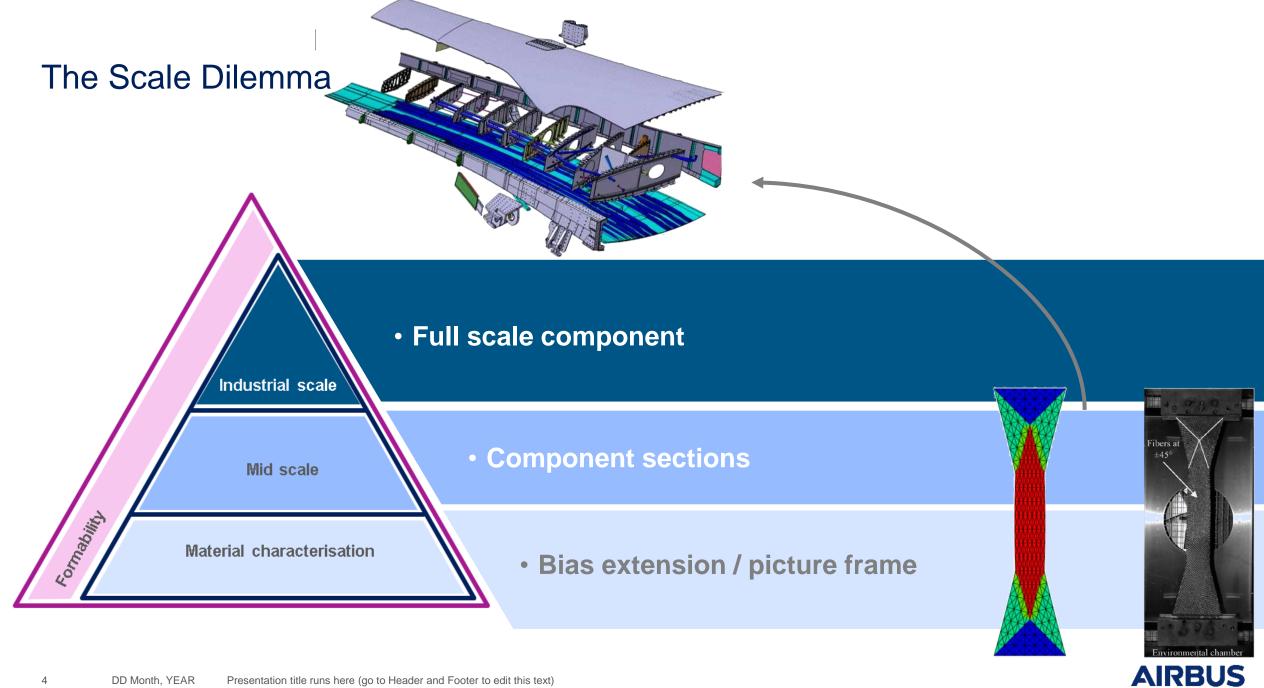


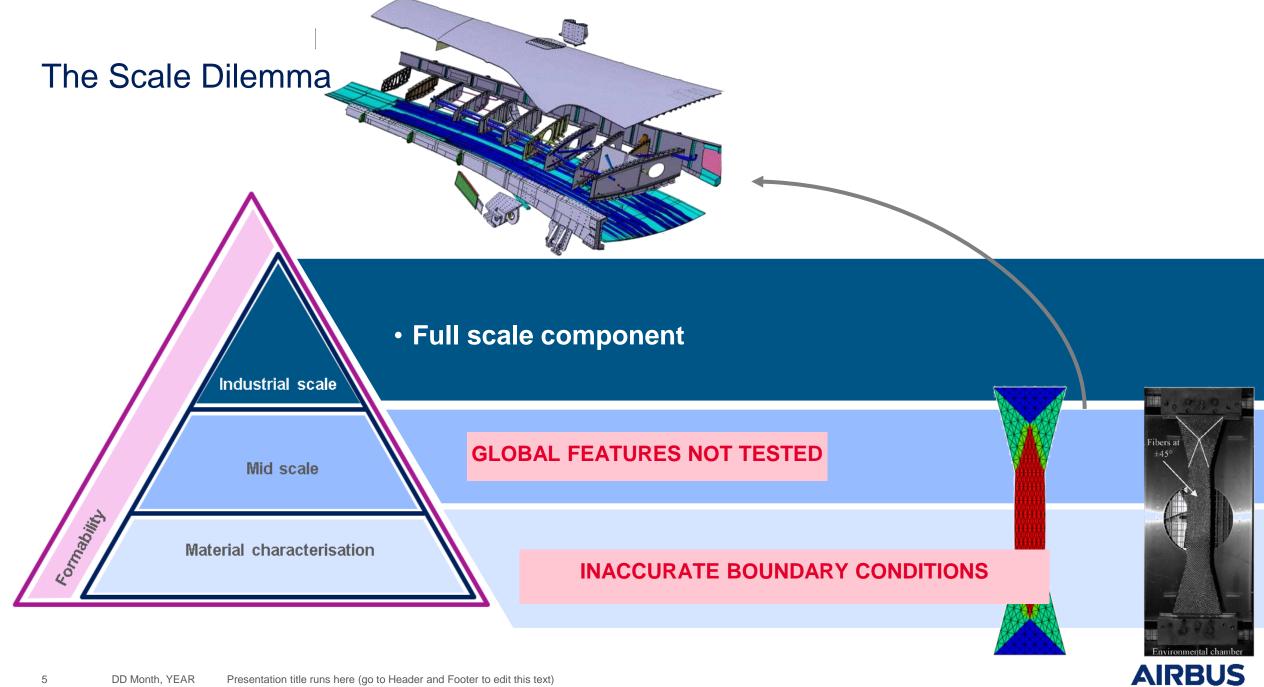
• Dry fibre processes offer promising deposition rates.

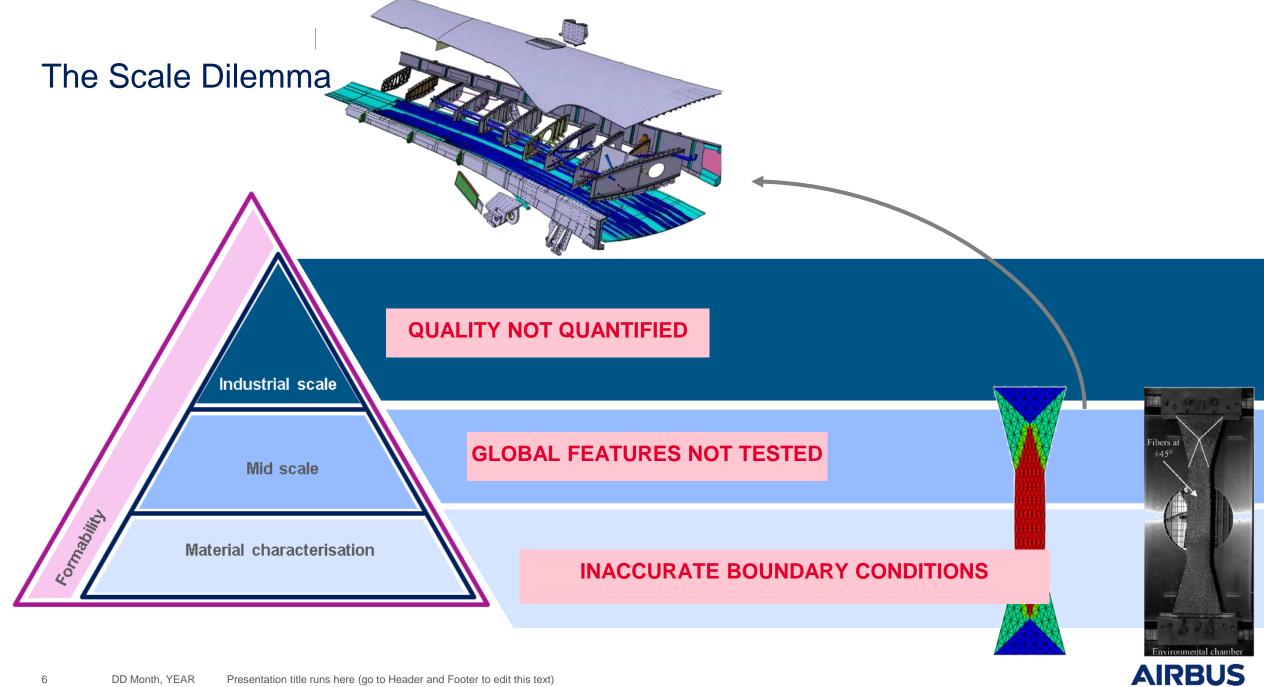
- Preforming is complex, step-intensive and often manual
- Defects such as ply wrinkling can occur.

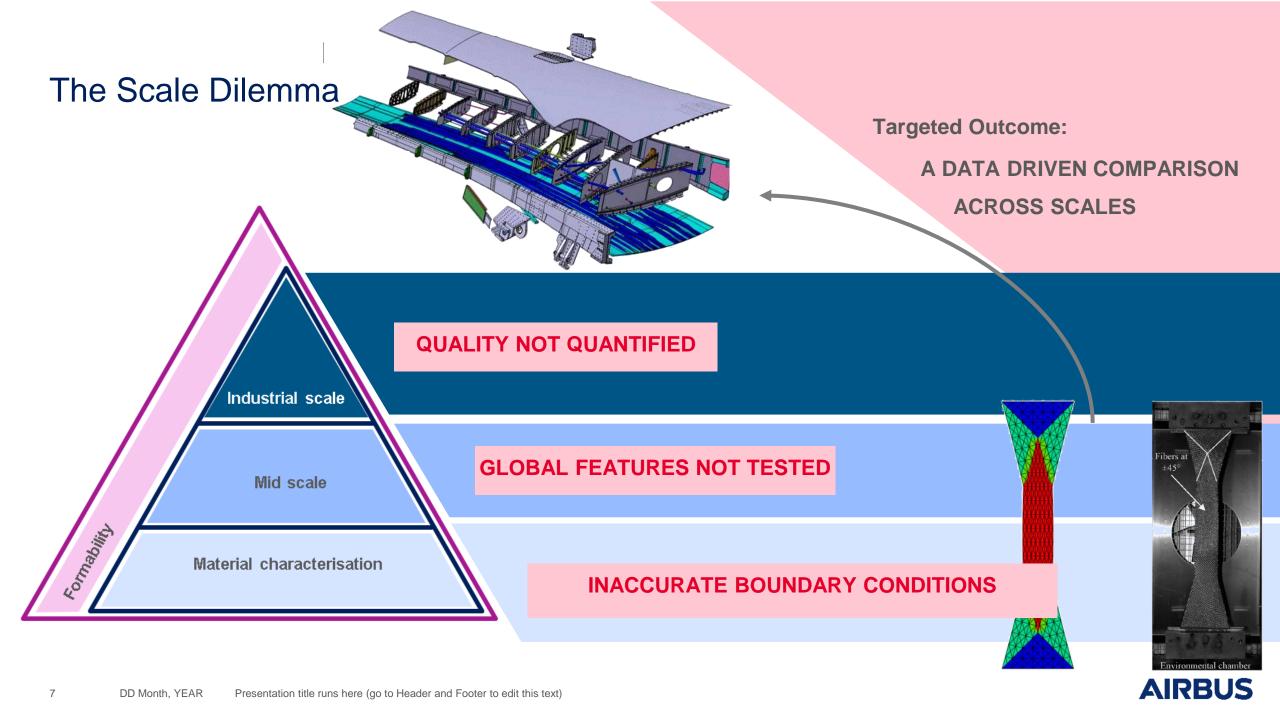


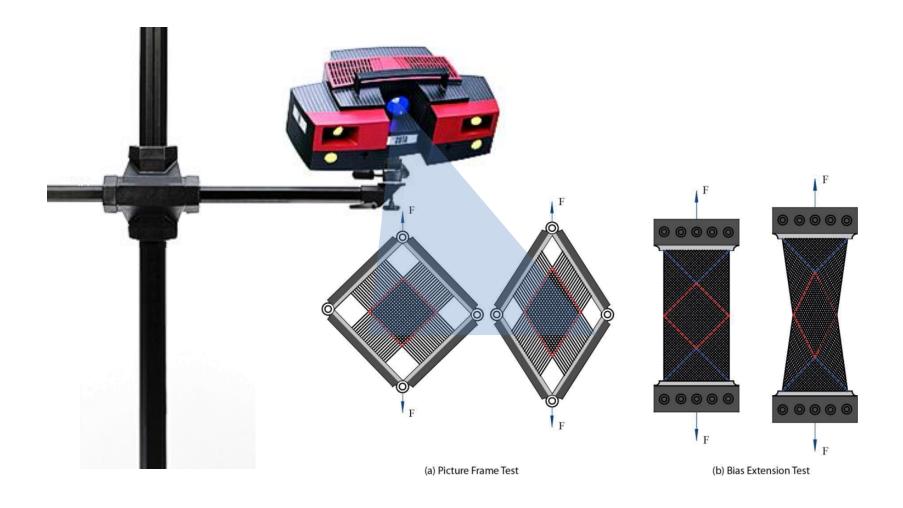








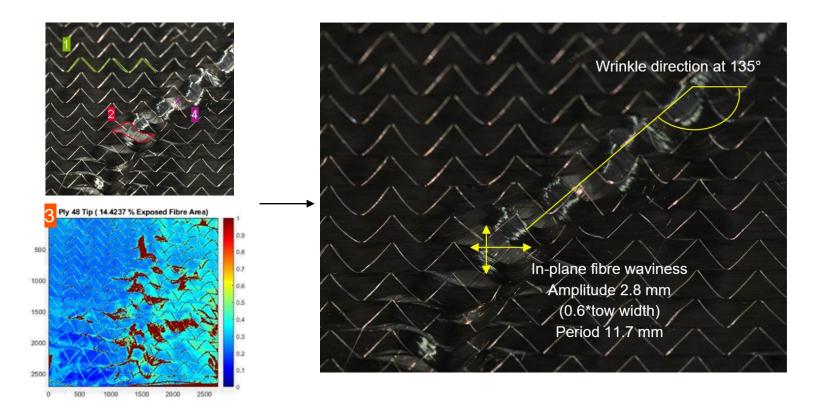




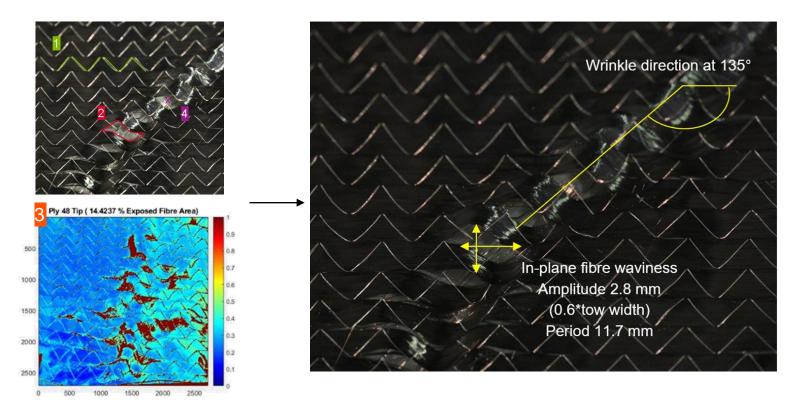


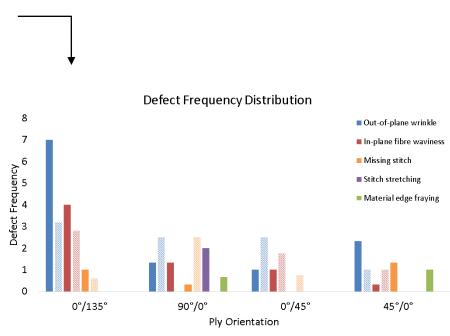




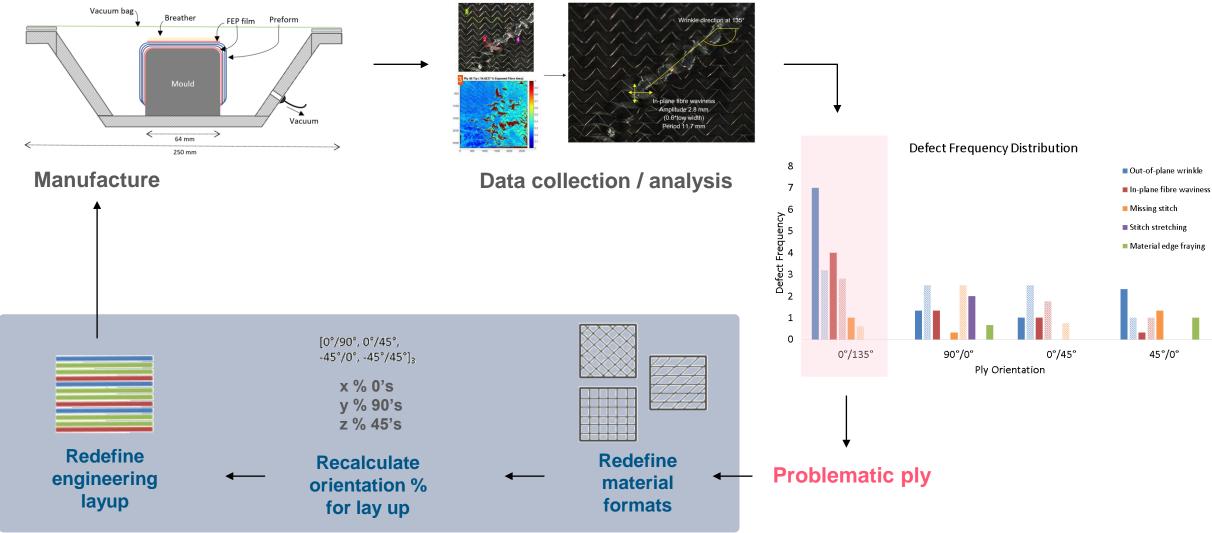




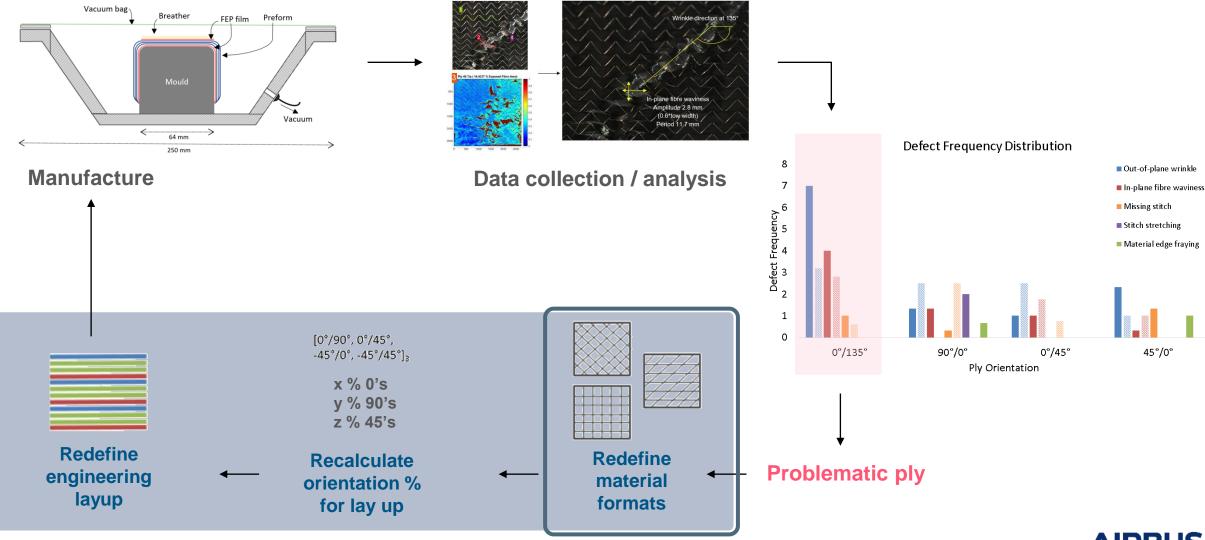




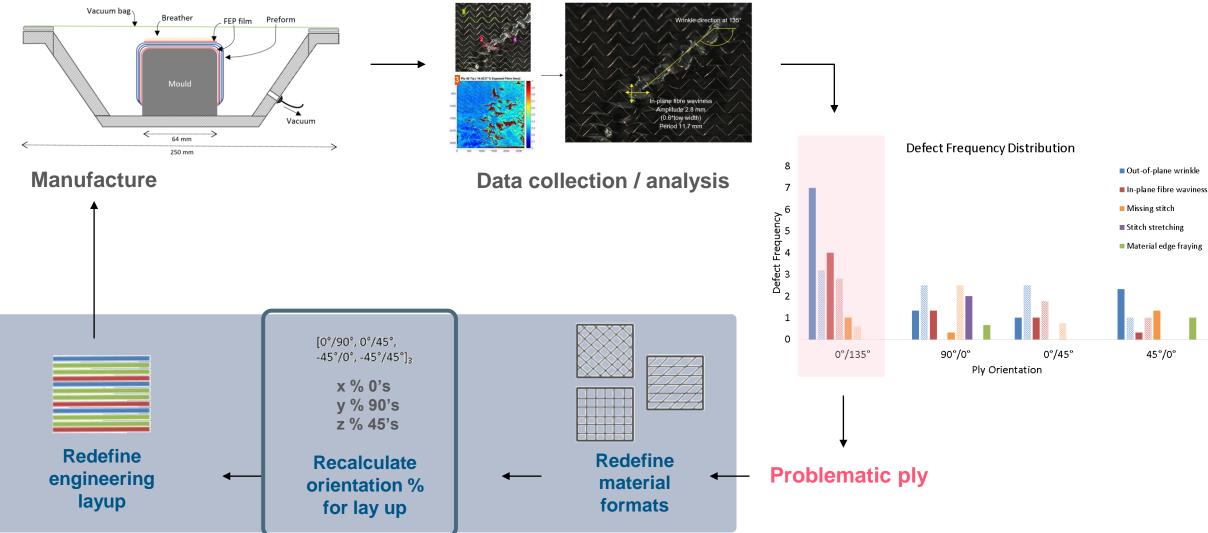


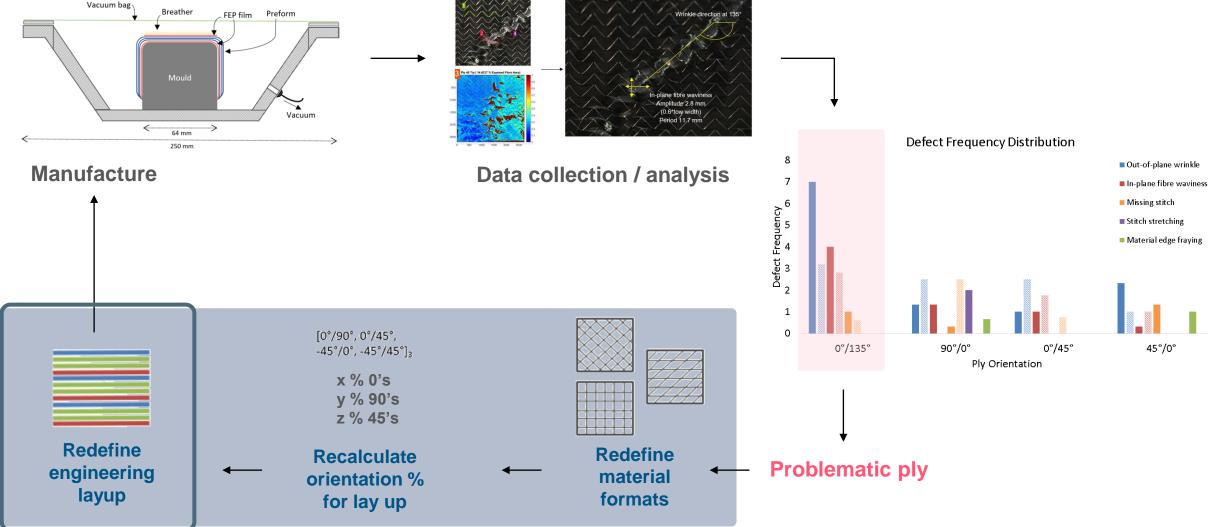




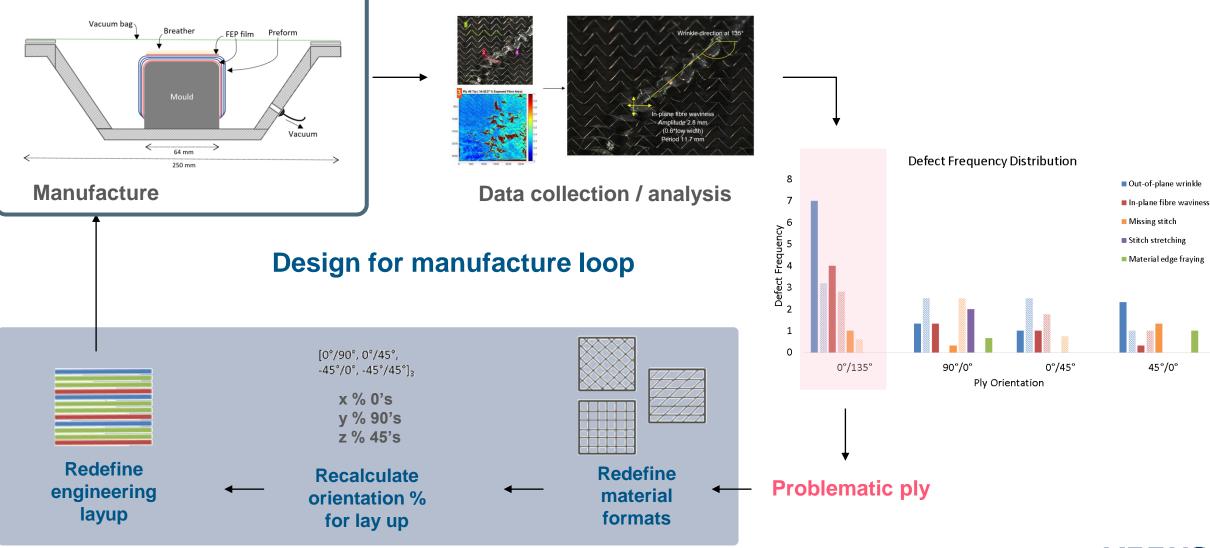




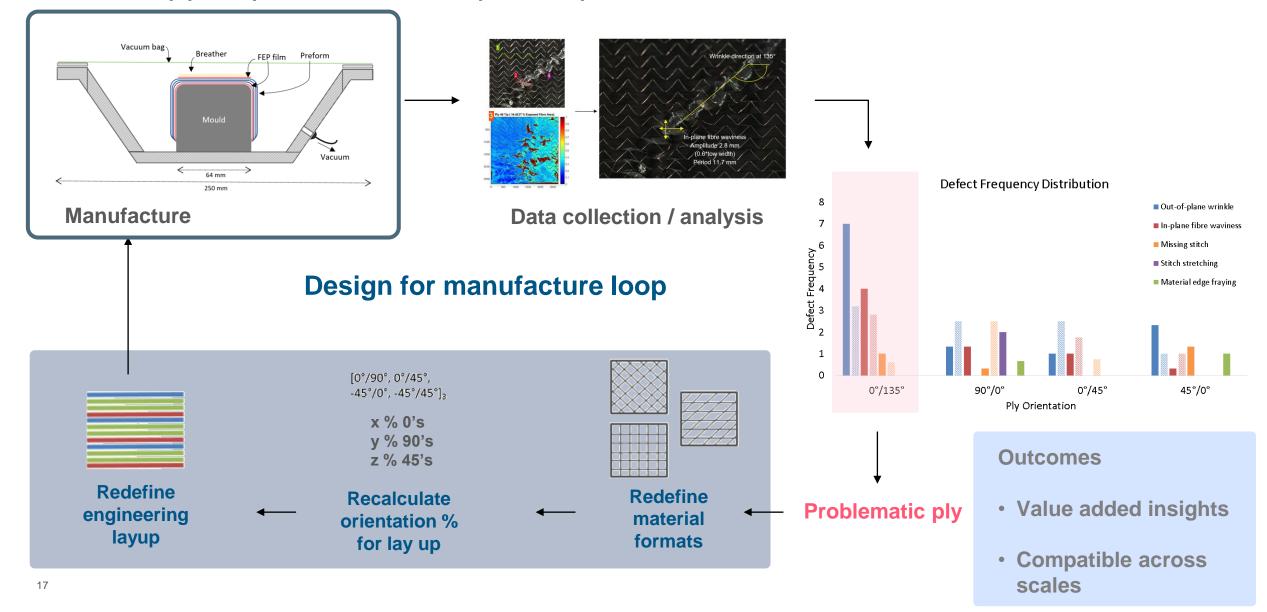












Thank you