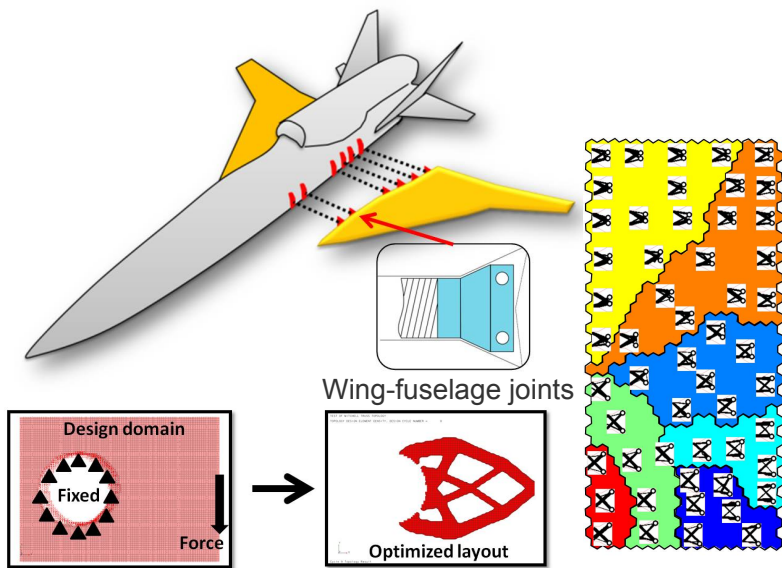


Development and experimental verification of a simulator for designing airframe structures by utilizing the characteristics of composites

An optimized composite structure is investigated using out-of-box fiber orientation based on tape layup and composite 3D printers.



- **Fiber orientation can vary with location.**
- **Out-of-box optimization of stiffened structures is performed.**
- **Experimental verification is required because of non-conventional structures.**