**OnLine-PROCESS MONITORING**

- Screening of different technologies to manufacture door-surround structures
- Implementing Coriolis Composites AFP machinery at Fraunhofer ICT-FIL, Augsburg
- First studies using prepreg and dry fiber placement
- Process parameter studies at 2D laminates
- Manufacturing of 2D laminates for characteristic coupon testing

**BASIC STUDIES**

- Development of specific AFP programming strategies
- Proof of concept at TRL3 demonstrator parts
- Deducing design-to-fiber-placement principles from programming – real layup comparison and layup quality
- Positive decision for AFP based door surround structures
- Defining first staggering proposals

**TRANSFER TO COMPLEX 3D SHAPES**

- Development of concepts for industrialization
- Increasing geometrical and composite plybook complexity as well as length to full size and final design equivalent doorframes
- Reproducibility analysis of different full scale configurations

**FROM LAB SCALE TO FULL SIZE**

- Transfer of work and optimization of the process chain with focus on series compatibility
- Reducing cycle times
- Increasing process stability and reliability
- Meeting the requirements and tolerances for flying parts
- Pushing the technology to other applications