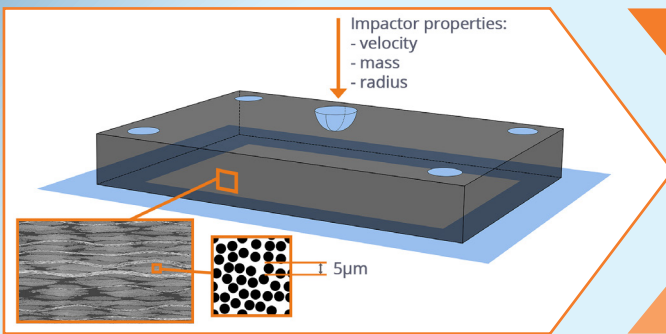


# Impact Damage Tolerance of Thick Composite Structures

- Fibre reinforced composite materials generally have a low damage tolerance
- Highly loaded aerospace components (e.g., landing gear parts) result in thick structures
- Impact events such as tool drops or runway debris are critical in a damage tolerant design

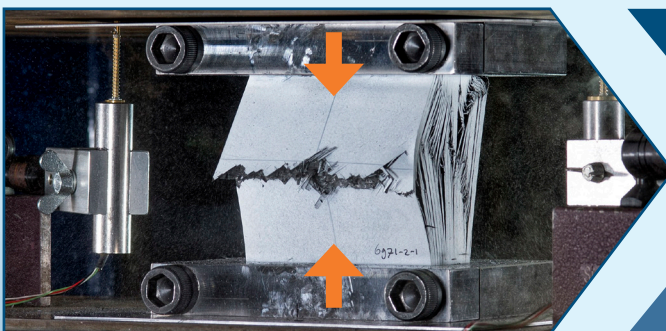
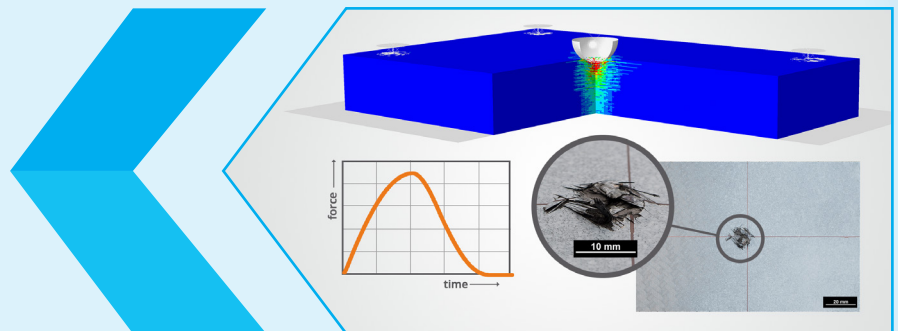


## Impact problem

Improve the understanding and prediction capabilities of damage due to impact events on thick composite structures

## Impact damage prediction

Advanced numerical simulations and analytical impact response predictions can aid the design and certification process



## Experimental testing

Validation using experimental impact tests, Compression-After-Impact (CAI) tests, and detailed damage inspection performed at Royal NLR

In cooperation with: