Service Data
- Environment
- Cycles
- Dwell
- Temperature
- Load

Test Data

Lifing Model
- Design optimisation
- Life predictions
- Service requirements and intervals
- Condition based lifing
- Consideration of operational factors

Mechanistic Understanding

Crack depth - Cycles
- Notched-2
- Notched-3
- Notched-1

Cycle number

Out of plane crack ahead of crack tip

{111} stacking faults