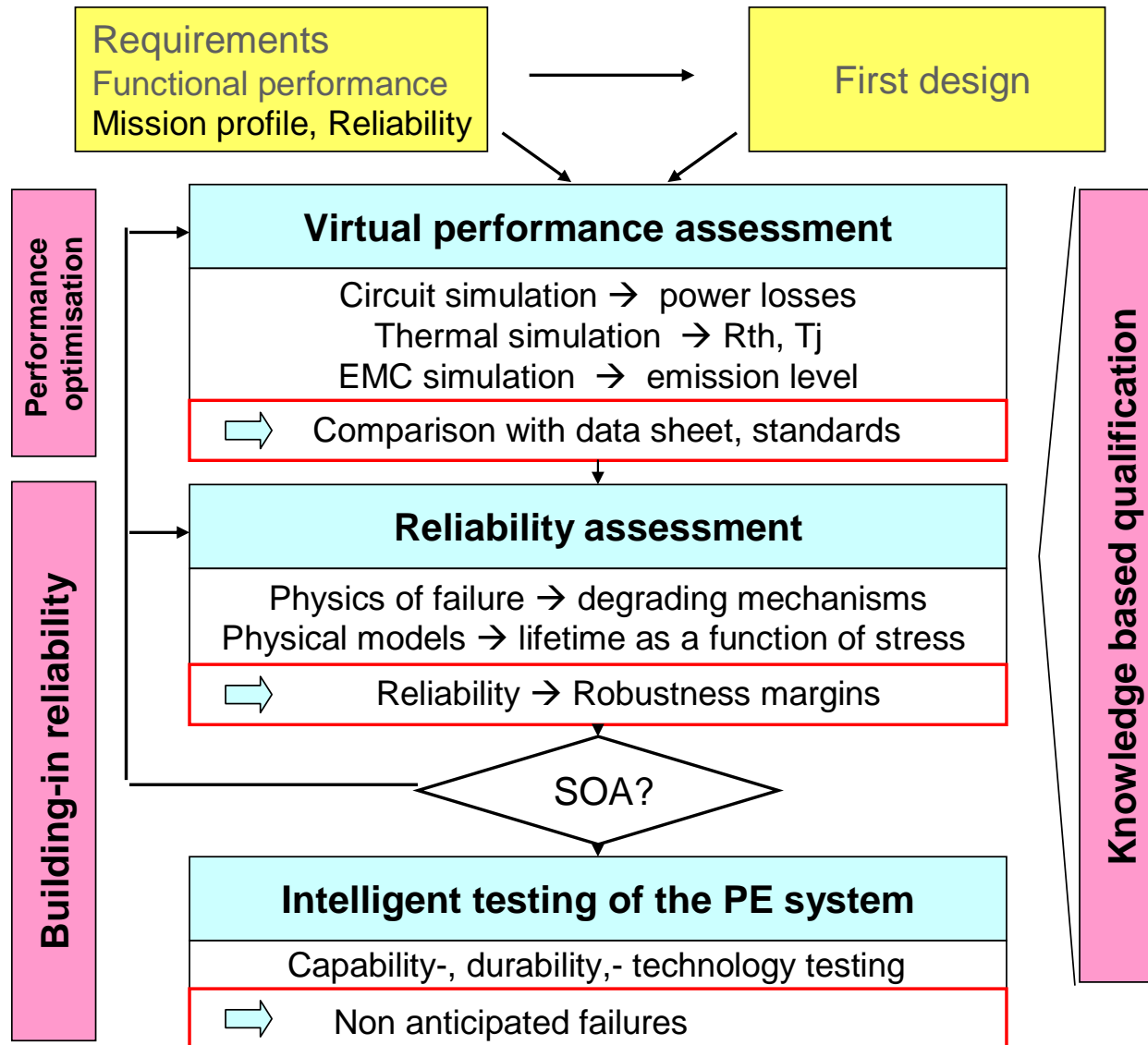
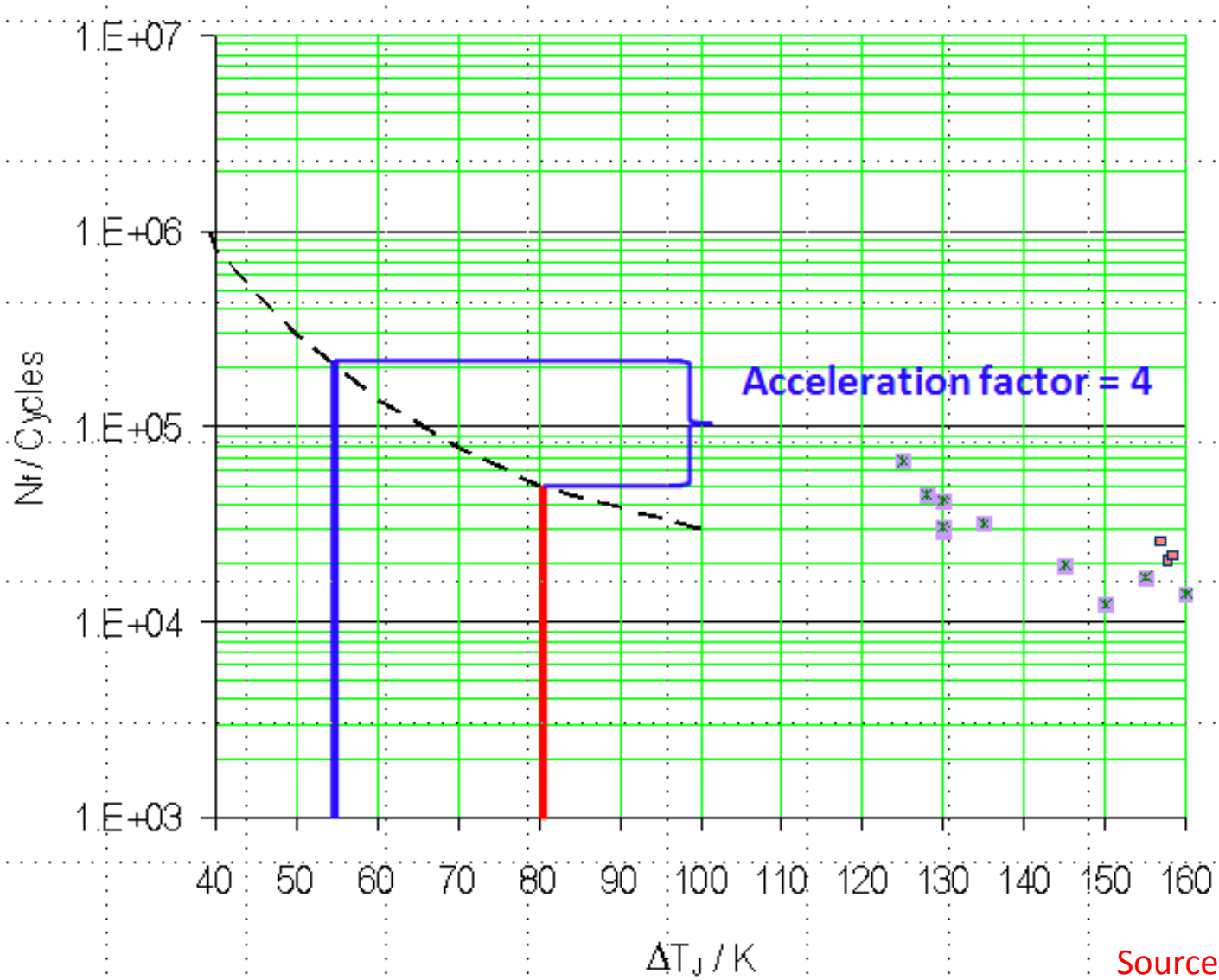


## Securing Reliability during the Design Phase



## Reliability Curve for Bond Wires by Power Cycling



Source Infineon

## Intelligent Testing: Accelerated Wire Bond Test

Assumption: Operation time = 10.000 h → 30.000 NEDC

Acceleration factors:

- Thermal → 4
- Time compression: There are 36 accelerations and decelerations within one NEDC;

Power cycle test which is 4s on and 4s off → 4

Test time with acceleration of 16: → **26 days**

# EXPERIMENTAL RESULTS

## Turn OFF waveforms

