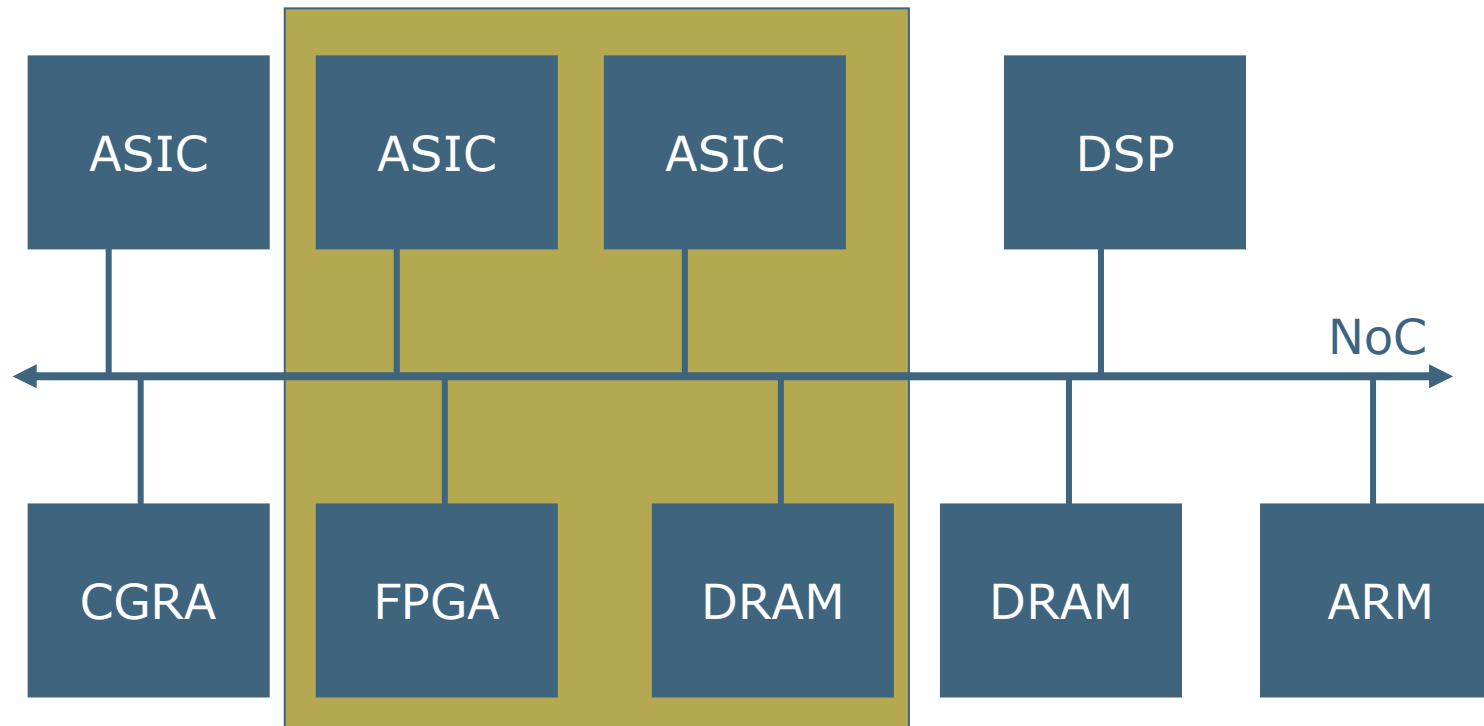


# Technology-aware Run-time management

Bjorn De Sutter



# MPSoC design & run-time adaptation

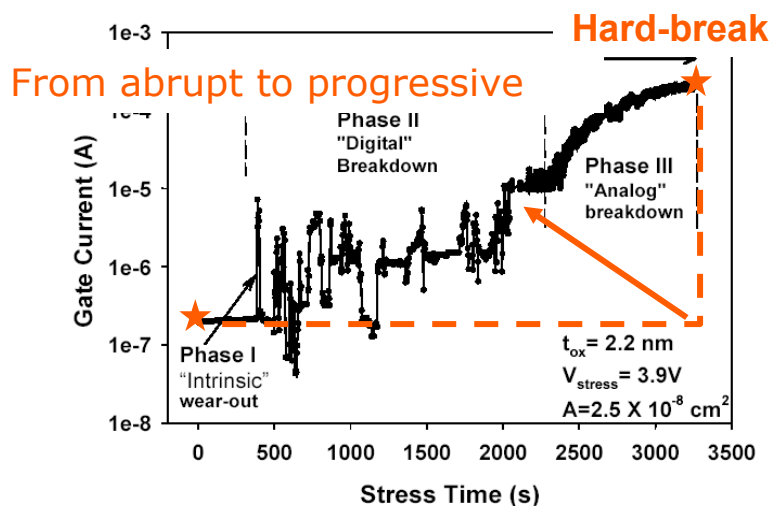
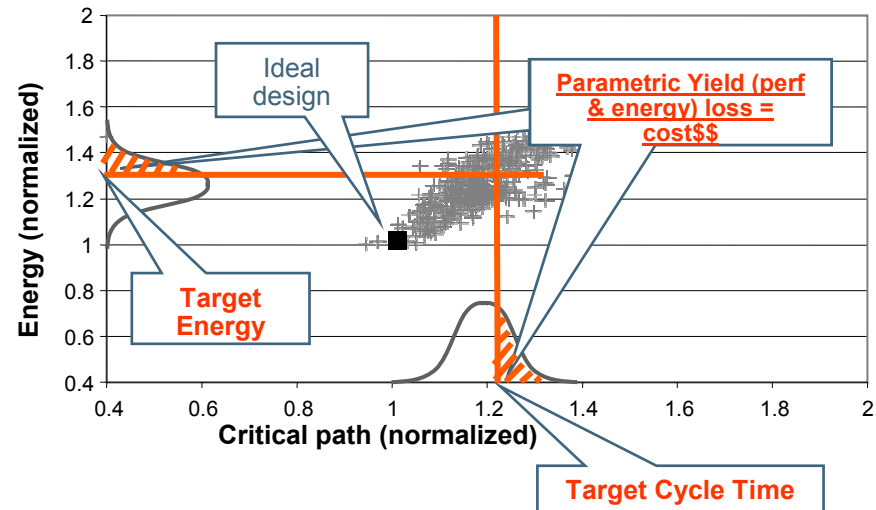


- **Composability**
  - at run-time decide which applications get which resources
  - virtualize application requirements and resources available
  - using meta-data

# Variability/Reliability brick wall: process uncertainty affects system yield and reliability guarantees

- run-time adaptation

- need to pass run-time information to run-time manager
  - on variability between MPSoC chips
  - on variability over time because of wear-out and degradation



Wear-out and breakdown model for dielectric breaks

