Maximization of the actual Reliability
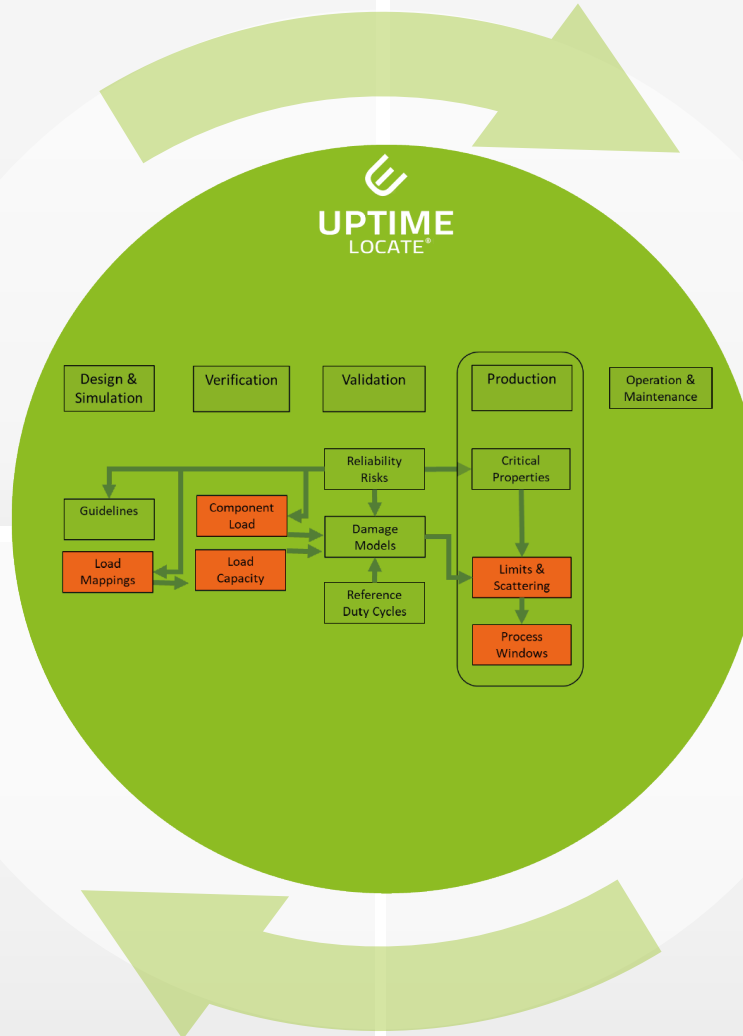
UPTIME ENGINEERING®

Background

- Validation programs eliminate design related reliability risks

- Field failures often persist due to
  - Unforeseen load conditions
  - Component quality issues
  - Assembly effects

- Elimination of these risks requires contributions from quality and production

Requirement

- Improve validation by complementary activities for risk mitigation

- Identify synergies between testing and simulation

- Distribute tasks among OEM and suppliers

UPTIME LOCATE®

Design & Simulation — Verification — Validation — Production — Operation & Maintenance — Reliability Risks — Critical Properties — Guidelines — Component Load — Damage Models — Limits & Scattering — Load Mappings — Load Capacity — Reference Duty Cycles — Process Windows

Customer benefit

- Usage of of simulation and quality for product reliability

- Efficient effort allocation via focus on actual risks and cost/benefit for mitigation activities

- Maximum achievable product reliability within time and budget

Solution with Uptime LOCATE

- Comprehensive initial risk assessment

- Reliability risk reduction via
  - synergies from simulation & testing
  - Q-properties, which are critical to reliability
  - required activities from all specialist teams

- The expected reliability as target for the optimization of the validation program