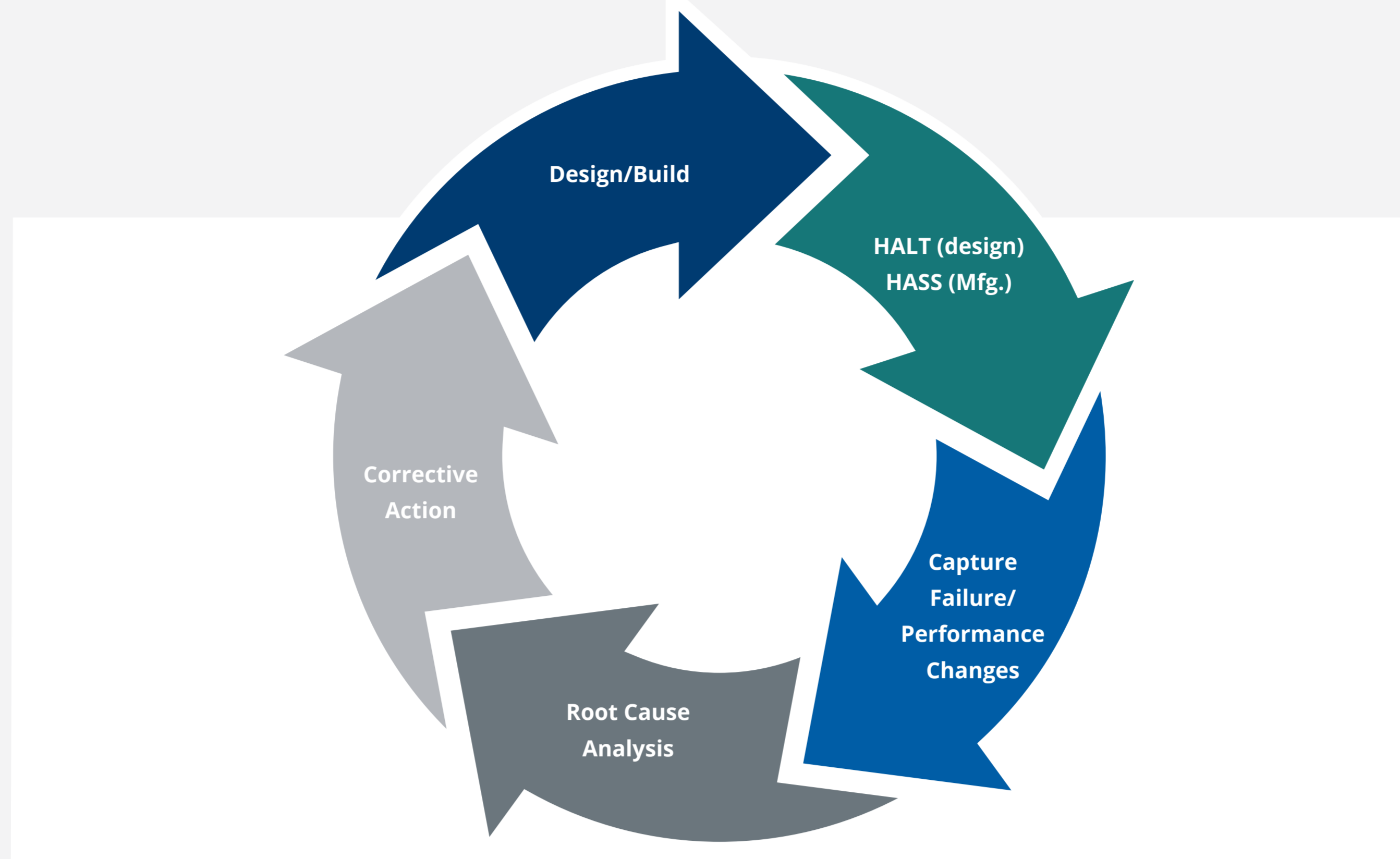


THE INDUSTRIAL REVOLUTION IN ULTRAFAST SCIENCE

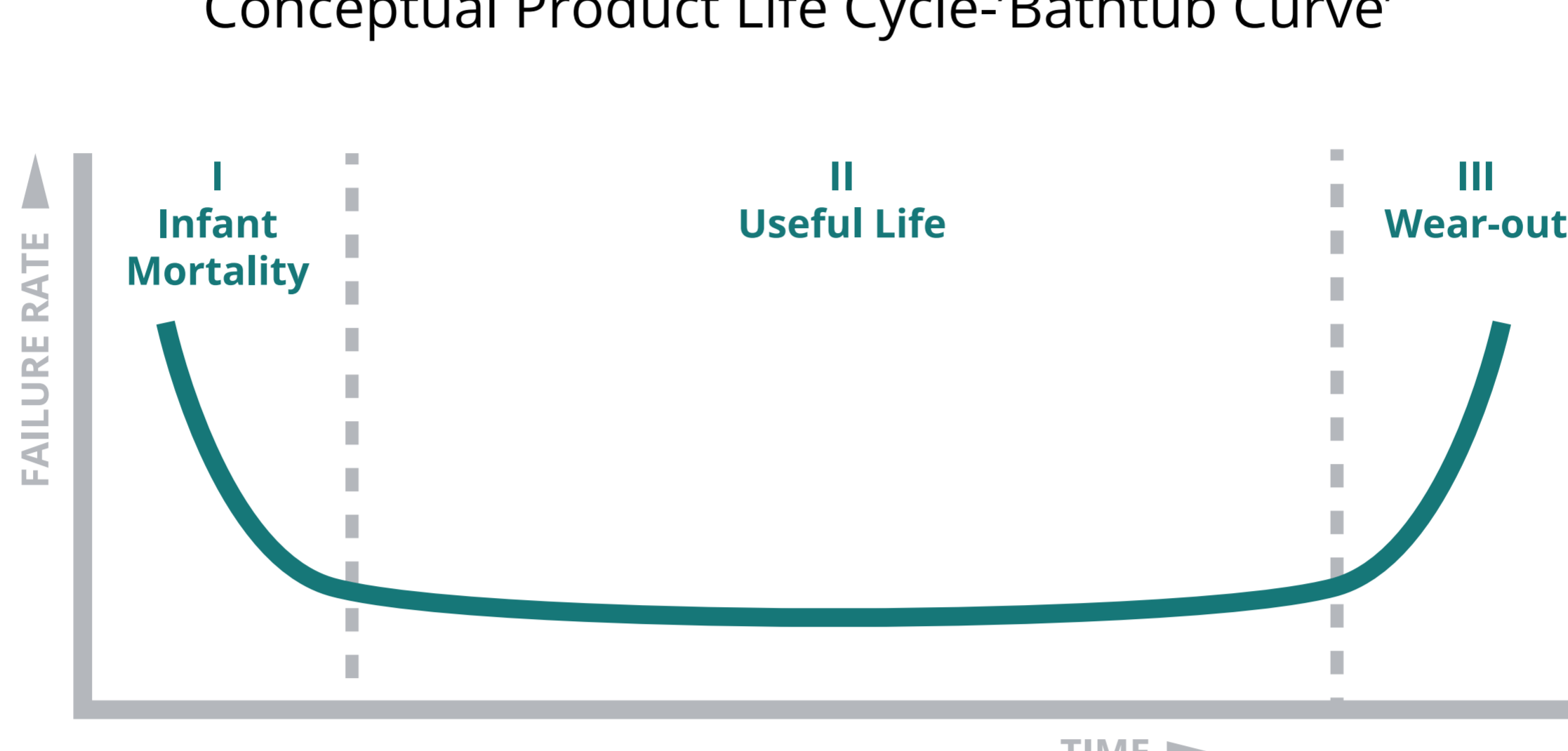
A Better Way to Design and Build Ultrafast Lasers

HALT/HASS

HALT- Highly Accelerated Life Testing
HASS- Highly Accelerated Stress Screening



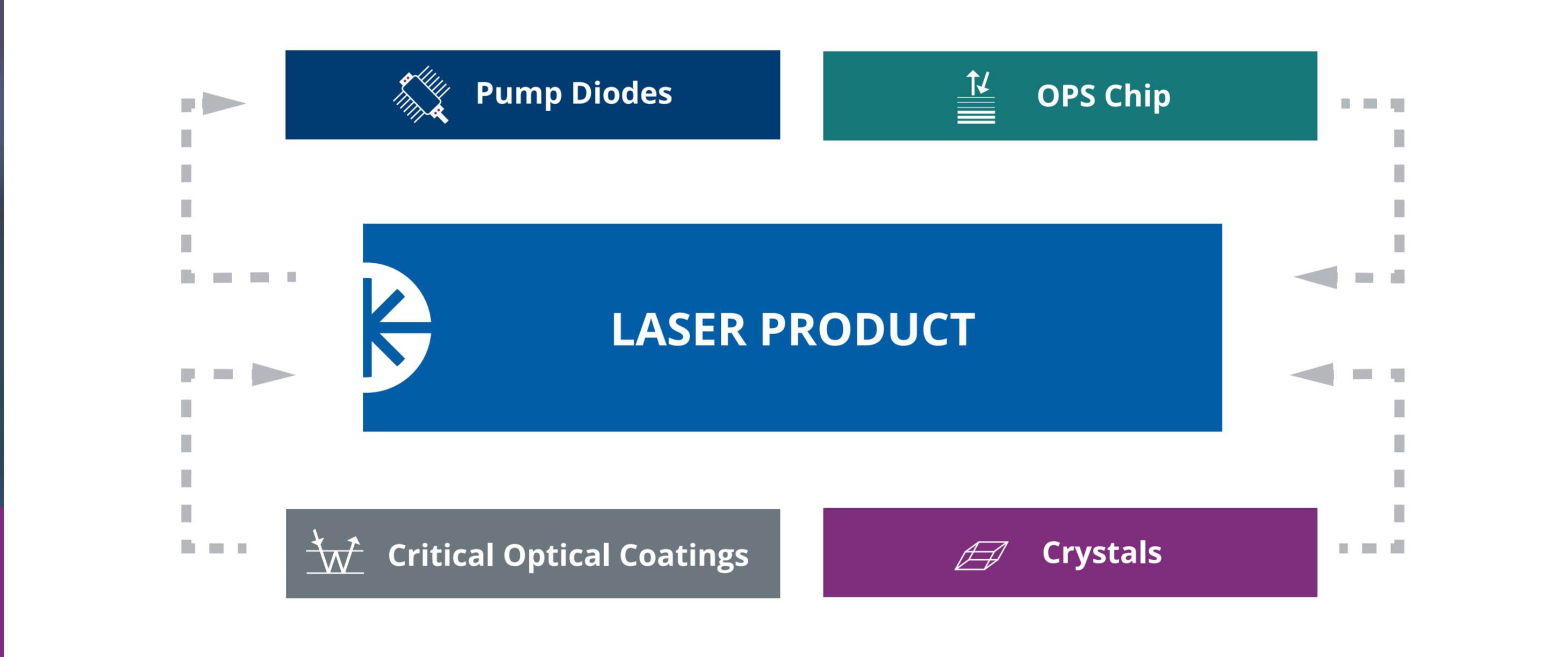
Positive Impact of HALT and HASS on Failure Rate
Conceptual Product Life Cycle-‘Bathtub Curve’



- HASS screened products reduce early failure modes to minimum. Aided by HALT.
- HALT minimizes ongoing failure rates
- HALT designs maximize system lifetime

- Advanced stress testing – beyond usual shake and bake
- Improved engineering margins → increased lifetime and reliability
- Environmental test chamber accommodates full amplifier system
- Every unit tested before shipment

VERTICAL INTEGRATION



- Pump diodes manufactured by Coherent
- OPS chip manufactured by Coherent
- Critical optical coatings manufactured by Coherent
- Crystals manufactured by Coherent

INDUSTRIAL LASER EXPERIENCE

- Advanced Industrial laser production expertise
- Deep-UV expertise relevant for Ultrafast IR
- Material selection, contamination control

Coherent’s New Generation of Ultrafast Lasers Are Designed and Built For:

- Higher reliability
- Longer lifetime



Superior Reliability & Performance

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