

FATIGUE & DURABILITY FOR RUBBER CAE SERVICES

WORLD LEADING EXPERTISE

Endurica's fatigue specialists are rubber industry experts who engage our technology portfolio to quickly and confidently solve your issues.

A few examples:

For a **MARINE** customer with wave-induced loads and a tight design deadline, Endurica:

- characterized the client's material.
- completed FEA.
- performed fatigue analysis of design options.

OUTCOME: Demonstrated capability to operate safely for target life.



An **AUTOMOTIVE PARTS SUPPLIER** bidding on OEM business was looking for an extra edge.

Endurica completed analysis of the proposed design under OEM-specified load cases.

OUTCOME: Enabled supplier to demonstrate the durability of their design to the OEM and captured the contract.



Company making **ELECTRIC CARS** needed bushing redesigned to support battery weight. Engaged Endurica for study of three proposed designs. Endurica:

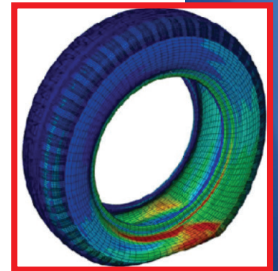
- simulated bushing under road loads.
- identified most durable option.

OUTCOME: Successful product launch on a tight timeline.

AGRICULTURAL SYSTEMS DEVELOPER

Endurica investigated a case of cracks developing in early product returns from the field.

OUTCOME: Endurica's analysis diagnosed the cause of the cracking and provided insights the developer used to correct the issue.



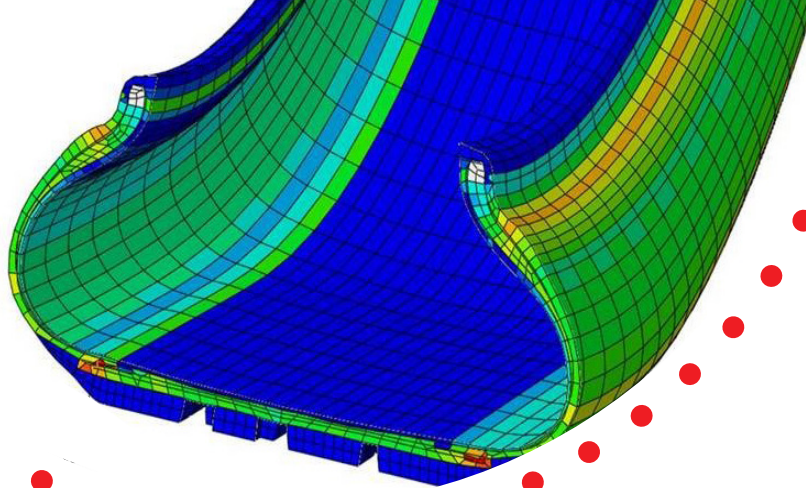
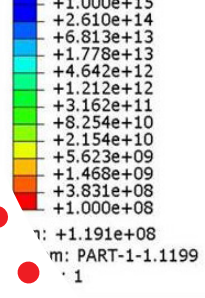
RAW MATERIALS SUPPLIER with a new material needed to show benefit to clients. Endurica:

- characterized new material and several current alternatives.
- compared simulated performance in a range of products: tires, transmission mount, bushing, flex joint.

OUTCOME: Enabled raw materials supplier to build prospect confidence in the new material leading to increased sales.

Endurica

Get Durability Right®



C-SUITE INSIGHTS

TOP EXPERTISE

We'll take you straight to the answers you need. We wrote the Endurica and fe-safe/Rubber™ fatigue solvers, and the testing specs for the Fatigue Property Mapping™ testing service. We have partner relationships with top labs and simulation companies globally.

ON DEMAND

Get simulation capacity for your organization right when you need it and avoid the costs of maintaining permanent capacity.

FLEXIBLE SCOPE

Endurica has experience with project scopes ranging from 1 day to several years and multiple partners. We have worked with leading companies in many sectors: aero, auto, civil, offshore, consumer, medical devices, electronics, and raw materials.

TECHNOLOGY TRANSFER

Looking for a fast way to implement Endurica methods in your organization? Engage us on a startup project to build momentum and maximize technology transfer.

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LIFELEFT™ DURABILITY SIMULATION SERVICE

Send us your specifications:

- part geometry
- load cases
- material properties (or let us test them)

Our report contains:

- expected life and failure mode
- life contours plotted on finite element model
- failure location
- identification of most damaging load case(s)
- design diagnostics to optimize durability

LEGAL SENSITIVITY

Durability studies frequently center on sensitive intellectual property and liability concerns. Endurica routinely works under customer non-disclosure agreements. Get Durability Right® with confidence that you've engaged professionals who keep your interests up front and deliver the highest quality results with complete confidentiality.

THE ENDURICA DIFFERENCE

Scan to learn more



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