Product Lifecycle & Obsolescence Management Service

In today's fast-evolving industrial landscape, component obsolescence poses a critical risk to production continuity, system reliability, and compliance. We deliver structured, proactive, and reactive obsolescence management services to help organizations minimize disruption and maximize asset lifecycle.

Leveraging advanced AI and real-time intelligence, Utthunga enables organizations to proactively manage component lifecycle risks across their Bill of Materials (BOM). The platform provides end-to-end visibility into part availability, lifecycle status, and supply chain risks, empowering engineering, procurement, and product teams to make informed decisions.

PROVEN IMPACT

15–30%
Cost Reduction

25%+
Operational Efficiency Gains

Significant Extension Of Product Lifecycle

Our Product Lifecycle Management Capabilities

- Technology Consulting & Selection
- Product Design
- Development Engineering
- Manufacturing Support
- Project Engineering Tool Support
- Migration Tool Support
- Obsolescence Management
- Value Engineering (VAVE)
- L2 Customer Support

Our Integrated Solution Approach

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01 Proactive Obsolescence Management (POM)

- Continuous monitoring of components, suppliers, and lifecycle status.
- Tracking EOL/PCN notifications and vendor roadmaps.
- Regulatory monitoring (RoHS, REACH, safety, cybersecurity).
- Standardized design using long-lifecycle components.
- Modular architecture for easy upgrades.

Business Outcome:

- Predictable upgrades
- Reduced redesign costs
- Zero surprise production stoppages

02 Reactive Obsolescence Management (ROM)

- Rapid redesign and modernization.
- Hardware refresh and software migration.
- Reverse engineering for legacy systems.
- Compliance revalidation and documentation.

Business Outcome:

- Extended asset life
- Restored maintainability
- Avoidance of full system replacement

03 Engineering & Value Optimization (VAVE)

- Alternate component qualification.
- Cost optimization without functional compromise.
- Hardware redesign using long-life components.
- Firmware decoupling for flexibility.

Business Outcome:

- Reduced BoM cost
- Improved system efficiency
- Future-ready architecture

04 End-to-End Lifecycle Execution

- BOM analysis and lifecycle tracking.
- Alternate sourcing and vendor qualification (AVL/AML).
- PCB redesign and system modernization.
- Compliance & certification readiness.
- Supply chain risk mitigation.

Business Outcome:

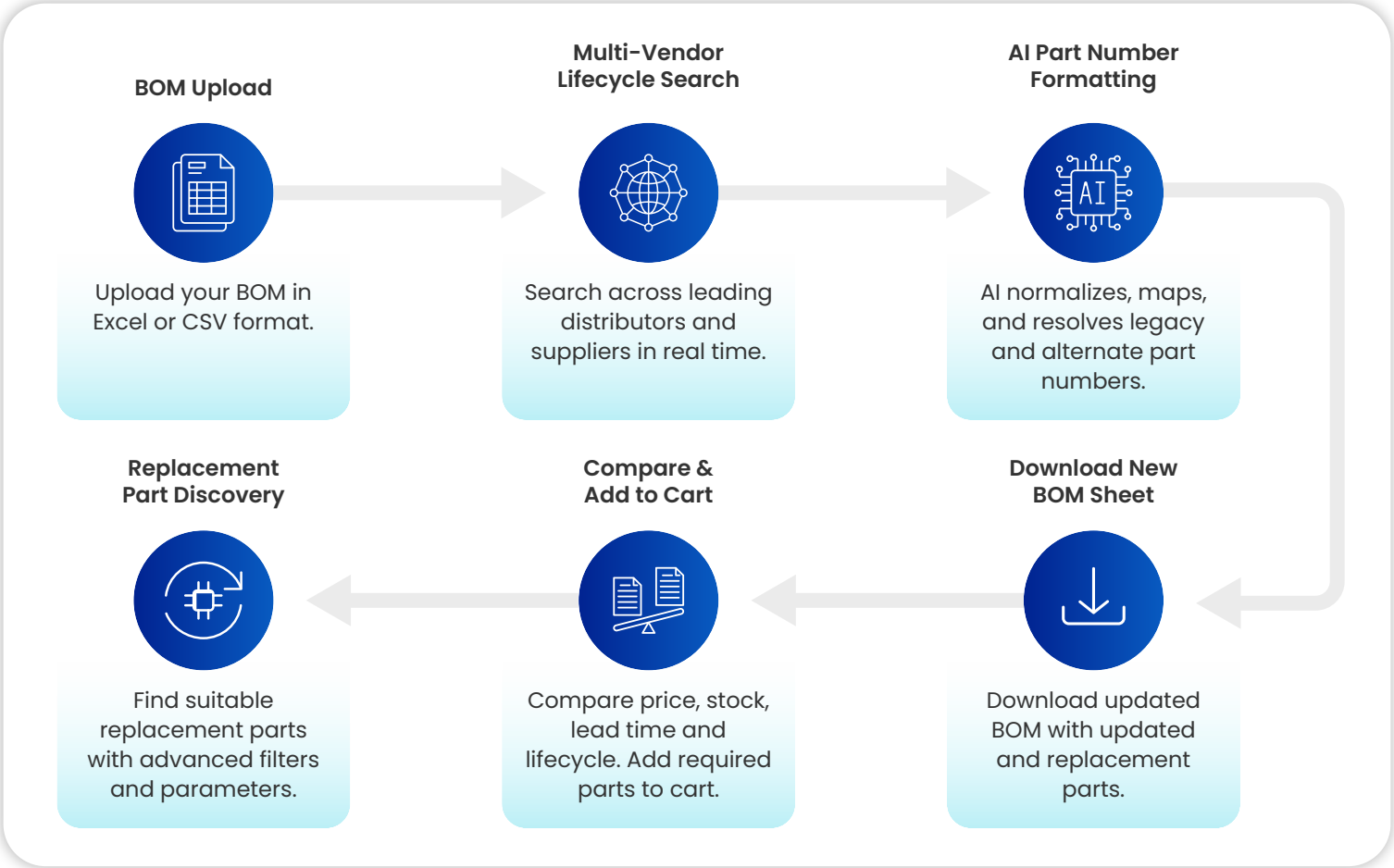
- Faster sourcing
- Reduced production delays
- Improved compliance and reliability

Obsolescence Management Framework

STAGES	KEY ELEMENTS	DETAILS
Obsolete 	Inputs	• BOM EOL notifications • Affected component list • Certification/qualification data • Product & variant mapping • Approved vendor list (AVL) • Schematics & design documents

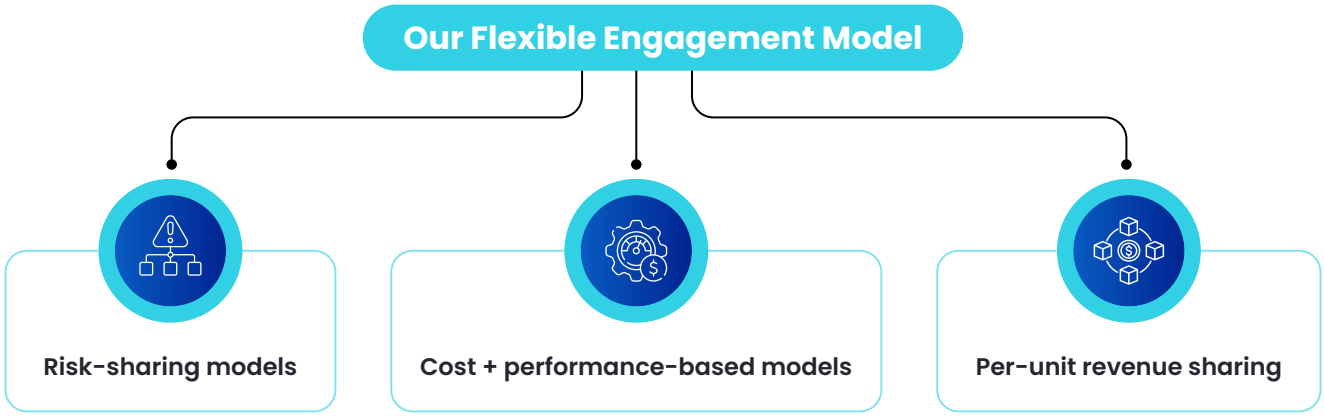
Analysis 	BOM Scrub	• Baseline BOM validation • Single-source & long lead-time analysis • Custom/high-cost component review • RoHS & REACH compliance check • LTB (Lifetime Buy) impact analysis • Lifecycle status (Active/Mature/NRND/EOL/Obsolete)
Mitigation 	Alternate Parts Strategy	• Form-Fit-Function replacement • Second-source qualification • Functional equivalents • Specification comparison
Results 	Impact Analysis	• No change: BOM/process updates with test cases • Minimal change: Minor BOM & qualification updates • Moderate change: PCB updates (no firmware change) • Full redesign: Hardware & firmware

Proactively Shield Your BOM from Component Risk



Value-Based Engagement Models

Utthunga offers value-based engagement models that align commercial outcomes with business results providing leadership teams with cost predictability, accountability, and shared ownership of obsolescence risk.



Success Stories

CASE STUDY	SOLUTION HIGHLIGHTS	BUSINESS OUTCOMES
Digital Resistivity MegOhm Meter	ESP32-based architecture, SPI LCD, Wi-Fi/Bluetooth, robust power system.	20% accuracy ↑ 25% efficiency ↑ 30% connectivity ↑
Gas Alarms & Safety Devices	AVL/AML, centralized BOM, alternate component framework	30% faster sourcing 25% delay reduction 15% cost savings
Automation Equipment Re-engineering	Component alternates, PCB modification, EMA/vendor coordination	Production continuity restored, reduced supply risk
Electric Actuator VAVE	SoC upgrade, PCB redesign, EtherCAT/EtherNet-IP, encoder improvement	6% BoM reduction, IIoT-ready, extended lifecycle

Let's Future-Proof Your Systems

Partner with Utthunga to proactively manage obsolescence, ensure business continuity, and drive long-term engineering value.

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