Texas Instruments

Empowering Customers with Enhanced Cross-Referencing & Obsolescence Planning

ACCURIS

Enhancing Customer Confidence with Proactive Obsolescence Management

Texas Instruments, a global leader in semiconductor design and manufacturing, understands the critical role of product longevity in ensuring business continuity for its customers. To prevent supply chain disruptions caused by component obsolescence, the company partnered with Accuris.

BOM Intelligence to enhance its cross-referencing capabilities and provide customers with reliable alternatives for discontinued parts.

Pain Points

Manual searches for replacement parts

Limited visibility into EOL risks

Frequent production delays due to unexpected part discontinuations

High reengineering costs when components became obsolete

Difficulty maintaining customer trust amid supply chain uncertainty

Strategic Gains

Automated cross-referencing with nearly 2 million component alternatives

Real-time obsolescence alerts and lifecycle intelligence

52% increase in cross-referencing efficiency, reducing sourcing and production delays data into PLM system

Seamless identification of FFF-equivalent parts to extend product lifecycles

Strengthened reputation as a proactive, data driven technology partner

> *Accuris has enabled us to take a proactive stance on obsolescence. Rather than waiting for customers to experience part shortages, we now equip them with the data and insights needed to make informed decisions well in advance.*
>
> – Mike Hastings, Director, Content Syndication, Texas Instruments

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The Challenge: Tackling the Semiconductor Lifecycle Dilemma

Texas Instruments operates in a highly competitive industry where product availability and lifecycle longevity are crucial to maintaining customer trust. With thousands of components in its portfolio, the company faces the constant challenge of ensuring that its customers can seamlessly transition away from obsolete parts without facing costly redesigns or supply chain interruptions.

The rapid technological advancement, shifting industry standards, and vendor-driven discontinuations mean customers often struggle with unexpected end-of-life (EOL) notifications. In the past, identifying alternative components required manual searches and multiple touchpoints with suppliers, leading to inefficiencies, long procurement cycles, and potential product development delays.

To address these challenges, Texas Instruments sought to establish a more proactive approach to obsolescence management, ensuring that customers could quickly and easily find replacement parts without sacrificing performance, compliance, or production timelines.

They partnered with Accuris to transform its obsolescence management strategy and provide customers a seamless experience navigating the complex semiconductor lifecycle transitions landscape.

The Goals

1 **Minimize the impact of component end-of-life (EOL) events** by providing seamless alternatives and reducing costly reengineering efforts.

2 **Ensure customers can efficiently locate replacements** for obsolete ICs while maintaining design integrity and functionality.

3 **Reduce the risk of inventory shortages** by leveraging accurate, real-time data to recommend available, form-fit-function compatible alternatives.

4 **Improve cross-referencing speed and efficiency** by automating and streamlining the identification of viable replacement components.

The Solution:
Accuris BOM Intelligence

Texas Instruments utilized Accuris BOM Intelligence, incorporating advanced analytics and predictive modeling into its lifecycle management strategy. This partnership has enhanced TI's cross-referencing capabilities and risk mitigation, providing a more reliable component lifecycle management experience for customers while strengthening TI's market position.

Expanded Cross-Reference Database

TI's database grew from 100K to nearly 2 million components, allowing customers to easily find equivalent replacements for obsolete parts from more manufacturers.

Data-Driven Predictive Insights

Accuris analyzes historical component data, market trends, and patterns to anticipate potential obsolescence. This enables proactive strategies for ensuring long-term component availability and stability in production lines.

Automated Lifecycle Intelligence

Accuris BOM Intelligence provides real-time obsolescence alerts and instant access to updated component statuses, enabling TI and its customers to proactively manage EOL notifications and minimize the need for extensive manual research.

Seamless Integration with Enterprise Systems

The platform integrates with procurement and engineering workflows, streamlining the identification and sourcing of alternative components, reducing bottlenecks, and enhancing agility.
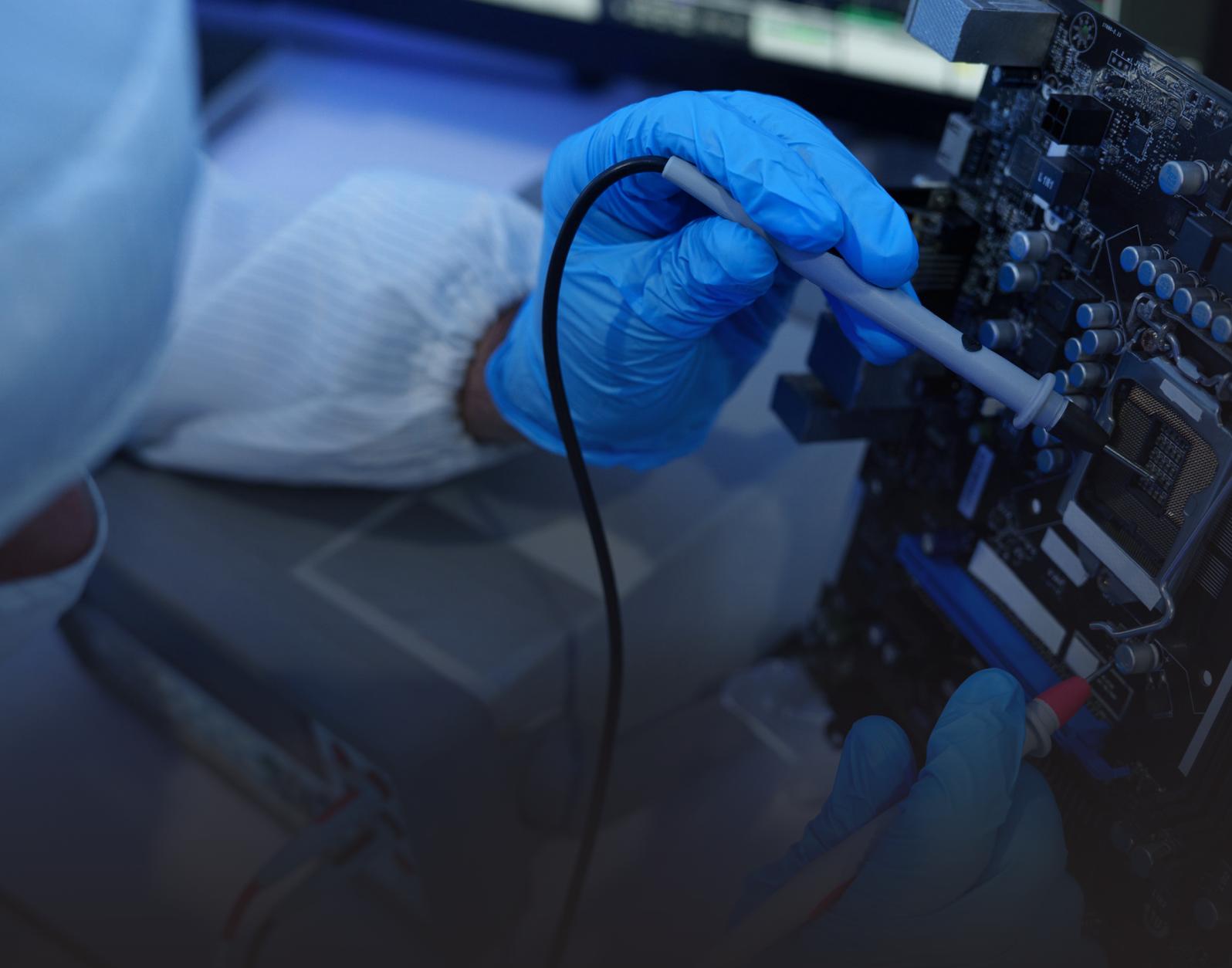
Self-Service BOM Analysis

TI customers and sales teams can now use an intuitive, self-service platform to identify at-risk components in their Bill of Materials (BOM) and easily find FFF-compatible alternatives, helping to prevent last-minute supply chain disruptions.

The Results: Future-Proofing Supply Chains

The integration of Accuris BOM Intelligence has provided significant benefits to Texas Instruments and its customers by ensuring continuity, efficiency, and strategic resilience in semiconductor sourcing and lifecycle management.

By incorporating real-time obsolescence alerts, a comprehensive cross-reference database, and predictive analytics into its operations, the company has effectively reduced supply chain risks while enhancing its reputation as a reliable partner in proactive obsolescence management.

This strategic approach has not only boosted customer confidence but has also strengthened the company's position as a leader in lifecycle intelligence and long-term supply chain stability.

From Risk to Resilience:
The Key Outcomes

From improved efficiency to reduced sourcing roadblocks, Texas Instruments is better equipped to support customer success at every product lifecycle stage.

52% increase in cross-referencing efficiency:
Faster identification of replacement parts and reduced risk of production delays caused by component shortages.
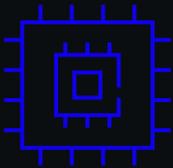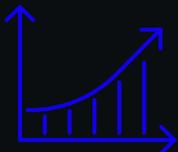
Enhanced product longevity:
Extended lifecycle of existing designs by seamlessly transitioning to FFF-equivalent components, reducing costly reengineering efforts.

Reduction in "no results" searches from 94% to 9%:
Customers can consistently locate alternative electronic components instead of encountering sourcing roadblocks.

Higher ROI for customers:
Minimized procurement risks, fewer unplanned manufacturing interruptions, and optimized long-term component sourcing strategies.

Driving Innovation with
Proactive Obsolescence

Texas Instruments recognized that reactive approaches to obsolescence were no longer sustainable in an industry defined by constant change. By partnering with Accuris, it shifted to a forward-looking, data-driven strategy, using real-time insights and predictive analytics to anticipate component risks and secure long-term design integrity.

With Accuris BOM Intelligence, the company and its customers now proactively manage end-of-life (EOL) events, reduce downtime, and accelerate product development cycles. This strategic transformation safeguards the supply chain and reinforces the company's reputation as a trusted, future-ready technology partner.
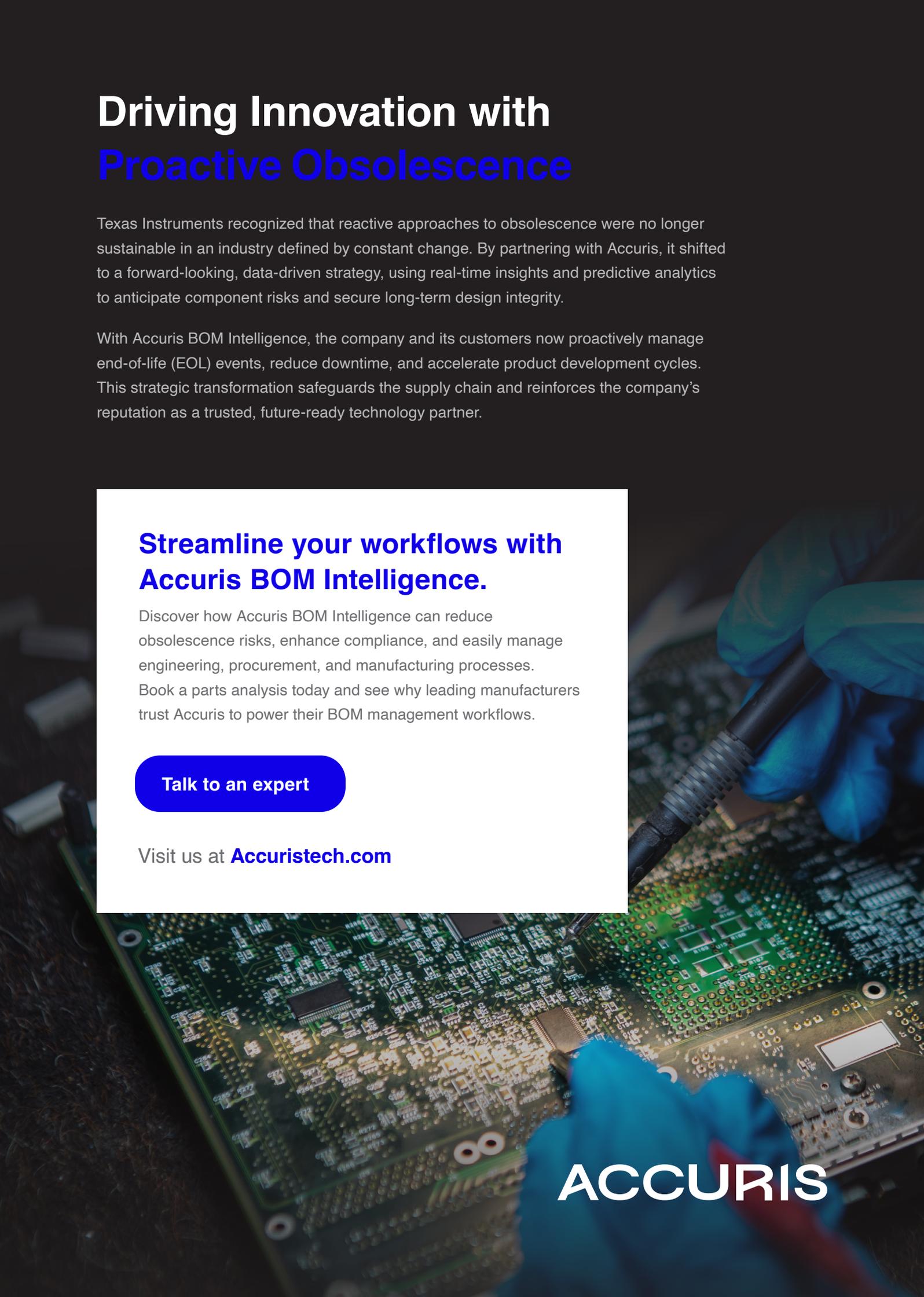
Streamline your workflows with Accuris BOM Intelligence.

Discover how Accuris BOM Intelligence can reduce obsolescence risks, enhance compliance, and easily manage engineering, procurement, and manufacturing processes. Book a parts analysis today and see why leading manufacturers trust Accuris to power their BOM management workflows.

Talk to an expert

Visit us at **Accuristech.com**

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