Obsolescence in the parts supply chain: are you ready?



The parts supply chain is a complex puzzle. New semiconductor designs, continued calls for low-power consumption and shorter life cycles are making supply chain management even more complicated.

"There is a sea change that continues to create significant challenges relating to obsolescence, a tide that could well affect even the most well-established components and their makers."

Greg Wood, Director, Technology, Media & Telecom, IHS Markit



End-of-life notices are increasing in frequency and consolidation of semiconductor developers contributes significantly to the parts obsolescence challenge.

IHS Markit issues status updates every day through the BOM Intelligence tool.

The average component life cycle is now only **10 years**.

With shrinking life cycles there is a growing sense of urgency for industry professionals. **94%** of engineers say they feel greater time pressure and stress to solve problems more efficiently and effectively than they did just three years ago.



Low-power consumption is accelerating obsolescence.



PLDs

For programmable-logic devices (PLDs), parts obsolescence is an increasing problem due to rapid innovation in lower-voltage components.



Microprocessors

Almost 2,500 new microprocessor part numbers introduced in 2014 had a nominal supply voltage of 1 volt or less.



FPGAs

Field-programmable gate arrays (FPGAs) are now typically below 2.6 volts, and fresh upstarts go as low as 0.85 volts.

The unfortunate result of the rising tide of obsolescence is a dramatic increase in **counterfeit parts**.

their product's life.

As obsolescence grows, so does parts counterfeiting. "End-of Life", "Not Recommended for New Design" and "Discontinued" parts make up **71%** of the counterfeit reports since 2013.



Obsolescence impacts everyone in the supply chain. Procurement Compliance Component Design Manager Engineer Manager Engineer Design engineers play a **Compliance managers Component engineers** Procurement has become critical role in minimizing more responsible over the must mitigate the require access to timely, years to ensure the overall the impact and costs of heightened risk of accurate and complete part data to respond to PCNs parts obsolescence during success of a company's counterfeits when parts

"Part selection for new designs will be critical all the way through the replacement of obsolescent parts to ensure that components remain available throughout product life cycles."

Greg Wood, Director, Technology, Media & Telecom, IHS Markit

succumb to obsolescence.

BOM Intelligence from IHS Markit: Putting all the puzzle pieces together to prepare the modern supply chain for the impending sea change.

BOM Intelligence from IHS Markit provides access to the IHS Markit Parts Database, the world's largest component database with attribute data and documentation for over **500 million** electronic, interconnect, electromechanical and fastener parts from more than **4,500 manufacturers**.



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supply chain.