



Design for Increased Yield for the Electronics Manufacturing Supply Chain (DIY)

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The aim of the DIY project is to provide an integrated software Design for X toolkit for aerospace electronics manufacturing products applicable throughout the:

Electronics manufacturing supply chain (i.e. bare board manufacture, assembly, end user applications)

Electronics product and process lifecycle (i.e. design, specification, analysis, manufacture, test, deploy, maintain, reuse)

The toolkit will be based upon a number of integrated sources of knowledge. Partner design, manufacturing and operational rules will be sourced along with the determination of a suite of reduced order “physics of failure” models of the key electronics manufacturing processes.

Data centric models will be derived from design and analysis of appropriate test vehicles and experiments encapsulating relevant design features, components, materials and processes as identified by the supply chain partners. Integration of these models will enhance the capability of the toolkit and support the not only the prediction of sources of quality and reliability issues but also a root cause analysis capability.