

Inspection Data Management

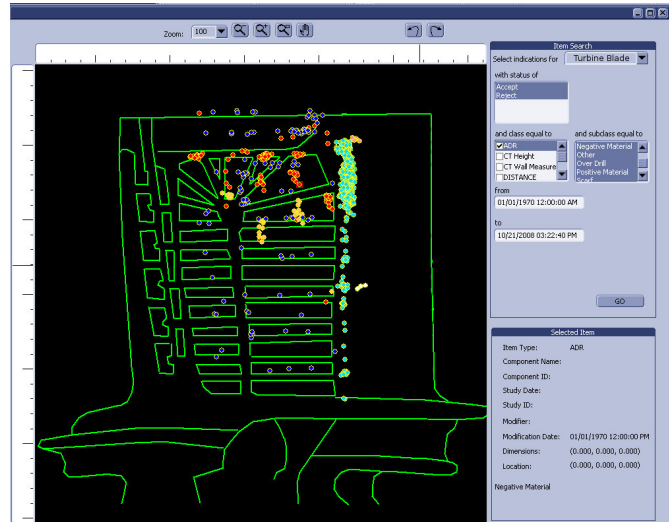
Problem: Modern inspection techniques generate ever increasing amounts of data; it seems to pile up with no apparent benefits. In most cases this data actually contains valuable information, but it's either too time consuming or costly to retrieve. There's an interesting story this data could tell - if only there was an efficient solution to unlock it.

What We Provide

Our software solves the "too much data" problem. It is able to mine through large quantities of inspection data and show the trends that are hidden within. Developed for the US Air Force and Navy, it is a robust solution that often requires little to no change to the existing inspection process. In general, it provides the following functionality:

- **Defect Indication Trending** - Discover trends in location and frequency of defects in the manufacturing process. The tool also allows the user to correlate a defect indication to the part serial number to determine time of creation, manufacturing line, operator, etc.
- **On-Demand Cluster Diagrams** – The benefits of defect cluster diagrams have been long understood. However, this process has historically taken so long that trends may have changed by the time the diagram is ready. Users often found themselves with a costly and out of date cluster diagram. Our software is capable of generating cluster diagrams on demand, allowing instant access to defect concentrations overlaid on a CAD model. It solves the problem of spatial variance between images by automatically aligning all of the inspection data to a single frame of reference.
- **Optimize Your Inspection Process** – It is often difficult to plan the frequency and scope of NDT inspections. Our software can indicate how often each inspection actually results in a detected problem, allowing the process manager to create more efficient and relevant inspections.

Solution: SDL's inspection solution optimizes any manufacturing process, providing access to defect trending, defect correlations, and on-demand access to cluster diagrams to make sure you get the most from your inspection data.



A cluster diagram showing concentration of defects.

How We Provide It

Our sales strategy begins with a data evaluation phase. Clients send us a sample of their inspection data to verify its compatibility with our technology. The next stage demonstrates the software capabilities on a small dataset. We provide a quote to the client for the cost of processing an initial set of data and generating a series of reports. From here, clients have the option of proceeding down one of two paths. The first path is *hosted data management*. We periodically collect, organize, and report on the inspection data. Payment comes in the form of a service fee. The second path is a delivered hardware/software system. An entire inspection management system is delivered to the client. This system is capable of organizing the information and generating customized reports.

SDL NDT Division

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