



## Overview

**Stage to Use** For those who have completed Step Two towards Industry 4.0 and already integrated their data with ThinkIQ VisualOps™ or Visualize™.

**Final Product** Arrival at Step Three on the path to Smart Manufacturing. Your organization has a material-centric view of operations, with insights unable to be seen earlier through interconnection of the activities on the shop floor that influence both overall performance and your ability to diagnose and prevent bigger operational issues.

**Benefits** Potentially transformative data, with some problems immediately visible, mitigating recall risks, and potential yield improvements. The ability to analyze time-series data helps identify correlations. And the ability to visualize the movement of materials through the plant and supply chain can change everything.

## Details

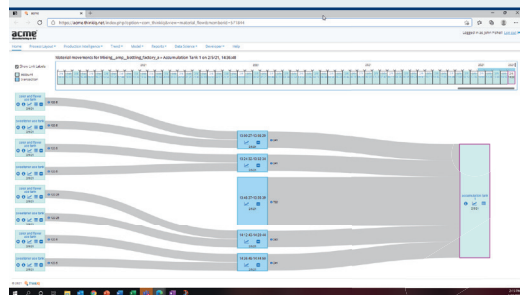
**ThinkIQ Insight™ progresses manufacturers towards the full benefits of Industry 4.0 Smart Manufacturing using advanced AI and ML to enable a material-centric view of operations.**

Deliverables of this phase include advanced visualizations, cause & effect identification, industry benchmark reporting, and cross-plant KPIs.

The ThinkIQ manufacturing platform can identify previously unseen correlations, and even root causes, from your supply chain through your internal manufacturing process.

This stage reveals material movements and the materials ledger to identify new insight and unlock improvement opportunities. Our proprietary software incorporates Artificial Intelligence / Machine Learning with 4 unique elements that make the analysis and presentation unique: ThinkIQ's Next Generation Historian (maintains supply chain and manufacturing data for traditional data analytics tools); ThinkIQ's Semantic Model (creates required context to relate sensor data to equipment, processes, materials, and goods); ThinkIQ's Query Language, TIQQL; and ThinkIQ's Material Ledger (a key innovation in supply chain data analytics).

The combination of these elements potentially leads to a revolutionary, transformative view of manufacturing data. [ThinkIQ.com](http://ThinkIQ.com)



## Features & Benefits

ThinkIQ Insight includes:

- A) Visualize material flow through your manufacturing process
- B) Cause and Effect analysis of upstream events
- C) Contextualize and rationalize plant data with business systems (ERP, MES, QMS)
- D) Real time alerting of upstream events to optimize downstream activities for better yield and quality
- E) Complete material trace and attribute tracking to minimize recall events
- F) Tightly contained recalls resulting in minimum impact to customers and bottom-line
- G) Gain clear insight to better understand how materials move through the manufacturing process
- H) Have clear visibility to the affects material attributes have on the complete manufacturing process

**Cost** Services setup fee with annual platform licensing.

**Duration** 3-5 months (dependent on number of lines, assets).

