Invistics Pull Design Workshop

Do you need to improve manufacturing performance by reducing inventory, improving flow, and reducing cycle times?

*<u>Do you want to learn how you can?</u>*

Pull Design Workshop Goals

1. **Building organizational consensus** on how lean best practices can be successfully implemented in your high-mix environments. This marries Invistics' experience in high-mix industries with the organization's need to understand how to make lean successful in their non-automotive environment. Three key factors are addressed:

   Execution: Which type(s) of pull is best for your company: Kanban, CONWIP, Drum-Buffer-Rope, etc.? Should postponement be utilized? Can simple physical cards be used to communicate replenishment signals, or is Lean Execution software required? If software is required, where will the data come from?

   Planning: What is the optimal inventory levels for each raw material, work in process, and finished goods part/item? What are the optimal lot sizes/batch sizes/campaign sizes/rhythm wheel frequencies, and how can these rhythm wheels be synchronized across the supply chain? Can simple rules-of-thumb be used to optimize these planning parameters, or is Lean Planning software required? If software is required, where will the data come from?

   Scalability & Sustainability: What processes will ensure the benefits scale across the company and are sustained for years to come? Can manual, home-grown tools like Excel, or existing software packages like Enterprise Resource Planning (ERP) meet this need?

2. **Constructing a compelling business case** showing the benefits and costs of implementing these best practices. This motivates the organization to begin the change process.

3. **Designing a pilot project** to implement the best practices and prove the business case in a rapid, 3-4 month pilot. This builds confidence in the scalable, sustainable business case prior to a full roll-out to the entire business.
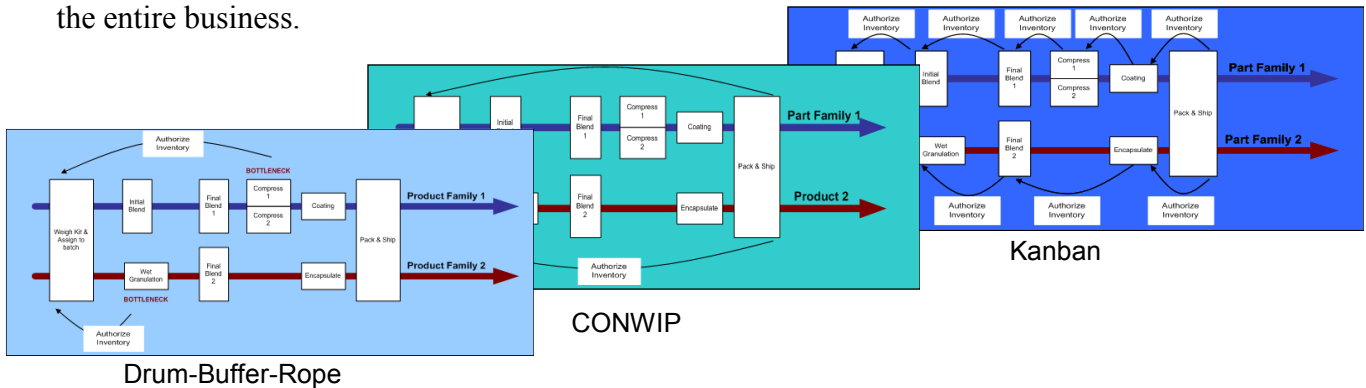
Drum-Buffer-Rope

CONWIP

Kanban

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Pull Design Workshop Value

CP Kelco (a specialty chemical and food additives manufacturer) has experienced the value that an assessment offers a high mix manufacturer. Internally the company had only understood the Toyota Production System (TPS) approach to lean and knew that it couldn't be adopted successfully with CP Kelco. During their Pull Design Workshop, Invistics and CP Kelco jointly designed a pull implementation using data from SAP, and then laid out a pilot project that later demonstrated millions of dollars in savings during a rapid pilot project in their Denmark manufacturing facility.

A major textile manufacturer, Caracol Knits, used Invistics to help them adapt lean principles to work in their two (2) high-mix textile plants. Other consultants that knew Toyota-style techniques like Kanban, but were unable to demonstrate their expertise in implementing more generic Kanban techniques like CONWIP, Drum Buffer Rope, and Polka. The Invistics Pull Design Workshop opened their eyes to the value of CONWIP and other methods better suited to high-mix manufacturing environments.

Coca-Cola, has recently embraced demand-driven pull replenishment. During their Pull Design Workshop in Waco, Texas, Invistics was able to help Coke design pull processes that will work in the face of high demand variability and rapid new product introductions.

Drum-Buffer-Rope

CONWIP

Kanban
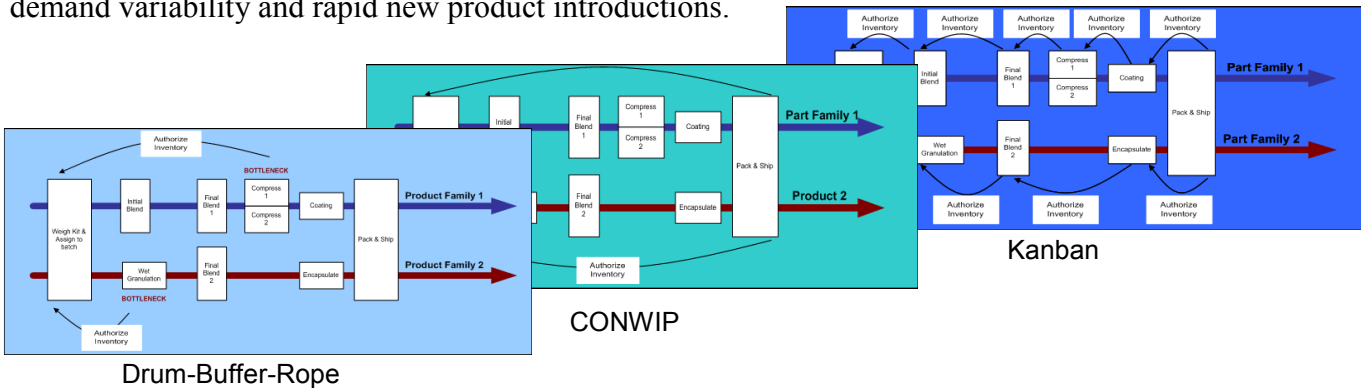
About Invistics:

Invistics is Sylution Incorporated partner that provides manufacturing solutions for complex, asset-intensive industries such as consumer packaged goods and pharmaceuticals. Invistics product, Pull Management Platform, is an economical software platform to deploy and sustain demand driven pull manufacturing applications on the factory floor.

- Supports classic kanban as well as a host of other flavors of pull
- Automates data collection, system state update, tracking of system performance, and distribution of pull decisions to team members.
- Provides easy to use interfaces available via a simple web browser
- Hosted or client owned solution

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