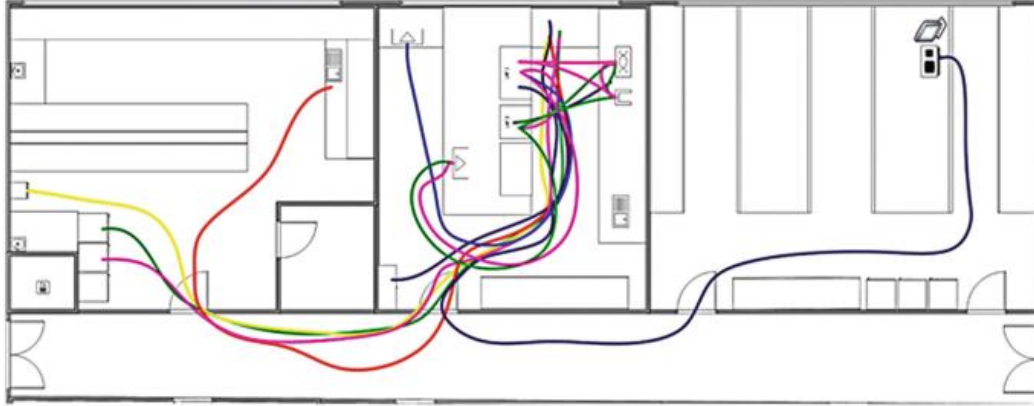


Lean: Spaghetti Diagram- Visualize Waste in Motion

Imagine you're trying to find a specific spice in your kitchen. You open the pantry door, rummage through shelves, and finally locate it in a far corner. You then walk back to the counter, only to realize you forgot the measuring spoon. So, you retrace your steps, grab the spoon, and finally return to the counter.

That's a bit like how materials and information can move in a typical business process – often inefficiently. This is where a Spaghetti Diagram comes in handy.



What is a Spaghetti Diagram?

A simple yet powerful visual tool that maps the actual path traveled by people, materials, or information within a process. Just like the name suggests, it often resembles a plate of spaghetti, with lines crisscrossing and intertwining to represent the movement.

How to Create a Spaghetti Diagram:

1. **Observe the process:**
 - a. Carefully observe the flow of materials or information firsthand.
2. **Draw the layout:**
 - a. Sketch a simple layout of the workspace or facility.
3. **Map the movement:**
 - a. Use lines to trace the actual path traveled by materials or people.
4. **Identify waste:**
 - a. Look for any unnecessary movement, backtracking, or long distances traveled.

Why is it helpful?

- **Visualizes waste:**
 - Spaghetti Diagrams make it easy to see inefficiencies in the flow of materials, such as excessive walking, unnecessary handling, and long transportation distances.
- **Identify bottlenecks:**
 - It helps pinpoint areas where materials or information get stuck, causing delays and disruptions.
- **Improve layout:**
 - By visualizing the flow, you can identify opportunities to improve the layout of the workspace, bringing frequently used items closer together and minimizing unnecessary movement.

Real-world Example:

In a manufacturing plant, a Spaghetti Diagram revealed that raw materials were being transported from the receiving dock to the production line via a long, circuitous route. By analyzing the diagram, the team identified a more direct route, significantly reducing transportation time and minimizing the risk of damage to materials.