



Spaghetti Diagram

? What is It

A spaghetti diagram is a quick and easy way to **track distances of parts and people** on the shop floor. It allows us to **analyze** and **optimize** the distances.

🕒 When

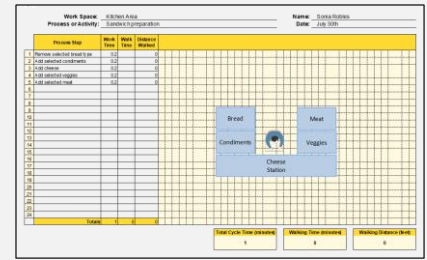
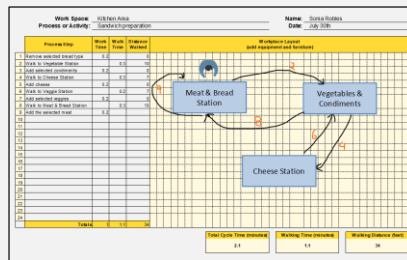
- Identify **Motion** waste.
- **Process design**, to optimize distance traveled for materials and/or people.
- Used in the **Measure** and **Analyze** phase of the **DMAIC**.

🎯 Goals

- **Reduce** traveling distance for people and/or parts, optimizing operations.
- Provide **faster delivery** with less effort.
- Eliminate or reduce **Motion Waste**.
- **Optimize workstation layouts**.

📊 How

- 👤 For a Person
- 📦 For a Part
- 👥 For Multiple Persons / Parts



💡 Hints

- ✓ Works best for a repetitive environment.
- ✓ The spaghetti diagram is, by itself, not an optimization method.
- ✓ We also have the possibility of reducing waiting times and working times, which will also benefit the operations.
- ✓ The method should be combined with Line Balancing and Value-Added analysis.

📍 Example

