

# AI-00946 Push vs Pull Concept

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☰ Tags	Life
🕒 Created time	@May 16, 2024 10:32 AM

**In a manufacturing environment, there is a concept of "Push and Pull", explain and delve.**

Absolutely, Push and Pull are two fundamental concepts in manufacturing that deal with how production decisions are made and how materials flow through the system. Here's a breakdown of each:

## Push Manufacturing

- **Production Based on Forecasts:** In push manufacturing, production is driven by forecasts of future demand. Think of it like making cookies based on how many you think you'll eat in a week.
- **Inventory Builds Up:** Based on forecasts, manufacturers create production plans and purchase materials in advance. This leads to a buildup of inventory (raw materials, work-in-process, finished goods).
- **Benefits:** Push systems can be efficient for high-demand, stable products. They ensure products are readily available to meet anticipated needs.
- **Drawbacks:** Forecasts can be inaccurate, leading to overproduction and potential waste from obsolete inventory. Large inventory holdings tie up capital and require storage space.

## Pull Manufacturing

- **Production Based on Actual Demand:** Pull manufacturing, a core principle of Lean Manufacturing, is all about responding to actual customer orders. Imagine baking cookies only when someone asks you for one.
- **Kanban Systems:** Pull systems often use Kanban systems, which are visual signals that trigger production of the next unit only when the previous one is used.

- **Lower Inventory:** By only producing what's needed, pull systems minimize inventory holding costs and reduce waste.
- **Benefits:** Pull systems are more flexible and adaptable to changing demands. They also promote continuous improvement and quality control.
- **Drawbacks:** Pull systems may require a more responsive supply chain and can be challenging for products with long lead times.

## Choosing the Right System

The best approach depends on several factors like:

- **Product Demand:** Highly predictable demand favors push, while pull excels with volatile demand.
- **Product Complexity:** Complex products may benefit from push for upfront planning.
- **Lead Times:** Long lead times can favor push to ensure materials are available.

## In Conclusion

Push and Pull are not necessarily exclusive. Hybrid models that combine elements of both can be used depending on the specific manufacturing environment. Understanding these concepts allows manufacturers to optimize production, reduce costs, and meet customer demands effectively.

## List 20 examples of each

### Push Manufacturing Examples (20):

1.

**Bottled Water:** Production plans are based on forecasted demand for different regions during hot summer months.

2.

**Basic T-Shirts:** Plain white t-shirts with predictable demand can be produced in bulk based on forecasts.

3.

**Standard Appliances:** Refrigerators, washing machines with limited variations can be produced in large quantities based on sales projections.

4.

**Holiday Toys:** Popular toys for the upcoming holiday season may be produced in

advance based on expected demand.

5.

**Newspaper Printing:** Newspapers are typically printed in large quantities based on anticipated readership.

6.

**Automotive Parts (common):** Engine blocks, frames for high-volume car models can be produced in advance based on production schedules.

7.

**Building Materials (standard):** Bricks, standard-sized lumber can be produced in bulk anticipating construction needs.

8.

**Canned Food (staples):** Canned beans, tomatoes with long shelf life can be produced based on historical sales data.

9.

**Generic Medications:** Commonly prescribed medications can be manufactured in large quantities based on doctor prescriptions.

10.

**Disposable Paper Products:** Paper towels, toilet paper with steady demand can be produced in bulk for efficient manufacturing.

11.

**Fast Food Restaurants (ingredients):** Buns, patties for hamburgers can be produced based on projected sales figures.

12.

**Standard Office Supplies:** Paper clips, staplers with high demand can be manufactured in anticipation of needs.

13.

**Basic Furniture (desks):** Standard office desks with limited variations can be produced in large batches based on forecasts.

14.

**Light Bulbs (common types):** Standard incandescent or LED bulbs can be produced in bulk based on projected demand.

15.

**Glass Bottles:** Standard glass bottles used by various beverage companies are often produced in large quantities.

16.

**Basic Paint Colors:** White, black, and other popular paint colors can be

manufactured in anticipation of sales.

17.

**Cell Phone Chargers (standard):** Standard chargers for a specific phone model can be produced based on expected phone sales.

18.

**Computer Monitors (common sizes):** Standard size computer monitors with predictable demand can be produced in bulk.

19.

**Winter Gear (before season):** Snow boots, winter jackets are typically produced in advance of the winter season.

20.

**School Supplies (basic):** Pencils, notebooks with high demand before the school year can be produced in bulk.

#### **Pull Manufacturing Examples (20):**

1.

**Pizzeria:** Pizzas are only made when an order is placed.

2.

**Custom Furniture:** Furniture pieces built to specific customer specifications require pull after an order is confirmed.

3.

**High-End Clothing:** Luxury clothing with limited production runs are often made based on actual orders from retailers.

4.

**Emergency Response Vehicles:** Ambulances, fire trucks are typically only produced after an order is received.

5.

**Book Printing (on-demand):** Books with limited print runs or self-published books utilize print-on-demand to meet actual orders.

6.

**Medical Devices (custom):** Prosthetics, pacemakers tailored to individual patients are produced based on specific doctor's orders.

7.

**Specialty Coffee Roasting:** Coffee beans are roasted in smaller batches based on actual customer demand.

8.

**Craft Beer Production:** Breweries may produce limited edition beers based on pre-orders or customer interest.

9.

**Furniture Repair:** Furniture repairs are typically triggered by a customer bringing in a broken piece.

10.

**Computer Repair Shops:** Parts for computer repairs are usually ordered after diagnosing a customer's computer issue.

11.

**Fast Food Restaurants (cooking):** Burgers, fries are typically cooked only after an order is placed.

12.

**Online Retailers (fulfillment):** Products are shipped from warehouses only after a customer places an order.

13.

**Machine Shops (custom parts):** Custom-machined parts are produced based on specific engineering drawings and orders.

14.

**Print Shops (custom printing):** Brochures, flyers are typically printed after a customer confirms the design and quantity.

15.

**Auto Repair Shops (parts):** Replacement car parts are ordered after diagnosing the issue with a customer's car.

16.

**Website Development:** Websites are built based on a client's specific needs and requirements.

17.

**Software Development (custom):** Custom software applications are developed based on a client's specific needs and functionalities.

18.

**Architectural Design Services:** Architectural plans are created after being commissioned by a client for a specific project.

19.

**Home Appliances (luxury):** High-end refrigerators with customizable features may be produced

**Synthesize the push and pull system in my "third phase in life" (early retirement at 55). List 20 examples of each.**

## **Push and Pull for Your Early Retirement (55+)**

### **Push System (Planning for the Future):**

Think of this as proactively setting yourself up for a fulfilling post-work life. Here are 20 examples:

1. **Financial Planning:** Invest in retirement accounts, calculate your retirement needs, and plan for income sources (pushing yourself to save now).
2. **Health & Wellness:** Prioritize healthy habits, build an exercise routine, plan for preventive healthcare (pushing yourself to stay active).
3. **Housing:** Downsize or relocate to a more affordable area (pushing yourself to make a change).
4. **Hobbies & Interests:** Identify and explore activities you'd enjoy in retirement (pushing yourself to try new things).
5. **Volunteer Work:** Find volunteer opportunities that align with your interests (pushing yourself to give back).
6. **Education & Learning:** Consider taking courses or pursuing a new skill (pushing yourself to keep learning).
7. **Travel Planning:** Research and create a bucket list of destinations you'd like to visit (pushing yourself to explore the world).
8. **Social Network Building:** Reconnect with old friends, join social groups for shared interests (pushing yourself to stay connected).
9. **Part-Time Work (Optional):** Plan for a side hustle or consulting work you might enjoy (pushing yourself to explore income options).
10. **Family Time:** Plan activities and spending time with loved ones (pushing yourself to prioritize family).

### **Pull System (Responding to Opportunities):**

This focuses on staying flexible and adapting to what excites you in this new chapter:

1. **Travel (Unexpected Deals):** Take advantage of last-minute travel deals or spontaneous adventures (pulling you towards exciting experiences).
2. **Learning (New Interests):** Pursue new hobbies or interests that emerge during your free time (pulled by curiosity and discovery).
3. **Volunteer Work (Urgent Needs):** Respond to volunteer needs in your community that spark your passion (pulled to make a difference).
4. **Project Work (Appealing Opportunities):** Take on freelance projects or consulting gigs that pique your interest (pulled by stimulating challenges).
5. **Social Activities (Spontaneous Events):** Join friends or groups for activities that sound exciting in the moment (pulled towards social connection).
6. **Creative Pursuits (Inspiration Strikes):** Dive into creative endeavors when inspiration hits (pulled by artistic expression).
7. **Entrepreneurial Ventures (Identify a Gap):** If you see an opportunity, pursue a business idea you're passionate about (pulled by the chance to create something new).
8. **Relocation (Ideal Place Found):** If you find your dream retirement location, make the move (pulled by a strong desire for a specific lifestyle).
9. **Education (New Topics Spark Interest):** Take online courses or workshops on topics that pique your curiosity (pulled by the desire to learn more).
10. **Family Time (Responding to Needs):** Be present and flexible to support your family's needs as they arise (pulled by the desire to be there for loved ones).

Remember, the beauty of early retirement is the freedom to choose. Embrace a balance of both push (planning) and pull (adapting) to design a fulfilling and exciting next chapter!

### **Being non-committal and spontaneous, is this a push or a pull system?**

Leaning towards a **pull system**, being non-committal and spontaneous prioritizes reacting to what excites you in the moment. Here's why:

- **Pull Systems Respond to Opportunities:** A pull system thrives on reacting to what grabs your attention. In this case, being non-committal allows you to be open to new, unforeseen opportunities and experiences.

- **Spontaneity is Reactive:** When you're spontaneous, you're more likely to act on sudden urges or interesting ideas that arise in the moment, rather than following a pre-defined plan.
- **Limited Planning:** While some planning might be involved (e.g., having some travel funds available), the focus is less on pre-determining activities and more on being open to what emerges.

However, there's a caveat:

- **Some Planning Might Be Needed:** Being completely non-committal in all aspects (e.g., finances, health) could lead to challenges. Some level of basic planning might still be necessary for long-term well-being.

Overall, the emphasis on reacting to what excites you and being open to new experiences aligns more closely with the pull system's core principle.

**I want to deploy the following strategies in my third phase in life based on the Pull System, Non-Committal, Spontaneous, Freedom, List 20 must do guidelines to attain my objectives.**

## **20 Must-Do Guidelines for Your Third Phase Adventure (Pull System Focus)**

Since you prioritize a pull system, non-committal approach, spontaneity, and freedom, these guidelines encourage exploration and adaptation:

### **Embrace Discovery:**

1. **Follow Your Curiosity:** When something sparks your interest, delve deeper. Take classes, attend workshops, or explore online resources. Pursue knowledge for the joy of learning, not just for a specific outcome.
2. **Embrace "Yes, And":** When presented with an opportunity, especially something out of your comfort zone, say "Yes, and..." See where it leads! This fosters spontaneity and openness to new experiences.
3. **Travel Light (Figuratively & Literally):** Minimize material possessions and financial commitments that tie you down. This allows for more flexibility to travel or explore new activities on a whim.



4. **Experiment Often:** Try new things! Sample different cuisines, take a dance class, learn a new language. Embrace the unknown and see what sparks your joy.
5. **Connect with Like-Minded Souls:** Seek out communities or groups that share your interests. These connections can lead to new adventures and broaden your horizons.

### **Cultivate Flexibility:**

1. **Embrace Imperfections:** Don't get bogged down by needing a perfect plan. Embrace the unexpected and see detours as potential adventures.
2. **Learn to Say "No" Gracefully:** While openness is key, don't feel pressured to commit to everything. Prioritize activities that truly excite you.
3. **Go with the Flow:** Don't overthink things. Trust your gut and follow the path that feels most exciting in the moment.
4. **Be Open to Change:** Life throws curveballs. Be adaptable and see unexpected changes as opportunities for growth.
5. **Embrace Minimalism:** Living with less allows for more freedom to move, explore, and pursue spontaneous experiences.

### **Prioritize Well-Being:**

1. **Nurture Your Health:** Focus on physical and mental well-being. Stay active, eat healthy foods, and prioritize activities that bring you peace and relaxation. This fuels your energy for new experiences.
2. **Build a Strong Support System:** Surround yourself with positive, supportive people who encourage your adventures and well-being.
3. **Develop Financial Security:** While wealth isn't everything, having a financial safety net can provide peace of mind and allow for the freedom to say "yes" to more opportunities.
4. **Embrace Lifelong Learning:** Keep your mind sharp and curious. Learn new skills, read widely, and engage in intellectually stimulating activities.
5. **Practice Gratitude:** Savor the beauty of everyday life. Be grateful for the freedom you've earned and the opportunities that lie ahead.

## **Live with Passion:**

1. **Pursue Your Passions:** Make time for activities that ignite your soul. Whether it's writing, painting, hiking, or volunteering, invest time in your passions.
2. **Give Back to Your Community:** Use your time, skills, and experiences to make a positive impact on the world around you.
3. **Create Your Own Bucket List:** Don't follow a pre-defined list of experiences. Craft your own bucket list based on your unique interests and aspirations.
4. **Document Your Journey:** Keep a journal, photo album, or blog to capture your experiences and memories. Share your stories and inspire others.
5. **Live in the Moment:** Savor the present moment. Be fully present for the sights, sounds, and sensations of each unique experience.

Remember, this is just a guide. The beauty lies in the freedom to explore and adapt. Trust your gut, embrace the unexpected, and enjoy the incredible adventure that awaits!