

# Lean Six Sigma Green Belt Certification Course

DIGITAL  
OPERATIONS





# DIGITAL OPERATIONS

## Lean Tools



# Learning Objectives

By the end of this lesson, you will be able to:

- 👁 Identify Lean techniques that help in waste elimination
- 👁 Explain the benefits of cycle time reduction
- 👁 Differentiate between Kaizen and Kaizen Blitz



## Do You Know

Q

Now that we have identified the causes that impact us the most, we need to implement solutions or countermeasures. What are the types of solutions that can be implemented?

A

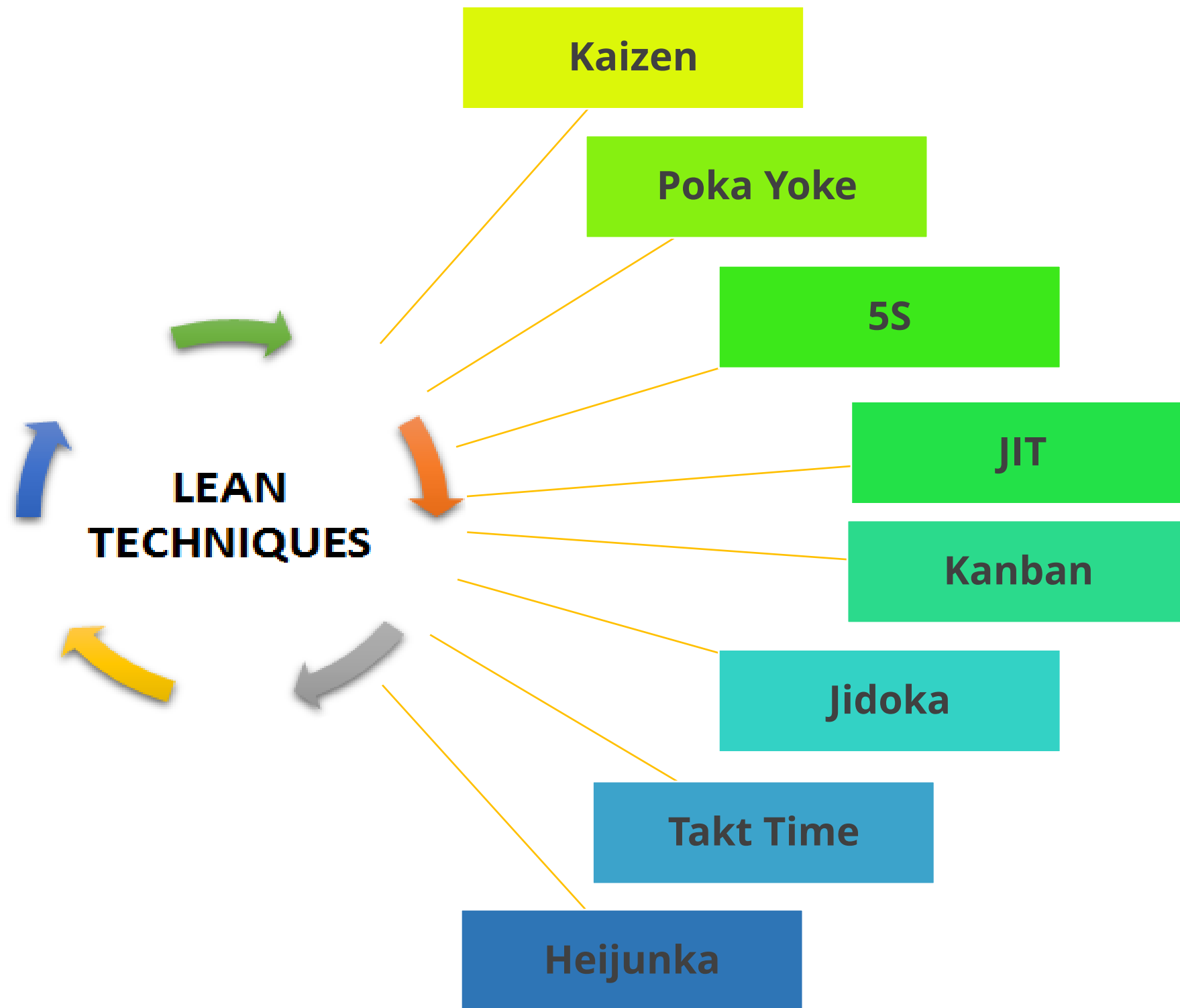
Lean tools can be implemented for solutions or countermeasures.



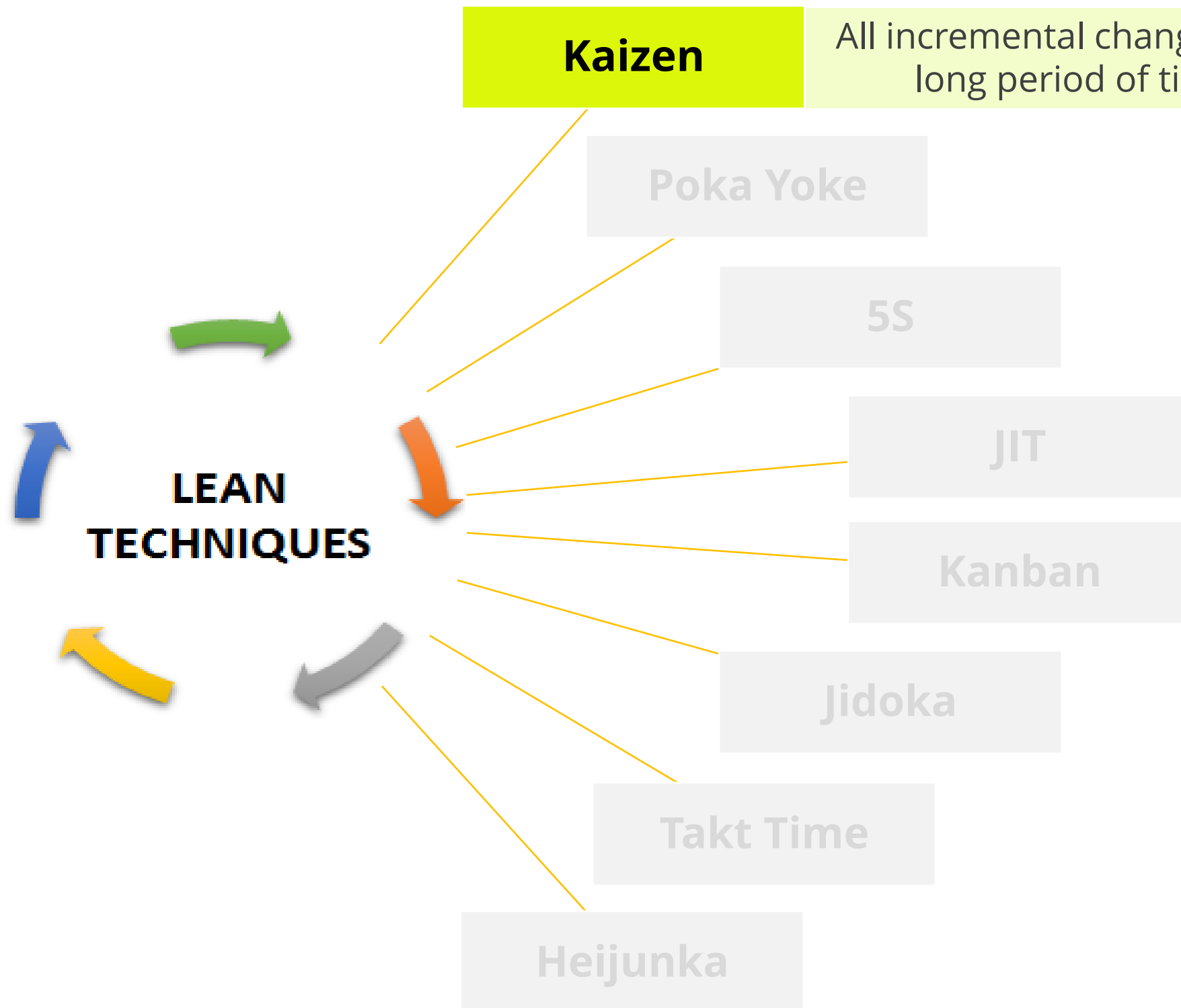


## Tools to Improve Processes

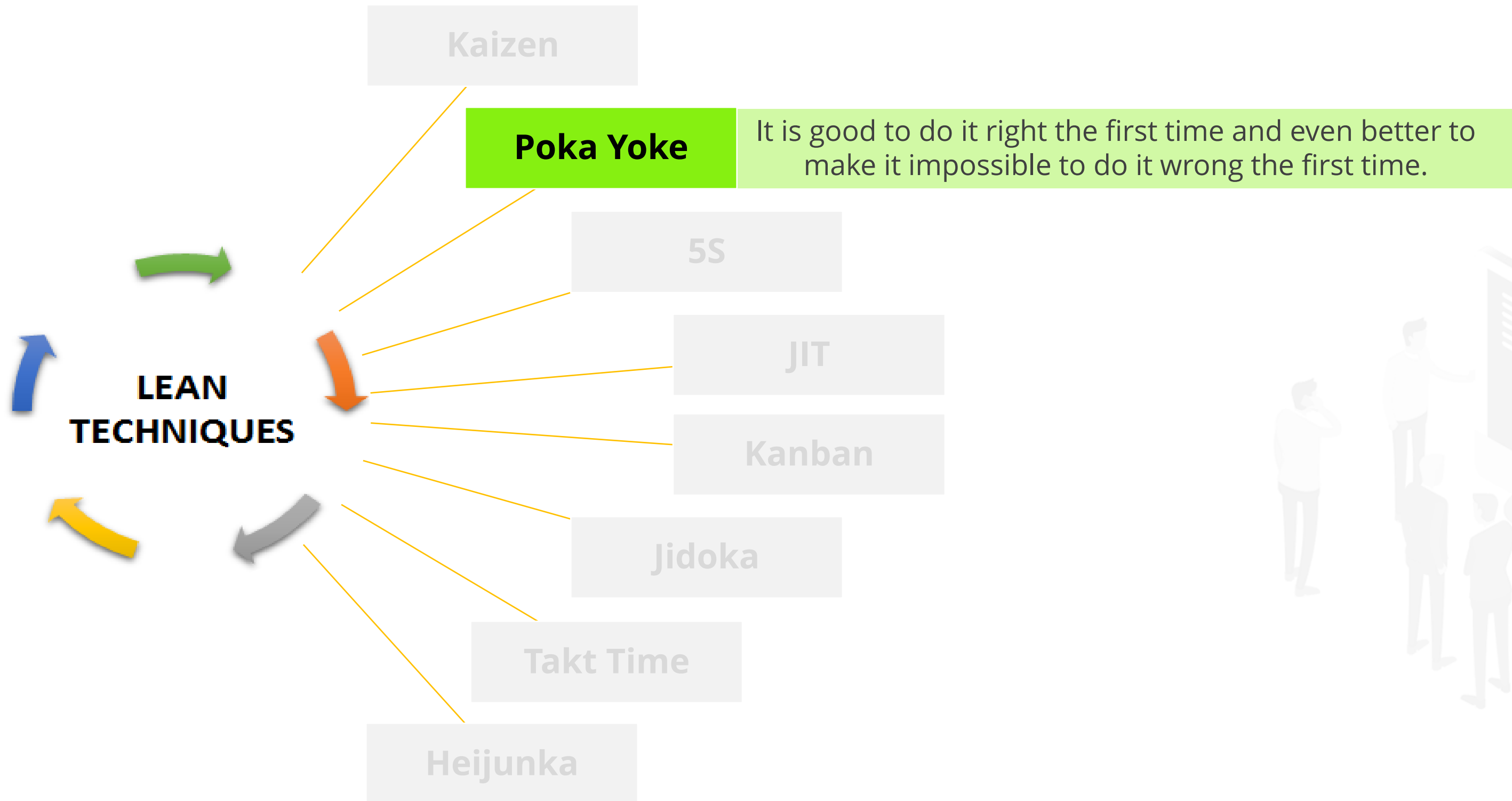
# Lean Tools and Techniques



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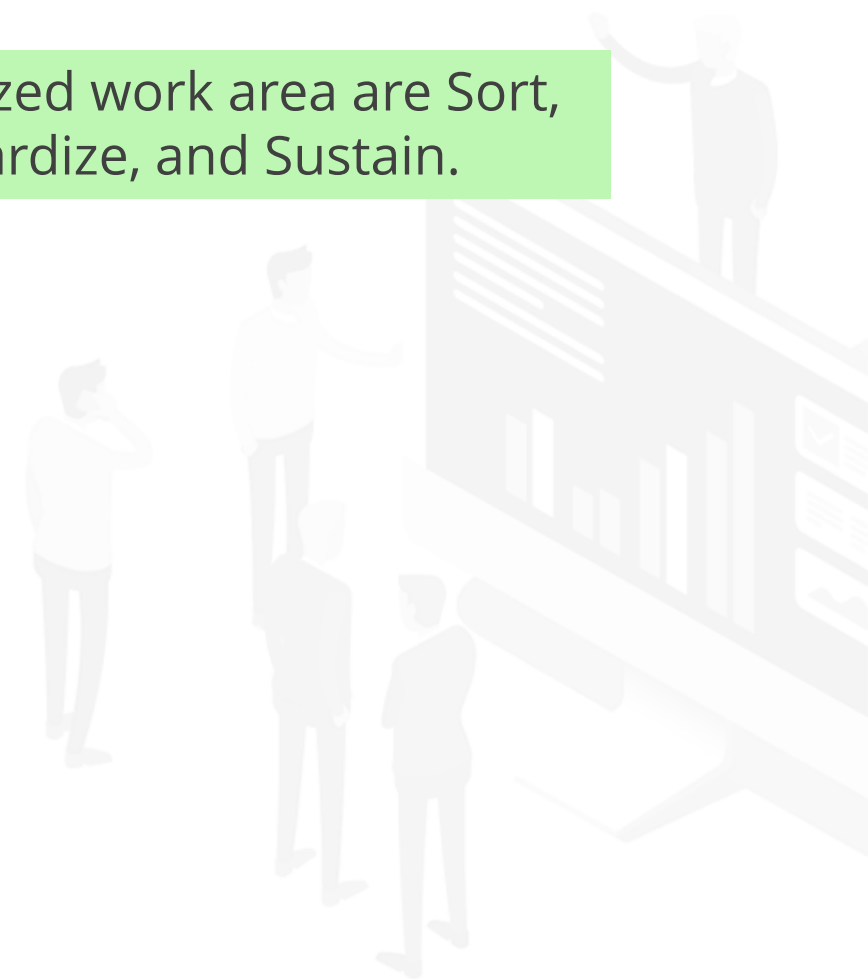
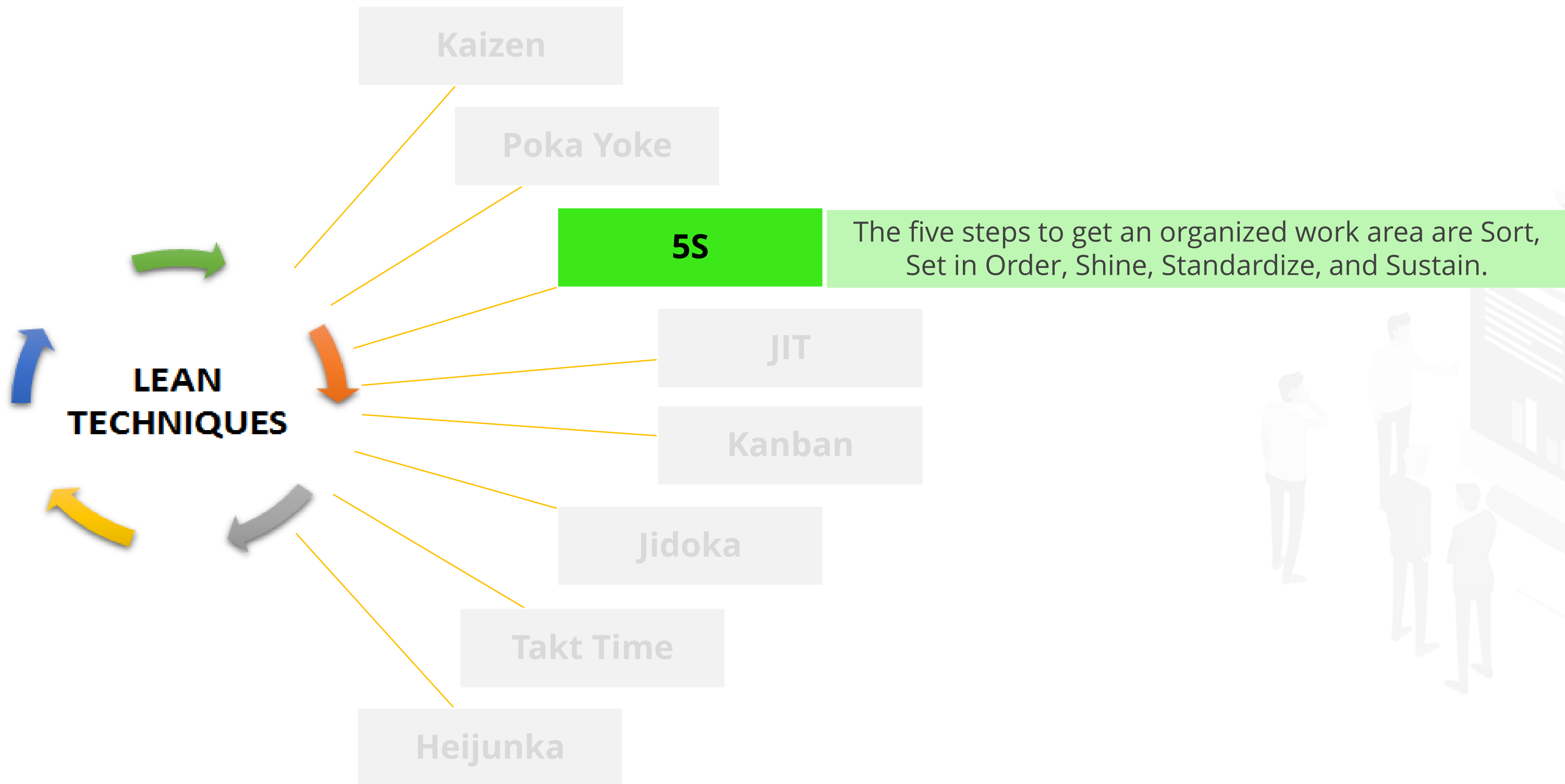


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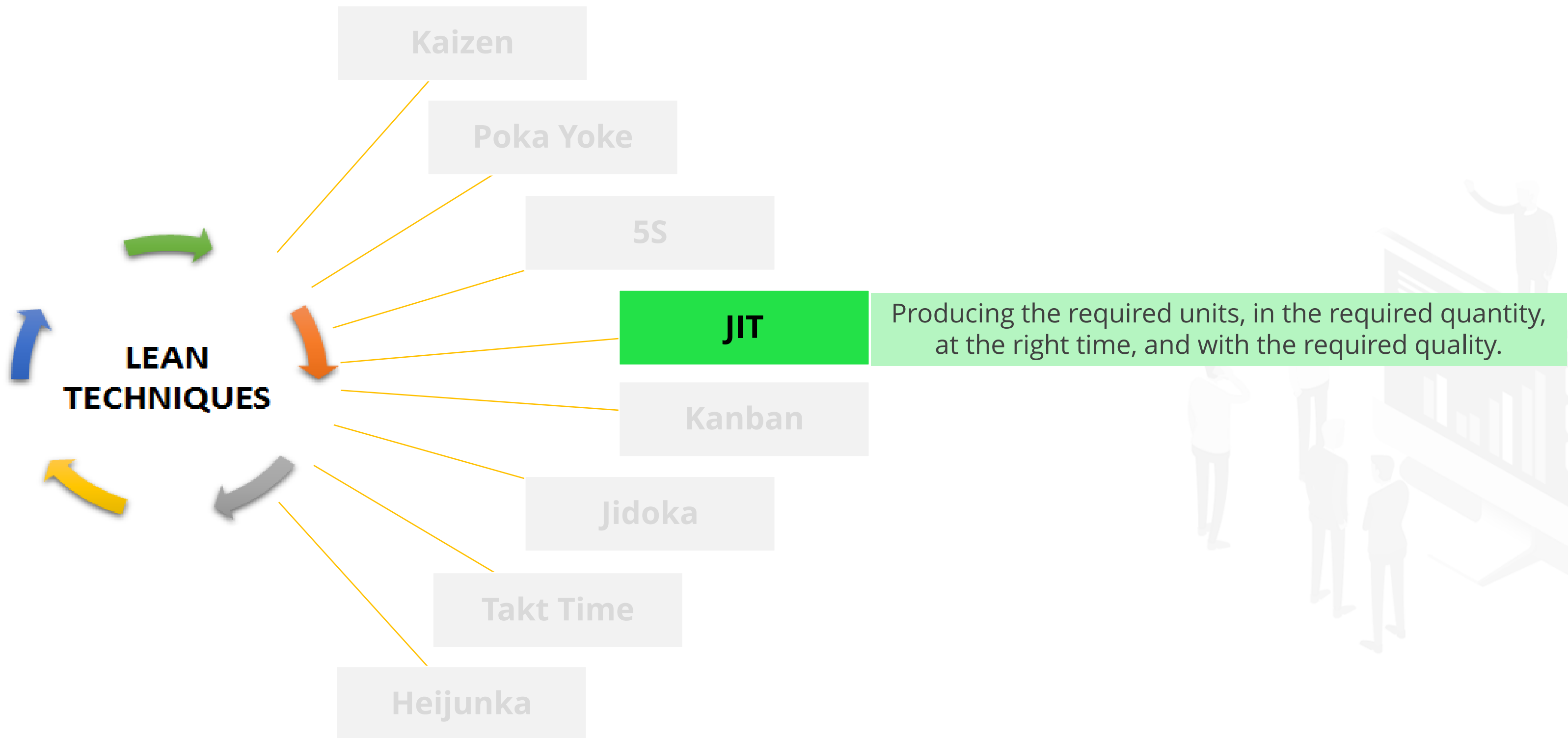




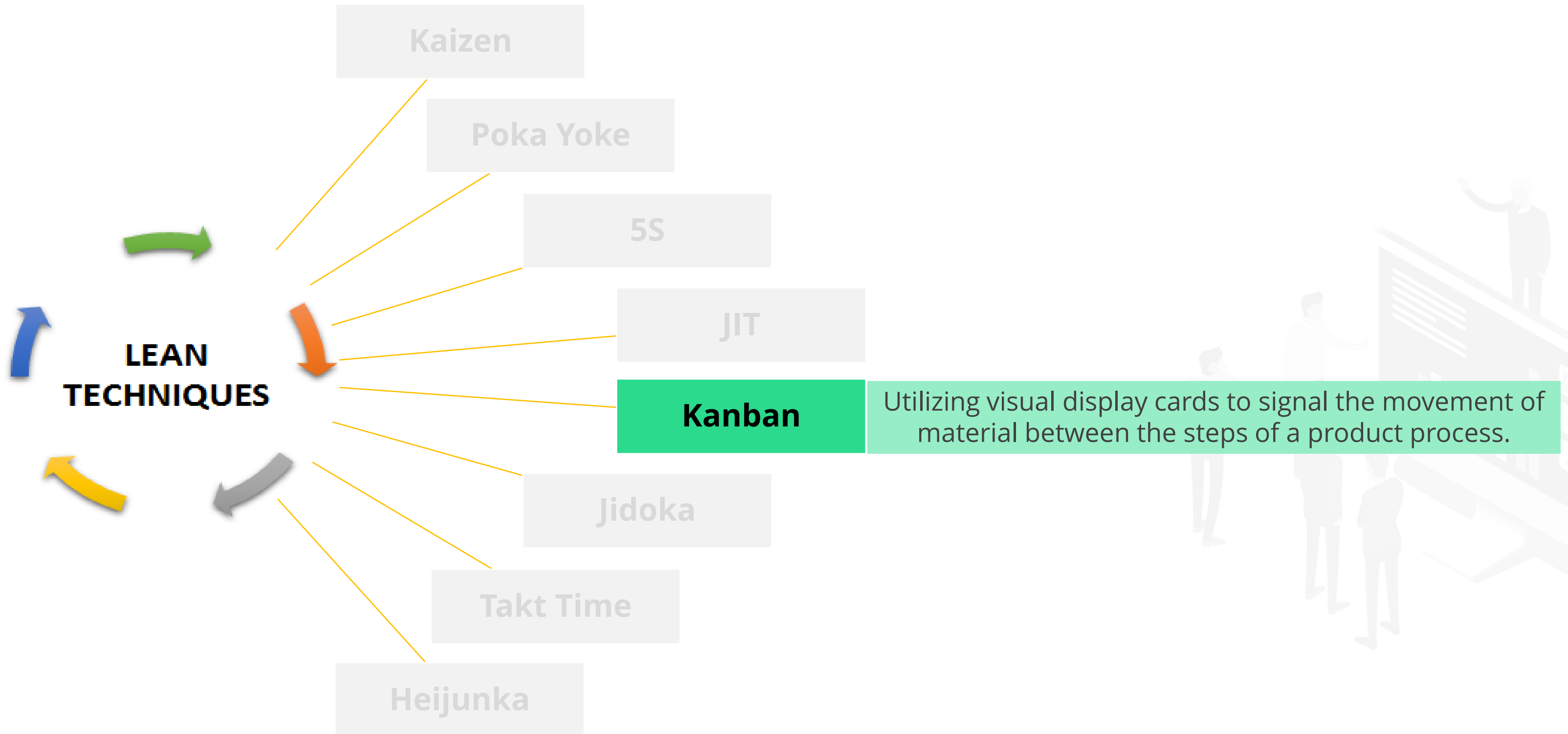
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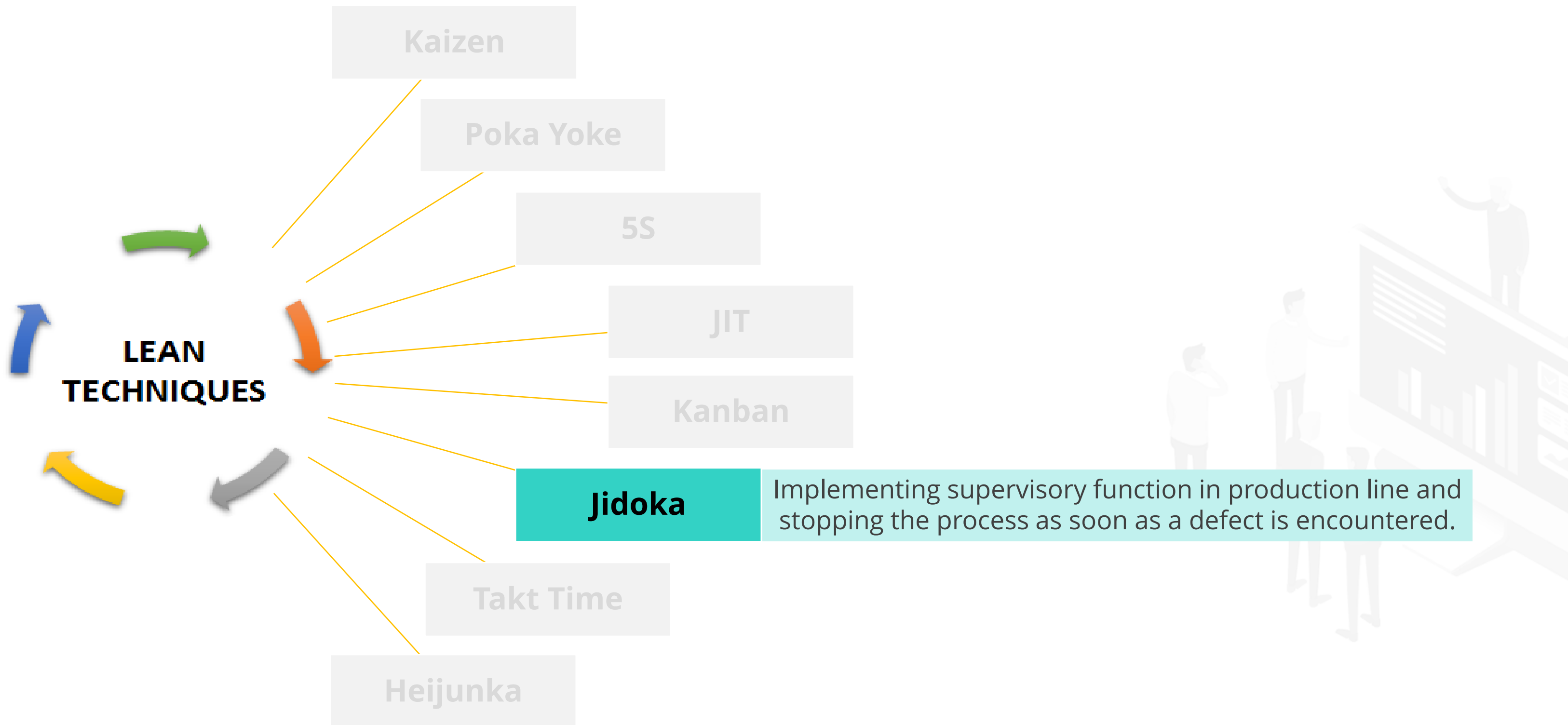


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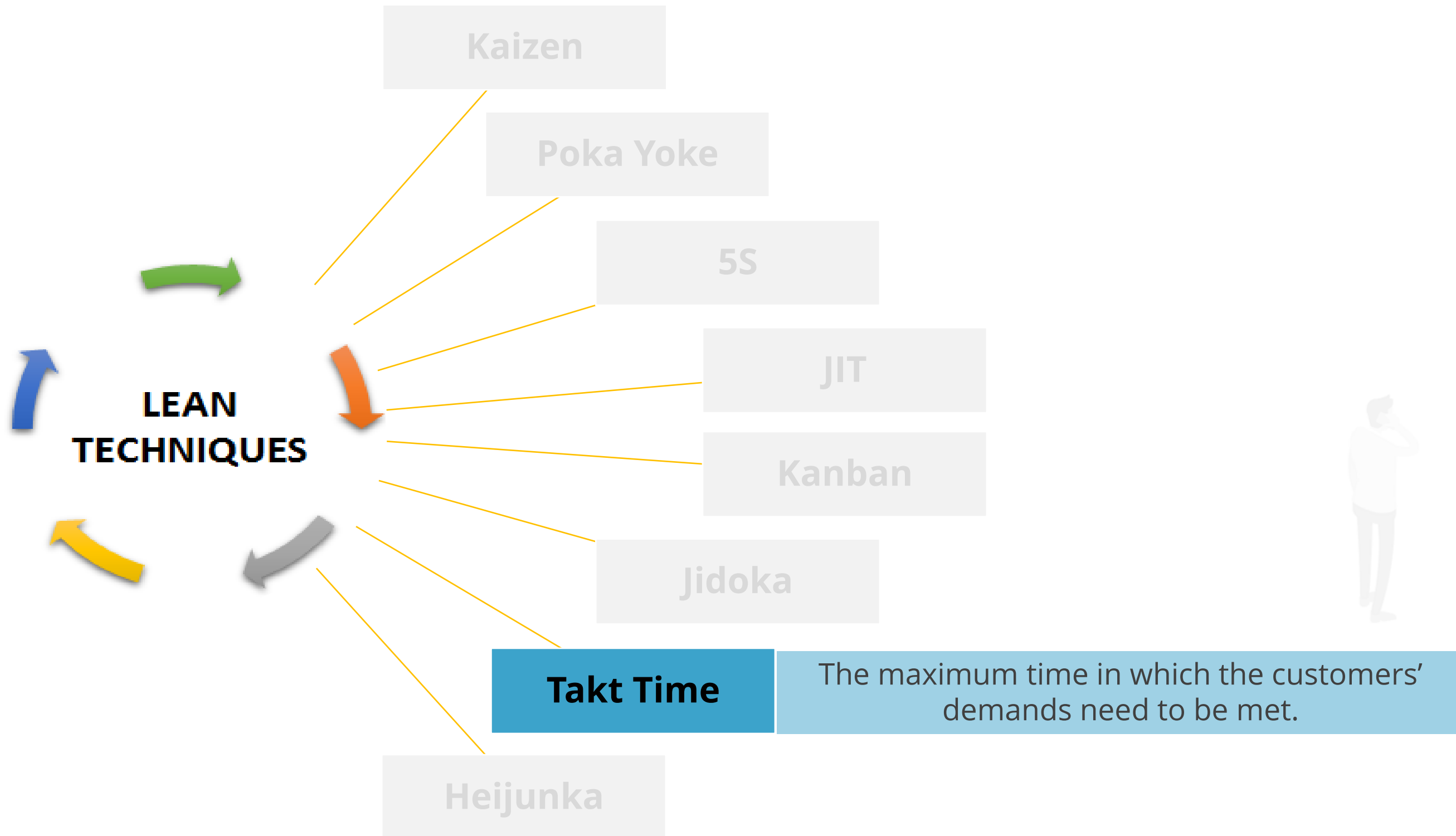




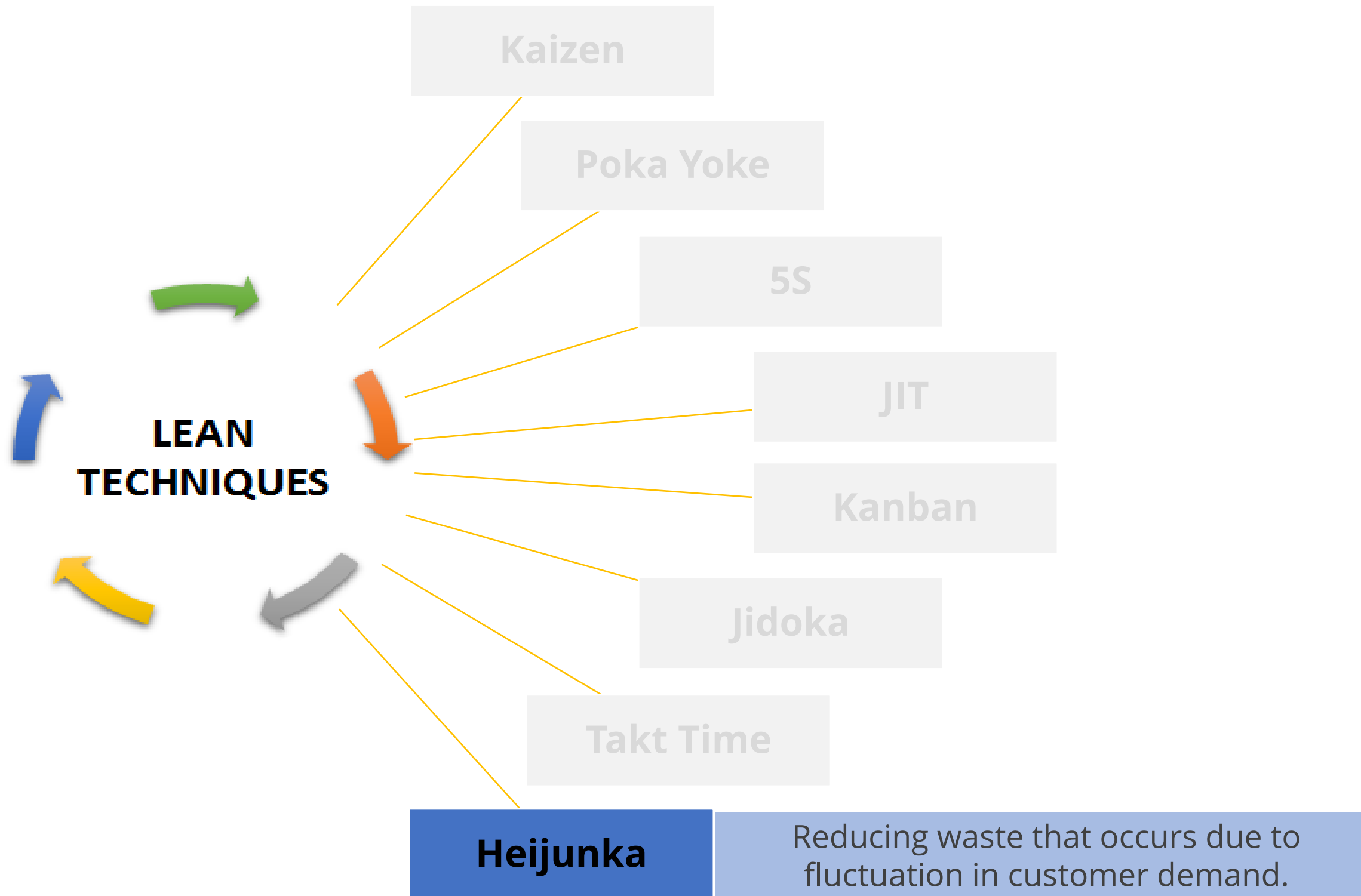
# Lean Tools and Techniques



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## Cycle Time Reduction

# Cycle Time Reduction

Cycle time reduction is the reduction in the time taken to complete a process.



Increases productivity and throughput



Releases resources early



Reduces internal and external waste



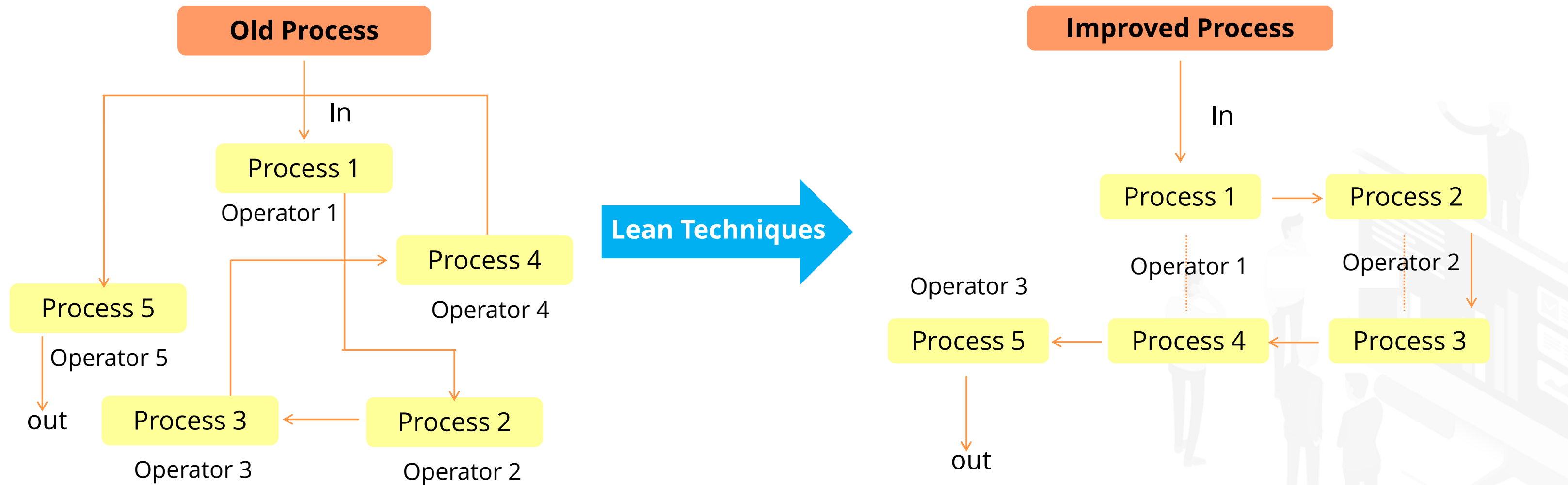
Simplifies the operational process



Decreases product damage



# Cycle Time Reduction





# Kaizen and Kaizen Blitz

Kaizen is a continuous improvement method to improve the functions of an organization.

The improvements could be in:

- Process
- Productivity
- Quality
- Technology
- Safety

Kaizen Blitz is known as Kaizen event or Kaizen workshop.

If the event is tightly defined and the scope is evident for implementation, processes can be easily changed and improved.

Teams improve processes through structured workshops.



# Kaizen and Kaizen Blitz

Is a method

Brings in incremental change

Standardizes, measures, and compares the process

Is lead by the management and the team

Relatively delays the process of decision making

Is a continuous improvement process

Is a workshop or an event

Brings rapid solutions when required

Plans, executes the event, decides a solution, and follows it through

Is lead by the management

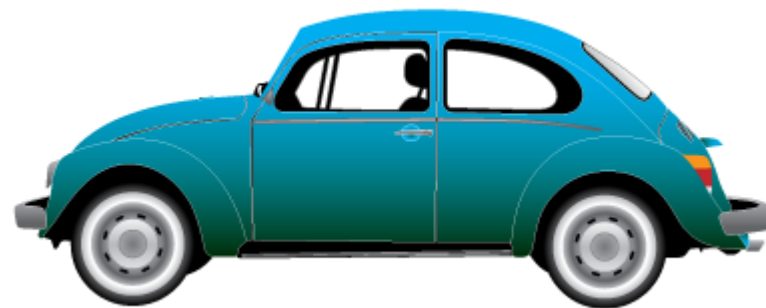
Accelerates the process of decision making

Is a part of improving the process

# Kaizen and Kaizen Blitz

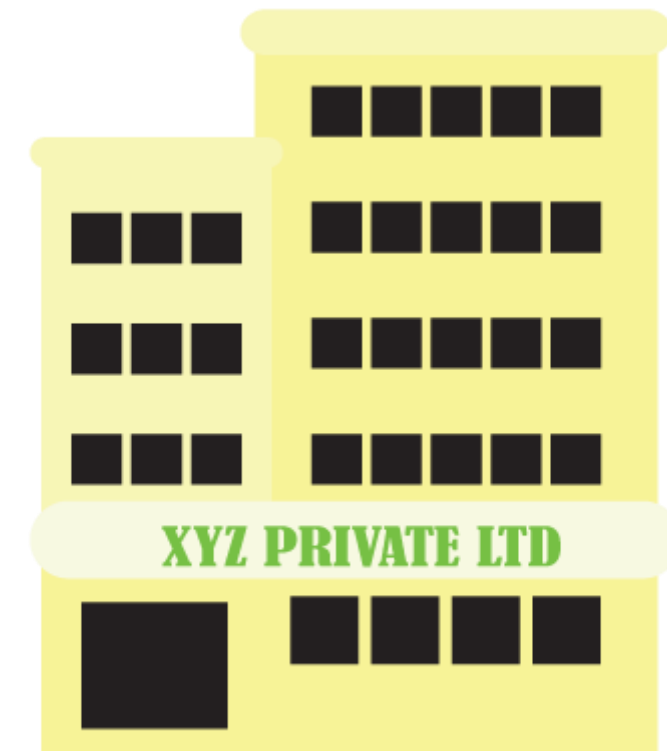
## Kaizen

In Toyota, the production cycle is resumed after the problem is identified and solved.



## Kaizen Blitz

In Wood Infinity Private Limited, scraps are eliminated, work areas are reorganized, and inventory is reduced.

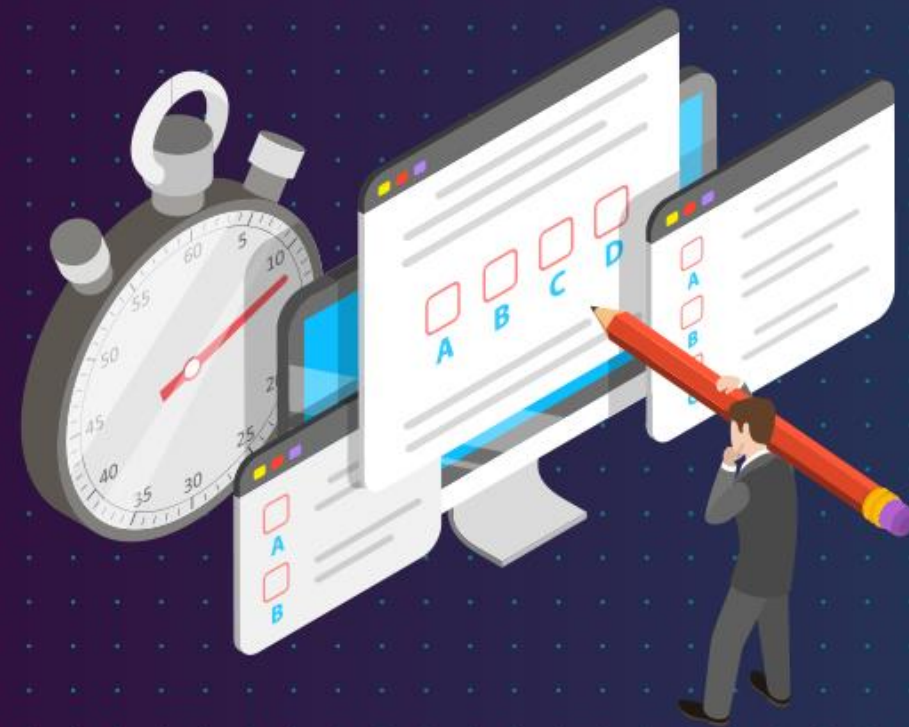




## Key Takeaways

- The 8 Lean techniques are Kaizen, Poka Yoke, 5S, JIT, Kanban, Jidoka, Takt time, and Heijunka.
- Cycle time reduction refers to the reduction in the time taken to complete a process.
- Kaizen is a continuous improvement method to improve the functions of an organization.
- Kaizen Blitz is known as Kaizen event or Kaizen workshop. If the event is tightly defined and the scope is evident for implementation, processes can be easily changed and improved.





## Knowledge Check

## Knowledge Check

1

Which Lean technique focuses on reducing waste caused by fluctuating customer demand?

- A. Jidoka
- B. Heijunka
- C. 5S
- D. Kanban



## Knowledge Check

1

Which Lean technique focuses on reducing waste caused by fluctuating customer demand?

- A. Jidoka
- B. Heijunka
- C. 5S
- D. Kanban



The correct answer is **B**

**Heijunka is a Lean technique that focuses on reducing waste caused by fluctuating customer demand.**



## Knowledge Check

2

**Which of the following is true about Kaizen and Kaizen Blitz?**

- A. Both focus on continuous improvement
- B. Both are led by management teams
- C. Both are events or workshops
- D. Both bring incremental change



## Knowledge Check

2

Which of the following is true about Kaizen and Kaizen Blitz?

- A. Both focus on continuous improvement
- B. Both are led by management teams
- C. Both are events or workshops
- D. Both bring incremental change



The correct answer is **A**

**Kaizen and Kaizen events are different in many aspects but both focus on improving performance**

## Knowledge Check

3

Which of the following Lean tools is focused on preventing defects from occurring?

- A. JIT
- B. Takt Time
- C. 5S
- D. Poka Yoke



## Knowledge Check

3

Which of the following Lean tools is focused on preventing defects from occurring?

- A. JIT
- B. Takt Time
- C. 5S
- D. Poka Yoke



The correct answer is **D**

**Poka Yoke is a Lean technique that focuses on preventing errors from occurring in a process.**