

### Lean Management

Lean in Manufacturing

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#### Agenda

- Background
- Boeing's Lean Journey: Case Study
- Summary



#### **Background**

- Production philosophy
- Product manufacturing innovations
- Embracing Lean
- Goals of Lean manufacturing
- Paradigm shift
- Elimination of waste



## DIGITAL

**Boeing's Lean Journey** 

#### **History and Background**

- Commercial airplanes division (1996)
- Deliver more value to customer



#### **Lean Principles Embraced**

- Identify the value stream
- Make value flow
- Pull value through from the customer
- Remove waste
- Pursue perfection

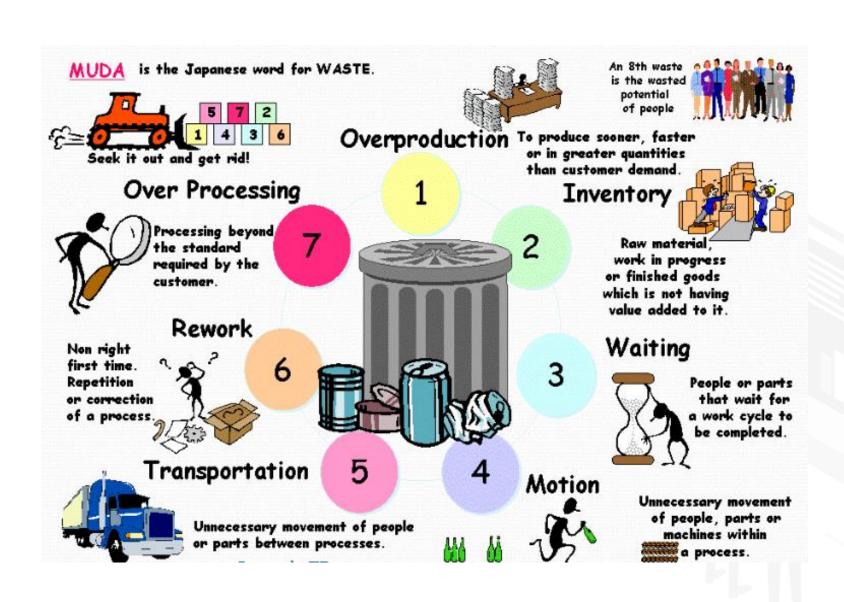


#### **Lean Principles Embraced**

- Lean manufacturing assessment
- Employee participation
- Accelerated Improvement Workshops (AIWs)
  - o Individual work areas improvements

#### **Waste Elimination Focus Areas**

- Complexity
- Labor
- Overproduction
- Space
- Energy
- Defects
- Materials
- Idle materials
- Time
- Transportation
- Unsafe acts



#### **Summary**

- Lean in manufacturing
- Background
- Boeing's Lean implementation journey



## DIGITAL



Knowledge Check

#### Knowledge Check

1

#### Which department of Boeing started Lean implementation?

- A. Factory shopfloor
- B. Engines department
- C. Commercial airplanes division
- D. Waste and recycle department





#### Knowledge Check

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The correct answer is **C** 

Boeing started Lean implementation in the commercial airplanes division in the year 1996.

