

## **Taichi Ohno's Seven Wastes Plus Two**

- Processing Find simple solutions in place of complex ones.
  Motion Eliminate all unnecessary "movement" and steps of people.
- 3. Overproduction

Produce only the exact amount of goods the customer wants when the customer wants them.





## **Taichi Ohno's Seven Wastes Plus Two**

- 4 Defects Strive to achieve the goal of no rework ever (no mistakes, rework, or defects).
- 5 Inventory Avoid scrap, trim, excess, or bad raw materials. Make sure that nothing sits, so there is a steady flow to the customer. Any kind of idle inventory represents waste, including raw materials in any form, workin-process, and finished goods inventories.
- 6 Time Eliminate delays, long setups, and unplanned downtime of machines, processes, or people. These often result from poor specifications,





## **Taichi Ohno's Seven Wastes Plus Two**

Eliminate the movement of materials or 7 **Transportation** information that does not add value to the product, such as double and triple handling of goods and the needless movement of information 8 **Conserve space in the plant of office layout Space** by improving poor arrangement of machines, people, conveyors, or work stations, and storage of excess raw materials, parts, work-in-process, and finished goods inventories. **Operate Equipment and use person-power** 9 Energy only for productive purposes.



## Value Added / Non Value Added

- Value Added activity is that which the end user customer will pay for.
- Non Value Added is waste activity that has no value to the end user customer. The form, function and features of the product are unaffected.
- Non Value Added but Necessary activity is that which is required of a regulatory authority.
- Non Value Added and Not Necessary activity should be eliminated.

