



THE PROCESS IMPROVEMENT COMPANY

WWW.CREATEASOFT.COM

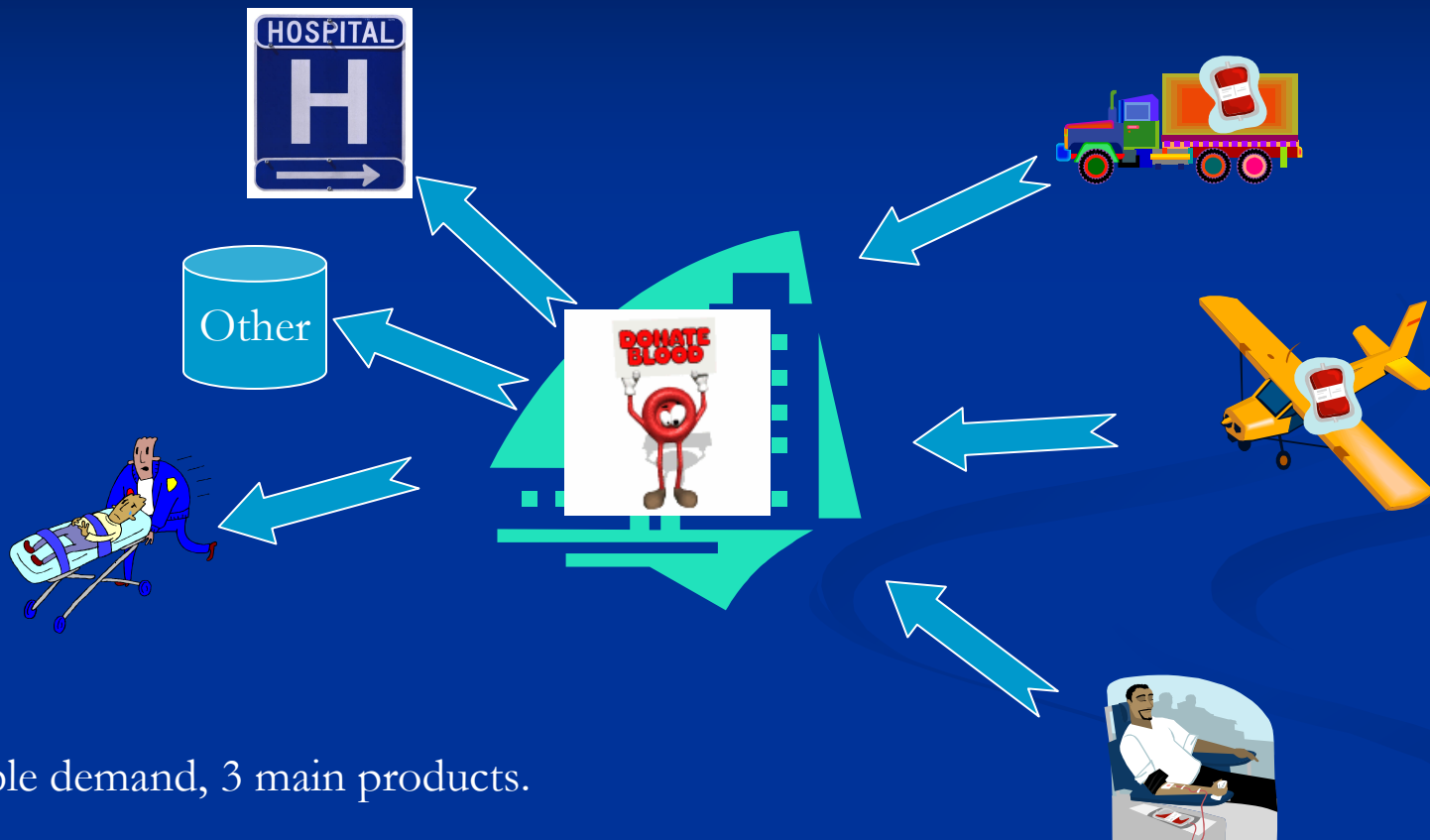
Blood Center Lean

Hosni Adra

About CreateASoft, Inc.

- Established in 1992.
- Core technology: Simcad Process Simulator software.
- Provide organizations with the required tools and know-how to ensure competitive advantage and sustainability in an ever demanding world market.

The Blood Center

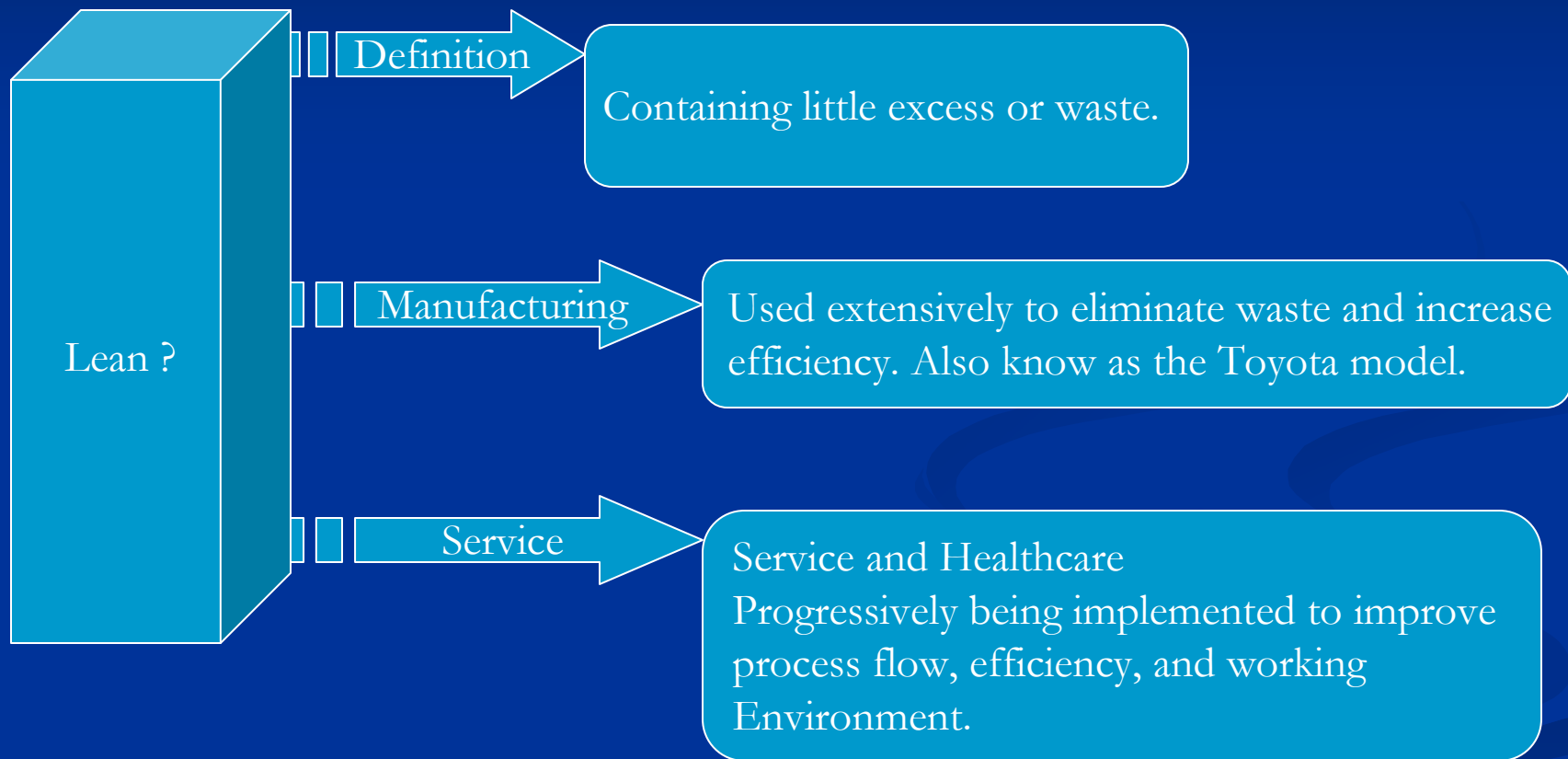


Variable demand, 3 main products.

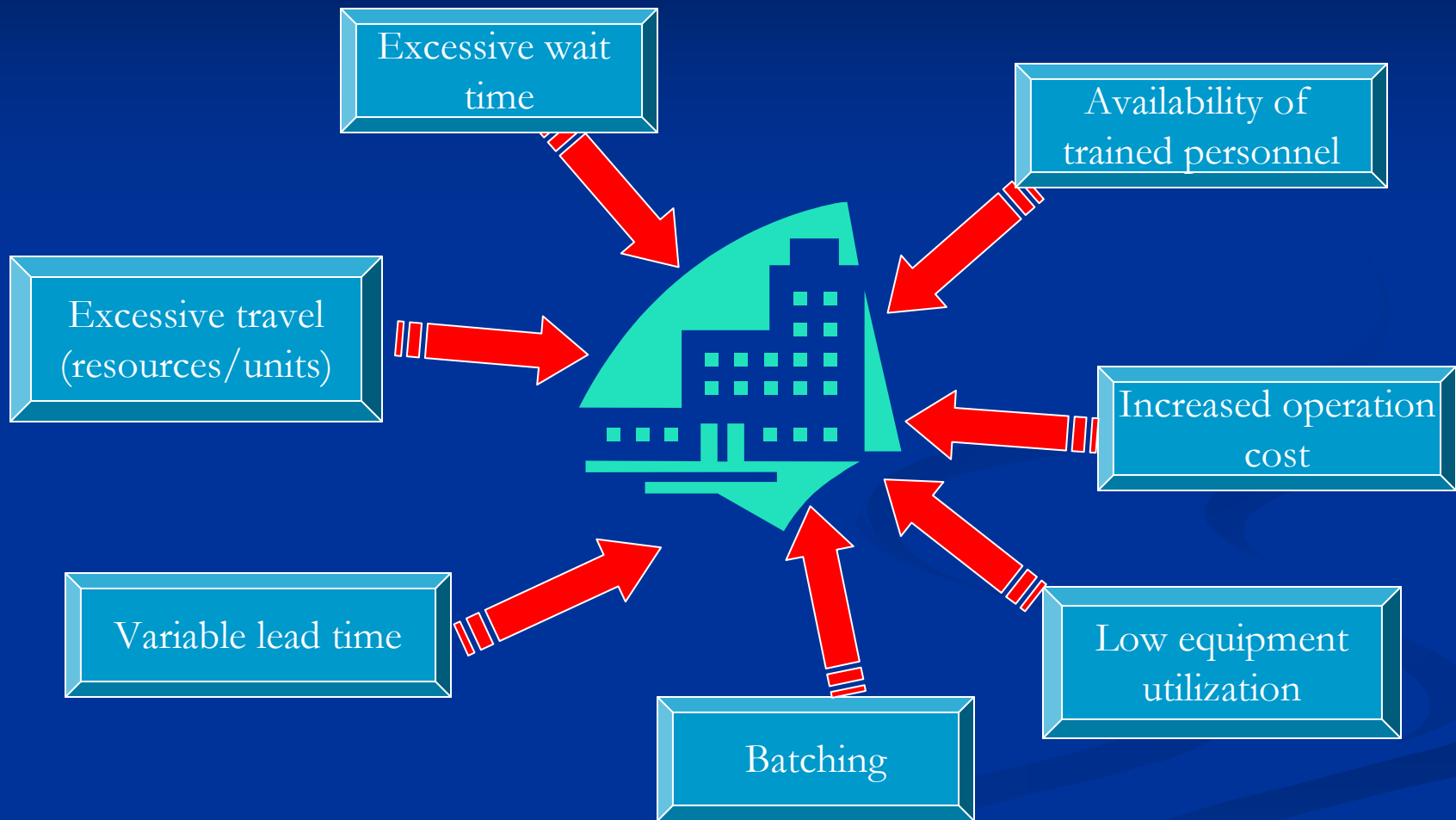
Semi-controlled supply.

Variable resource requirement.

What is Lean?



Common issues



Benefits of Lean

- Minimize waste time
- Improve operation efficiency
- Predictable lead time.
- Controlled WIP
- Simpler, well defined tasks

Excessive travel
(resources/units)

Variable lead

Quality of
personnel

Increased operation
costs

Equipment
utilization

Key to Lean success

Successful lean implementation

- Management
- Willingness to invest

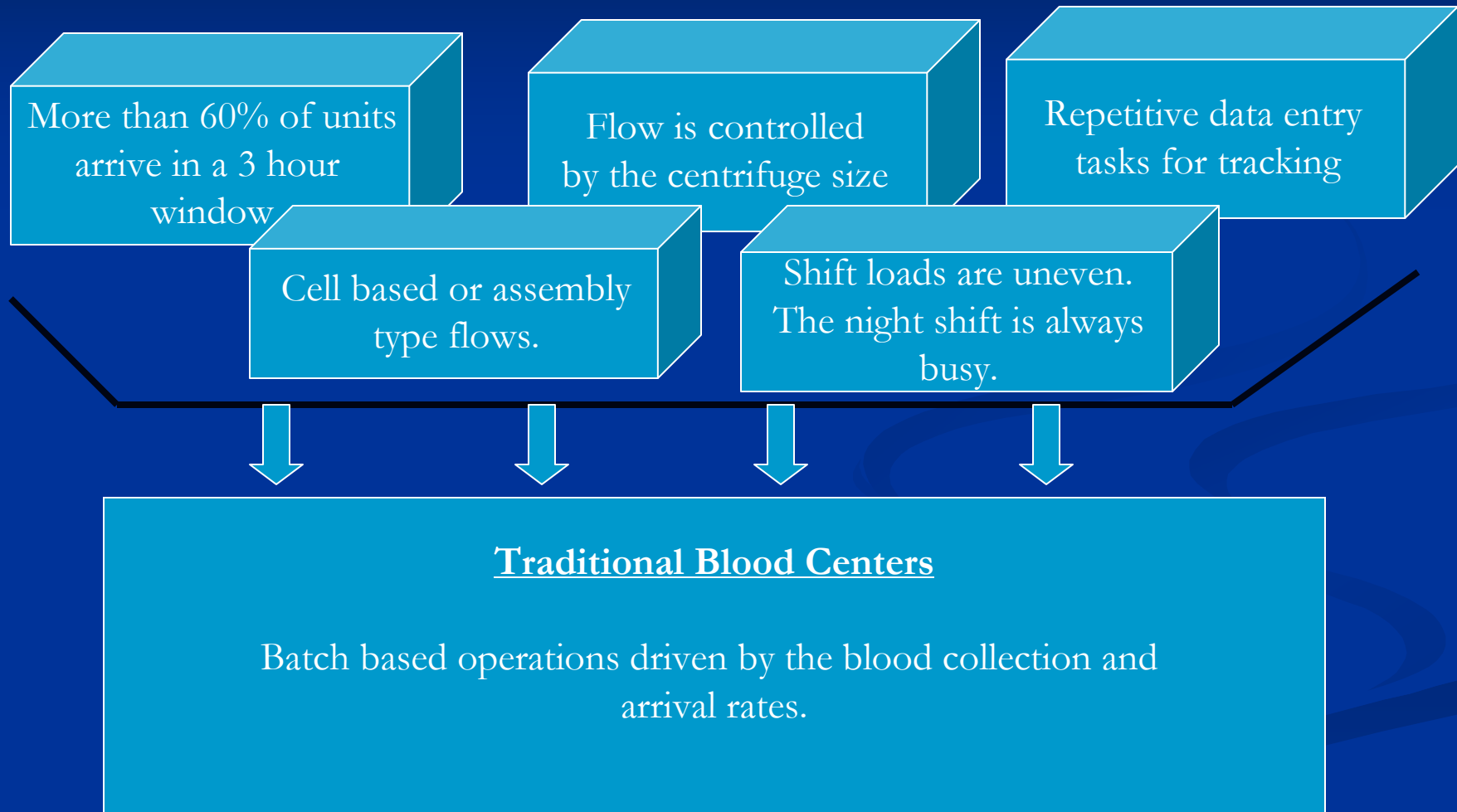
Lean Goals

- Increased process efficiency.
- Reduce travel time (resources/units).
- Control the lead time.
- Demand based production.
- Reduce WIP.
- Reduce the overall operation cost.
- Improve resource utilization, moral.
- Improve overall quality.

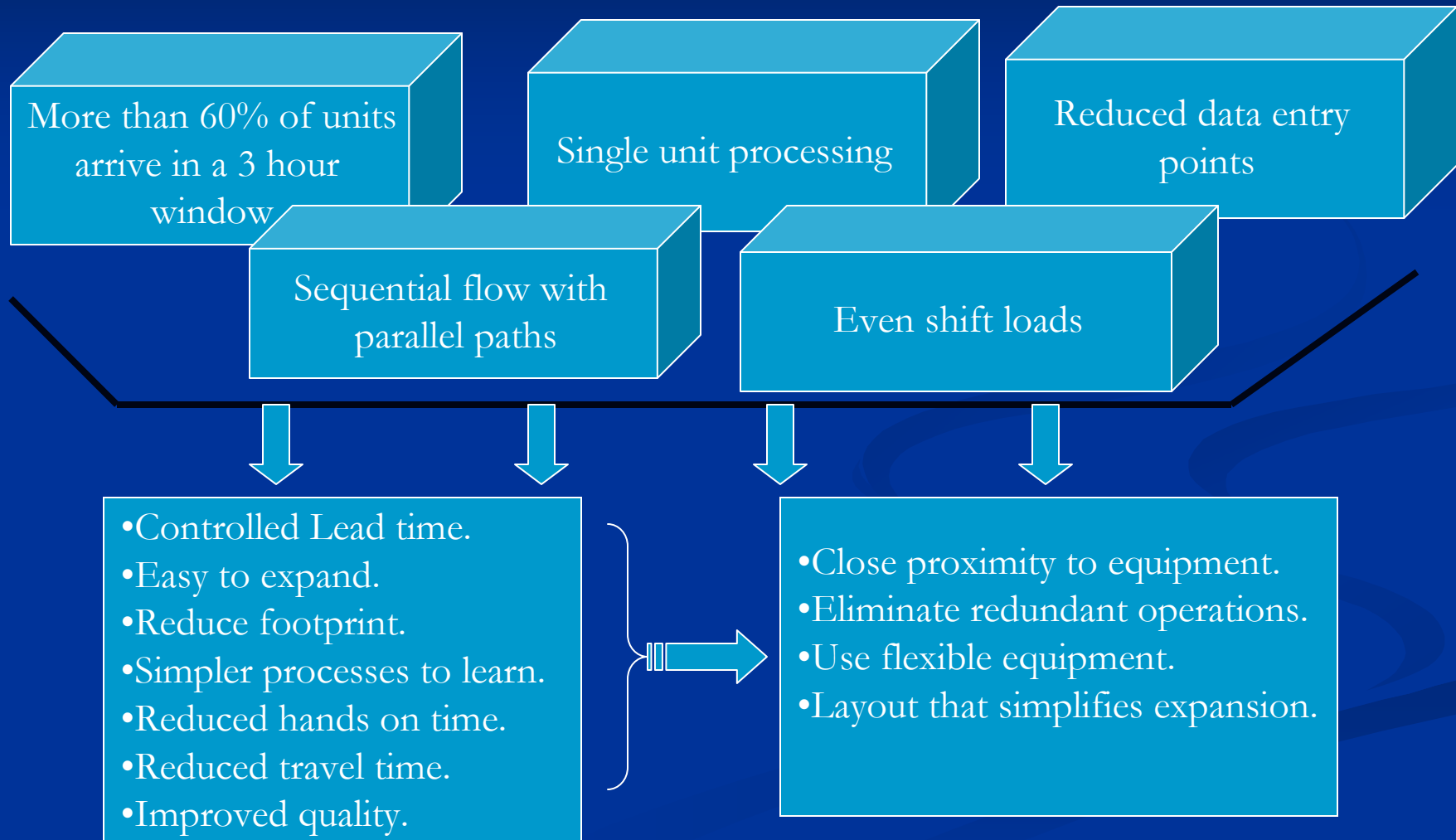
Some Lean Methods

- The Kanban
 - Required in process inventory to maintain high efficiency.
- The Supermarket
 - An inventory buffer used to reduce the consumer demand variability.
- Single piece flow paradigm.
- Processing to “Takt”.
 - Frequency of consumer demand.

Traditional Blood centers



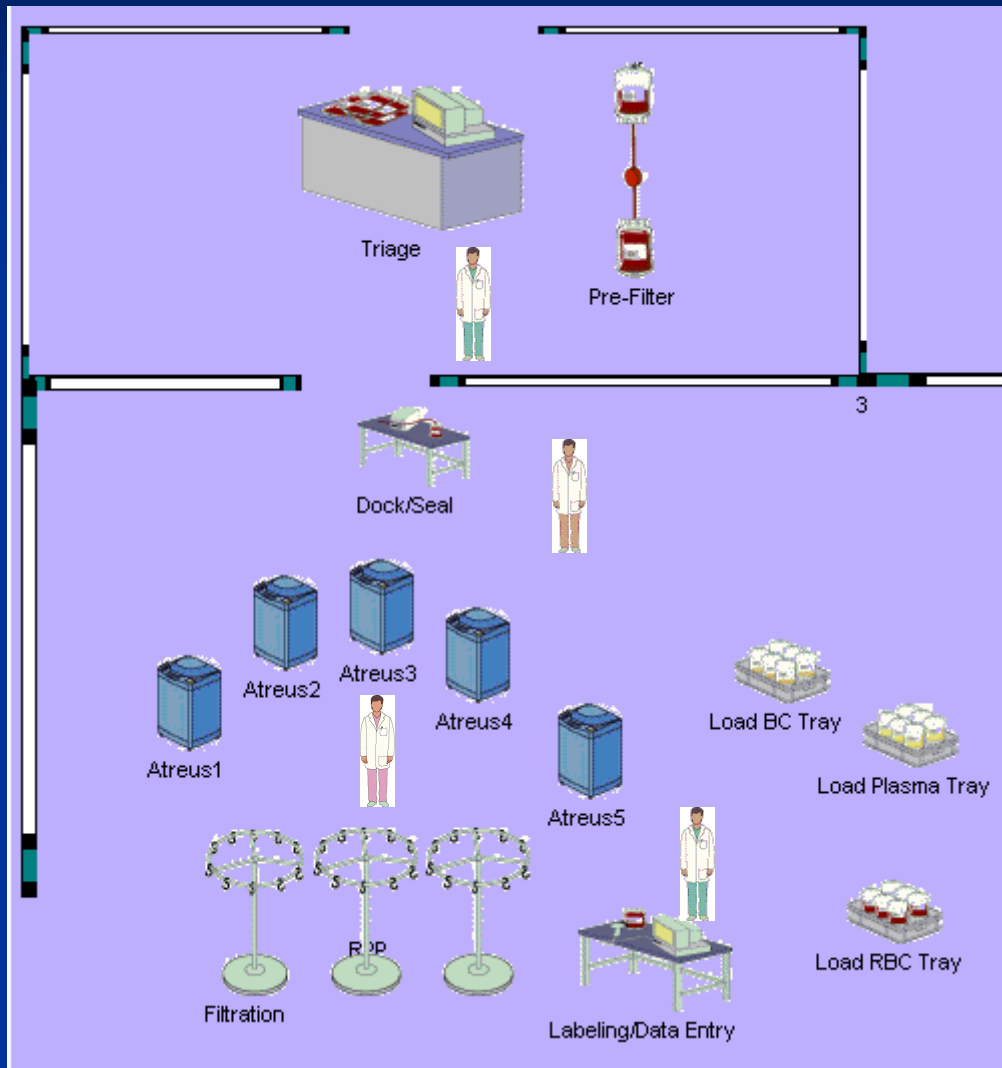
Lean Center



Single piece flow

- One unit is processed at a time.
- Pre-set sequence of events per unit.
- Single data entry point at the processing step.
- Improved communication leading to reduced error rate.
- Dedicated tasks, requiring minimum training.

Lean Center



Single unit processing

- Flexibility.
- Simplified tasks.
- Eliminate repetitive tasks.

Dedicated resources

- Each FTE has a dedicated work area for a set time.
- FTEs can help next or previous station if needed.

Summary

- A lean blood center contains little or no excess waste time. Efficiency is high, with a flexible layout.
- Blood center lean provides
 - Controlled “lead time”.
 - Reduce FTE stress and shift workload fluctuation.
 - Increased quality.
 - Increased space efficiency.
 - Increased flexibility and expandability.
- The only way to stay competitive in an ever demanding market.