

LEAN workshop

EAHP Congress Hamburg March 25-27, 2015 H Kjer – N Curatolo

Conflict of interest Nothing to disclose

Interactive query True or false

Please give your answers to the questions

- 1. Lean is about working faster
- 2. There are 6 different types of waste in Lean

Agenda

- 1. What is LEAN? (Niccolo)
- 2. The process of "Coffee Brewing" (Henrik)
 - Value Stream Mapping (VSM)
 - Waste
- 3. The process of "Clinical Trial drugs dispensing" (Niccolo)
 - Gemba
 - Value Stream Mapping (VSM)
 - The Spaghetti diagram
 - 5S
 - Check lists (Visual Management)
 - Kan Ban (Pull)
- 4. LEAN management eq. Change Management (Henrik)

The Lean Approach



The five LEAN principles



downstream customer signals the need, actual demand



Take 45 seconds to memorize these new symbols for the numbers 1-10



Write down as many of the new symbols as you can remember...

Check your answers



We are looking at the pieces rather than the whole.

This is sometimes referred to as "Silo Thinking"



Let's think Lean!



Learning to see how things are connected within an overall system

Traditional culture	Lean culture
Silo (vertical) thinking	Horizontal thinking
Top down (managers direct)	Bottum up (managers enable)



Traditional culture

Silo (vertical) thinking

Top down (managers direct)

Understanding value through your own point of view

Lean culture

Horizontal thinking

Bottum up (managers enable)

Understanding value from patient's point of view

Understanding value

Three types of activities



Typically 95% of all lead time is non-value added

Waste are the hidden costs and time which the customer is not paying for

Traditional culture Silo (vertical) thinking Top down (managers direct) Understanding value through your own point of view Knowledge/experience based management



Understanding value from patient's point of view

Visual management

Visual management







Continuous «step by step» improvement



WASTE (DOWNTIME)



Lean culture

Horinzotal thinking

Bottum up (managers enable)

Understanding value from patient's point of view

Visual management

Step by step continuous improvement (Kaizen)

Eliminate waste to reduce cost



Defect (does not meet expectations)



Waiting (waiting in all forms is waste)



Overproduction (producing more than you need to)



Non-used intellect (using the wrong level of staff for certain tasks)



WASTE (DOWNTIME)





Transport (movement of product, materiall, ressources)



Motion (movement of person that does not add value to the process)

Inventory (keeping stuff when it isn't required)



Excessive processing (doing more than you need to do)

Coffee Brewing



Coffee Kaizen

While watching the video.....

- 1.write down the wastes you discover (at least 15 wastes)
- 2.have in mind how you would improve the proces

Coffee Kaizen – Current State



Coffee Kaizen – Current State



Small group discussions (10 min)

- Discuss the <u>wastes</u> you <u>discovered</u> incl. which of the <u>8 types of waste</u> it was
- Discuss how the brewing proces could be <u>improved</u> for each of the wastes discovered

8 wastes (DOWNTIME)

Defect (does not meet expectations): error in patient's prescription

Overproduction (doing more than you need to): medication prepared for several days

Waiting (waiting in all forms is waste): waiting for a computer

Non-used intellect (using the wrong level of staff for certain tasks): pharmacist counting medications for To-Take-Away



Transport (movement of product, material, ressources): transporting a chemo to the clinical ward



Inventory (keeping stuff when it isn't required): stock rooms with too much of everything

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Motion (movement of a person that does not add value to the process): looking for a chart

Excessive processing (doing more than you need to do): documenting pharmacy intervention both manually and electronically



Coffee Kaizen – Wastes recognized

Waste in coffee brewing

- 1. Goes to sink for water
- 2. Searching for filters
- 3. Searching for spoon
- 4. Searching for coffee
- 5. Getting coffee
- 6. Re-fill coffee box
- 7. Putting re-filled coffee box on shelf
- 8. Spilling coffee
- 9. Spoon is bad equipment
- 10. Wrong counting
- 11. Spoon into sink
- 12. Waiting without doing something
- 13. Searching for thermos (coffee can)
- 14. Discard redundant coffee
- 15. All coffee is redundant (unnecessary)

Waste category

- Transport
- Motion
- Motion
 - Motion
 - Transport
- 0 Motion
- Transport and inventory
- 🥝 Defect
- Excess processing
- 🧕 Defect
- 🕛 Motion
- 🕙 Waiting
- 1 Motion
 - Overproduction
 - Overproduction

Coffee Kaizen – Future State



Coffee Kaizen – Future State



How to use this example in your own setting?

Case study Clinical trial drugs dispensing process

Map the Value Stream

It's all about having the same picture



Map the Value Stream





Map the Value Stream

Map the Value Stream



Measure



Analyze and Improve





Spaghetti diagram - current state







Spaghetti diagram - future state





Visual management Check list





Pull: kanban system





Spaghetti diagram - future state





Implement

Monitor and improve : OBEYA Board – an example from a Danish context



OBEYA board meeting at the Hospital Pharmacy, Herlev Hospital, Capital Region of Denmark.











http://classes.sdc.wsu.edu/classes/cstm301/readings/who%20moved%20my%20cheese.pdf

Watch it here: https://www.youtube.com/watch?v=-JL0Xg6YTlk













Compliants The House of Influence Compounding of cytotoxics at Herlev Hospital								
1		Floor	Manufacturing	Conditions	Working environment	GMP	Culture	
Influence	Employees	Penthouse	LEAN-teams	 Union Representrative 	 SOPs Working environment Representative 	Batch journalsSOPs	Good teamwork Non-violent language	
	Management and employees	1. floor	 LEAN Work Schedules The daily structuring 	 Responsibilities Courses Working hours 	 Tværgående dokumenter i KFS SP (G03) Arbejdsmiljø- Udvalget (AmiU) Arbejdsmiljø- gruppe (AmiG) 	GMP project	 Action plans Working environment actions plans 	
	Management	Ground-floor		 Salaries Dismissals Recuitments Breaks 	 Working environmental SOPs 	Transversale SOPs	 Mission Vision Values Policies KPIs 	
	Authorities/Legal	Foundation	Agreements: • Pre-orders Before 2 pm ≥ 90% • Same day ≤1½ time ≥ 75% • LEAN!	 Salaries Contracts Job descriptions Vacation IT 	 Working environmental proclamations and resolutions 	Resolutions EU-GMP National SOPs	 Policies Third yearly survey on working environment 	







C. Consolidation



Anchoring the mindset of improvement in the CULTURE



C. Consolidation



8. Make it stick

Anchoring the mindset of improvement in the CULTURE



C. Consolidation

Anchoring the mindset of improvement in the CULTURE



C. Consolidation



Anchoring the mindset of improvement in the CULTURE



Interactive query True or false

Please give your answers to the questions

- 1. Lean is about working faster
- 2. There are 6 different types of waste in Lean

Interactive query Answers

1. Lean is about working faster

– FALSE -Don't work harder (or faster); work smarter

2. There are 6 different types of waste in Lean

– FALSE – There are (min.) 8 types of waste

The End



Extra slides

What is Lean?

Lean is not...

- · About eliminating jobs
- Forcing people to work harder
- Speeding up the work
- Only for car industy
- Only common sense

Lean is...

- A mangement methodology AND philosophy
- Focusing on value from the customer's perspective
- Doing more by better utilizing existing resources
- The continuous pursuit of the perfect process through waste elimination
- Empowering employees by allowing them to make changes





"You're time is limited so don't waste it living someone else's life. Don't be trapped by dogma which is living with the result of other people's thinking. Don't let the noise of others' opinions drown out your own inner voice. Stay hungry, stay foolish."

Steve Jobs, Stanford address, 2005.