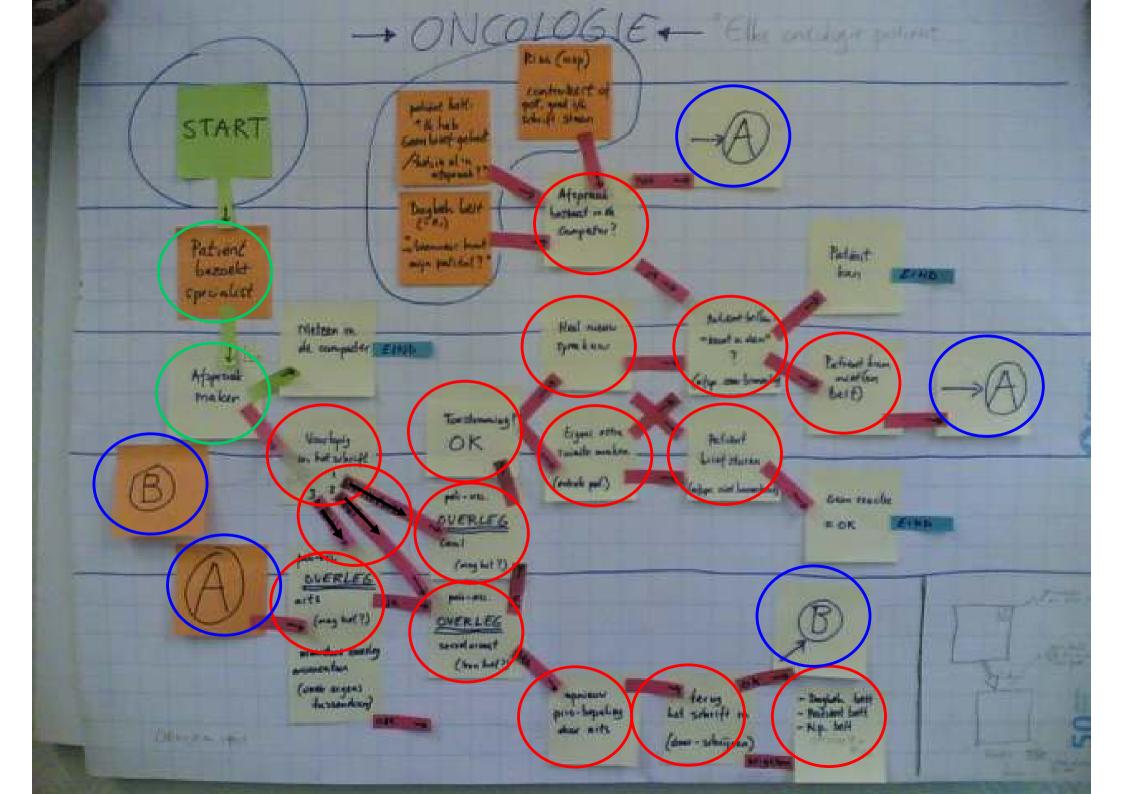




# Toyota principles in hospitals new directions in quality management?

Marc Rouppe van der Voort Manager Innovation St. Elisabeth Hospital Tilburg May 12, 2011







#### St. Elisabeth Hospital

500.000 patiënt care processes 3.000 Employees 550 beds 170 specialists, 70 residents



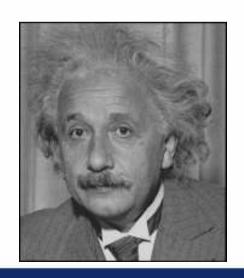




#### **Innovation**

"You cannot solve a problem with the same thinking that created the problem"

Albert Einstein









#### Waar lopen wij tegen aan??

Nr	Meld- datum	Naam	Waar loop ik tegen aan?	Verbetervoorstel	Actie / door wie?	EMD	
1	9/10	Sjannie	2 × SEH-bezoek + na 2º SEH oprame waar dan cp bocken Eerder niet bekend op poli	Reguls beoludeeun Stown in EMD/Lysten en Moostes	28 olthober evaluer canspreelipunt = luen	en o	
2	14/10	lwondy	Ned alle poduente worden oangevintet door aets by belogspraken	aansprehen pee ands	Marianne spreeld arcts beeder acta: allen	Qan.	
3	14/10	Wendy	Outle assistanten weden nicht altijd hie om te glocen met papieren by een C-BR-hewing				
4	14/10	marianne	dullide approven was in yel.	A's van goan madean			
5	14/10	Geert	Hae most Uk een TO-DO be and woodeden?		lutleg gegeven do Marianne aan G	eest	
6	19/10	Sjannie	Wie moet ToDo kriggen van ctsok shief afspraak is secr GRK wil graag zelf brief maken	overly bearing	anja		
7	14/6	mariamo	arts real degen rat I dan mag uni			AND DESCRIPTION OF THE PARTY OF	
8	14/10	wendy	peinter komer & en dienstelling by supprinten decepten steeds verheerde peintee			The state of the s	
9	14/10	Sjonnie	Dat ik niet op de P-schijf in de As -verbeterideeen ton schryven og het kon opsloan				
10							



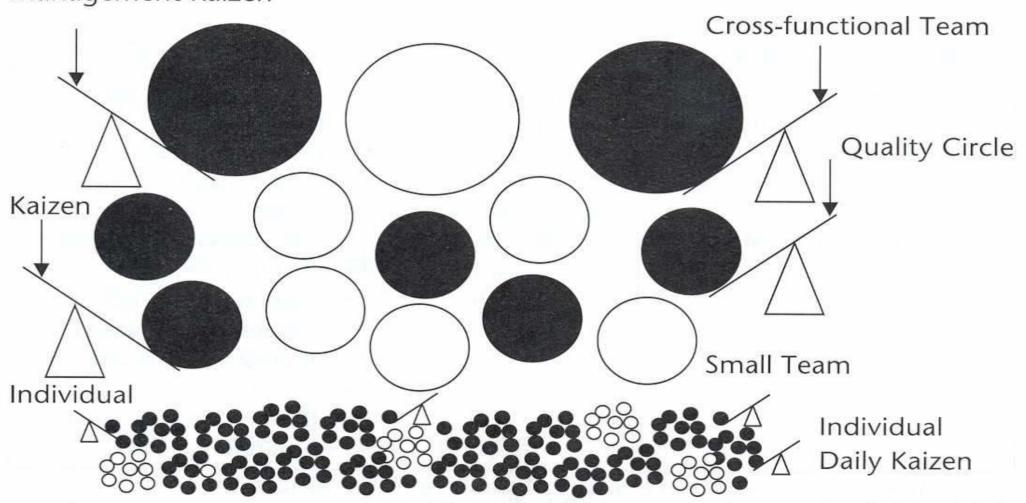






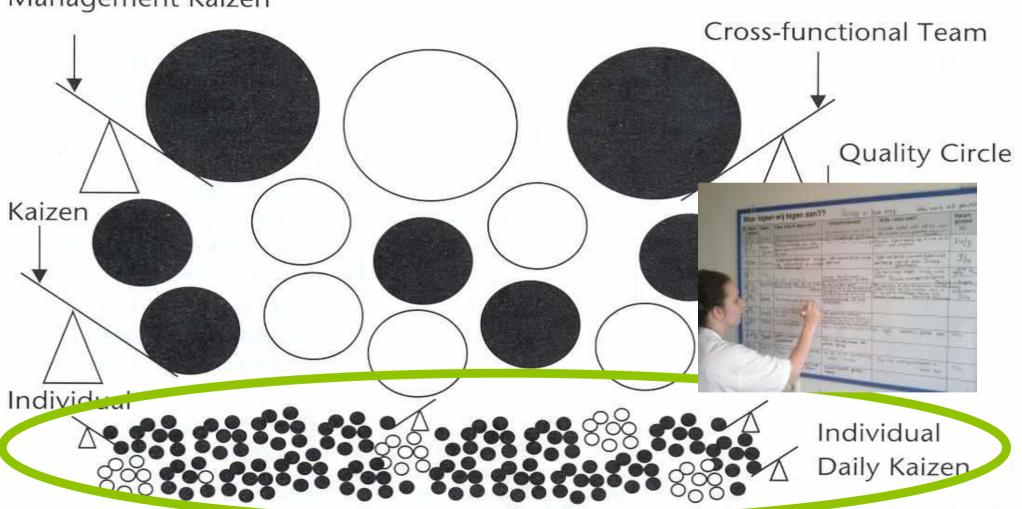


#### Levels of continuous improvement



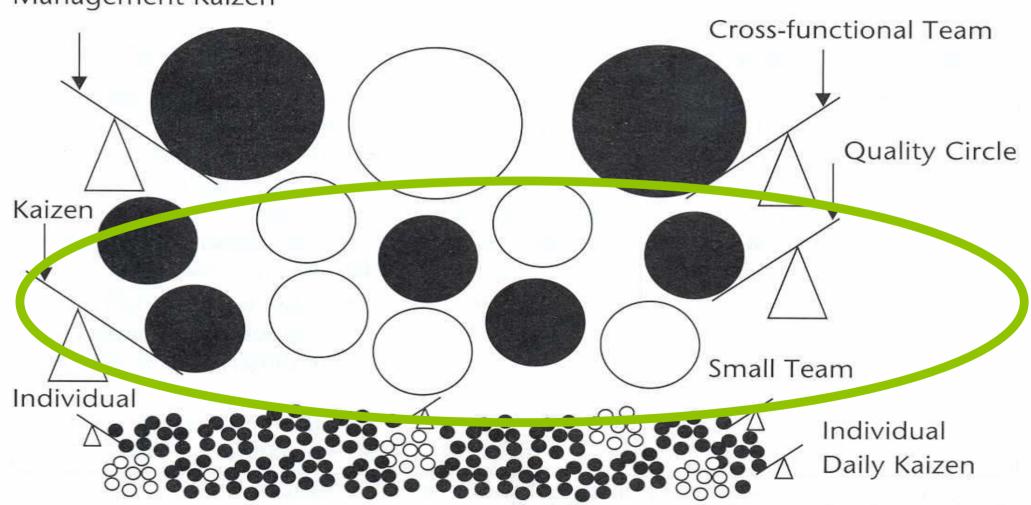


#### Daily improvement

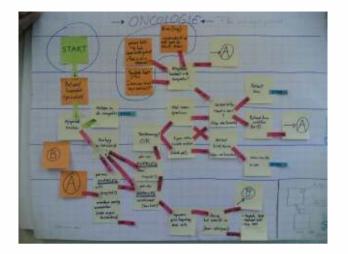




#### Small group activity







Processes

**VALUE** 

**REQUIRED WASTE** 

**WASTE** 

- 1. What is the care need of this patient?
- 2. What is of importance for this patient during the care process?

#### WAARDE

#### **VALUE**

WAARDE

or, An beleving

- Zongungag - VAN BELANG

- FUNCTIONGEL PROBLEM

- PIJIV = MOTIVATIE + COOPERATIE PATIENT

GENEZING L HENSTCLIAN DE FUNCTIE AFSARALEN' L P'J'INVR'J LOPTIMALISERING ~ VERTROUWEN ~ ONZELERHEID

- GOEDE COMMUNICATIE #STOR LUDORLITGANG ZIEN TÜDSPAD "HOE LANG GAAT HET OUREN?" => LOMST IS VAAL BEWUSTE WEUZE

LGOEDS SAMENWERLING

CHIRLING + THERAPEUT

zonginang VAN BELANG

VEILIGHTD - Oh vonserich'

· EFICIENCY => voor patient (20 min mojelyh borden uincentijo opnanenouch)

-BEDDEN PLANNING

- Duidelightleid / Zehertlein (PA PTN is sood voorbenuin

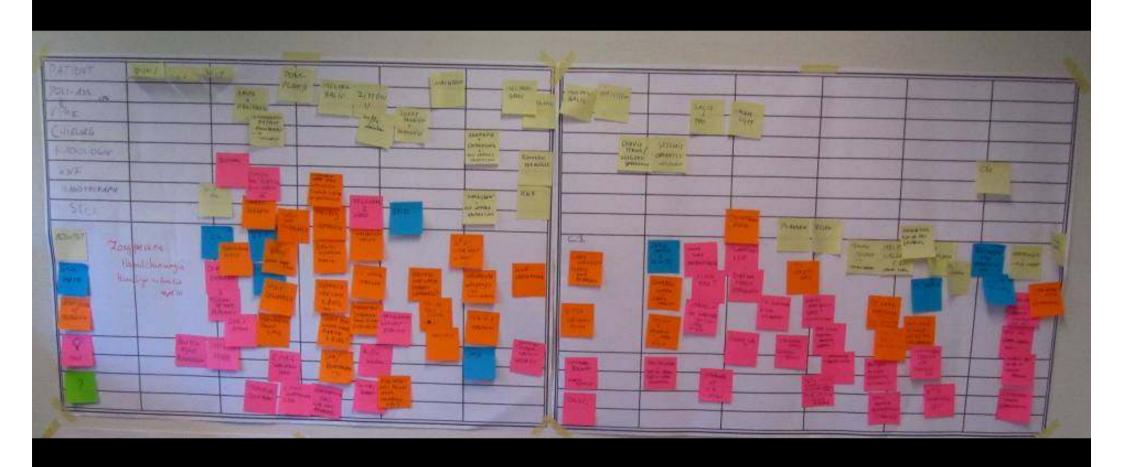
- A FSPRAAL - AFSPRAAL (SEEN WIJZIGINGEN) L AFHANGLISH VAN TUSSENSTAPPEN

20 Sephmatis Mossille Verdering wealthst

. INSPENDED DE LEGAMASTER WIJZGON IN LIGHT MAGIC CHART NIET PARTICHE - (-AFFRENCE)

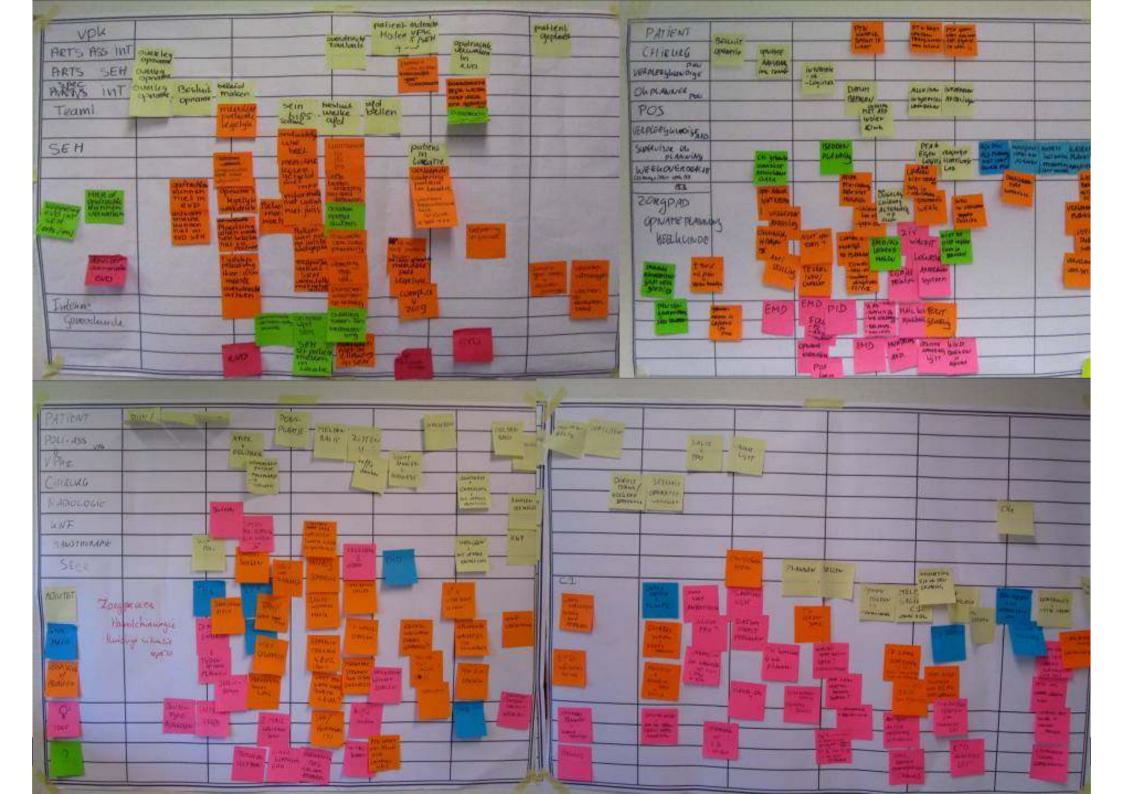
LLWALITEIT

#### **VALUE STREAM**



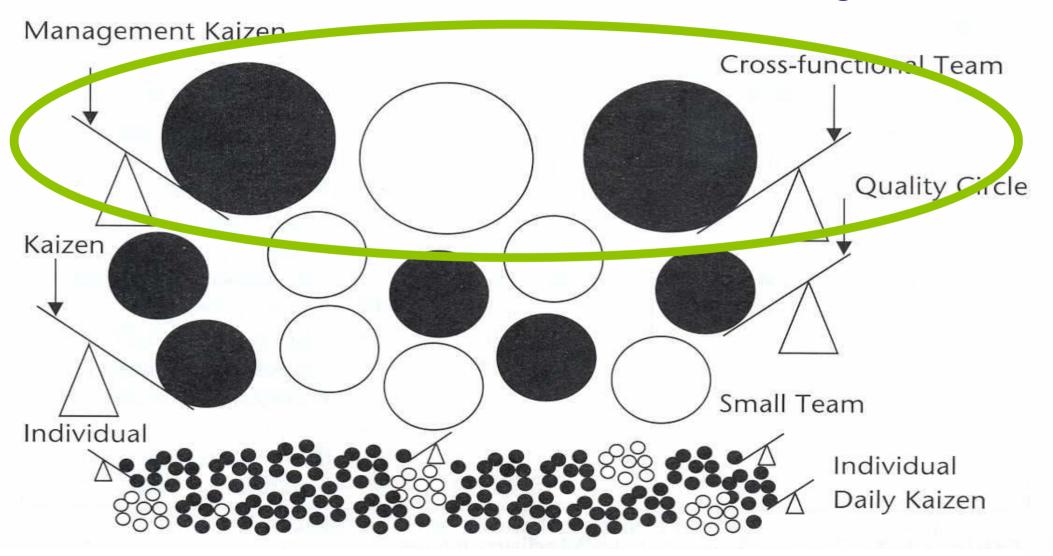
**VALUE** 

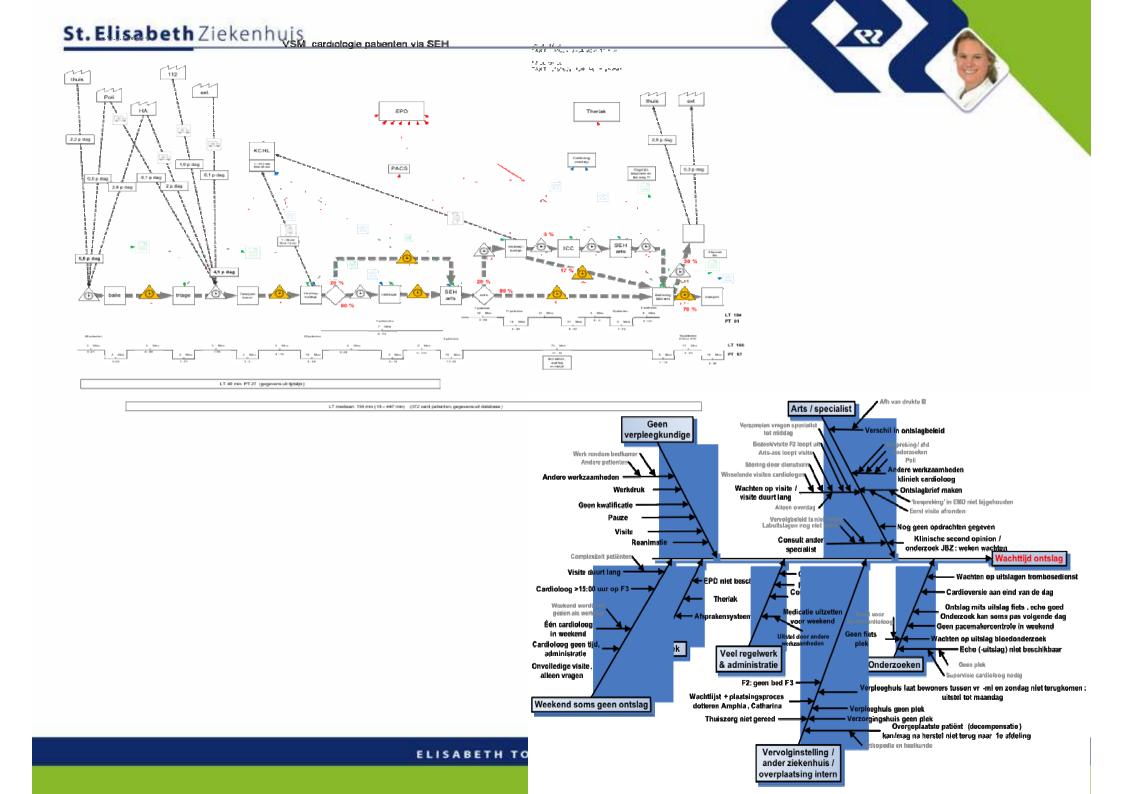
**WASTE** 





#### Sometimes fundamental redesings





# Filming a tube of blood

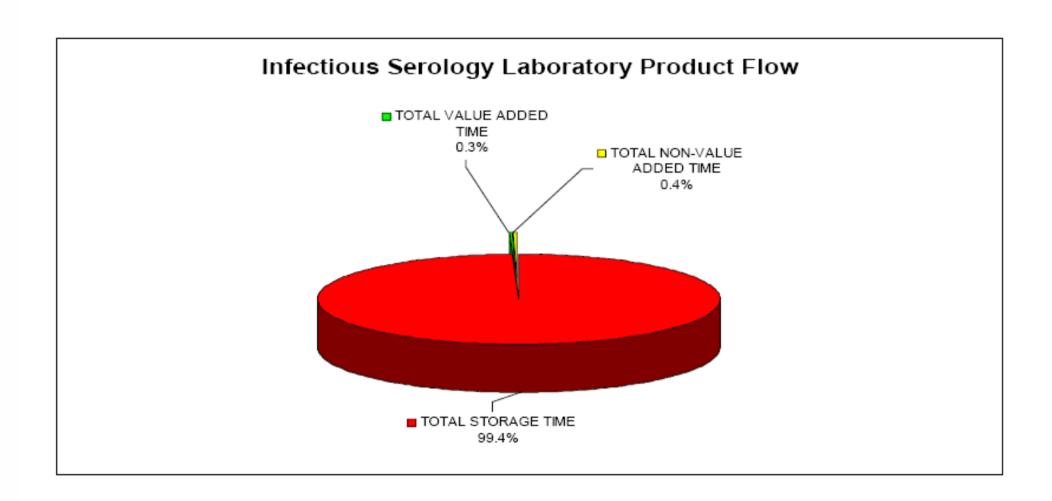




# (lots of) waiting...



# 99.4% waiting; 0.3% value

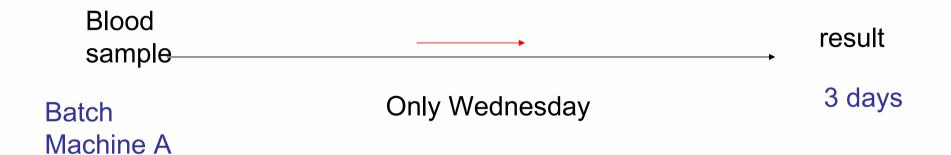




# Why? 'Batch' analyzer







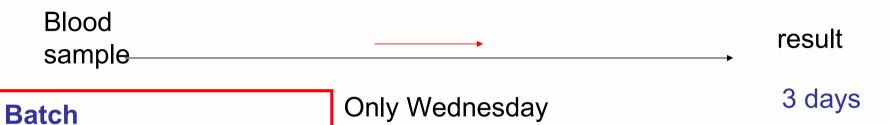
One-piece-flow

Blood
sample
Every day, continuously

result
3 hours

(random access)





**Surgery OR planning** 

**Outpatient schedules** 

Etc.

result One-piece-flow Blood sample 3 hours

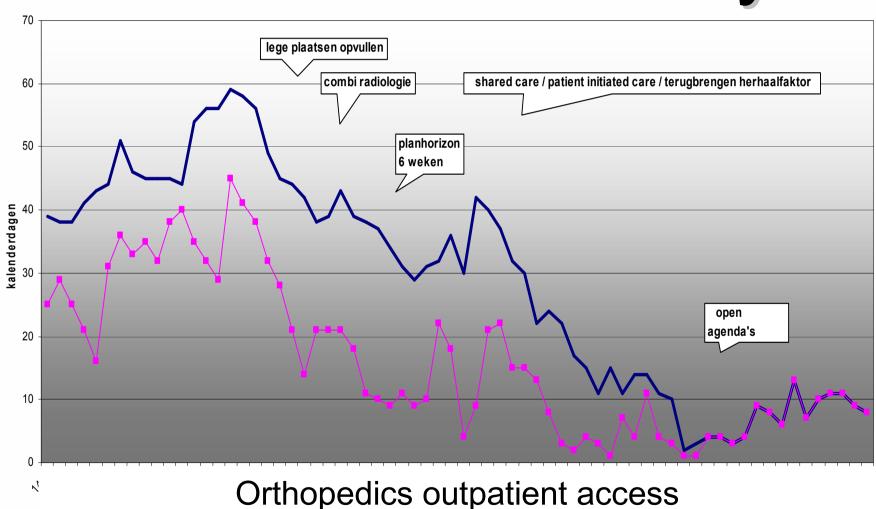
Every day, continuously

Machine B

(random access)

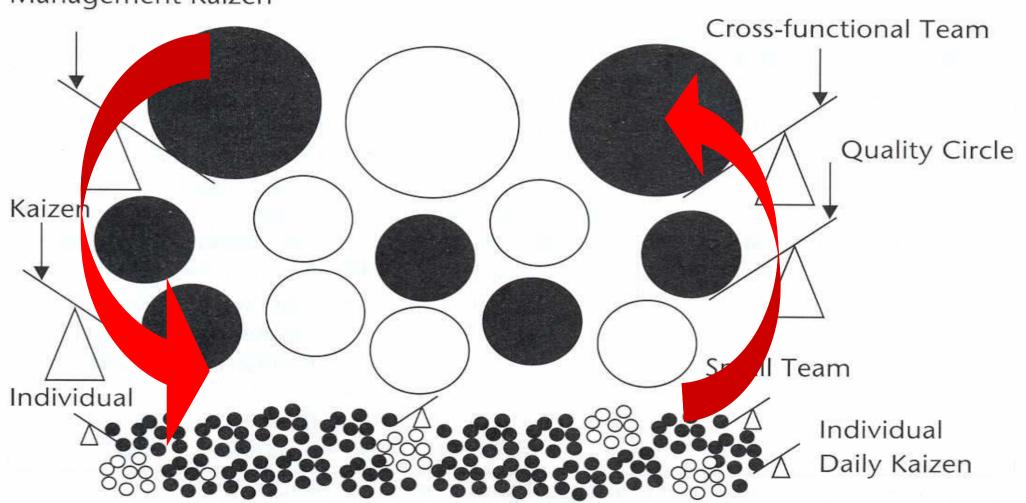


# Reduction of delays





#### Connecting the efforts (policy deployment)





# Improvement structure (v2.0)

- Day start
- Keek-on-the-week





# Day start (10 min)





# Keek-on-the-week (30 min)





- Day start
- Keek-on-the-week





- Day start
- Keek-on-the-week
- Improvement chart
- Flow charts



#### Thuiskom bord

A-kant Interne/MDL

Kamer	Naam Patient	voi	Aandachtspunten Ontslag	Status	Kar
15					2
16'	Me			100	2
162	Di			100	20
163	m		Me special	199	21
164	Me			1	2.5
17	mu -				25
172	Meur	1/3			
-	Dhr				26
17 4	Mu				26
-	Dh.				26
	nv -				26'
	Otr	25/1			27
	Ohr -	25/	Comment of the No.		27
	-	25/2			27
111	er.				27
					28

B-	kant	Inter	ne/	HOL
	_			

	B-kant Interne/MDL					
Kamer	Naam Patiënt	VOC	Aandachtspunten	Stotus		
22	Mw	1/3		8 20		
23	TL kamer					
241	ARTS-kamer			15		
242	ARTS-kamer			10		
251		-				
252	Me	A SE				
26'	dhe.	25/02	Hersteet Hunking	100		
262	Mev.			100		
263	Otr.	1				
264	Mw	25/2				
27 1	Dhr	25/2				
272				1000		
273 [	Ohc	2/3		-		
274 1	Dhr.	1				
28 [	Ohr. (	1/4		100		
	23 24' 24' 25' 25' 26' 26' 26' 26' 27' 27' 27' 27' 27' 27' 27' 27	22 Mw  23 TL kamer  24' ARTS-kamer  24' ARTS-kamer  25' Me  26' Me  26' Mer.  264 Mer.  264 Mw  27' Dhr.  27' Dhr.  27' Dhr.	22 Mw 1/3 23 TL karner 24' ARTS-kamer 24' ARTS-kamer 25' Me 25' Me 26' Olle. 25/62 26' Mar. 26' Dhr. 26' Dhr. 27' Dhr. 27' Dhr. 27' Dhr. 27' Dhr.	22   Mw   1/3   1/3   23   TL		





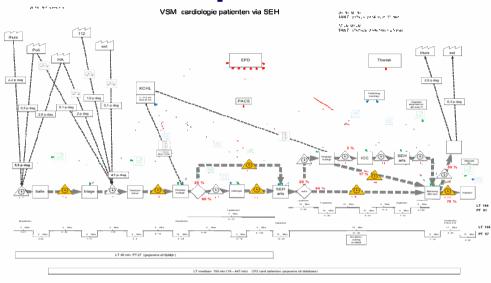


St. Elisabeth Ziekenhuis, lief en lean

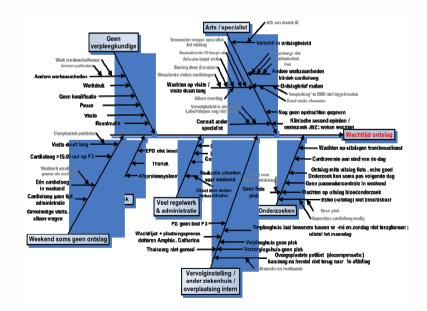


- Day start
- Keek-on-the-week
- Improvement chart
- Flow chart





A3 improvement method



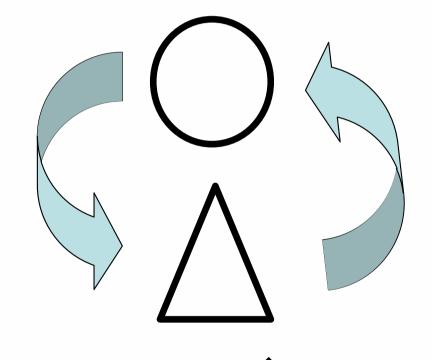


- Day start
- Keek-on-the-week
- Improvement chart
- Flow chart
- A3 improvement method
- Coaching



#### Be hard on the (learning) process, Be soft for the people

Out of comfort zone



Coach improvement process

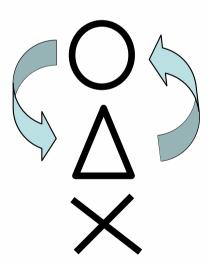


#### Out of comfort zone

"This is terrible, I hate it" (3x)

Doctor, Internal Medicine





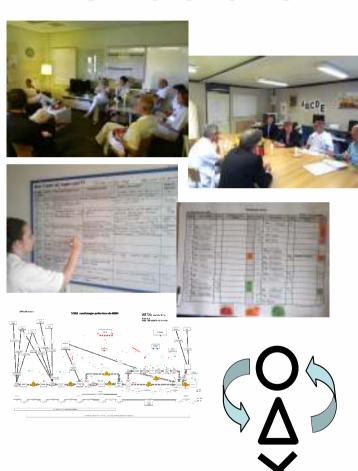


### Leadership responsibility

"Increase the problem solving capability of teams"



- Day start
- Keek-on-the-week
- Improvement chart
- Flow chart
- A3 improvement method
- Coaching





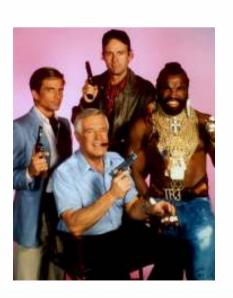
# Long term philosophy

dream



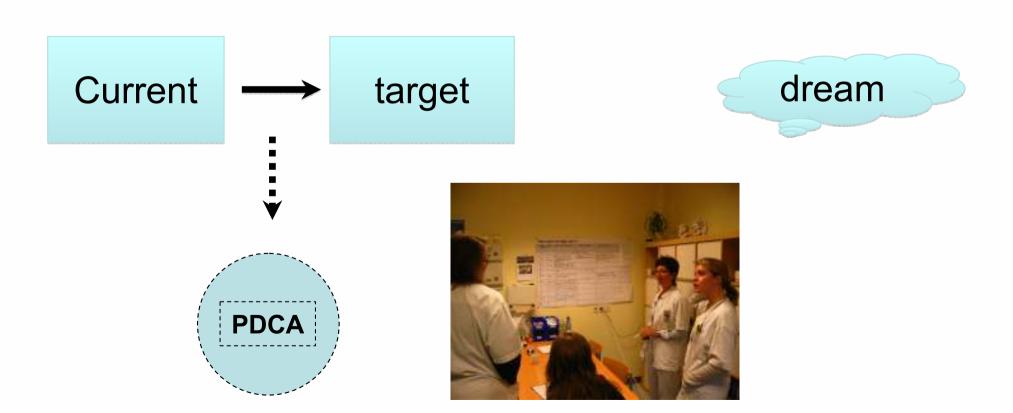
#### Elisabeth V-team

- 5 medical specialists
- 3 managers
- Thinktank on process innovation
- Long term philosophy (15 years)





# The art of making problems small





# Four main principles

long term philosophy

value

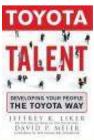
processes

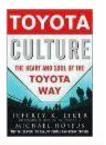
- flow

people

- respect
- continuous improvement experiment

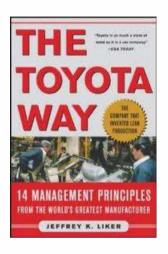


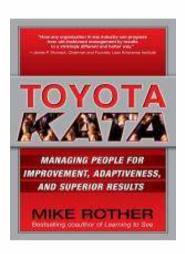


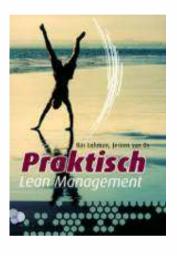




#### Sources









#### Articles and blog

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- Learning to lead at Toyota (HBR)
- •leandenkenindezorg.blogspot.com
- •leanthinkinginhealthcare.blogspot.com