

 **Sağlıkta
Ortak Çözüm
Toplantıları** 




**26-30
NİSAN 2017**
BELEK / ANTALYA

 **lean
health**
PORTUGAL

Lean Journey in Healthcare

GO AND SEE | ASK WHY | RESPECT PEOPLE

Rui CORTES

Ferkut OZDEMIR

MD, Murat YONGUÇ

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Belek ANTALYA

« Dünya Klasında Hastaneler için... »

grupas
gelişim 

Rui Cortes

- Marketing Bachelor
- Phd candidate in International Health Policies at Universidade Nova de Lisboa –
“Optimizing referral processes in chronic diseases using Lean”
- LeanSixSigma in Healthcare – Villanova University, USA
- Advanced Lean Training do Virginia Mason Institute, Seattle, USA
- Lean Coach Centro Hospitalar Lisboa Central – Portugal



One in ten patients in OECD countries is **unnecessarily harmed** at the point of care.

More than **10% of hospital expenditure is spent on correcting preventable medical mistakes** or infections that people catch in hospitals



- Patients arrive too early to the surgery room
- Near miss drug mistakes
- Operating plan just delivered 24 hours before surgery day, and a lot of cancellation
- Operational assistant in motion just to deliver papers
- Nurses duplicate work (taking notes in a paper and later introduce the information in a laptop)
- Healthcare mistakes
- Long length of stay
- Hospital acquired Infection rate
- Poor Schedule of surgery and diagnosis exams
- Unnecessary motion
- Unclear communication between medicine team

Imagine 99.9% quality...



Imagine **99.9%** quality...

- ❖ 15 defective surgeries/year
- ❖ 17 defective transfusions/year
- ❖ 1,000 defective medication administrations/year
- ❖ 182 wrong meals served/year
- ❖ 17,000 defective bills sent/year
- ❖ 125 defective paychecks/year



- Lean management in Health - early 2000's in the US and in the UK.
- Face the evolution of the healthcare system, where patients multiply and have heavier needs, whereas **the budgetary context gets more and more constraint**
- Looking for **“Zero Defect”** for patients and respect for people!

“Focusing on the highest quality and safety means pursuing zero defects in health care by removing waste and designing mistake-proofed processes. The tools of the Virginia Mason Production System support this work, but it is the culture that sustains it.”

Erica Cumbee, Transformation Sensei, Virginia Mason Institute

$$Q = A \times \frac{(O + S)}{W}$$

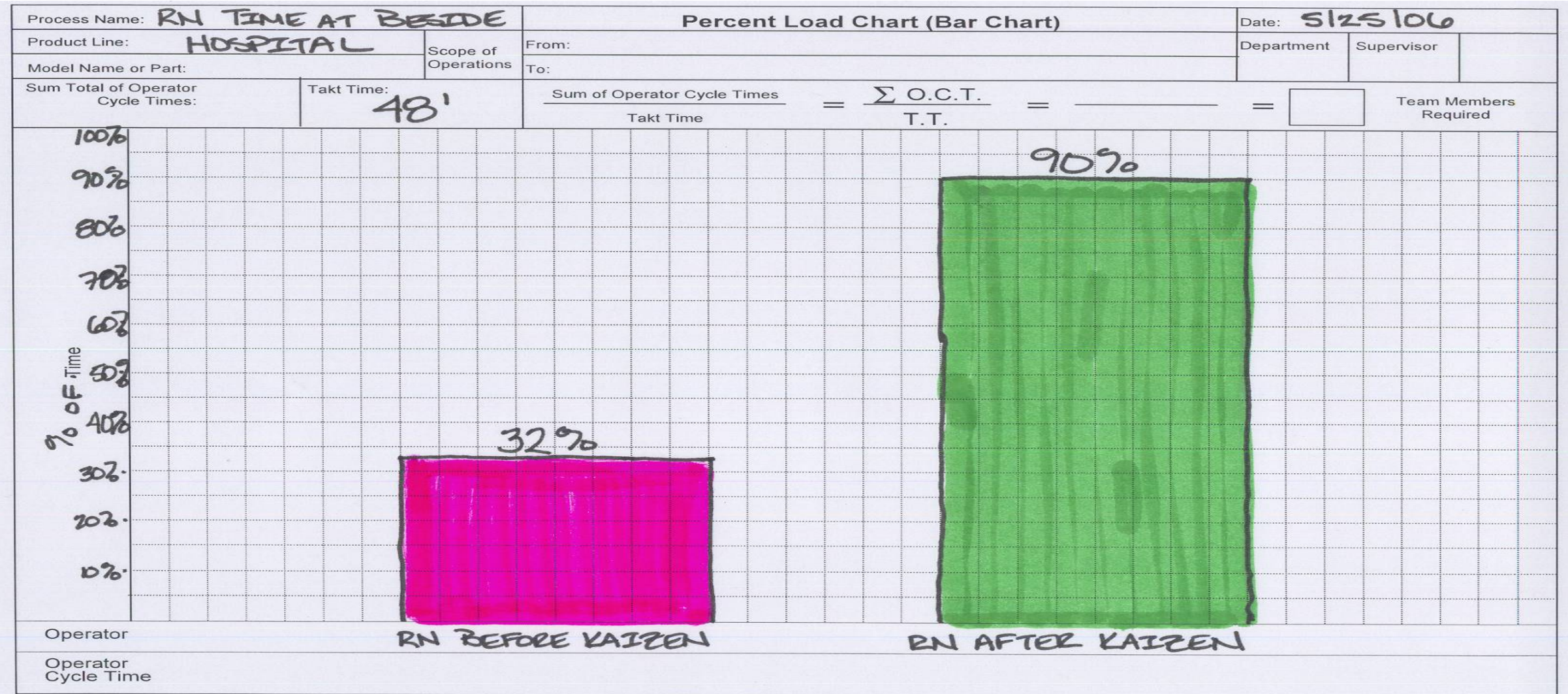
- Q : Quality
- A : Appropriateness
- O : Outcomes
- S : Service
- W : Waste

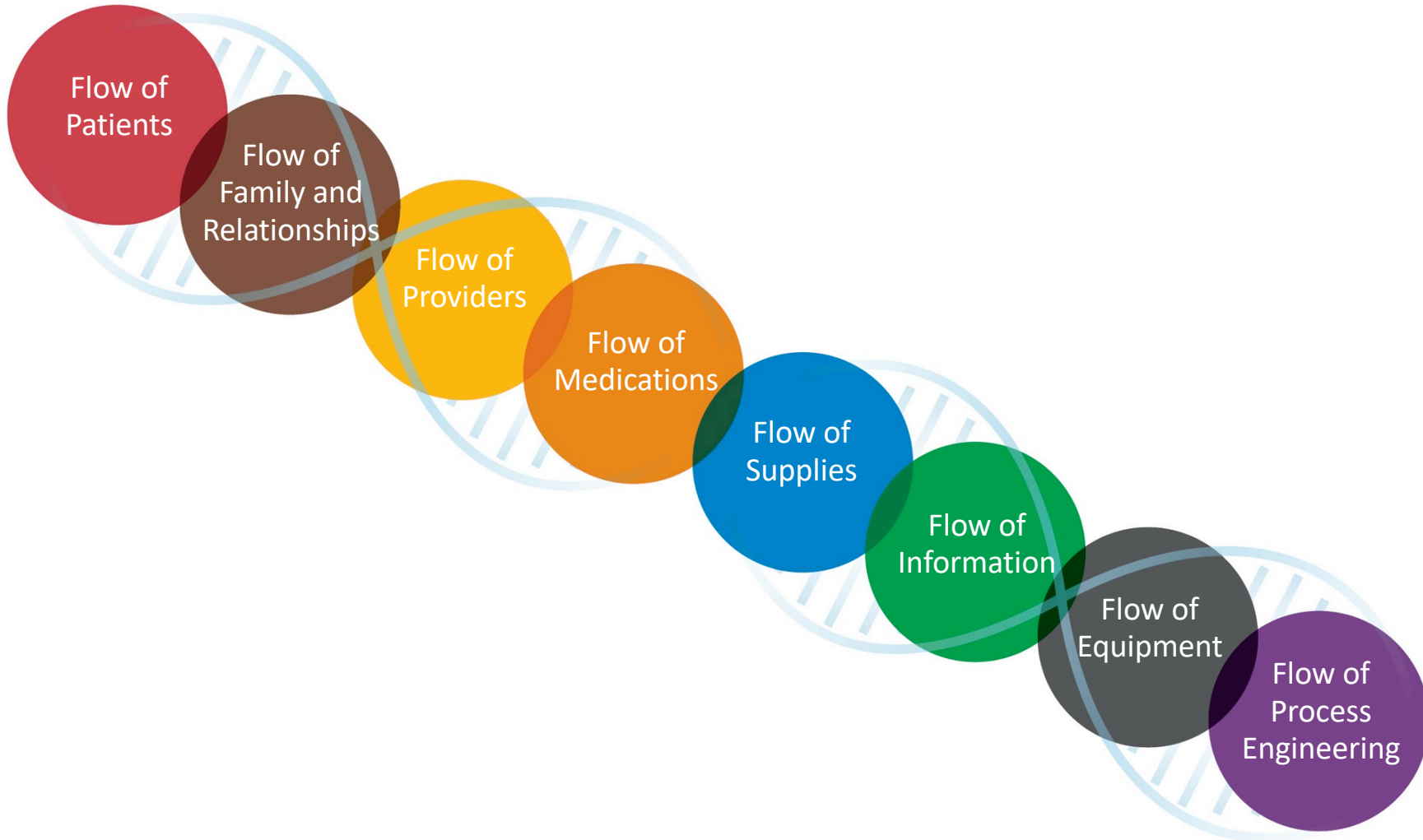
Waste:

Any task or item that does not add value from the perspective of the customer.

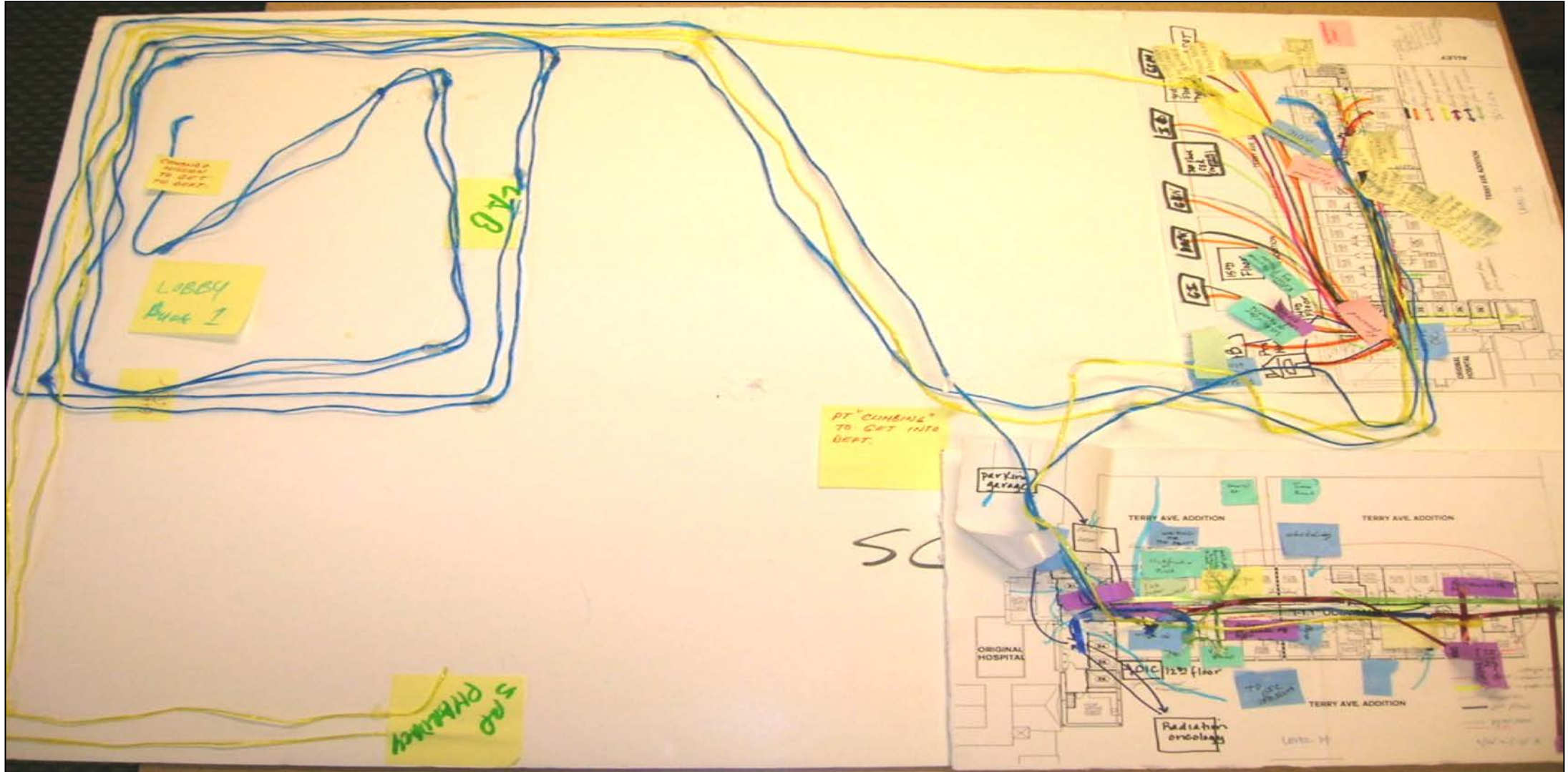


Nurse Time at Bedside





Flows of Oncology Care



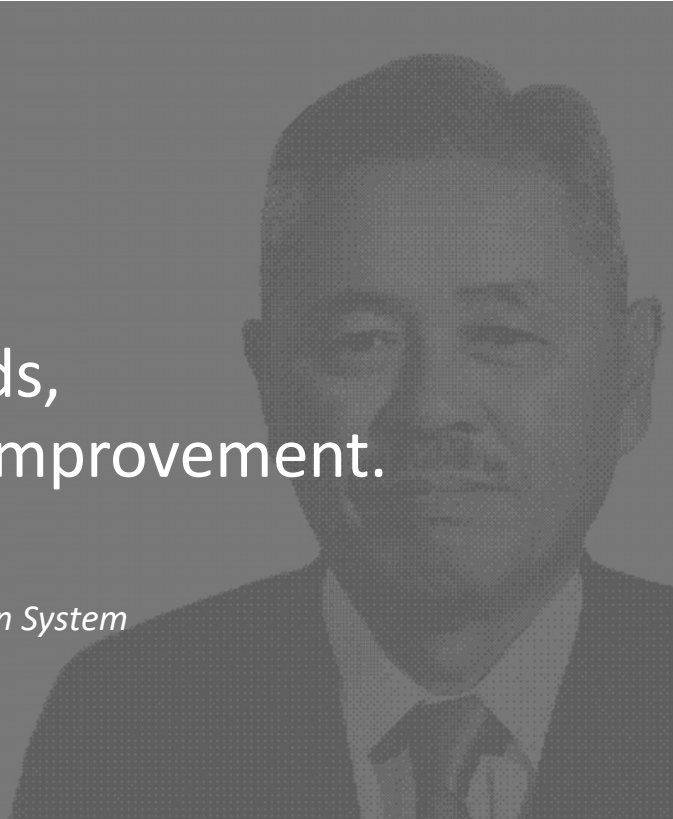
Results of Flow Improvements

Ted's Journey	Before	After	% Change
Lead time (arrival to start of treatment)	240 minutes	90 minutes	-63%
Non-Value added time	194 minutes	52 minutes	-73%
Distance traveled	222 meters	55 meters	-76%

Without standards,
there can be no improvement.

Taiichi Ohno

Founder of the Toyota Production System



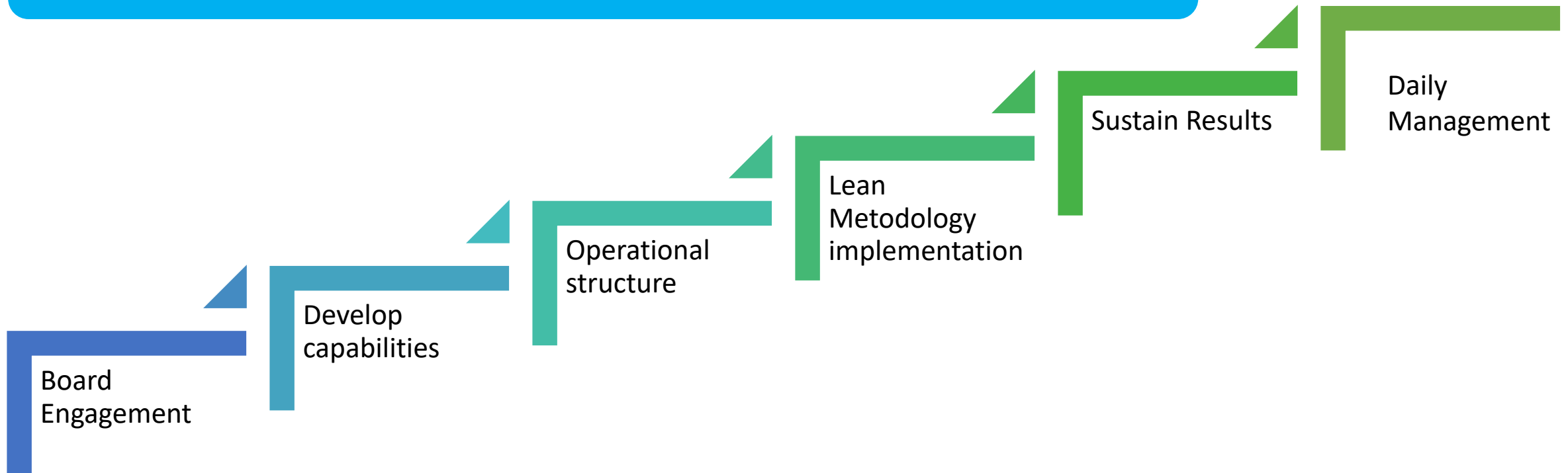
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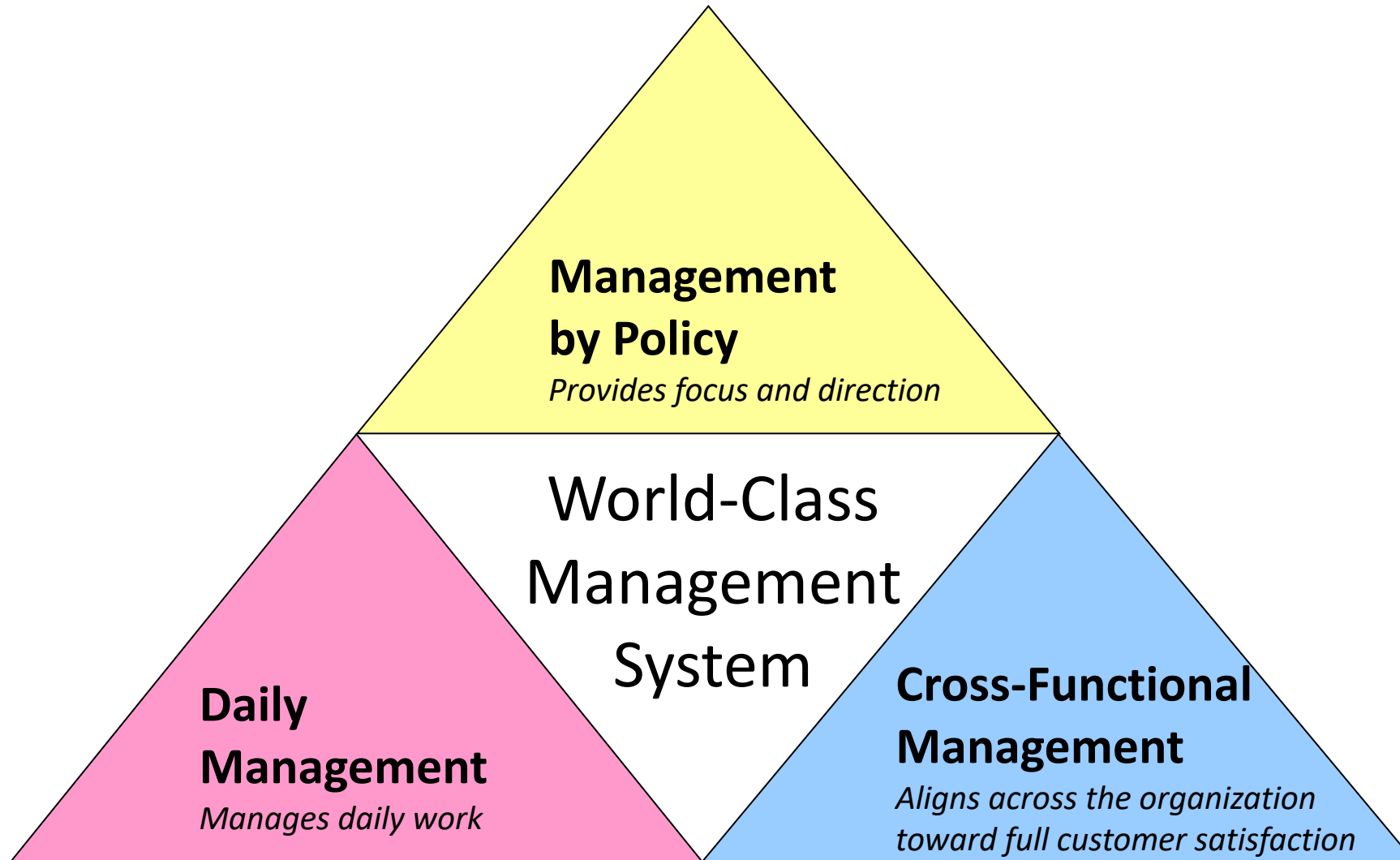
All five of us are very good at what we do, but we all do it differently. At least four of us must be doing it wrong.

”

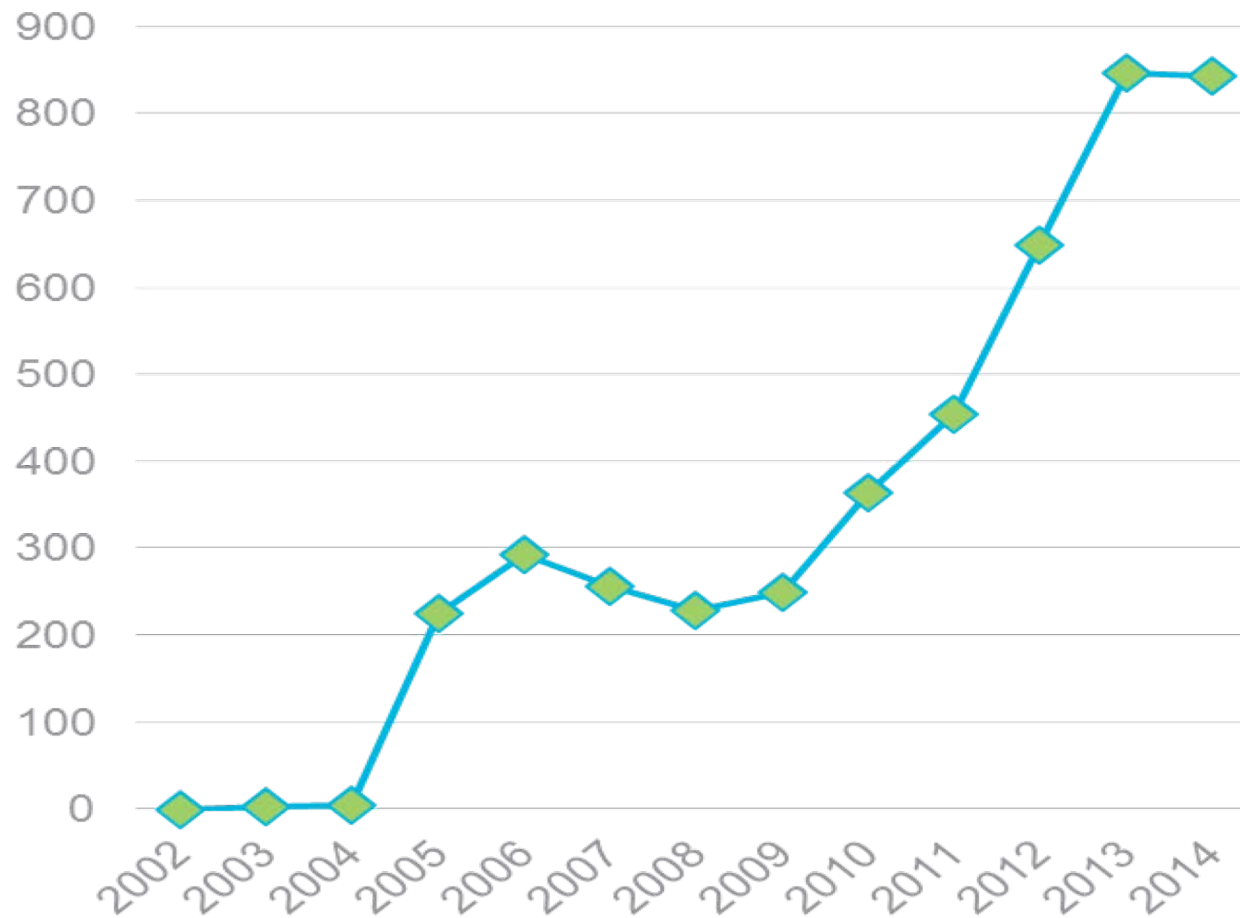
Cardiac surgeon, Mayo Clinic

Critical steps to develop a continuous improvement culture in a organization



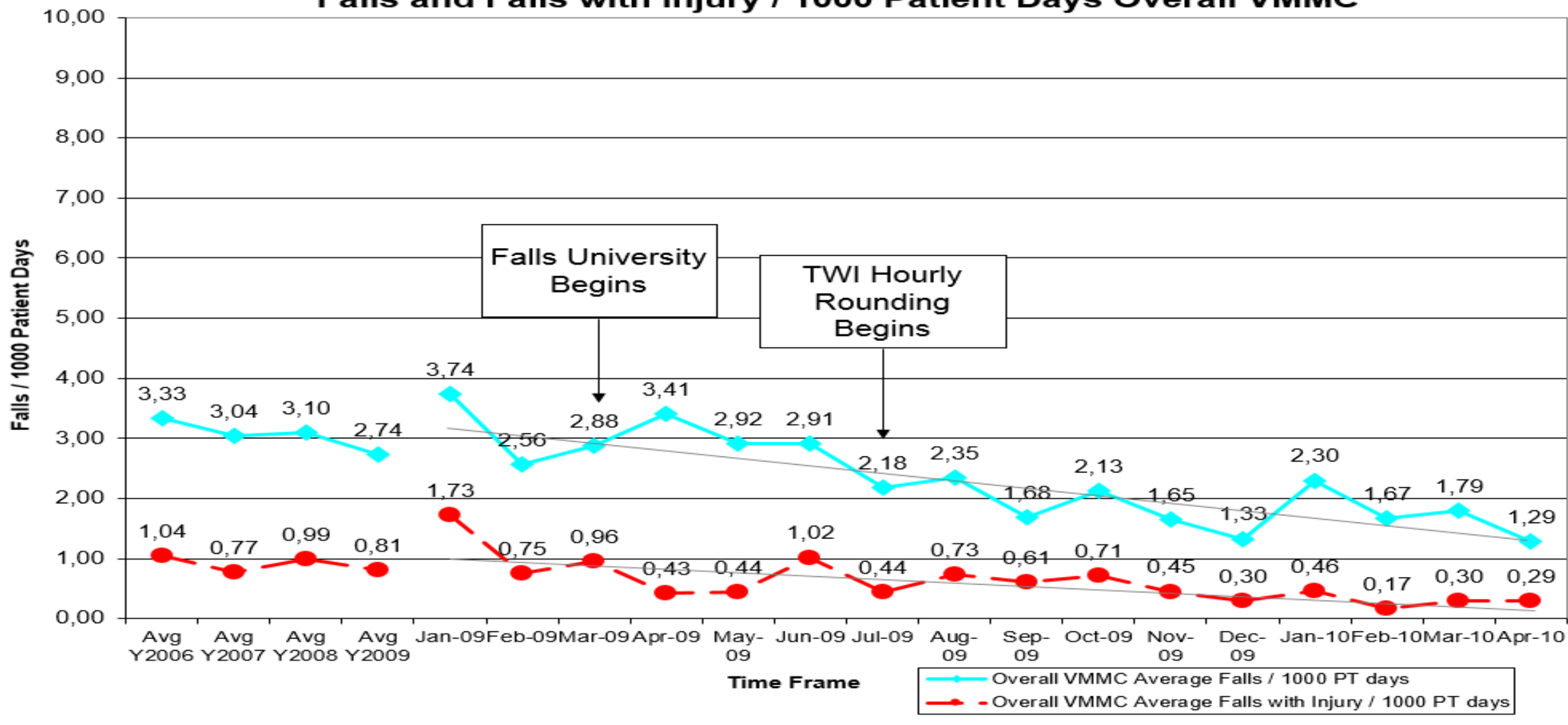


Number of PSAs Reported per Month



1. Staff report issues using the Patient Safety Alert System
2. Leadership investigates and resolves issues
3. Board Quality Committee review/ approve closure of high-severity issues

Falls and Falls with Injury / 1000 Patient Days Overall VMMC





5S Anesthesia Shadow Board



Before

After

Lean Healthcare all over the World

Where?



Virginia Mason Medical Center (Seattle),

Stocks decreased by 53% and response time by 65%.

Using Teamwork and Innovation

to Achieve Zero Preventable Hospital-Acquired VTE Events

Canada

Kingston General Hospital (Ontario)

USA

Thedacare (Wisconsin) reorganized their scheduling processes.

Wait times for consultation dropped from 14 weeks to 31 hours.

Mount Sinai, John Hopkins, Cleveland Hospital, Mayo Clinic....

France

Hopital Broussais (Paris) reshaped their patient, reduce waiting times were cut by more than 40%

Sweden, Danmark, Singapoure, Colombia,

Portuguese Lean Healthcare Cases

Inpatient Nutritional Risk Assessment



Just 10 nutritionists for 900 beds

After the process improvement **all the** patients are accessed by nurses

Only 55% of inpatients was assessed about nutritional risk

Nutritionists are called for risk patients



Purchase process



- Standard process among 6 pharmacies
- 5000 hours of administrative tasks by pharmaceuticals
- Reduce 5% of monthly stock value (600.000 €)

Pré-Operatory process



- Reduce 11% cancelations
- Pre-op nurse call
- Continuous flow of outpatient
- Parents receive text message along the surgery

Unitary dosis (pharmacy)



- Revertences per patient DrugTraceability



Surgery Room



- Patient waiting time in the transfer decrease from 30 minutes to maximum 15
- All patients be marked before go to the room

Pré-Operatory process



- Reduce 25% cancelations
- Pre-op nurse call
- 3000 yearly , nurse hours saved (eliminate a step)
- Parents receive text message along the surgery

Operating Plan



- Reduce last surgery cancelation, since the surgery time was added with anaesthesia time
- Schedule now is made with surgeon and anaesthetists



Lessons and learning

Key to observe processes with **patient eyes**

Leadership skills is key to engage staff and manage change management

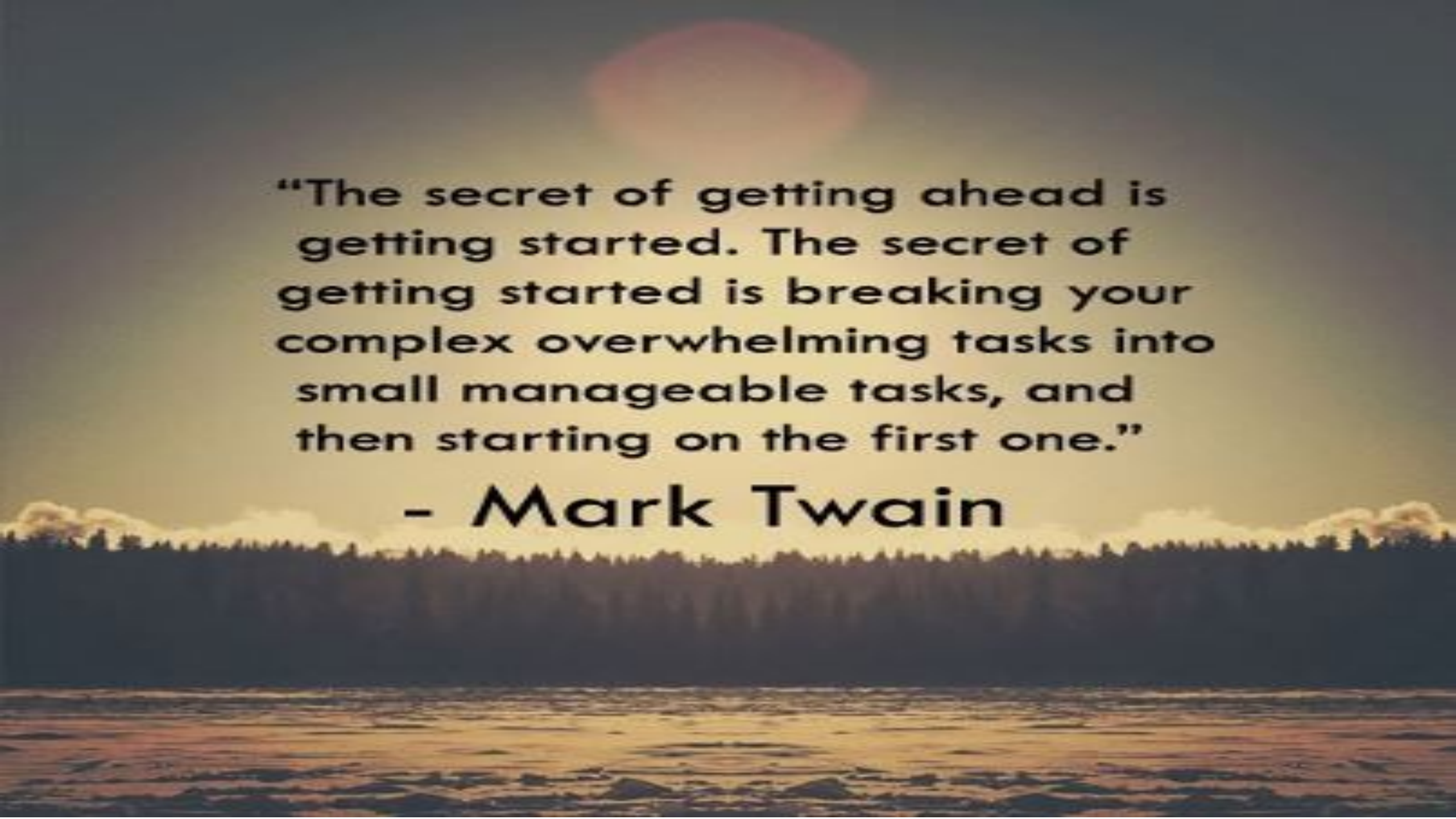
Quick win results assure staff enthusiasm to more complex measures

Resilience is a key factor

Lack of Lean knowledge

Resistance to change **“it was always like this”**

Hard to **implement daily management tools**

A sunset scene with a large, glowing sun in the upper center of the frame. The sky is a mix of orange, yellow, and blue. Below the sky is a dark silhouette of a forest. The foreground shows the surface of a body of water with gentle ripples, reflecting the colors of the sunset.

“The secret of getting ahead is getting started. The secret of getting started is breaking your complex overwhelming tasks into small manageable tasks, and then starting on the first one.”

- Mark Twain



Teşekkürler

OBRIGADO



grupas.com.tr

ferkut.ozdemir@grupas.com.tr

leanhealth.education

lean@leanhealth.education