



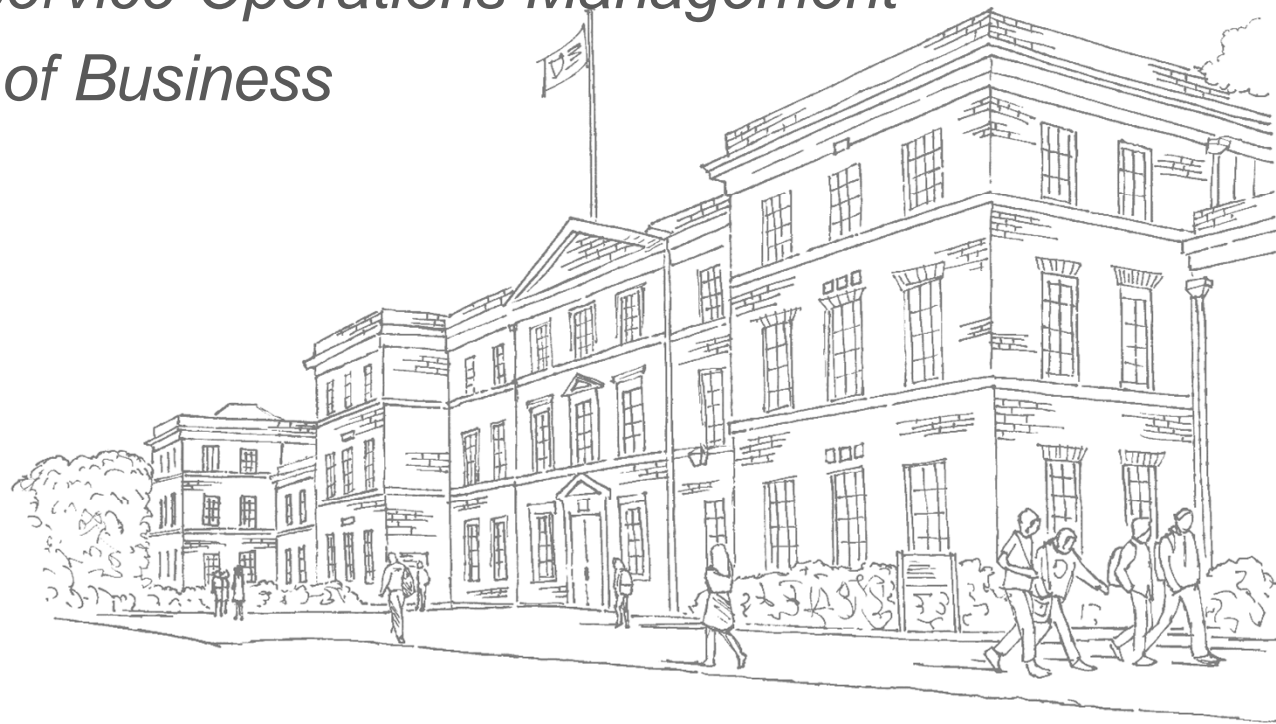
UNIVERSITY OF  
LEICESTER

# Is Lean a failed theory for public services?

Professor **Zoe Radnor**

*Professor of Service Operations Management*

*Dean, School of Business*



# Lean not just for the Private Sector...



Plus Local Government, Fire and Rescue Services.....

SCOTTISH EXECUTIVE  
Evaluation of the Lean  
Approach to Business  
Management and Its Use  
in the Public Sector

HM Revenue  
& Customs

Evaluation

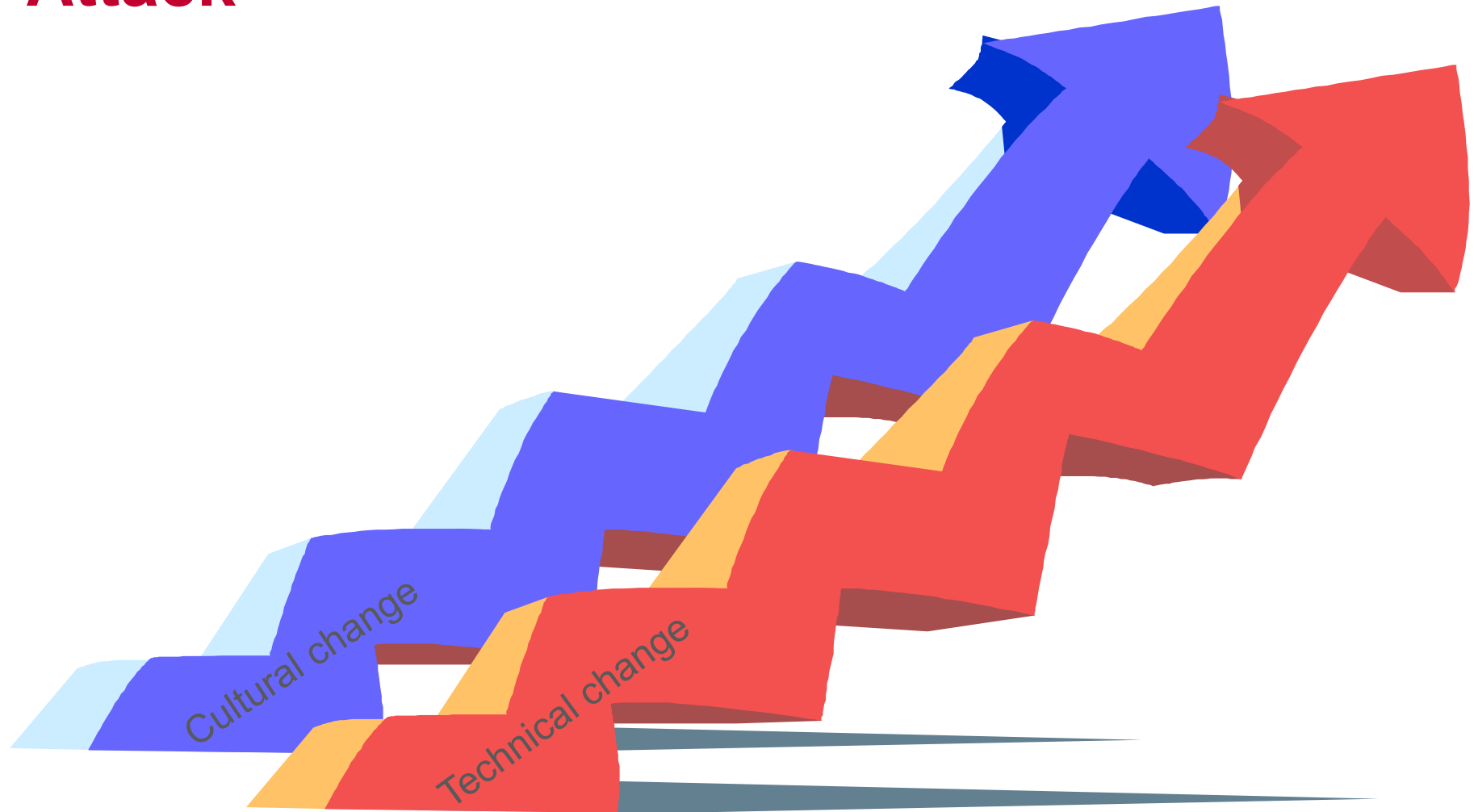
There is evidence of the benefits of Lean but need to be careful... as this may be due to poor service design and an over focus on efficiency.

Evaluation of the Lean Programme  
in HMCS  
Final Report

Review of Business  
Process Improvement  
Methodologies  
Public Services

Associate Professor (Reader) in Operations Management  
Wit Beck Business School, University of Warwick  
Dr Zoe B...  
May 2010

# Lean Transformation – A Two Pronged Attack



# The History of Lean...

- ⌘ **Taiichi Ohno**  
Vice President of Manufacturing,  
Toyota Motor Corporation
- ⌘ Toyota Production System
  - ⌘ 1950s, after WW2
  - ⌘ External factors; small market, culture and difficulties in equipment purchase.
  - ⌘ Inspired by USA supermarkets



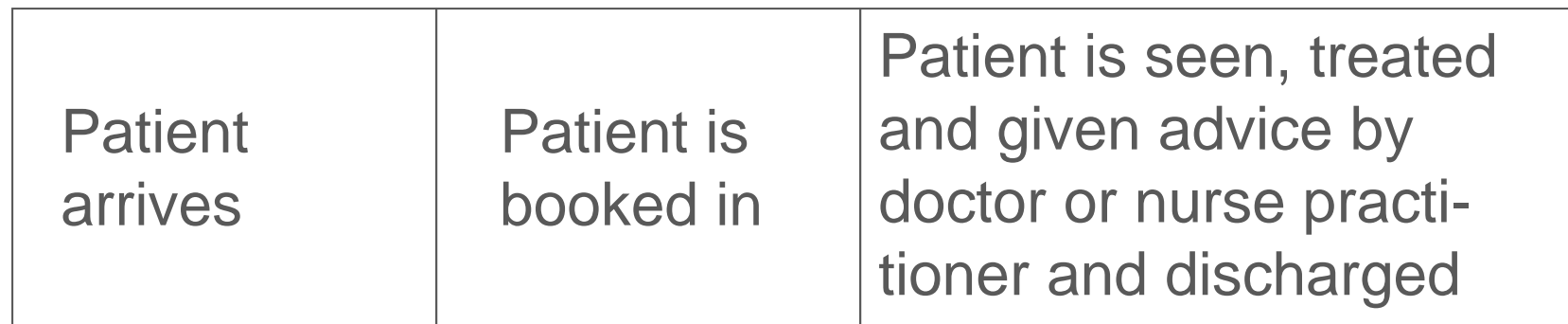
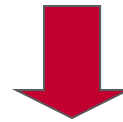
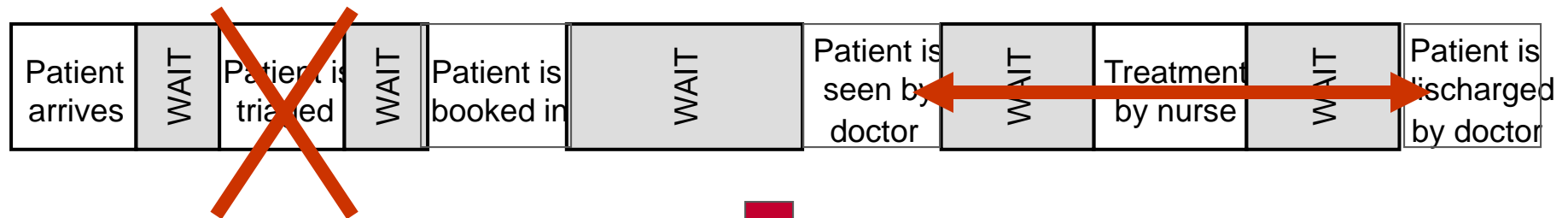
# Lean in Public Services: Power of 3

- 3 Principles:
  - Value, Flow and Reduction of Waste
- 3 Types of tools:
  - Assessment, Monitoring and Improvement
- 3 Stages of the Lean journey:
  - Engage, establish and embed

# Understand Value



# Flow: Understanding and Managing Demand Types and Patterns



**Failure Demand**



# Reduction of Waste



1

**Over-production** - 60% of computer generated post printed in the post room was discarded



2

**Waiting** - Post delivered by Royal Mail did not always arrive at 7:45 am



3

**Transport** - Post moved 500 metres before any value-added work was performed



7



4

**Over-processing** - Sorting post in 21 categories when 4/5 were enough



5

**Inventory** - 15+ days of work on shelves



6

**Rework** - Post transferred between offices; Frequent redirection due to mis-sorting

**Motion** - In post room the operator moved from desk to scales to measure a single item of post

# The 8<sup>th</sup> Waste ... Untapped human potential

- Not listening
- Not asking
- Not empowering
- Not doing anything with generated ideas



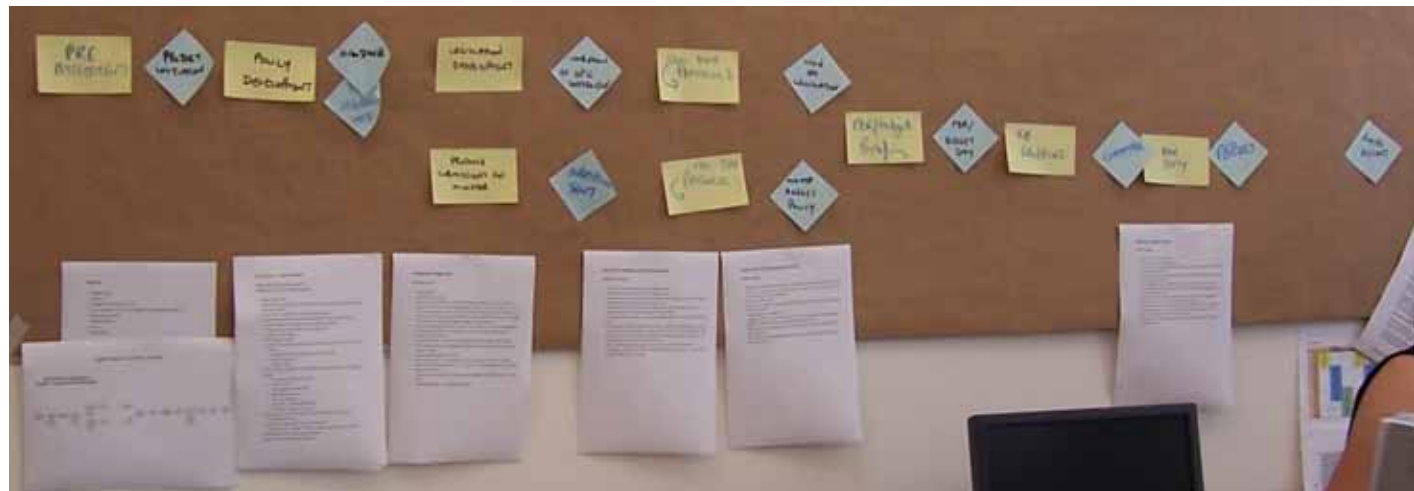
# Use of Tools and Techniques within Lean in Public Services

- Assessment:
  - To assess the processes at organisational level e.g. value stream mapping, process mapping
- Monitoring:
  - To measure and monitor the impact of the processes and their improvement e.g. control charts, visual management, benchmarking, work place audits
  - Measures in terms of quality, time, costs, satisfaction levels
- Improvement:
  - Tools implemented and used to support and improve processes e.g. RIEs, 5S, structured problem solving

# Assessment: Reviewing the work



From  
Current State  
to  
Future State



# Monitoring: Visual Management

Team Board



Team Communications Hub

Resource Planning



# Improvement: The Five-Step Kaizen Movement

**SEIRI**  
*Sort*

**SEITON**  
*Set in order*

**SEISO**  
*Sweep and Shine*

**SHITSUKE**  
*Standardise*

**SEIKETSU**  
*Sustain*

# Improvement: Structured and systematic use of problem-solving

## Day-to-day problem solving: 3Cs document

HM Revenue & Customs					
Problem Solving - 3Cs					
Concern	Cause	Countermeasure	Rep	On/Off	Take
					⊕
					⊕
					⊕
					⊕
					⊕
					⊕

These are some of the Problem Solving tools that are available, but there are many more



- 3 C's Document
- Brainstorming
- Kipling
- SMART
- Open Questions
- 5 Why's
- Timing Plan
- Fishbone Diagram
- Web Chart
- Like & Must
- Check Sheet
- Action Plan
- Pareto Analysis
- Interviewing

This is the basic method of Problem Solving used by teams to address day-to-day issues affecting performance. The process has 3 steps:

### Concern:

Define the Problem clearly – doing this is essential, as it will help to ensure that you don't try to put the whole world right in one go.

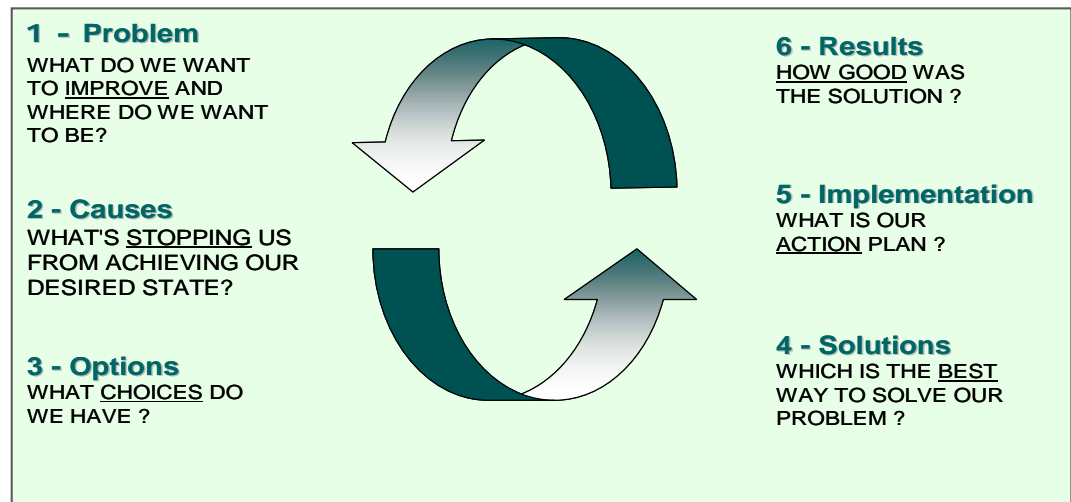
### Cause

Think carefully – try to get to the “*ROOT CAUSE*” of the problems, rather than just dealing with the symptoms.

### Countermeasures

Try to fix the problem once and for all, but if that's not possible, then do everything you can to mitigate the impact on the customer.

## More challenging problems: Structured Approach



# Challenges of Lean in Public Services

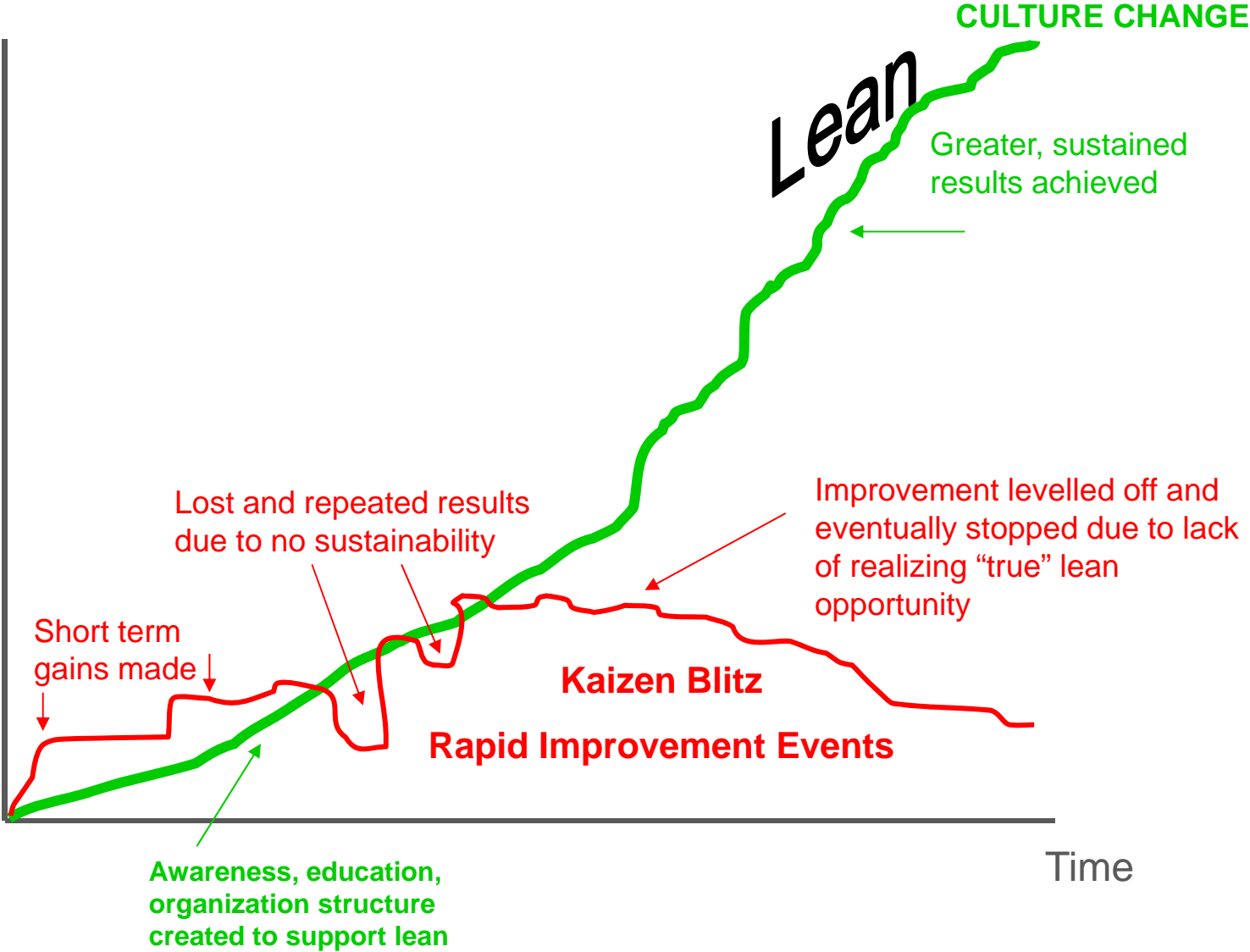
1. A focus and over reliance on lean workshops
2. A tool based approach to lean implementation
3. Impact of public sector culture and structures
4. Lack of focus on the customer (service user) and understanding of service process

***Lean is delivering efficiency but need to embed it within a service model to delivery effectiveness***



# Focus on Workshops and RIEs

Improvement Opportunity



Source: Chris Craycraft, Whirlpool

# Our Lean Tools Guarantee Success!



...but really, we all know it takes more than tools to make real change happen!

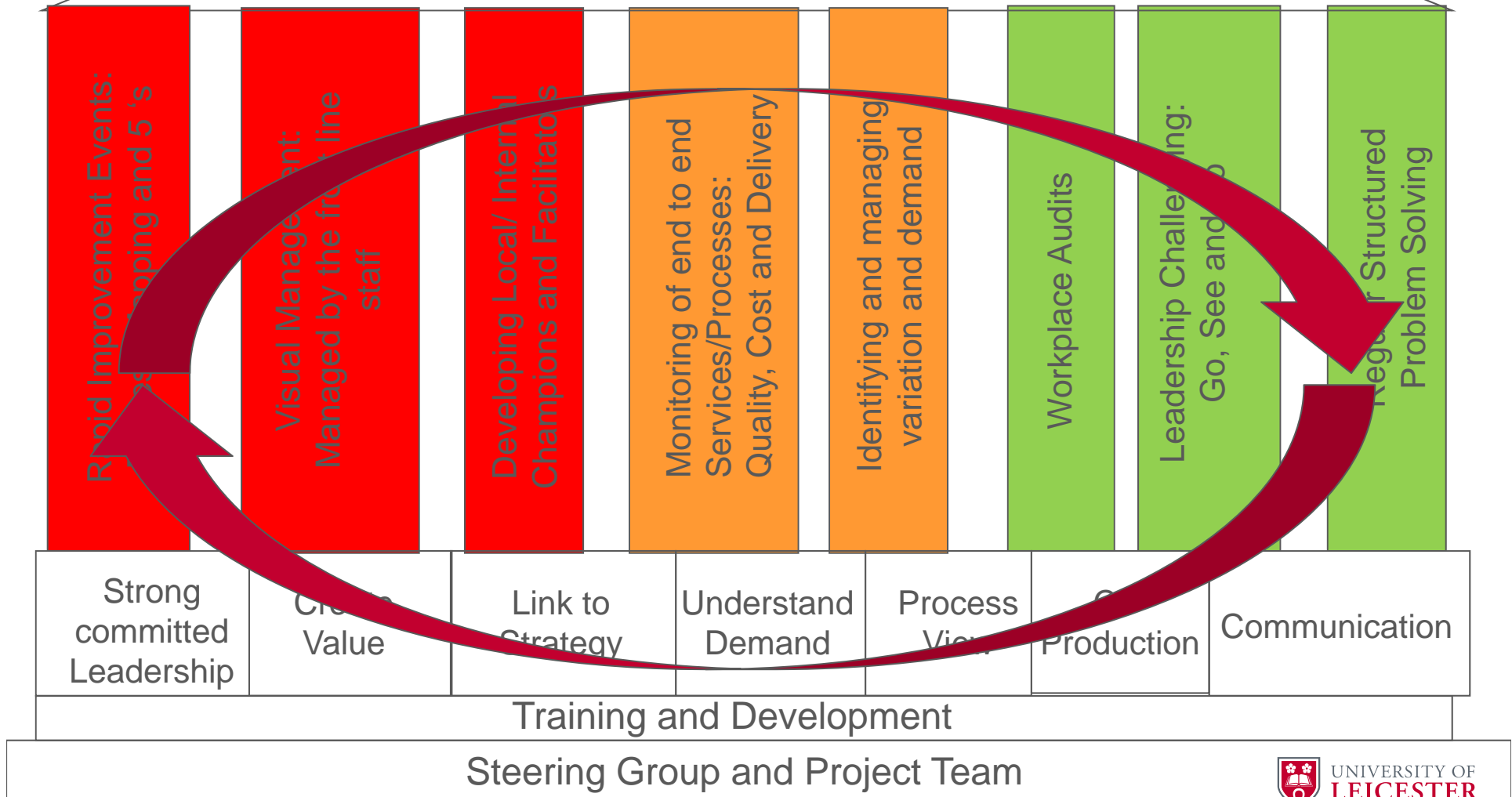


Just Six Weeks!

Instant Six Pack!

Whole system view

Embedded continuous improvement behaviours  
Stable robust efficient and effective processes



# Strong Committed Leadership

Driven by Department Heads or Lean enthusiasts.



*“To become a Lean school, the top management needs to be on board and drive it. This is not an add-on. It’s about getting the entire operation of the school adopt Lean philosophy and practice on a continuous basis.”* Dean of English Business School

*“I’d like to think that it [lean] is now the lens through which we run the hospital. I can’t think of a day when I’m not dealing with issues, when I’m not thinking about it in lean terms; whether that’s the challenges we’ve got of hitting the A&E target or money we need to save or mortality rate”* Chief Executive of a English Hospital

Go and See, Go and Do, Lead by example,  
Leading in a Lean Environment

# Create Value

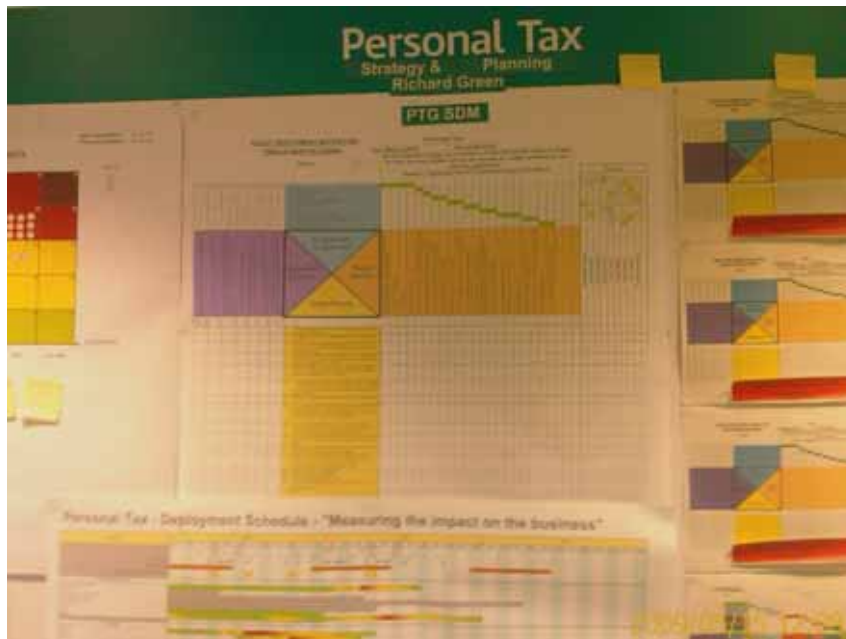
“Sometimes we forget there is a customer at the other end. I think Lean has highlighted that. Sometimes we are in danger of forgetting that the paper we are dealing with, actually represents the customer.”

“We think we understand what customers want but we really don't know. We haven't asked them. We think they want a faster service. We have improved the turnaround of resulting and post etc., so we assume they are more satisfied, but we don't really know for sure”

Emotional Mapping, Enacting or Creating rather than defining value

# Link to Strategy

Islands of Optimisation at Department, Business Unit or Ward level

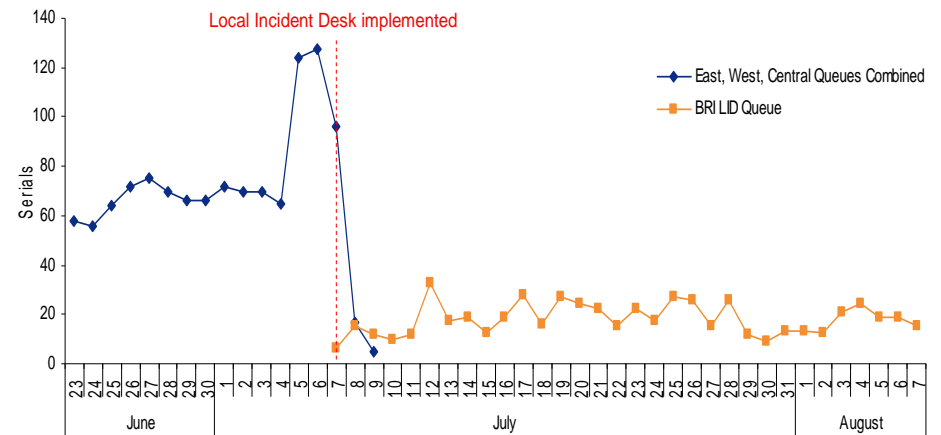


Policy Deployment, Balanced Scorecard, Benefits Realisation

# Understand Demand

Capacity not Demand Led, variable seen as the work not the staff

A handwritten spreadsheet on a grid background. The top section has several rows with colored headers (red, green, blue, yellow, purple) and numerical data. Below this, there are more rows with numerical data and some handwritten notes. The bottom section has a summary table with columns for 'TOTAL', 'BPSL', 'RSL', 'RDP', 'RIL', and 'RTP'. The values in these columns are: 10672, 6154, 2666, 9001, 1710, and 6300 respectively. There are also handwritten notes like '447 min' and '447 min' in red ink.



*"We are better able to plan resources to meet workload. Work is Runners, repeaters and Strangers; Capacity Planning for the Short and Medium Term; Systems Thinking*

# Process View

Task focused driven by performance measures and making the job easier



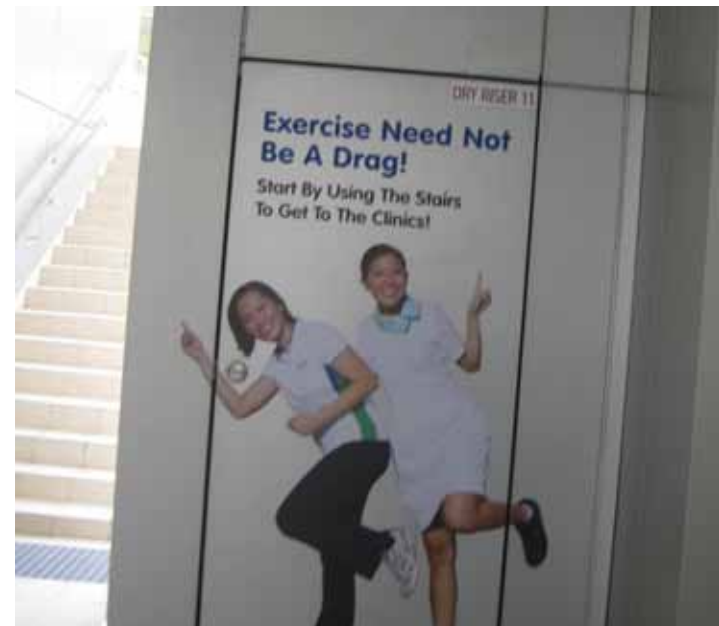
*“The understanding of process here has changed, especially for those who attended the Lean event. They were able to see how the work linked together across the court. But the other staff need to attend more Lean events to get a better understanding”*

End to end customer journey mapping, measures focused on outcomes, link to policy



# Co-Production

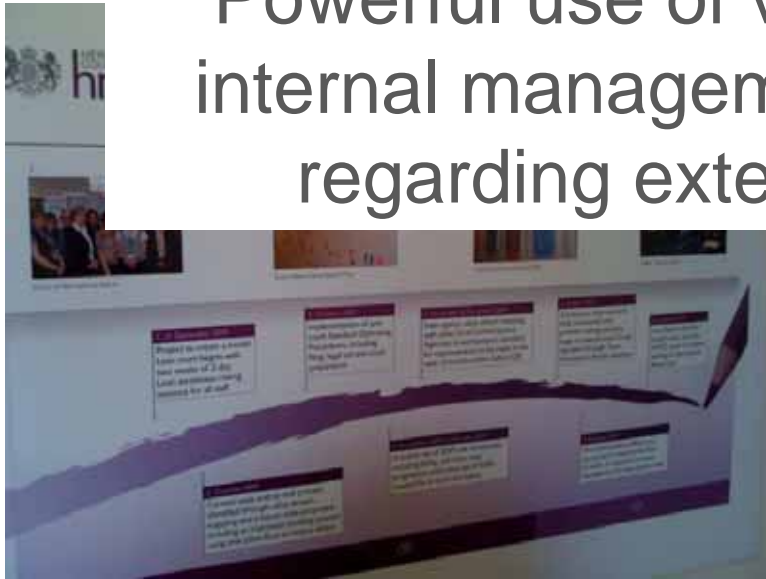
Lack of challenge to the established line of visibility and interaction between the service user and service provider



Service Blueprint: Changing the line of visibility between front and back office, letting the customer absorb variation and variety

# Communication

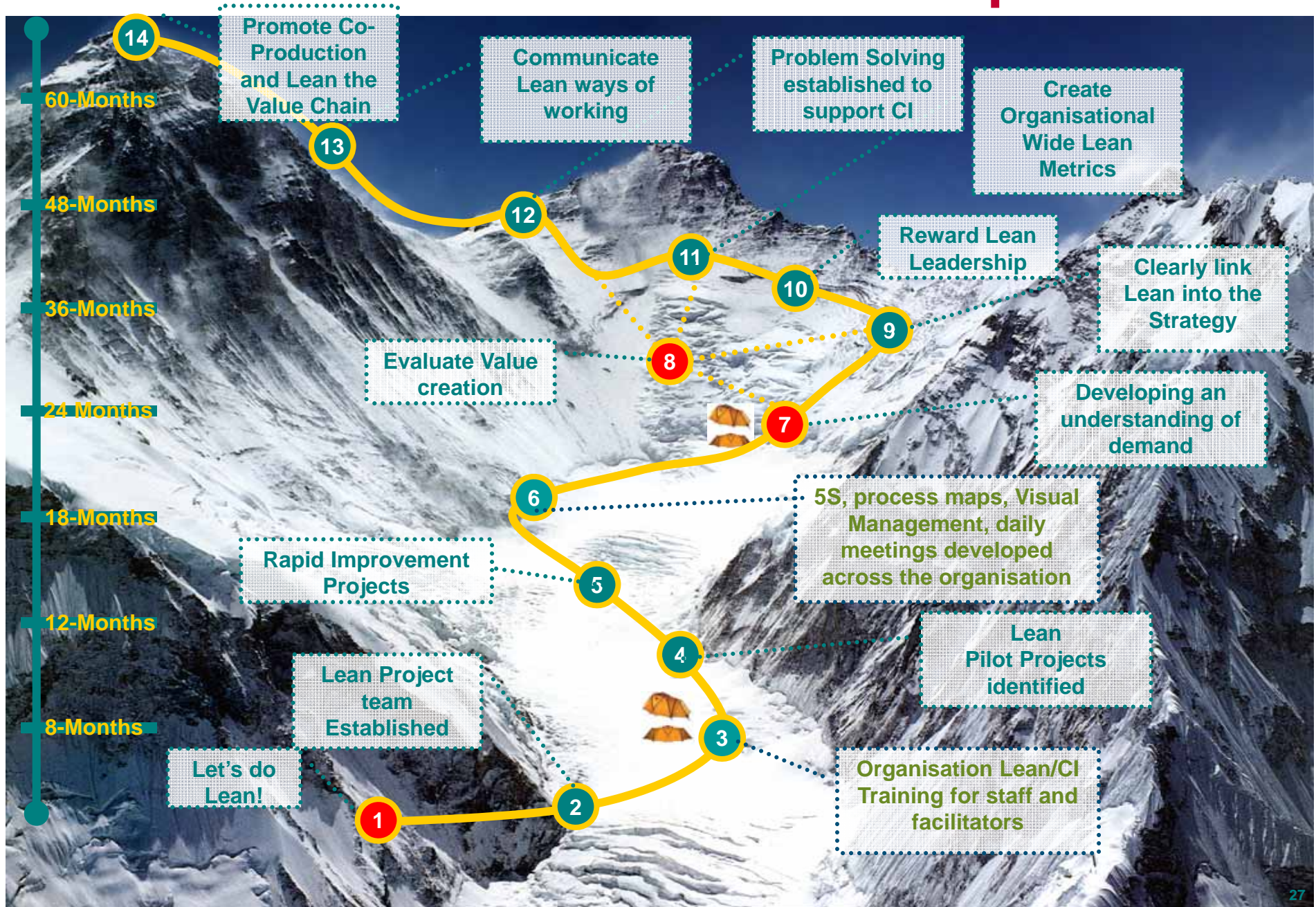
Powerful use of visual management for internal management but lack of change regarding external communication



*“The majority of staff like TIBs because they know what's going on. Managers have all the information about the skills that their teams have, but it's only by making them visible that staff realise they need further training”*

‘Marketing’: Communicating changes and impact of processes and practices

# Lean in the Public Sector Is An Expedition



# Lean in Public Services

## To develop a Public Service Dominant Logic

Need to consider Lean not as a quick fix but as a implementation philosophy.

“A series of RIEs does not Lean make!”

There is a need to develop a mindset within the organisation of process and customer view

“Public Service not Public Sector ethos”

Move thinking from task/ policy to value/ process.

Opportunity to redefine the end to end process

Need to develop an awareness of variation, demand and capacity relationships.

“See the variable as the work not the demand/ customer”

Create and focus on improving stable processes

Standardise the process not the outputs and outcomes

Need to ensure that there is strong and committed leadership and there is a link to strategy.

Not just about cost cutting and efficiency but about effectiveness

# Public Services are... Services



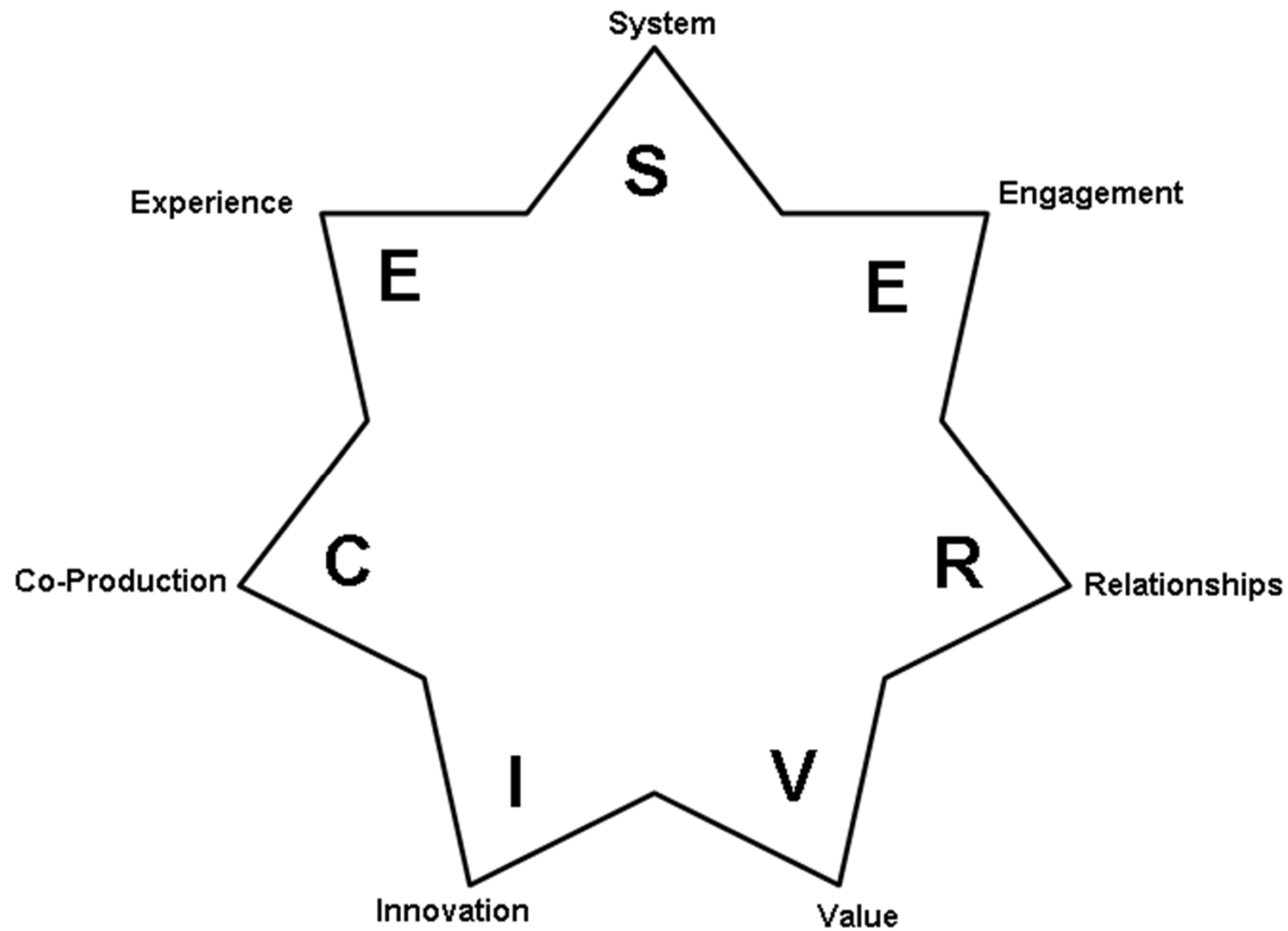
- Much of the public management and public services built on product and manufacturing logic.
- The majority of 'public goods' are in fact not 'public products' but rather 'public services'.
- Need to draw from service management logic to 'unpack', understand, manage and operationalise public services.
- Move from a public sector to public service ethos
- Public services need to embrace a (public) service dominant logic
- Service dominant logic argues placing the user at the heart of the service

# What is makes a Service a Service?

Three core characteristics of services which differentiate them from manufacturing goods :

1. Whilst a product is invariably concrete a service is intangible
  - Services can not be stored.
  - Public service delivery is *relational*.
  - **Intangibility**
2. There is a different production logic for manufactured products and for services.
  - For manufacturing production and consumption occur separately. With services production and consumption occur simultaneously.
  - Experience created at the 'moment of truth' – centrality of the service user.
  - **Inseparability**
3. The role of the end-user is qualitatively different for manufactured products and services
  - In manufacturing they are 'simply' purchasers and consumers. For services, the user is also a co-producer of the service.
  - Services offer a promise not an actuality
  - **Co-production**

# The Service Model





- **S** - *public service **system** as the unit of ar*
- **E** – ***embed** in genuine sustainability*
- **R** – *work at **relationships** as a key resources*
- **V** – *focus on creating external **value***
- **I** – ***Innovation** is essential for effectiveness*
- **C** – ***co-production** is the core of public services*
- **E** – *use knowledge to drive service **experience***