

### **LEAN IN NORGES BANK**

**CAMBRIDGE UNIVERSITY, SEPTEMBER 18<sup>TH</sup> 2019** 

Odd Sønning, Head of Continuous Improvement and Leadership Development



### **AGENDA**

- WHAT IS LEAN?
- LEAN IN NORGES BANK
- STRUCTURED PROBLEM SOLVING (A3)
- SUM UP



#### **OUR GOAL IS**

## CONTINUOUS IMPROVEMENT AS A NATURAL PART OF THE WORKING DAY



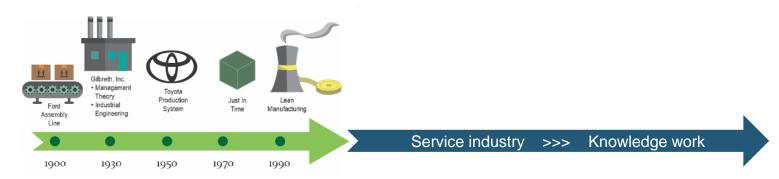
## CONTINUOUS IMPROVEMENT IS BETTER THAN DELAYED PERFECTION



### WHAT IS LEAN?



#### Where does «Lean» come from?





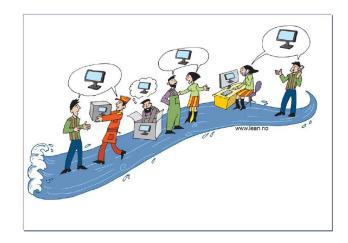
#### Taiichi Ohno

- Travelled to USA
- Mass production did not fit Japan
  - Marked size
  - Customers wanted variation
  - Lack of resources (people and material)
- «Discovered» the US Super Markeds «pull»-strategy for items and variation with focus on minimal «waste»
  - Deming thought Japanese leaders quality controll in the 50s
    - → «The West» studied what the japanese did right to become marked leaders and maned it LEAN (Womack et al. 1990. «The machine that changed the world»)

### The 5 principles of LEAN thinking

#### improvement through continuous elimination of waste

- 1. Define customer value
- 2. Define the value chain/process
- 3. Create «flow» in the process
- 4. Pull from the customer and backwards
- 5. Work for perfection





#### **Customer value**



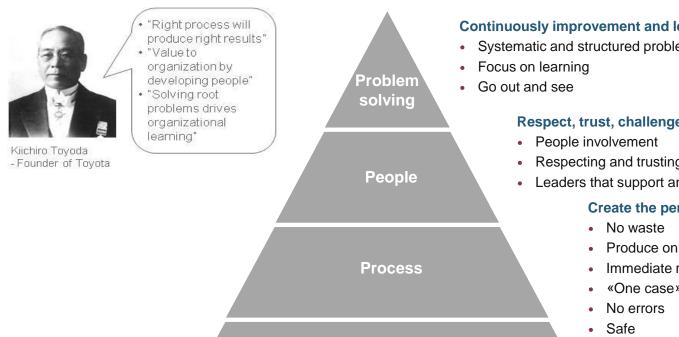
"The time from the customer places his order until we get the payment in our hands.

Our goal is to reduce this timeline by reducing non value adding work»

Taiichi Ohno, the founder of Toyota Production System



#### Toyota's 4 P's



**Philosophy** 

#### **Continuously improvement and learning**

Systematic and structured problem solving

#### Respect, trust, challenges and development

- Respecting and trusting the employees
- Leaders that support and coach

#### Create the perfect/ideal process

- Produce on demand
- Immediate response
- «One case» vs multi-tasking

#### Long term thinking

- Focus on customer value vs cost focus.
- Focus on long term potential vs short term gains



### 7+1 waste categories



**Talent** 

Underutilizing people's talents, skills, & knowledge.



Inventory

Excess products and materials not being processed.



Motion

Unnecessary movements by people (e.g., walking).



Waiting

Wasted time waiting for the next step in a process.



Transportation

Unnecessary movements of products & materials.



Defects

Efforts caused by rework, scrap, and incorrect information.



Overproduction

Production that is more than needed or before it is needed.



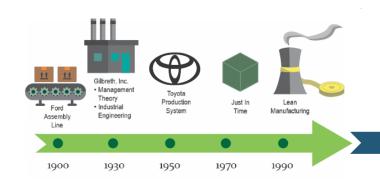
Overprocessing

More work or higher quality than is required by the customer.



## Where does «Lean» come from, and why is it relevant to Norges Bank?

Lean-principles must be adapted to our organisation and culture







#### Service industry

Knowledge work

Hospitals
Call centre
Commercial banks
«Mass case management»

(Knowledge «locked in the heads») Public sector

ΙT

«Expert case management»

#### Lean branches:

- TPS
- Six Sigma (80s)
- Lean Management
- Lean Service/Banking/etc.
- Agile
- Lean start-up
- ...++under development

#### Examples of knowledge work waste

- Printing of documents
- Seek/ask for information
- Organise meetings
- Bad/ unnecessary meetings
- Interruptions / task-switching
- «that's how we've always done it» (internal rules/routines)
- We preform less unique tasks than vi think
- We don't know the whole context of the process

### **LEAN IN NORGES BANK**

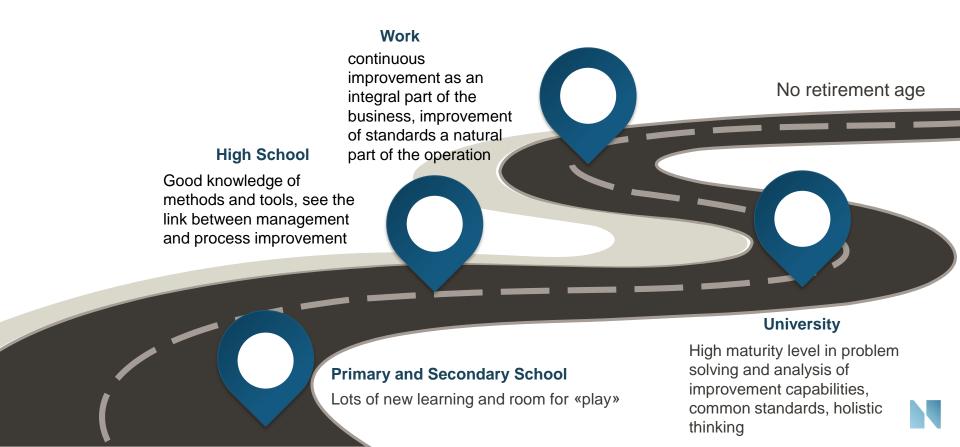


### Why focus on LEAN in Norges Bank?

- Create more value for the customer and with regards to the services we provide
- Improve processes and optimize work flow
- Increase cross departmental collaboration
- Strengthen a culture and a mindset to continuously improve
- Meet future requirements of business productivity by working smarter (more for less)
- Secure optimal use of all employees' capacity and competence



#### To work with a lean mindset is a journey for us



## Organized with focus on follow-up and leaders role as the key success factor for lasting change





## In the long term it is all the little improvements that makes the real difference





### **Continuous improvement in Norges Bank**



Large improvement projects (training)

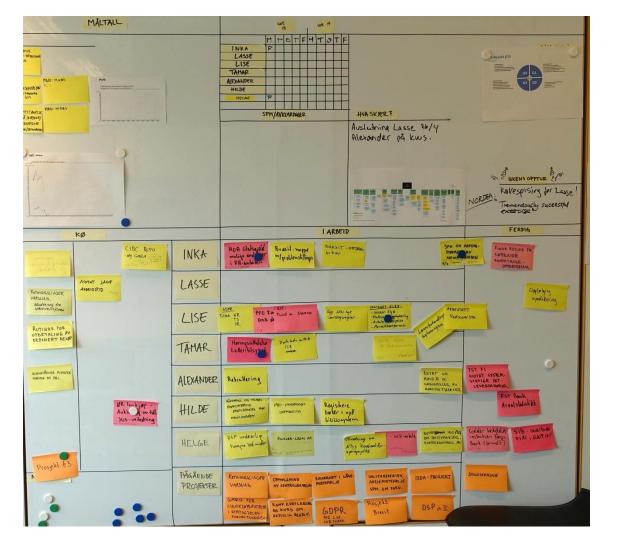
Every day improvements (lasting change)



## Board and stand-up meetings are an arena to prioritize and activities, follow trends (KPI's), identify and discuss problems...



- Arena for the team to discuss:
  - Tasks/ongoing work
  - obstacles
  - Plan/capacity management
  - Improvement
- Short meetings, 2-5 times a week
- Length and frequency must be evaluated by the need of each unit/team
- Stand-up meetings with all team members
- Boards are used because it is visual and an easy way to communicate and share information



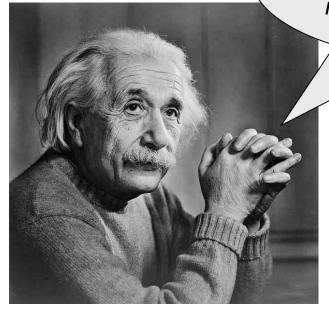
### STRUCTURED PROBLEM SOLVING

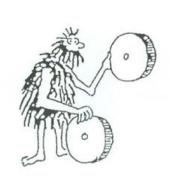
FROM «EXTRA WORK» TO SOMETHING WE DO EVERY DAY



### Improvement requires a new way of seeing things

"You will not solve the problem with the same mindset that created them"







### Why is problem solving difficult?

We do not understand the problem well enough

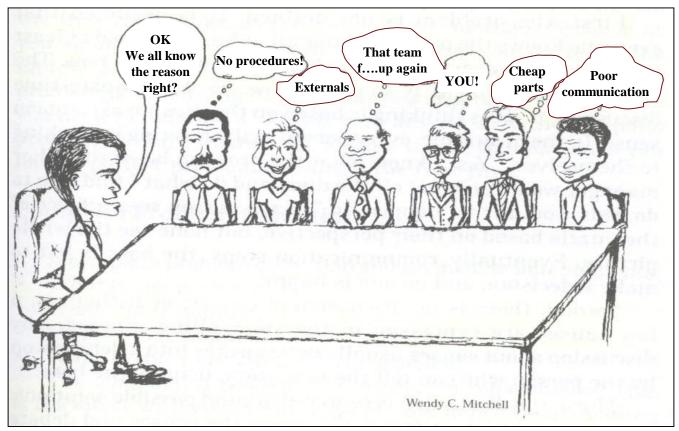
We do not find the correct solution

We do not implement the solution correct

We are trained to go directly to the solution



#### ...and we tend to have a different opinion of what the problem really is



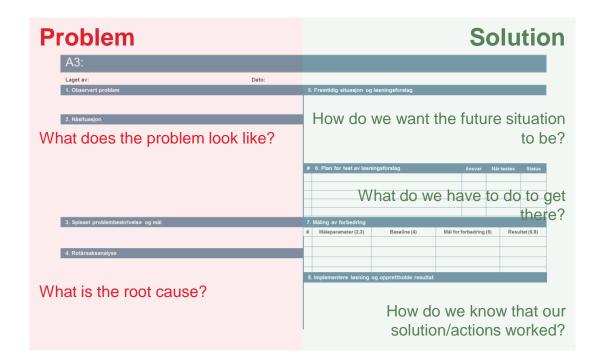


#### **Problem solving principles**

- Solve the problems immediately before they become complex and get many consequential errors
- ✓ Solve the problems as low in the organization as possible
- ✓ The problems should be solved by those who experience the problem
- ✓ Fix the problems permanently by removing the root causes.
- Use a proven method to solve the problems



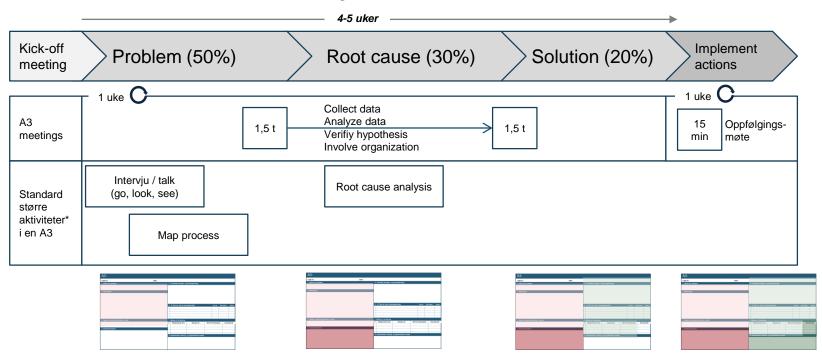
### A3 thinking – common method for problem solving





#### Small or big A3's – you need fixed time to succeed

It's not the size that matters, it's how you use it



#### A3:Prosessen for Foreldrepermisjon er tidkrevende

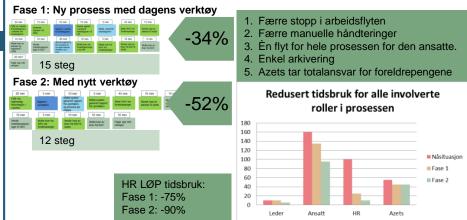
Laget av: Marit Aas Hoftvedt Dato: Februar/Mars 2018

#### 1. Observert problem

Prosessen for Foreldrepermisjon er tidkrevende – for mange steg i prosessen.



#### 5. Fremtidig situasjon og løsningsforslag



#### 3. Spisset problembeskrivelse og måleparamenter

HR LØP «tar» i saken 12 ganger, det er unødvendige overleveringer og arkivering, og manuelle steg i prosessen.

(Rådgivning til ansatte er ikke en del av denne A3'en)

(HR LØP tar kun ansvar for permisjonen	fra NB)

Fjerne «aksept av vilkår»

Fierne innsending av fødselsattest

prosess

#### 7. Resultater

## Måleparameter (2,3) Baseline (4) Mål for forbedring (5) Resultat (6,7) Tid per prosess 325 min (215 min) 155 min Antall touch HR LØP per

(2) 1

Ansvar

Marit

Marit

Marit

Marit/Frik

Status

Ferdia

Ferdia

Ferdia

Ferdia

#### 4. Rotårsaksanalyse

Steg i dagens prosess som ikke er juridisk nødvendige

hente inn «aksept

Ansatt trenger sende inn fødselsattest HR LØP er unødvendig mellomledd /formidler info videre til Azets

HR LØP mottar og arkiverer unadvendige dokumenter på personalmappen som Azets er forpliktet til å oppbevare

Vi har ikke en (digital) løsning der all info samles ..som første del av prosessen

Manuelle steg som

gir unødvendig

overleveringer

mange

HR LØP fyller inn i HRM når Azets like vell må inn i HRM ifm. oversendelse av inntekstopplysningsskjema til

Antatt gevinst 2019 (basert på 2018): 68 timer

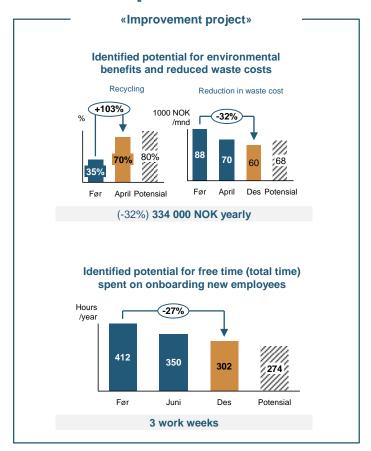
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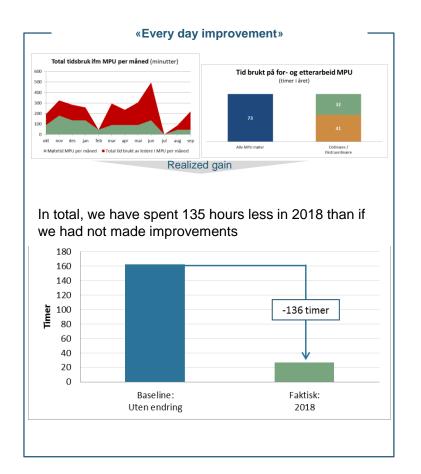
6. Implementeringsplan (test, juster, implementer)

Azets tar totalansvar for foreldrepengene - avtale endring med Azets

Utvikle verktøy i serviceportalen for søknadsprosessen

#### Two examples





### **FINAL THOUGHTS**



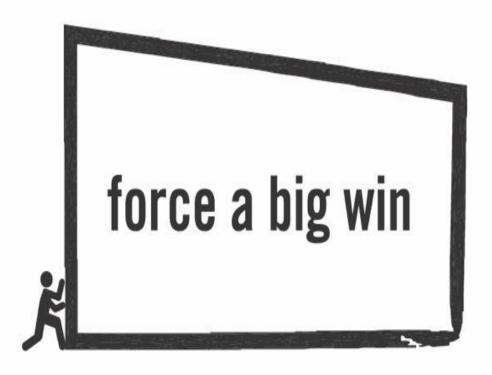
### How do we measure success?

- We see, hear and experience that we work differently than before
- We can document that the improvement projects have concrete measurable results
- Long term: We have created a culture for continuous improvement



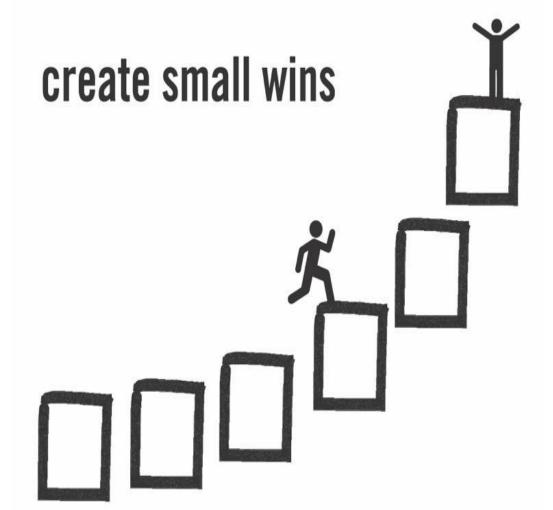


### Don't











#### The foundations of lean success

- Strategic anchoring
- Standardized method
- Engage the leaders\*
- Make room for improvements
- Train the employees learning by doing
- Coach and challenge
- You get what you measure
- Communicate success stories



# THANK YOU FOR YOUR ATTENTION!