

There is More To Lean Than You Know

Agile Australia 2015 TJ Gokcen

City Council runs out of time to discuss shorter meetings

LAGUNA BEACH, Calif. (AP) -Another marathon City Council meeting forced councilors to put off agenda item No. 6: a proposal to limit the length of meetings.

"We didn't have time to discuss time," Councilwoman Ann Christoph said after Tuesday's meeting.

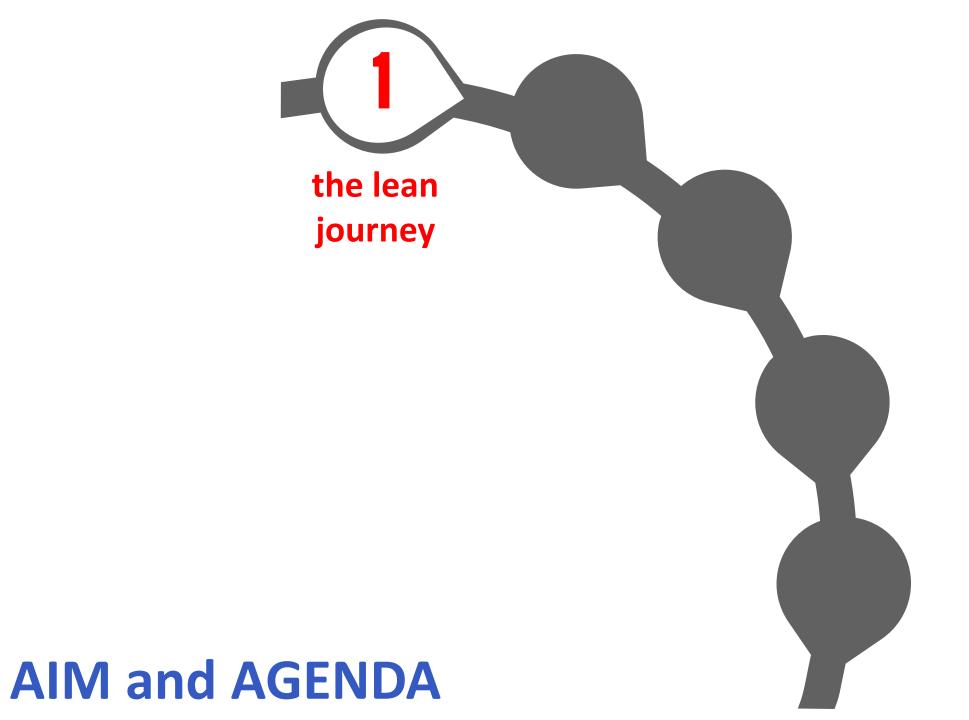
Members have been known to stay speakers. as late as 3 a.m. for meetings that Tuesday's meeting ended at 1:30 regularly begin at 6 p.m. But even a.m. and item No. 6 was tabled until the most dedicated politician can run Feb. 2. But then it will be item No. 1.

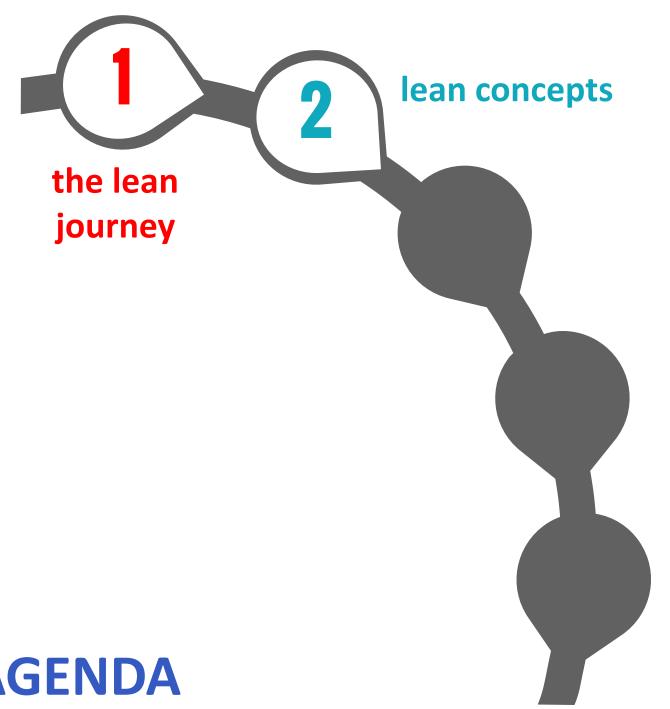
out of patience in the wee hours.

"It is not good for the public and i is not good for the counci members," Christoph said. "Ou decision-making is not that good a that time of the morning."

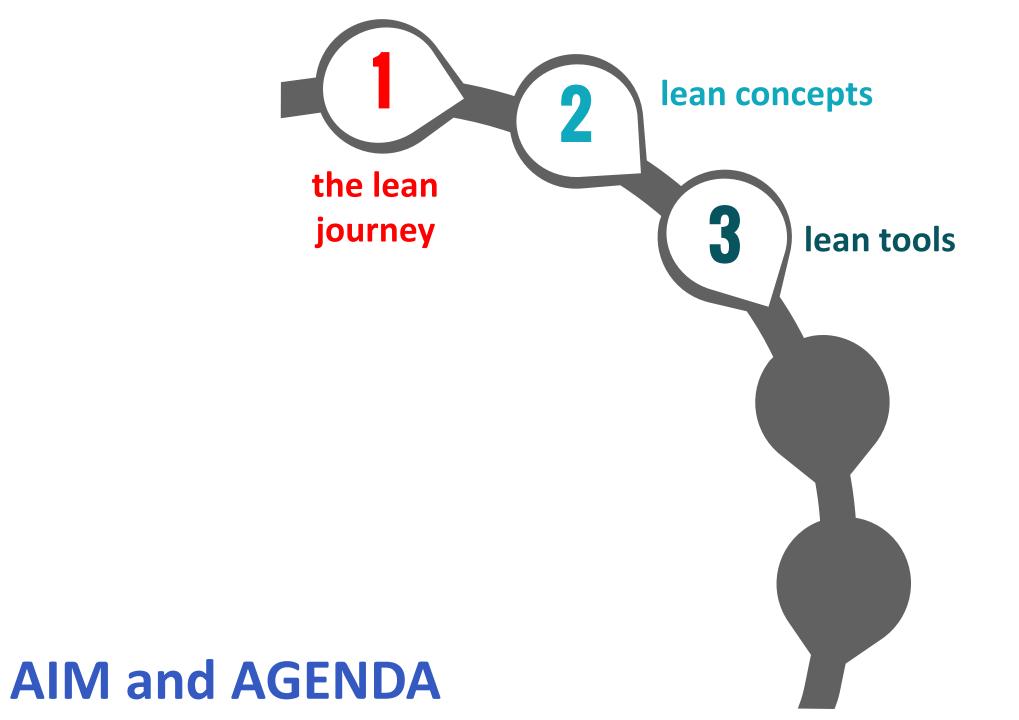
Christoph and Councilman Wayne Peterson introduced the meeting limitation measure, which also pro poses to limit time allotted to

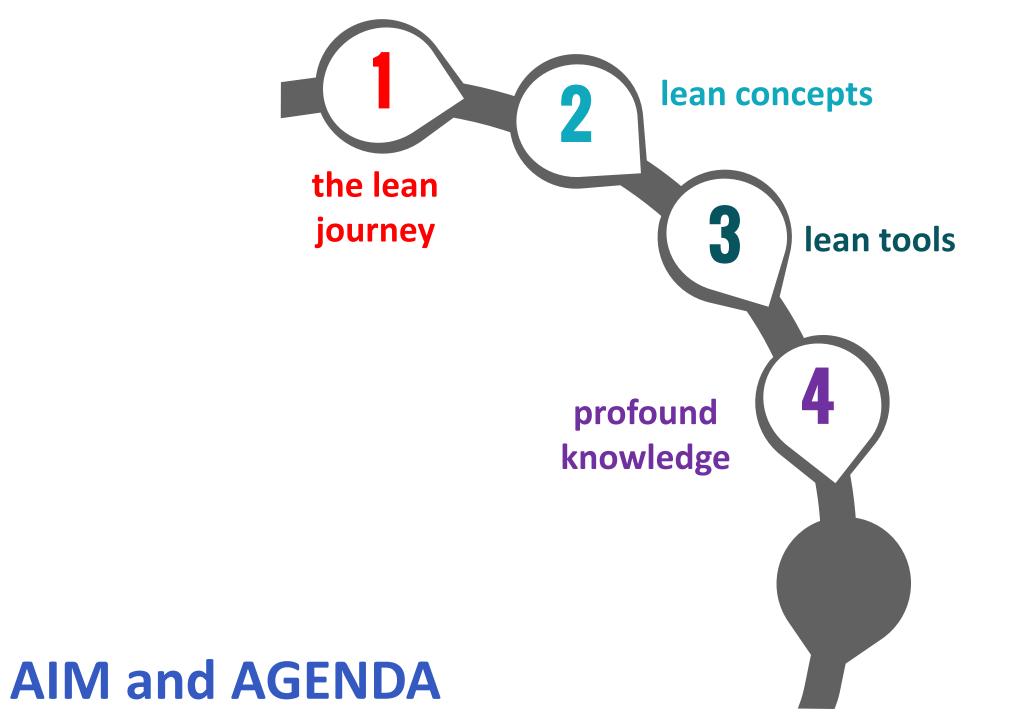
AIM and Agenda

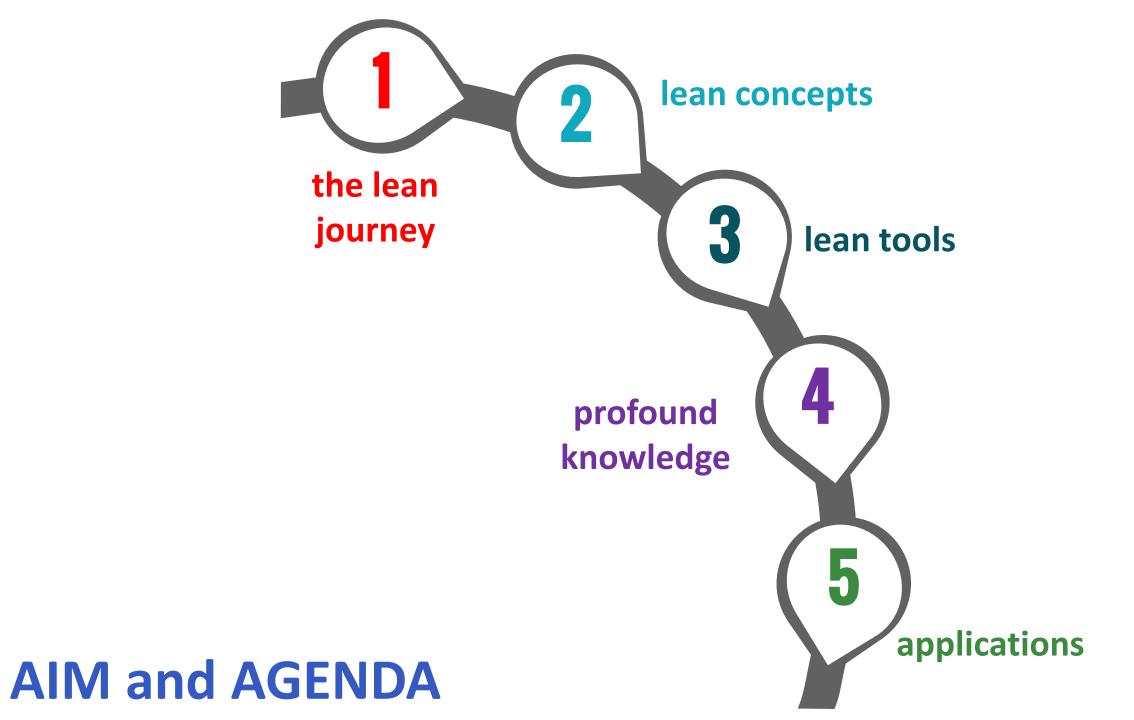




AIM and AGENDA







the lean journey

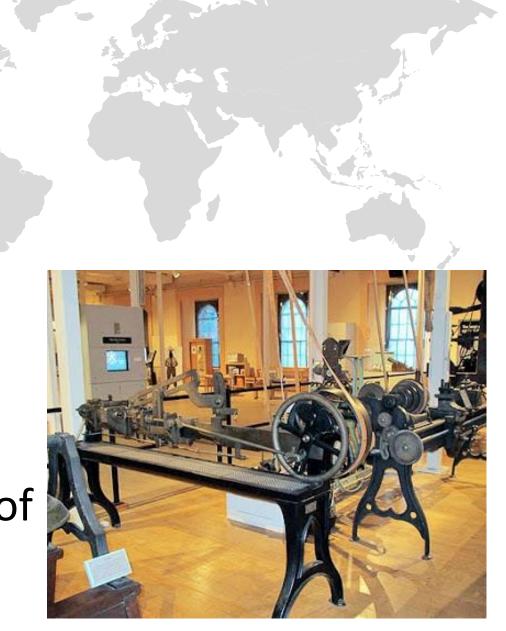


Mass producing methods for building warships.



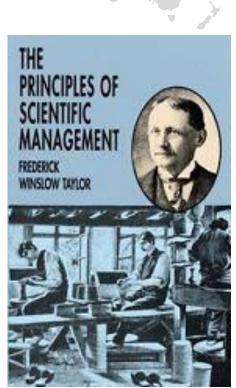


Automatic Production of Complex Parts

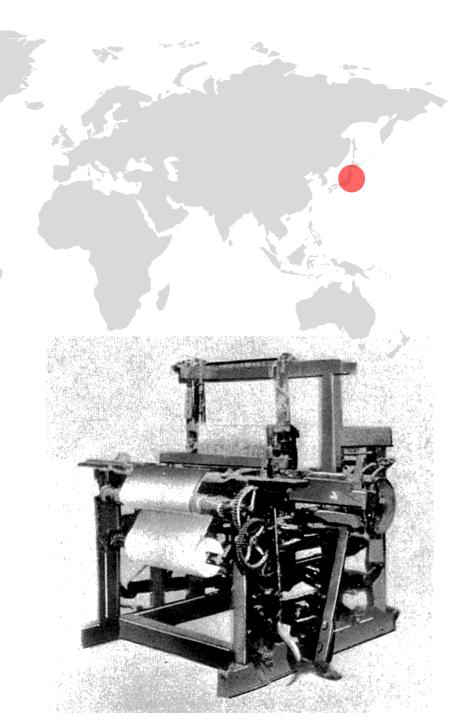




The Principles of Scientific Management







Toyoda Power Loom





Ford T-Model

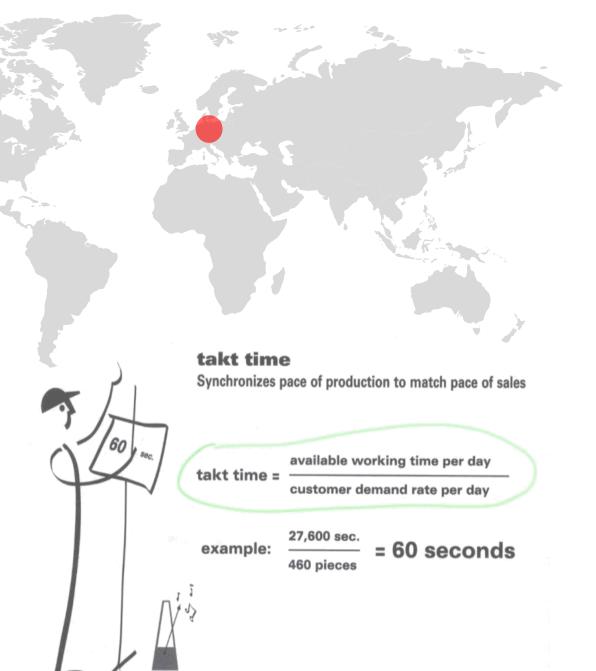




Toyoda Automatic Loom







Takt Time



U.S.A.



Statistics





Supermarkets: JIT





Toyota Production System



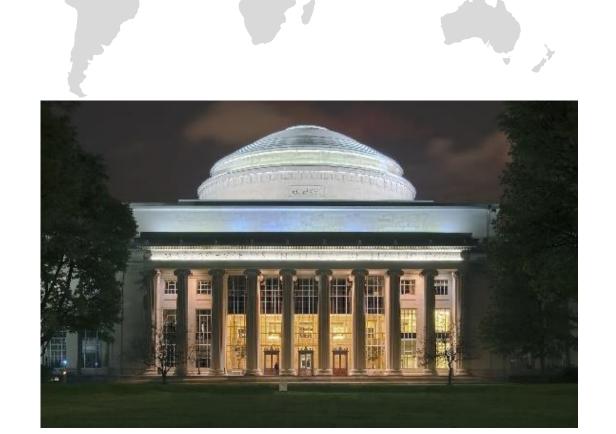


Toyota Production System – The Book





Lean – John Krafcik, MIT



lean concepts



















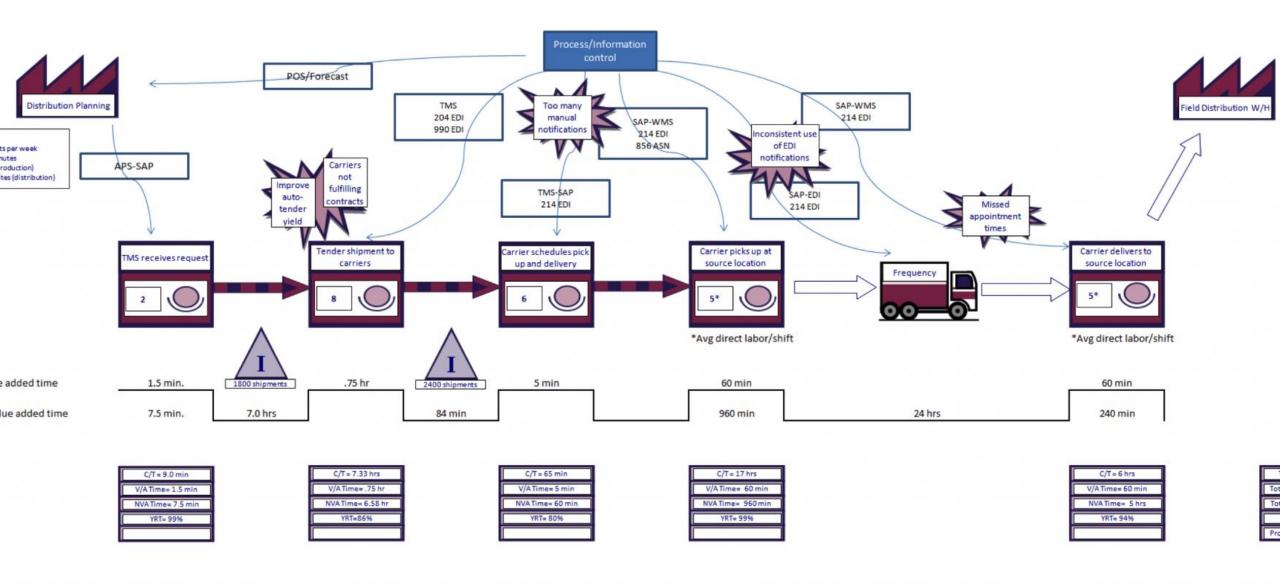




















Defective Production

```
class Program
static void Main(string[] args)
    for (int i = 0; i < 10; i++)
        Foo();
static void Foo()
    for (int i = 0; i < 40; i++)
        string temp = "";
        Thread.Sleep(i);
        temp += i.ToString();
```

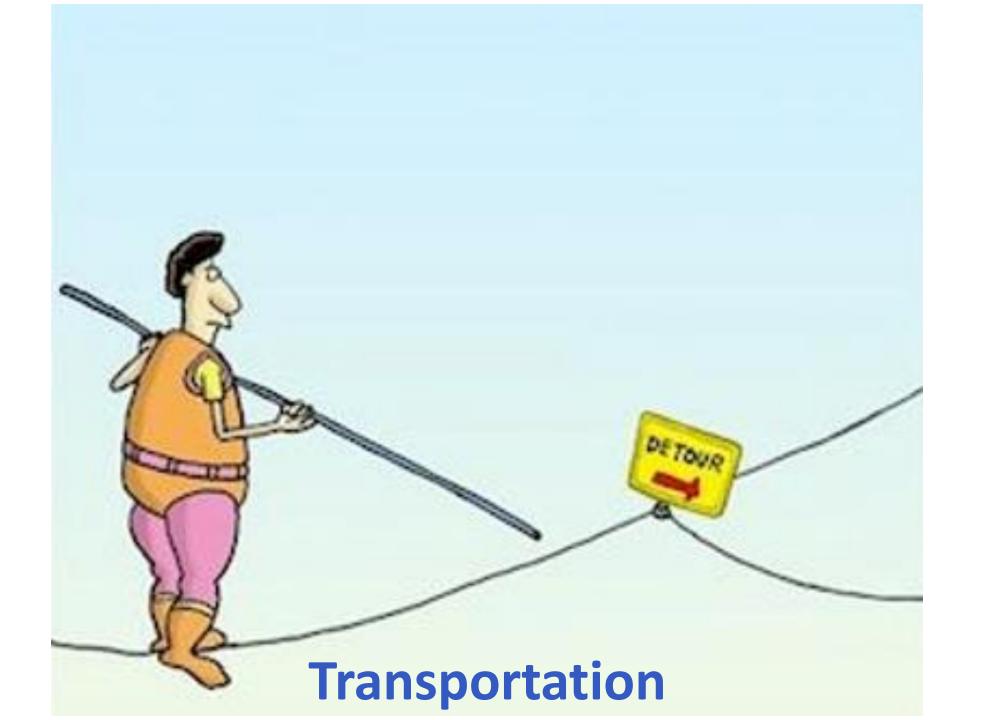
Overproduction



Waiting



Neglected Talent

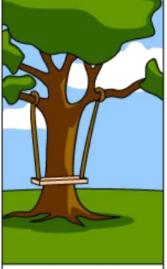




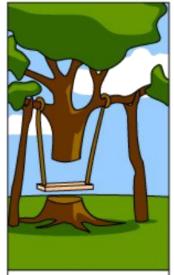
Inventory



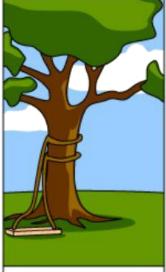
How the customer explained it



How the Project Leader understood it



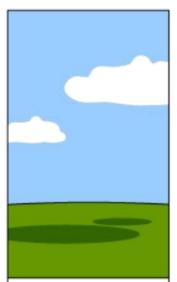
How the Analyst designed it



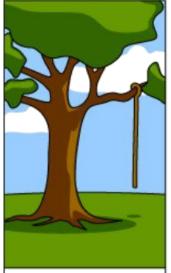
How the Programmer wrote it



How the Business Consultant described it

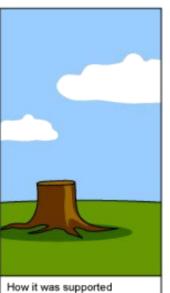


How the project was documented



What operations installed

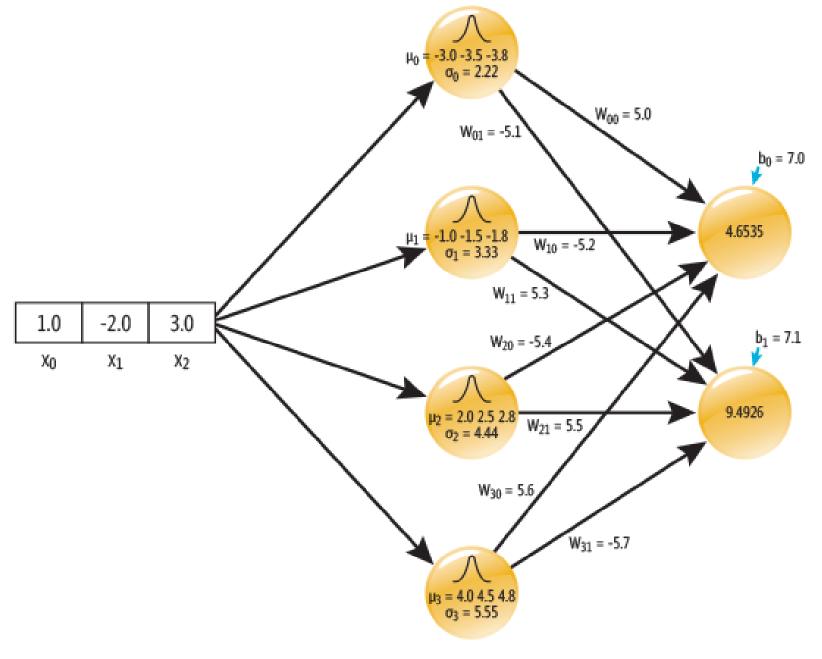






What the customer really needed

Motion



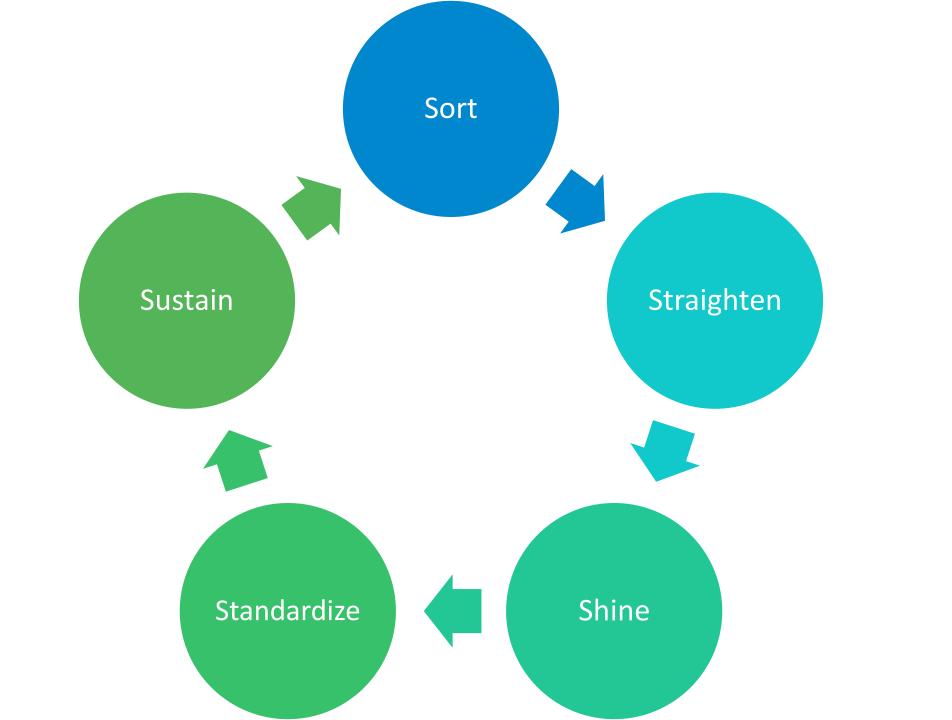
Excessive Processing

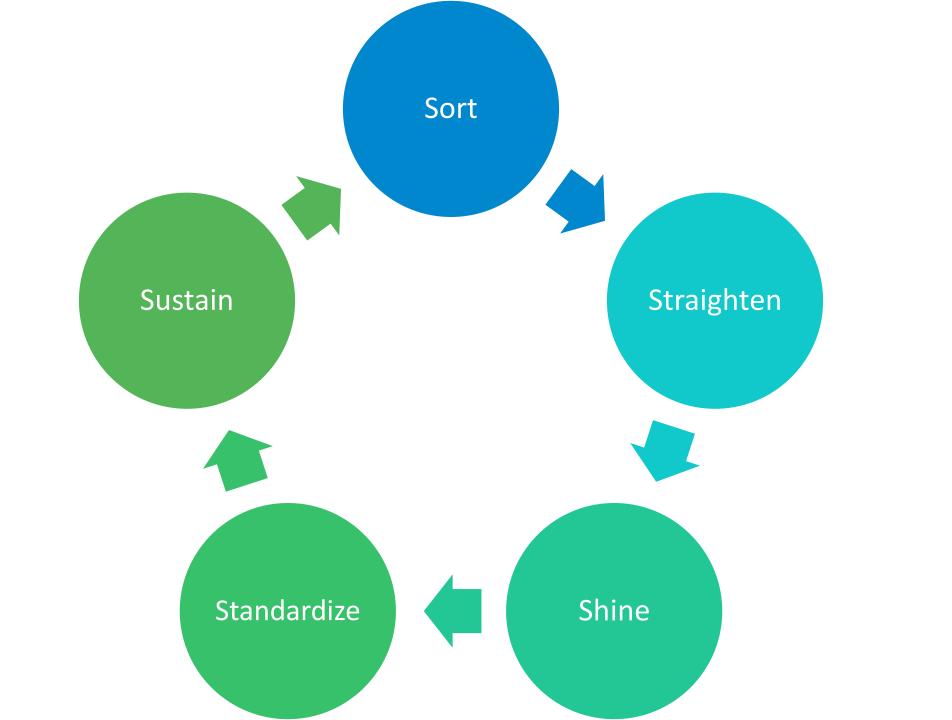
Defective Production Overproduction Waiting Neglected Talent **Transportation** Inventory **M**otion **Excessive Processing**

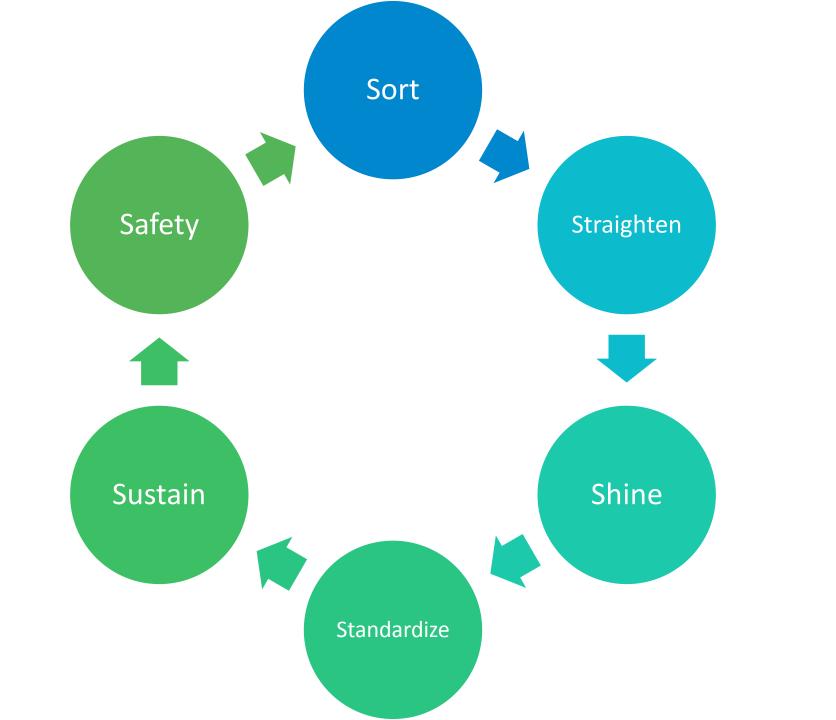
DOWNTIME

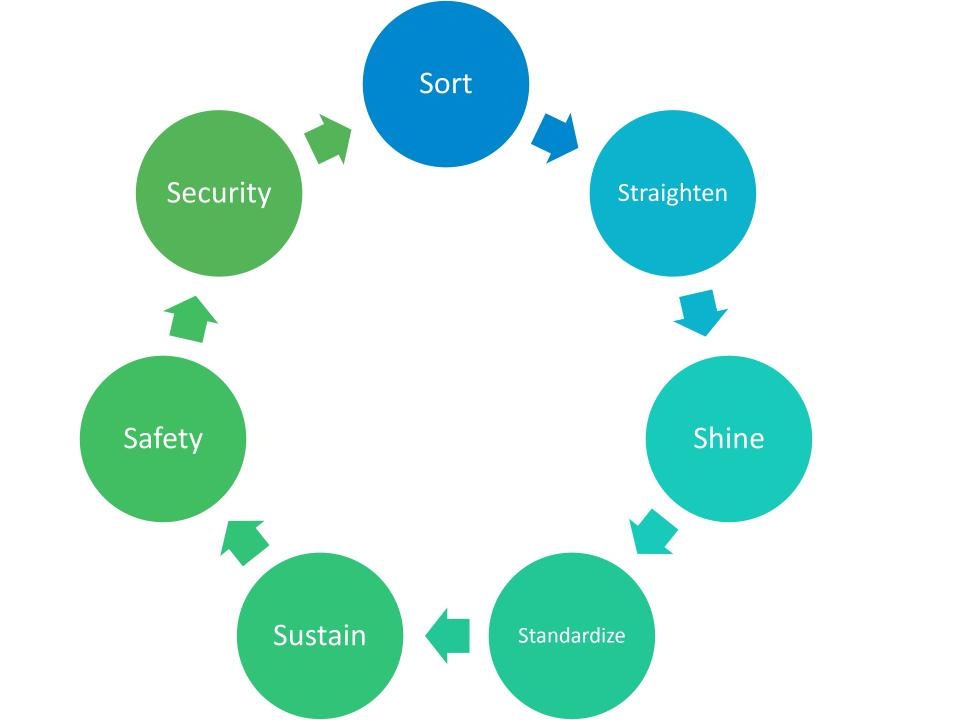
lean tools











Reduce lead-time of reworked items from 14.6d to 10d

Background

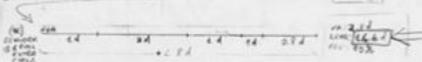
Team is looking at improving its internal feedback loop to reduce cost of delay, particularly when rework is involved.

Current Situation

Lead-time of reworked stories: 14.6 days Processing time: 2.8 days

Current State Map





Problem Statement

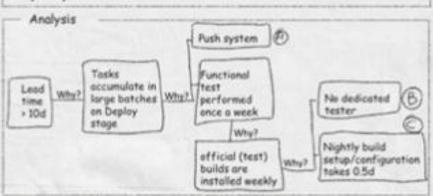
Expectation: Lead-time of reworked stories: 10d

Discrepancy: Team takes 4.6d longer to deliver a reworked story

Extent: The problem affects about 15% of all stories Rationale: If no action is taken, customers will continue to suffer delays

Target

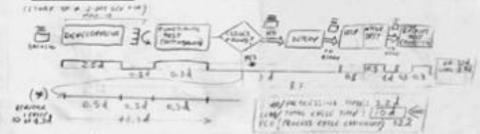
Reduce lead-time of reworked items from 14.6d to 10d by July 31st 2011



ountermeasures

Couse	Countermeasure	Description	Benefit	Effecti veness	Feasi-	Impec
A	Limit WEP/Pull	Limit have many sturies team can shart in perallel	-improve flow -encourage small startes	+	**	0
	Hire tester	titre dedicated internal tester	eliminate dependency an external people and spend more time on testing	-		
	Do system Test internally	Devs that don't work on feature can test someone alor's work	Reduces testing battlenecks, improves knowledge shoring			
	SLAs with external testers	Create service level agreements between team and external testes	more predictable flow clear expectations no "begging" clear collaboration	**		
e	"settsbunce"	Test the latest version of a subset of component files skipping the full product setup	Dan't need to wait for dolly/weekly builds, reduce feedback delay between dev/test	**		

Future State Map



Action Plan

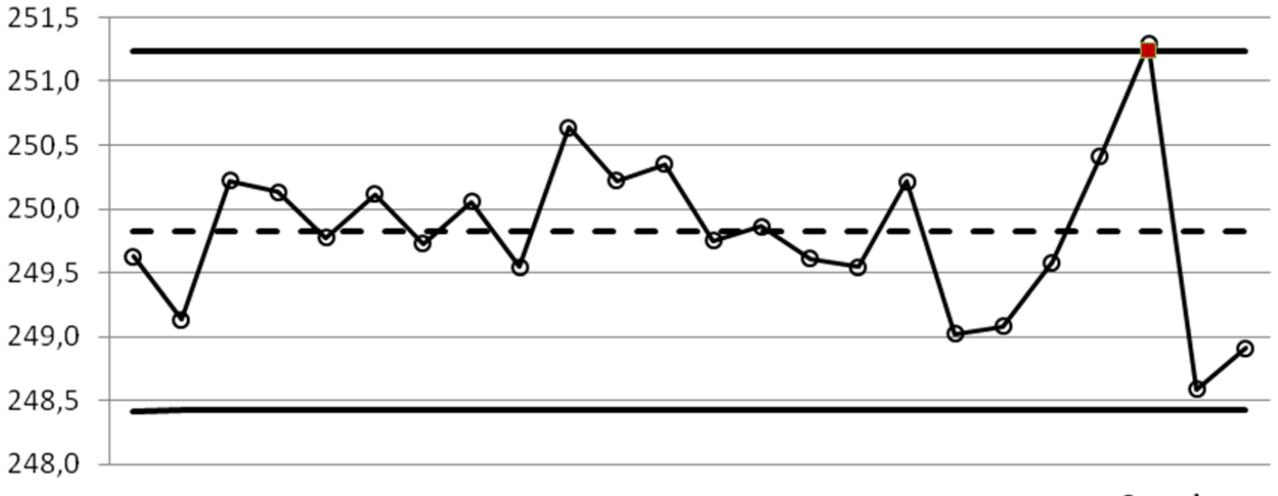
What	Who	Where	How	Europi etron	Author complete
Ven	Shaf / Chastie	Yaum. Boom.	Fust-ris	107-6	10/6
Trace proposer metrics	Pearle	Whiteleased	Mark of such standap	18.77	PAFA
Adopt Sertationce procedure	Year	Yearn reem	Agree	10/7	10/7
Limit WIF	Years	Marketonick	Agree	27/6	27/6
Hine tester	need.	Meeting	Angert In	Name	29/6
Agree Starting policy	Teon	Marting Spent	Retrospec	10/7	10/7
SLAs with enternal	Chester' Element	Meating Room	Agree	10/7	39/7

Indicators

Item	Initial	15/7	31/7
Lead- time non- reworked home	7.84	54	54
Lead- time reworked heres	14.60	64	54
WIP	16		

Follow-up

19	THEN
Counternessure plan failed	Begin A3 process to identify root cause of failed plan
Target achieved but problem could recur	Edentify other root could and find new countermoures
Target achieved and problem won't	Share findings, standardize countermeasures, begin A3 process to reduce percentage of reworked items



Samples

— xn — UCL — — CL — LCl

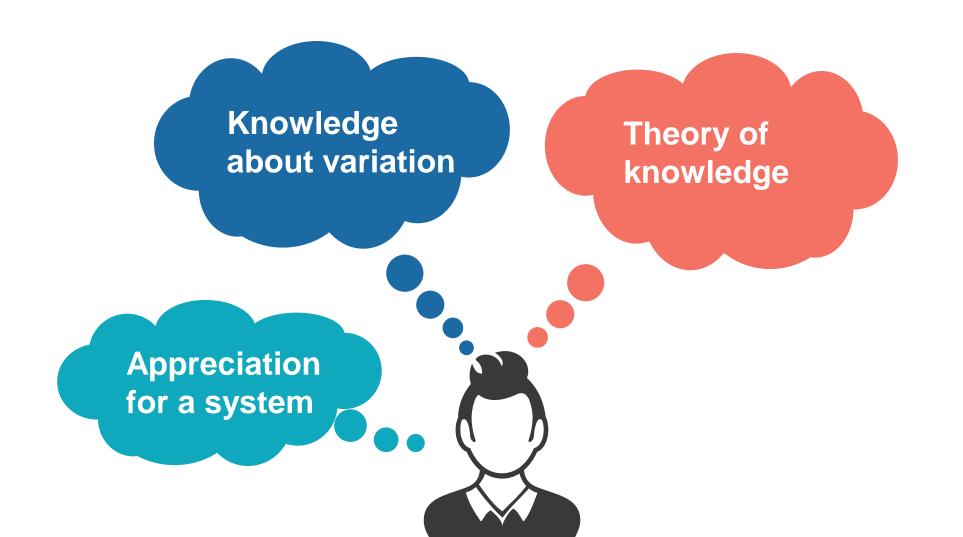
PDSA Cycle Plan Do Study Act

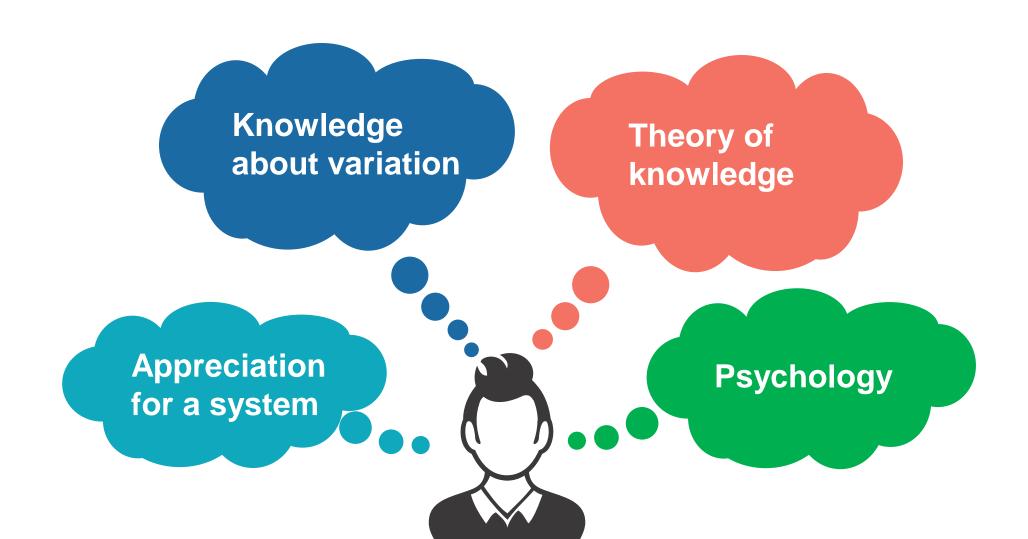


profound knowledge









applications

- Aim of the project
- Feature List
- Infrastructure, Design
- Predictions

- Rework or Deploy
- Change Process, Aim or Predictions

- Develop
- Deploy

- Outcome vs Aim
- Outcome vs Prediction
- Study the process



- Aim of the feature
- Acceptance criteria

- Deploy
- Rework
- Change Process, Aim or Predictions

- TDD, BDD
- Coding

- Tests
- Outcome vs Aim
- Outcome vs Prediction
- Process













