How Continuous Process
Improvement Changed Culture and Reduced Lab Result Delivery Time by over 30% (and counting)

10/8/2019

Washington State Lean Conference



## **Session Objectives**

- 1. Describe the improvement method we used to build capability & deliver results
- 2. Understand that if you're not changing the work, you're not changing the value
- 3. Understand our story, including moments of courage & connection

## Introduction & Background

### Seattle Cancer Care Alliance

Nationally ranked non-profit cancer center

Serves 40,000 patients/year

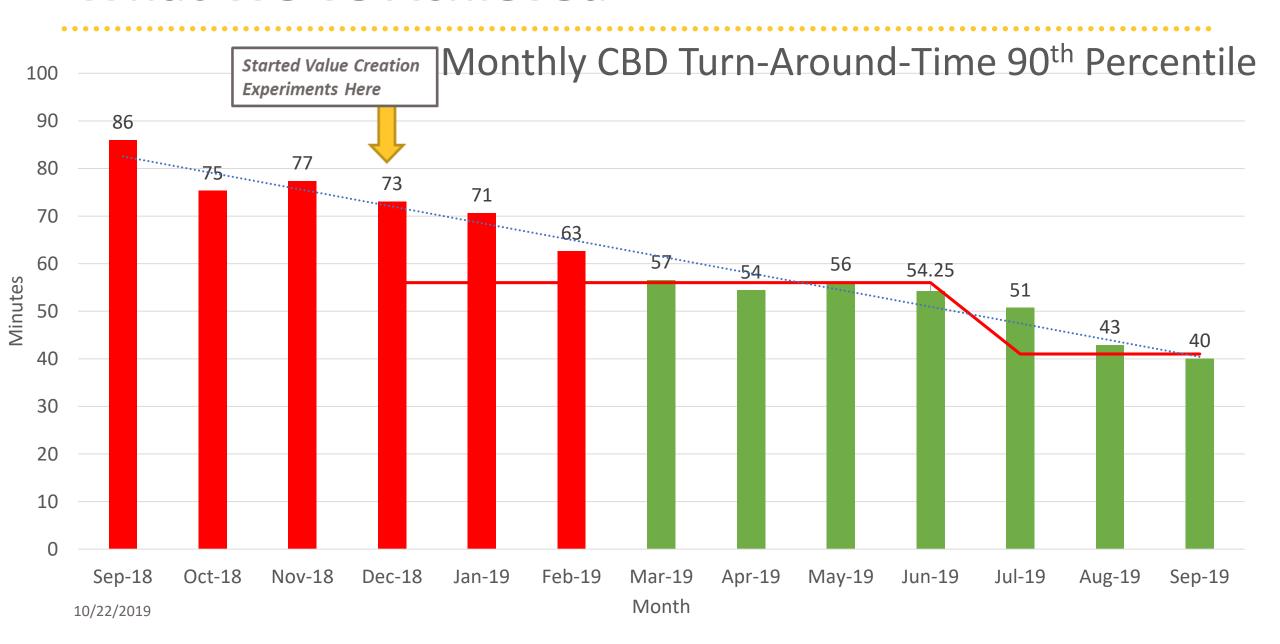
Most patients have lab tests run regularly

### Alliance Lab

- Main blood draw & testing lab
- Runs ~30,000 tests/month
- Improvement focus: Hematology Testing

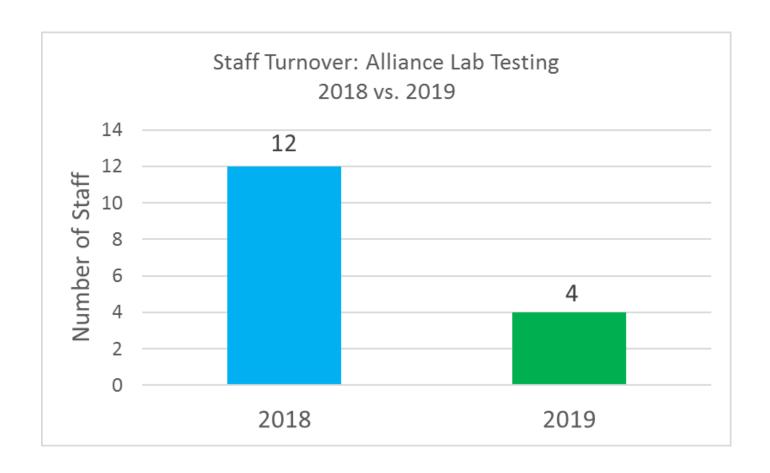


### What We've Achieved



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The work flow is better and less stressful for us and better for patients. 99



### **Lean Transformation House**

#### SITUATIONAL APPROACH

- Value-Driven Purpose -

1. What is our purpose? What problem are we trying to solve?

#### **PROCESS**

2a. What is the work to be done?

2b. How are we improving the actual work?

Responsible Leadership

4. What management system and leadership behaviors are required to support the new way of working?

MANAGEMENT SYSTEM **CAPABILITY DEVELOPMENT** 

3. How are we developing capability?

### Basic Thinking, Mindset, Assumptions

5. What basic thinking underline this transformation?

## **Alliance Lab Testing Transformation House**

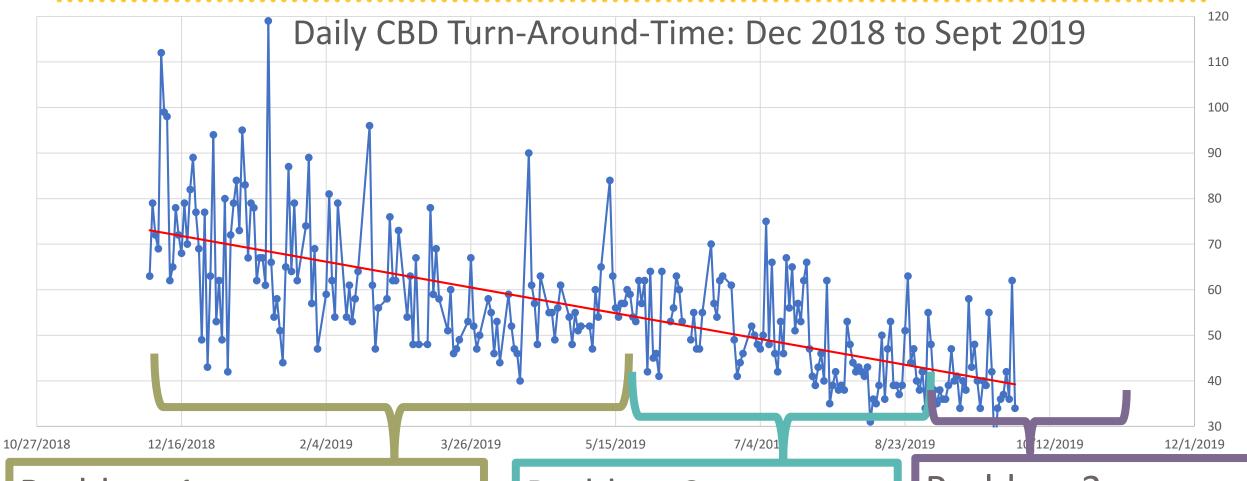
#### SITUATIONAL APPROACH

- Value-Driven Purpose -

1. What is our purpose? What problem are we trying to solve?

Our purpose is to produce accurate test results that allow providers to diagnose, measure, and monitor how well treatment is working, and to evaluate if patient is eligible for other treatments (dosage, trials, etc).

### Our Improvement Story: PDSA Cycles



Problem 1:

From 86 to 56 min

Problem 2:

From 54 to 41 min

Problem 3:

Meet 41 min DAILY

## **Alliance Lab Testing Transformation House**

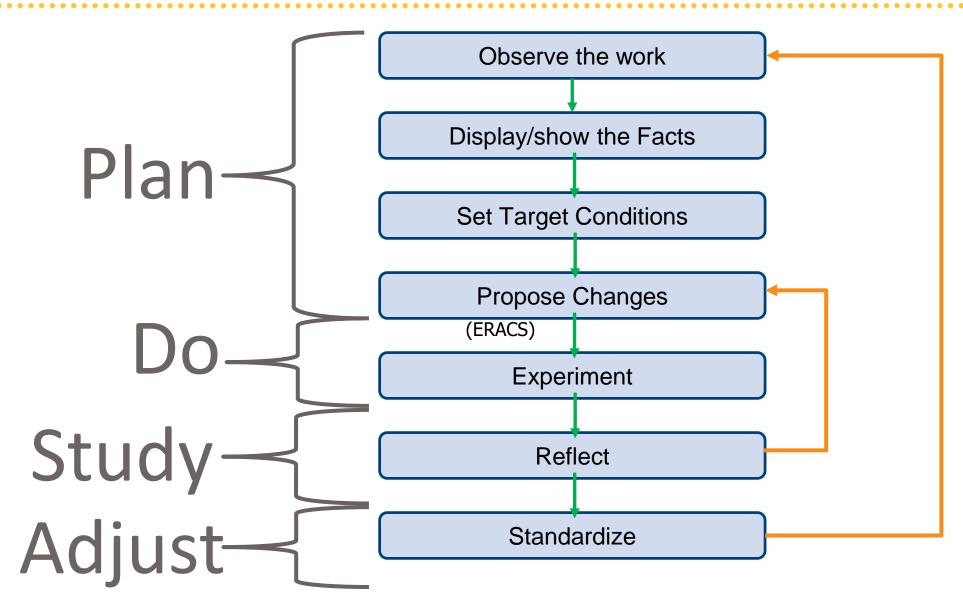
#### **PROCESS**

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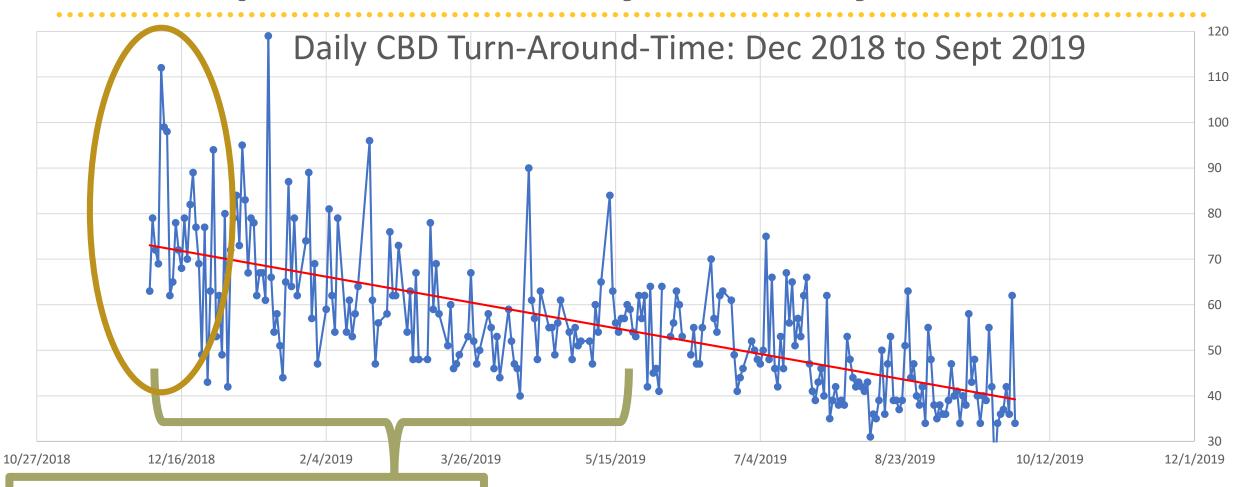


### **Improvement Process**



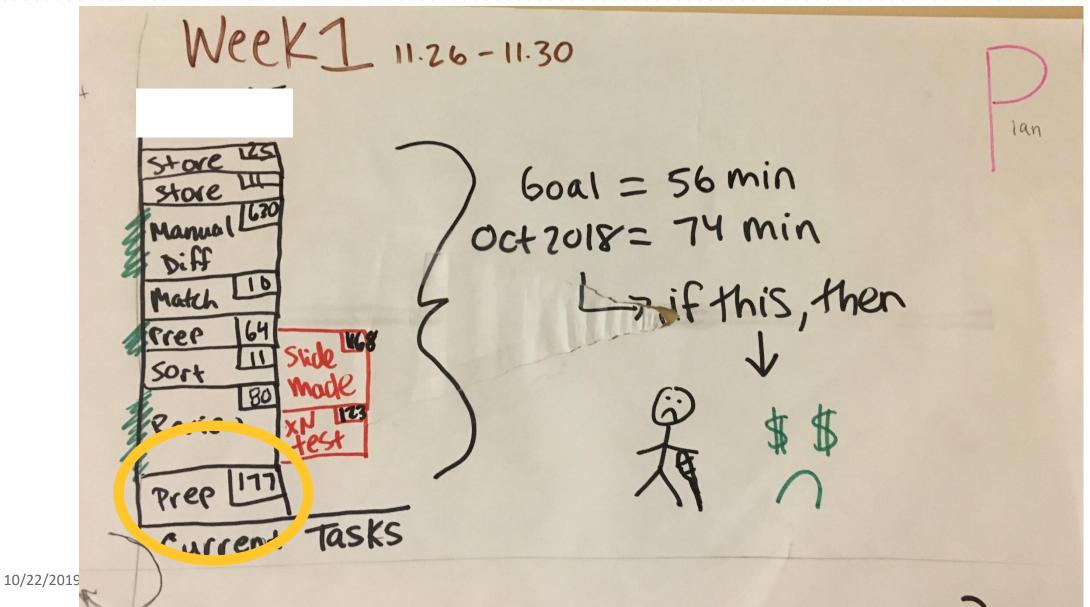
| Knowledge  | Skill                                 |
|--|---------------------------------------|
| Customer value is #1 priority and it is all centered around the WORK   | See and Identify Value Creating Work  |
| Difference between Value<br>Creating Work, Essential Work<br>and Waste | Observe and measure WORK (Timing)     |
|  | Visualize WORK Display/Show the Facts |
| 10/ 22/ 2013   | Improve work using ERACS              |

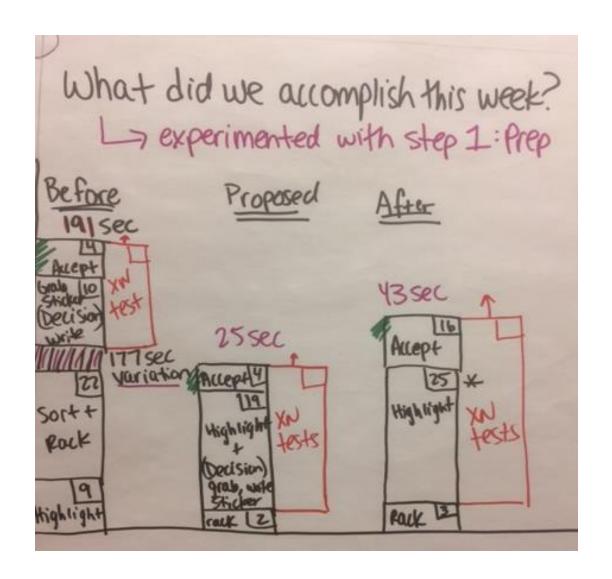
### Our Improvement Story: PDSA Cycles



Problem 1: From 86 to 56 min









 Techs had concerns about work being added downstream

Twisting motion reduced

 Observed inconsistent rules applied to "Highlighting" step

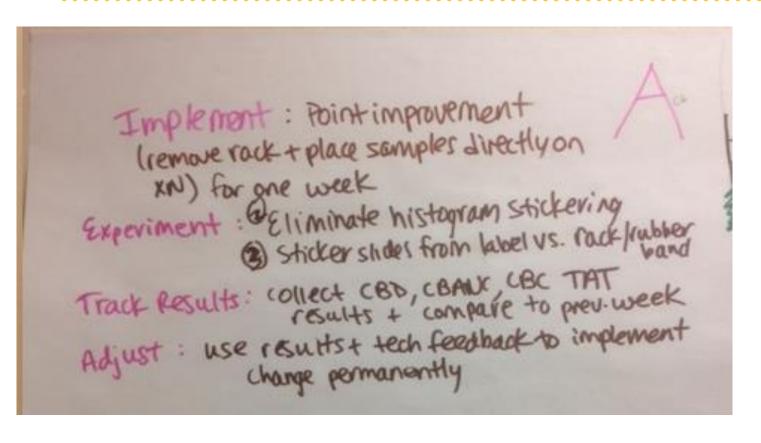


### What did we learn?

- o Tech concern that this would cause confusion/ problems downstream
  - · measured + Learned that this did not add much (1-2 sec) time downstream
  - Volume of stickers to sort later 1
     (opportunity for next improvement)
- · Reduced operator "twist" movement at sorting phase
- To labels were not graphed close to the time rack was loaded, more labels would print and add operator confusion.
  - · made point improvement for circular motion
- Different operators did Highlight step differently
  - · Feedback prior to experiment = "we need to highlight"
  - " Not all operators highlighted considerally
- · Instrument (anecolotal evidence) remained idle less.
- o tech feedback = "pretty much the same,"

  "that does make it easier," "may take some gotting used to"
- Aneclotal evidence | observations = Samples waited
   less before being tested.



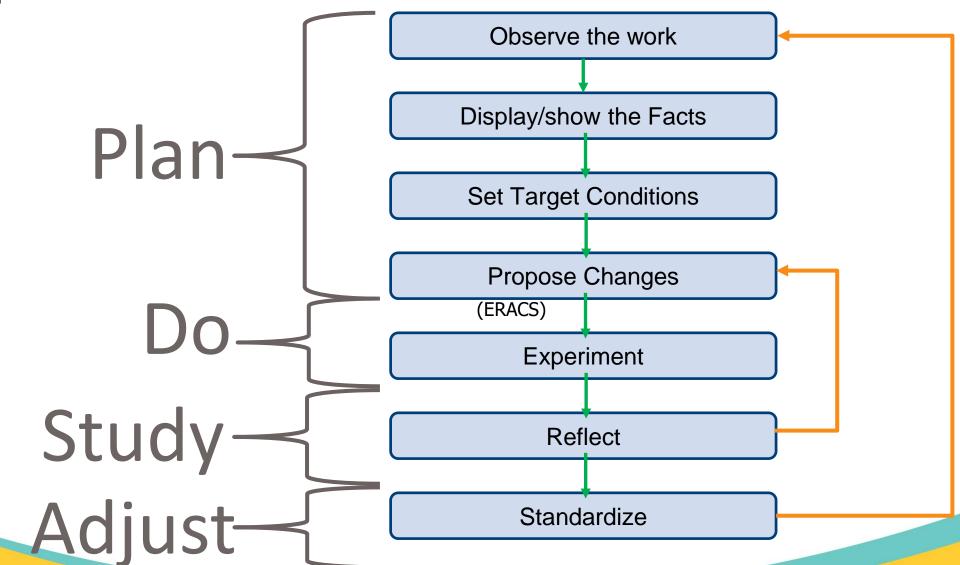


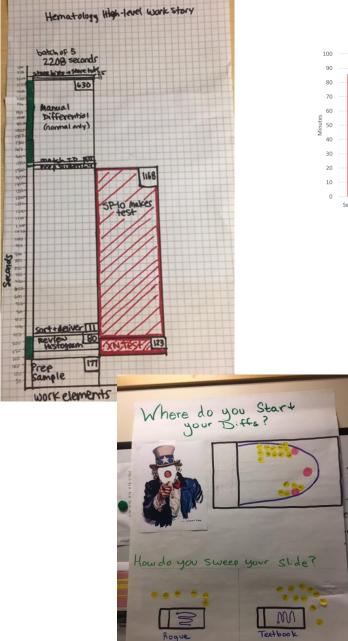
Do experiment for 1 week

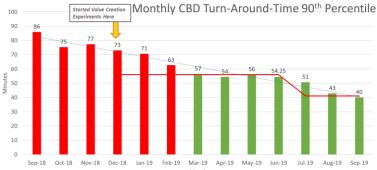
Study & Adjust based on results

- Chose decision making method for adopting changes as new standard
- Adopted new process

### **Improvement Process**







#### SITUATIONAL APPROACH

- Value-Driven Purpose -

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#### **PROCESS**

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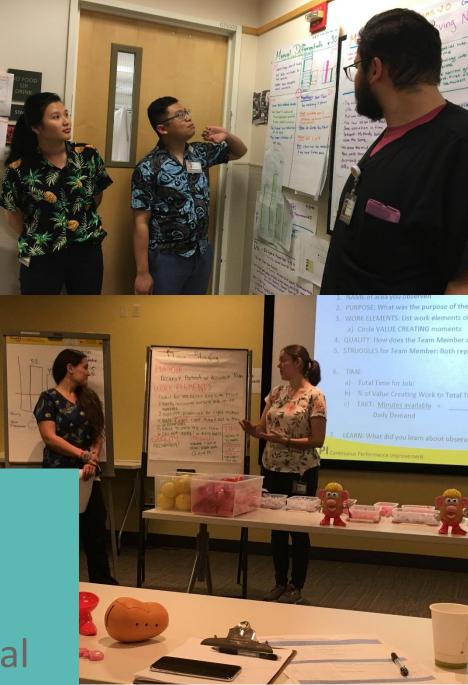
> MANAGEMENT SYSTEM

CAPABILITY DEVELOPMENT

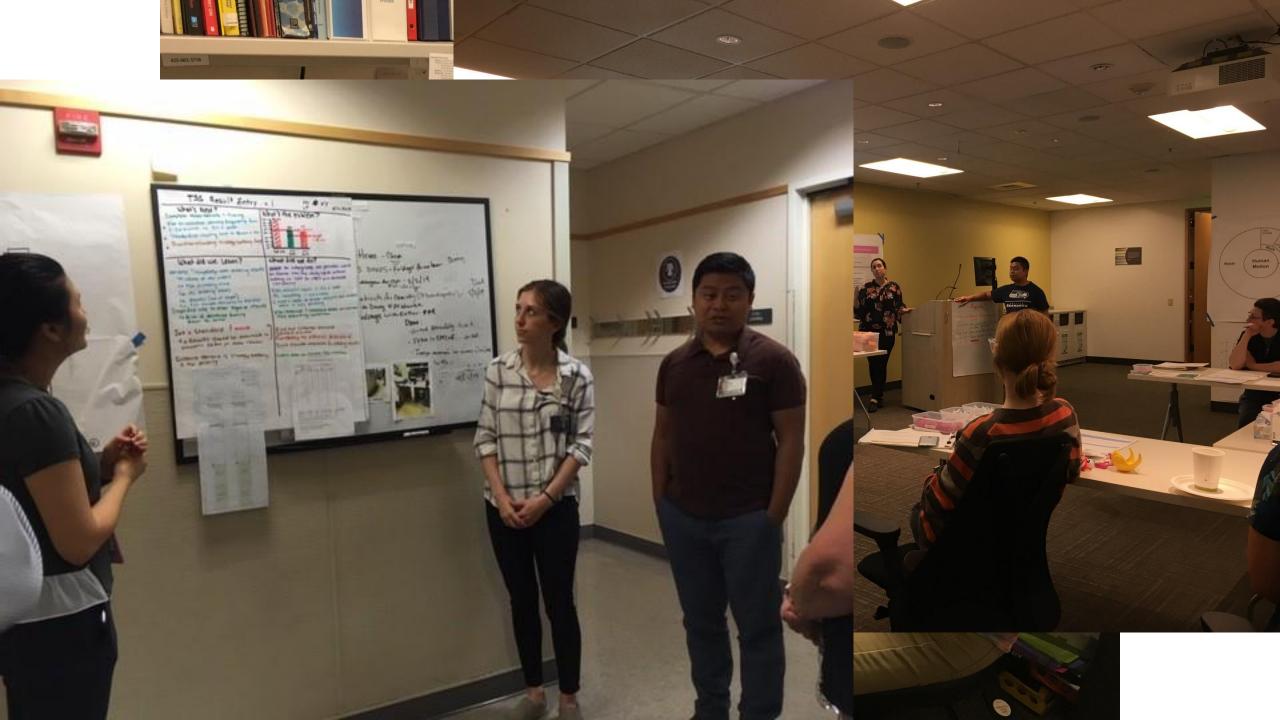
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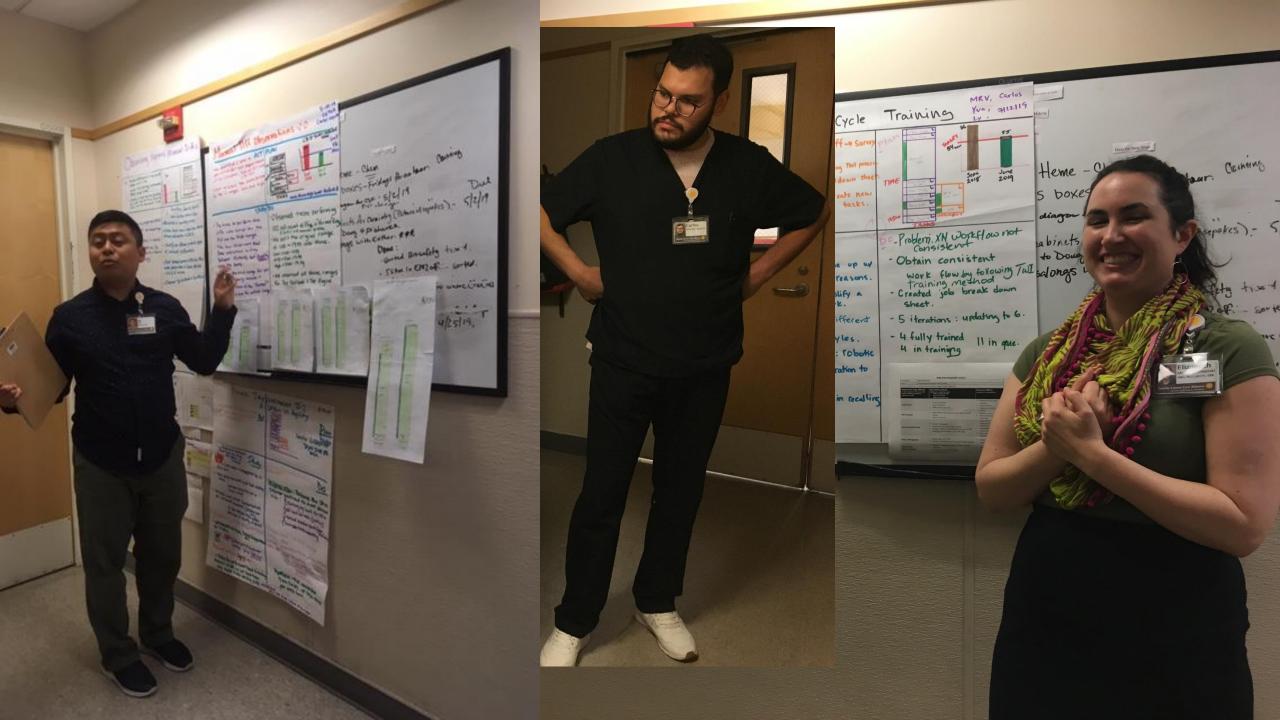
5. What basic thinking underline this transformation?

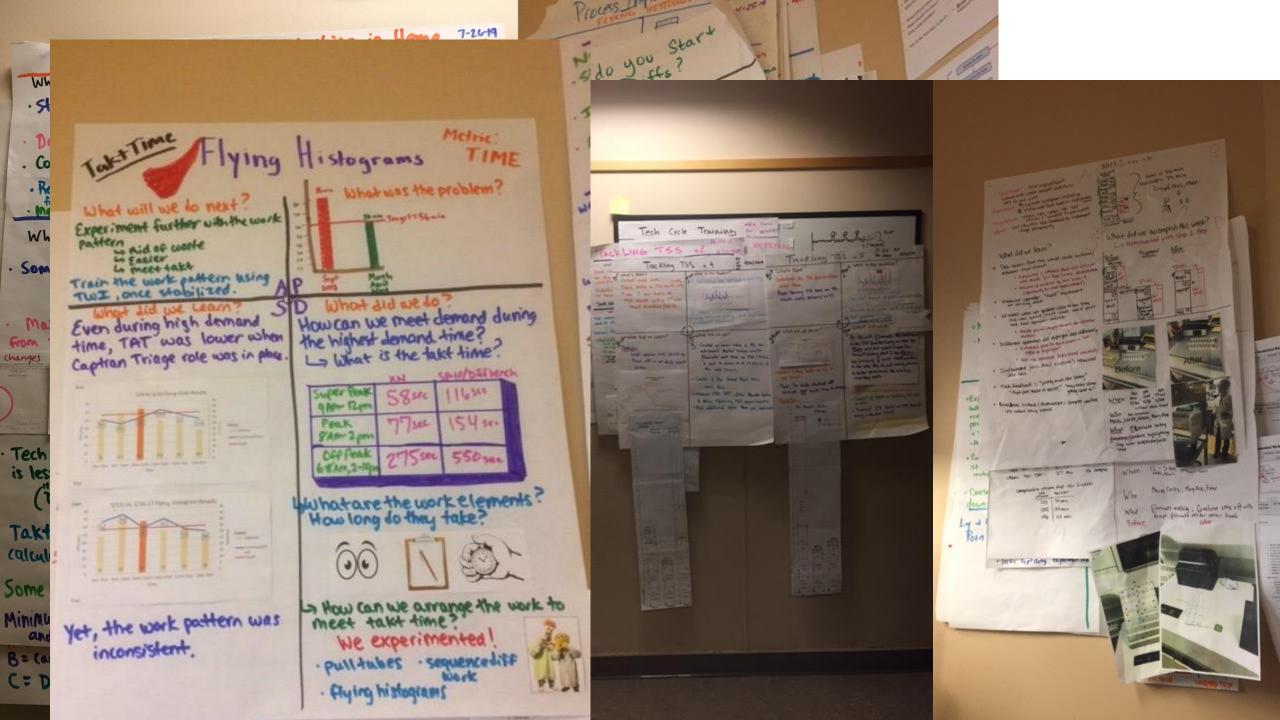
5. MindsetLeaders as TeachersSmall changesLean is technical & social

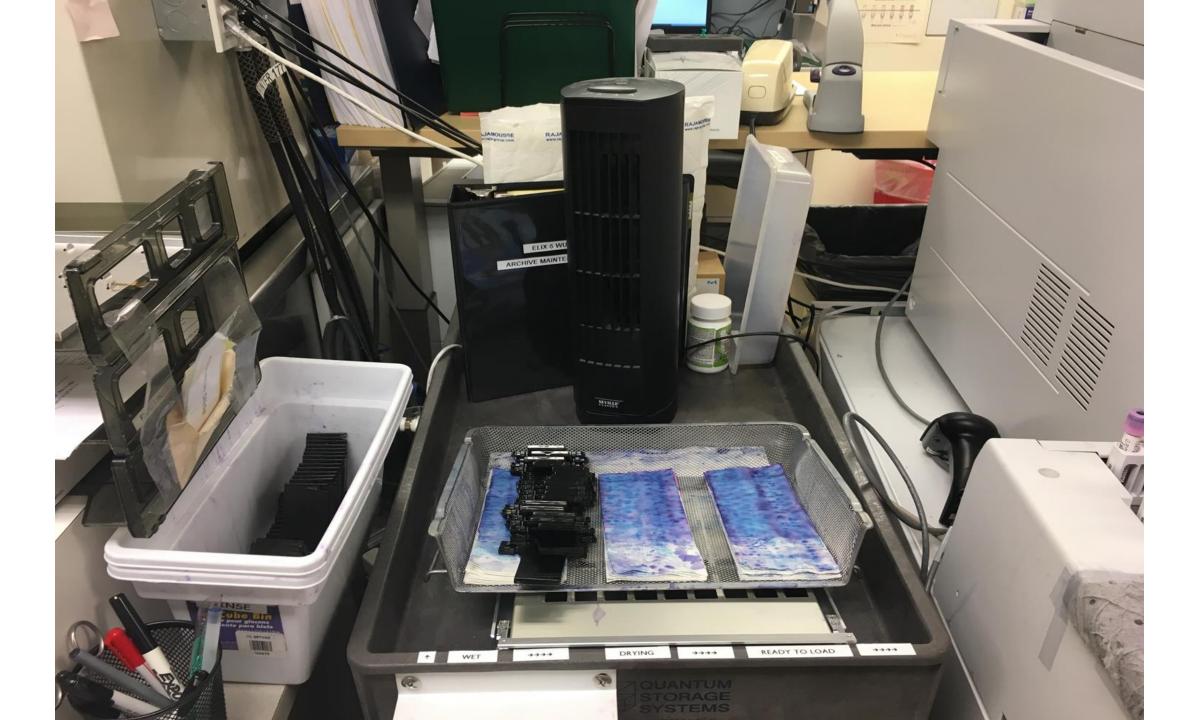


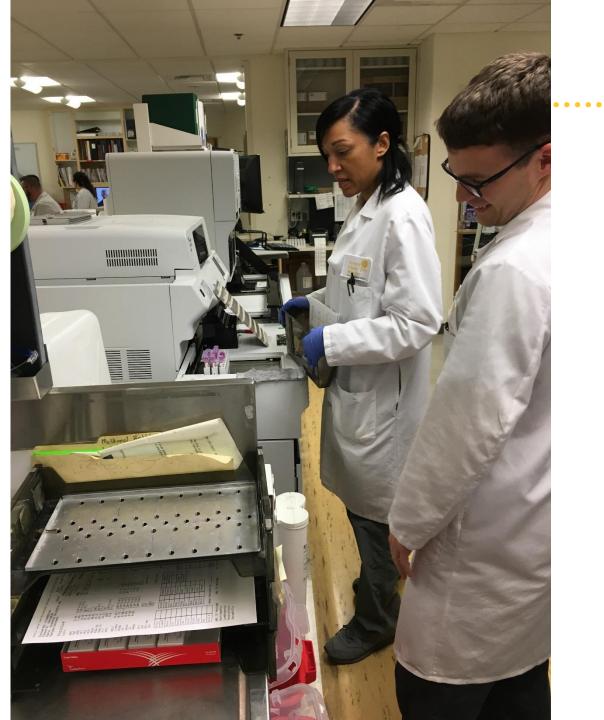
## **Questions & Discussion**

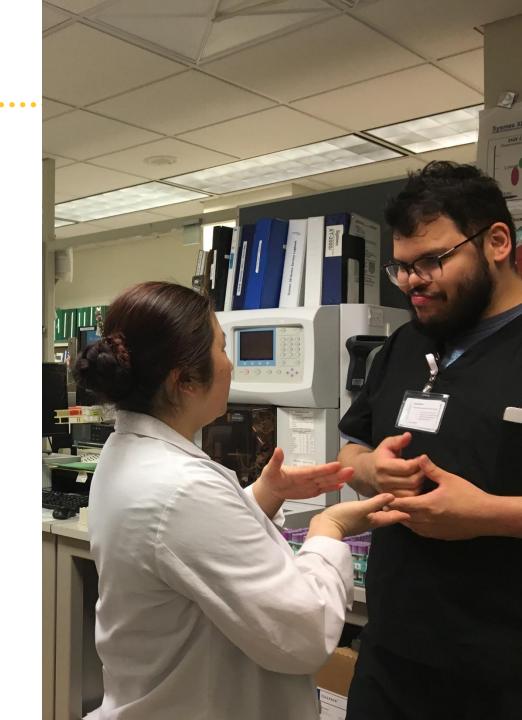


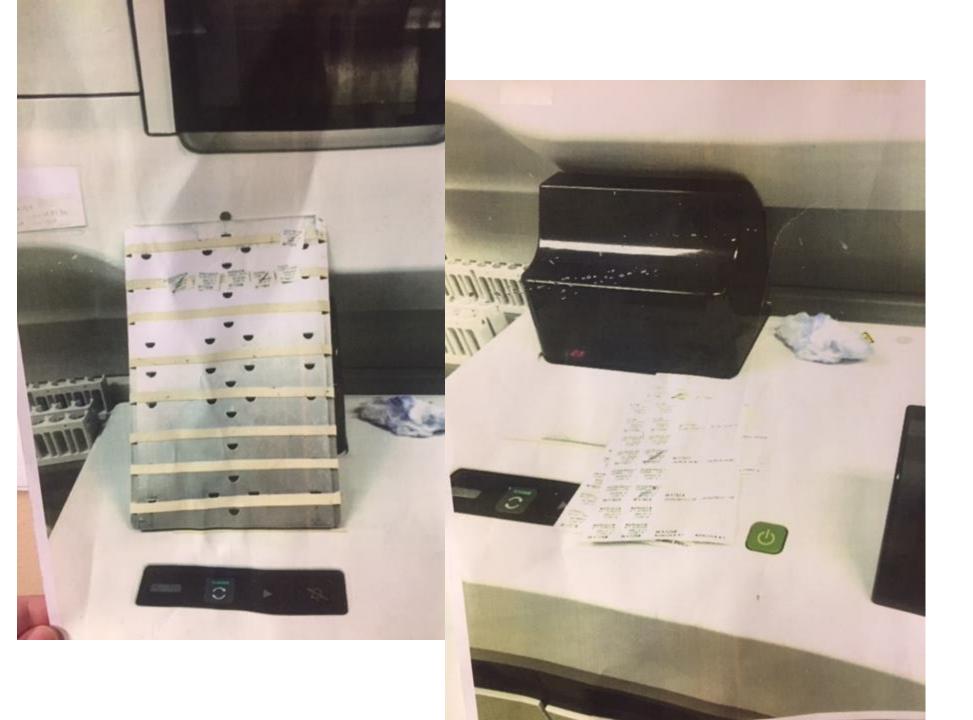


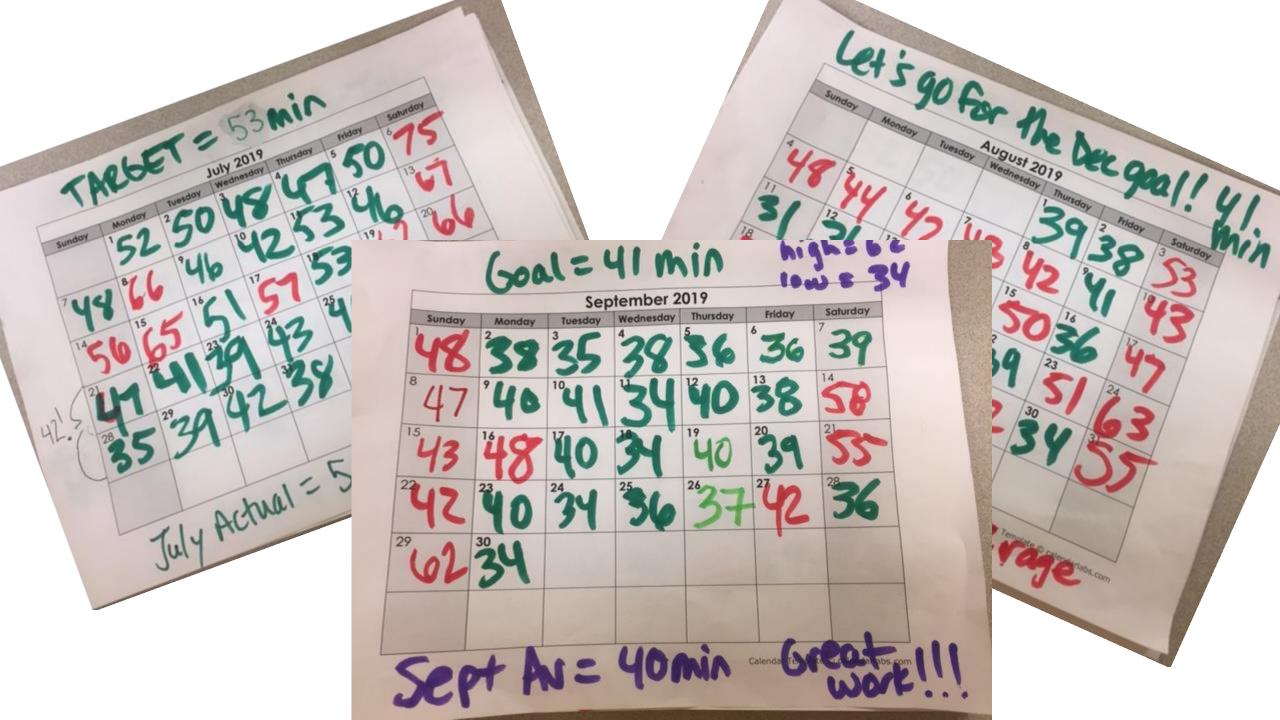


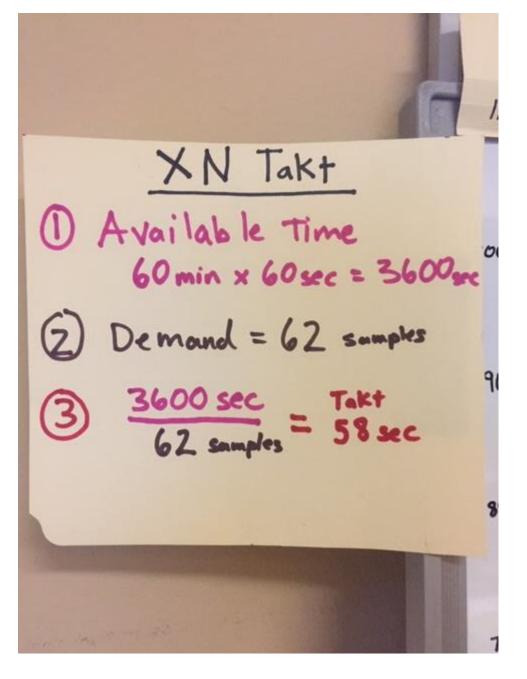


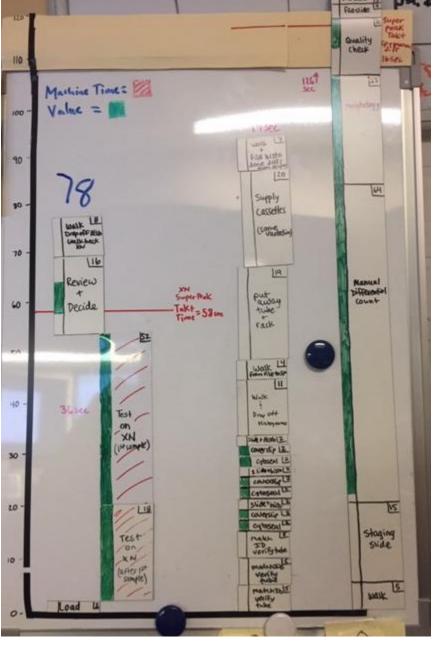


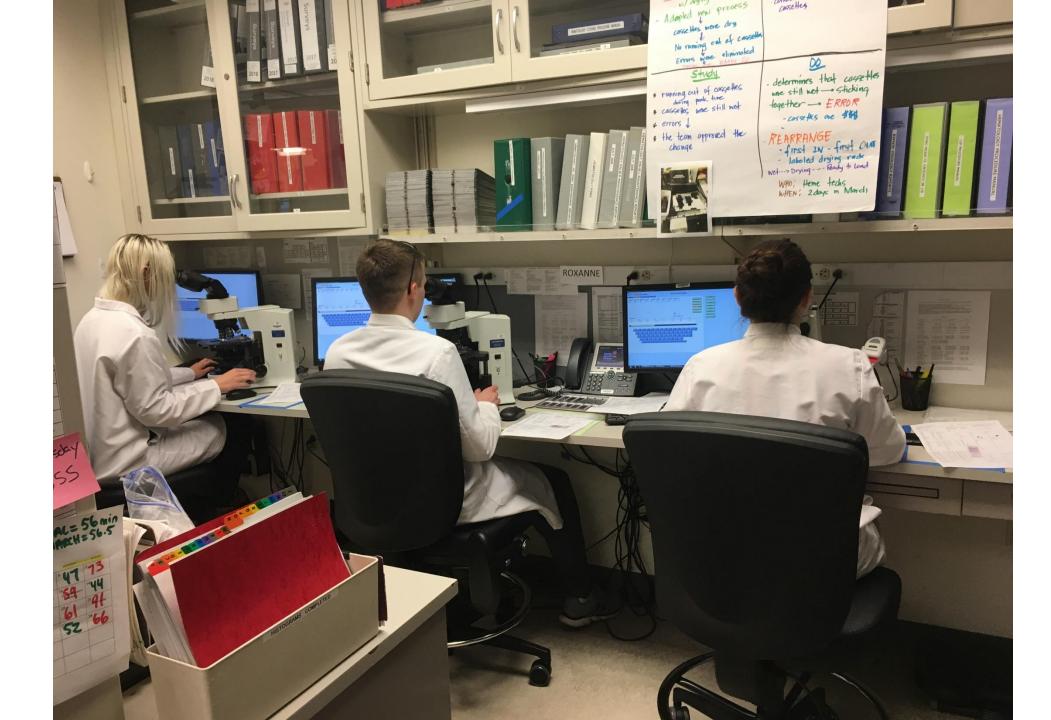




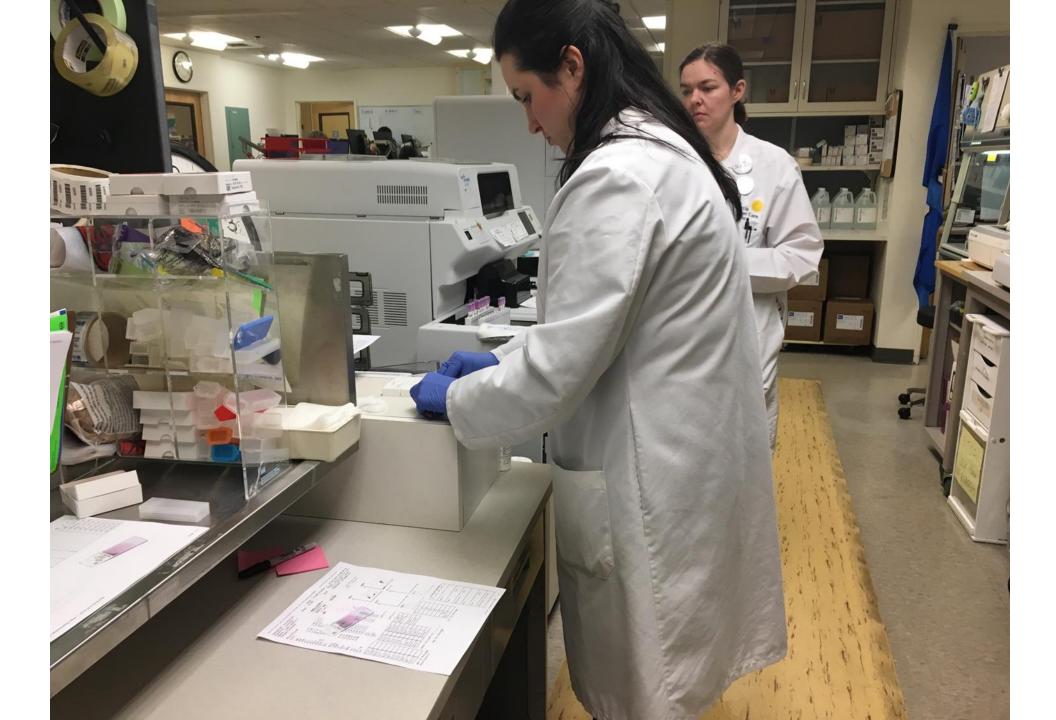


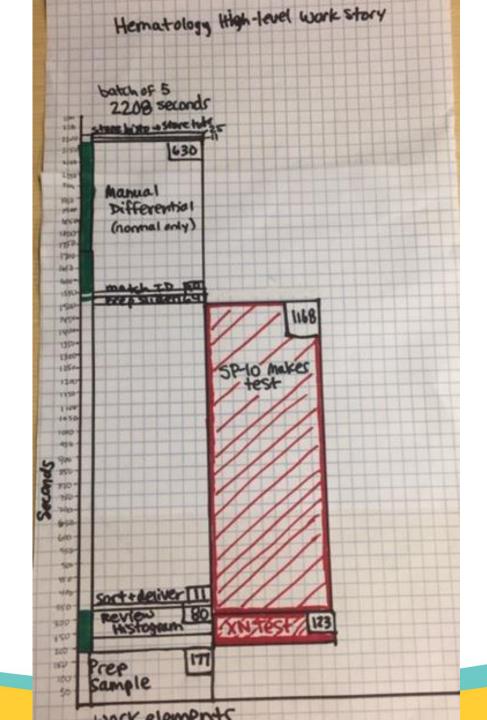












### **Collaboration & Connection**

