26TH ANNUAL

26TH LCI CONGRESS
OCTOBER 22-25, 2024

What is Scrum?

Tom Martin | Sutter Health
Felipe Engineer | The Boldt Company

SURFING THE WAVE OF LEAN DESIGN AND CONSTRUCTION

OCTOBER 23, 2024



© LEAN CONSTRUCTION INSTITUTE





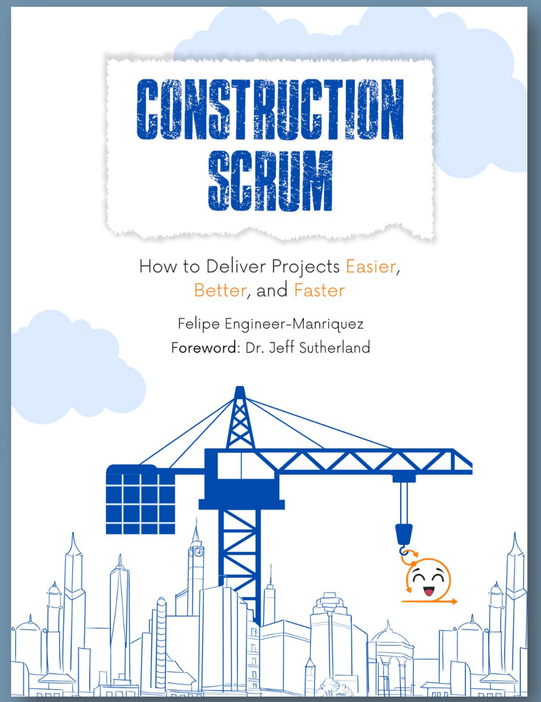
Felipe Engineer-Manriquez

Project Delivery Services Director

The Boldt Company







Introductions

As a developing project leader, we need to get to know one another so that we can work and learn together effectively.

Introductions

As a developing project leader, we need to get to know one another so that we can work and learn together effectively.

Using your fingers, rate your Scrum experience by holding up finger numbers.

1. **I've never heard of it until this meeting.**
2. **I'm aware.**
3. **I use it on my project.**





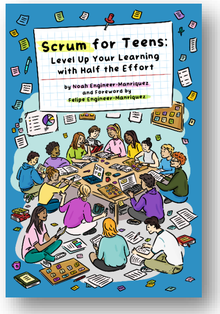


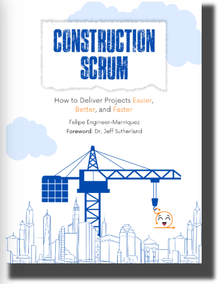


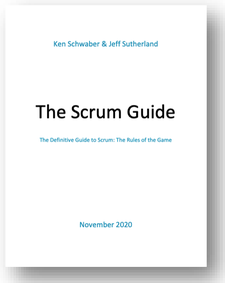
SCRUM HAS A HISTORY OF TRANSFORMING WORK

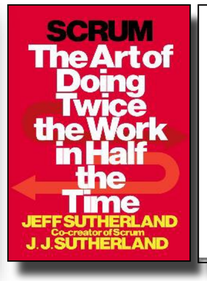
Are you working too hard?

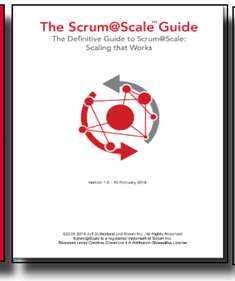
Join the people using Scrum to work easier, better, and faster while thriving in an ever-changing world.



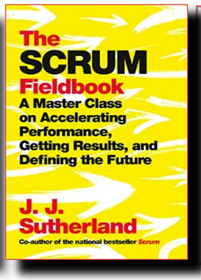






















SCRUM HAS A HISTORY OF TRANSFORMING WORK

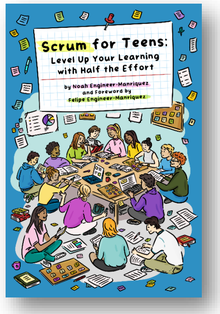
Are you working too hard?

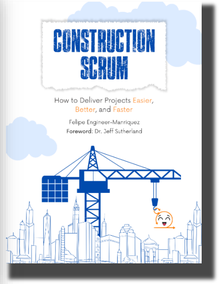
Join the people using Scrum to work easier, better, and faster while thriving in an ever-changing world.

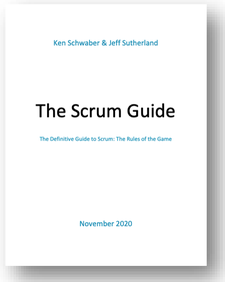
Take advantage of worldwide, cross-industry transformation experiences with these resources.

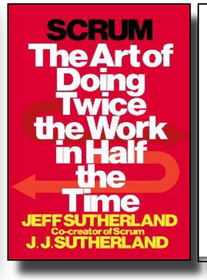
Let's connect to change the workplace for the better.

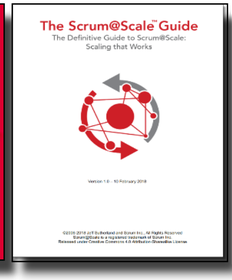
https://thefelipe.bio.link/



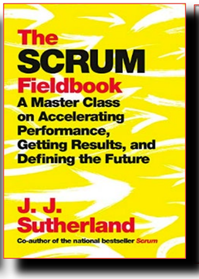






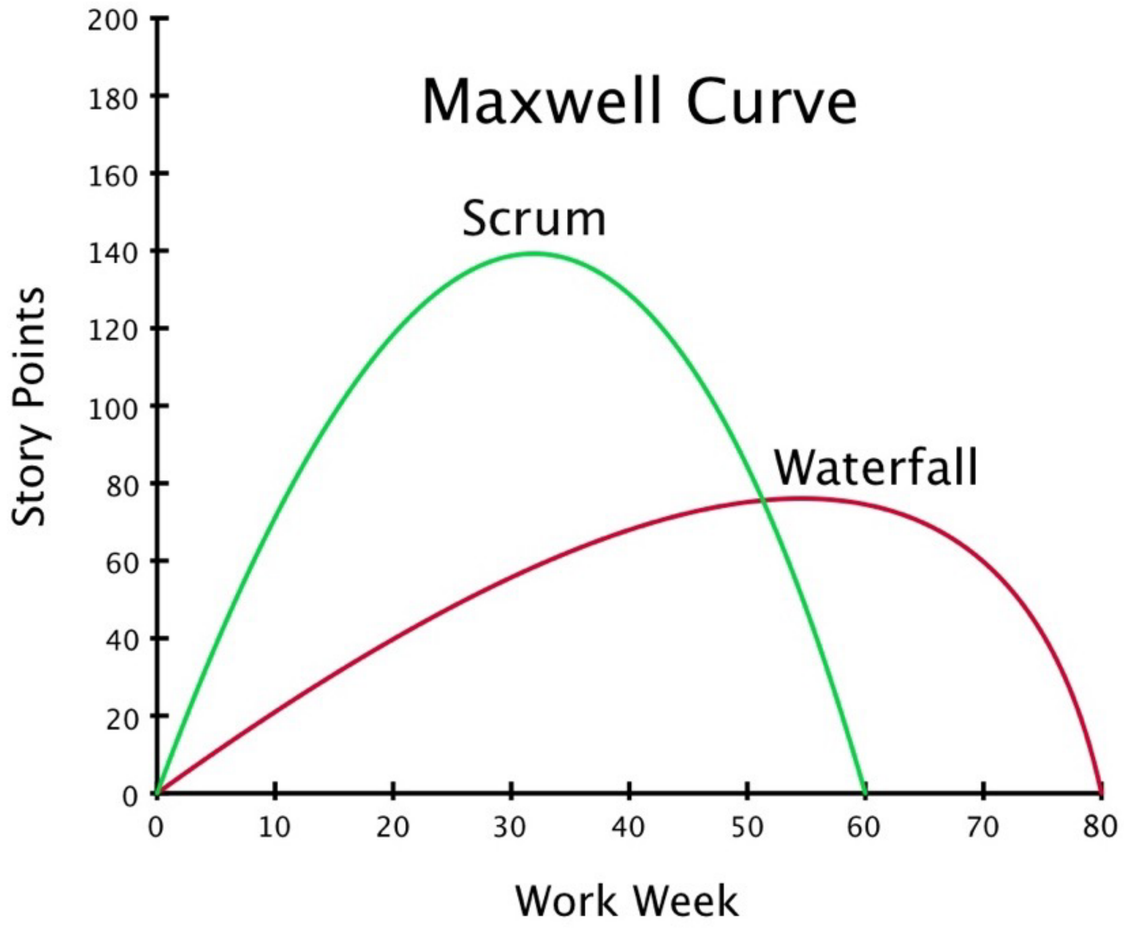








Sustainable Pace Increases Productivity



Take No Prisoners: How a Venture Capital Group Does Scrum
Sutherland, J. ; Altman, I.
Agile Conference, 2009. AGILE '09.
DOI: 10.1109/AGILE.2009.29
Publication Year: 2009 , Page(s): 350 - 355
Cited by: Papers (4)
IEEE CONFERENCE PUBLICATIONS

"If you don't get three times the results in one-third the time, you aren't doing it right!"
--Scott Maxwell, Founder & Senior Managing Director, OpenView Venture Partners

Construction Scrum Case Studies

Scrum for New and Existing Construction

- Eliminated weekend and night work
- Completed hospital project while simultaneously managing up to six on-campus, million-dollar projects



The EBFC Show Episodes About Blog Store Reviews Sponsors

AUG. 13, 2021

Construction Scrum Case Studies

Tweet Share Share

Scrum is a team framework that allows complex projects to be delivered with adaptation yet supports people to productively and creatively produce work at the highest possible value for customers. It is perfectly suited to meet the demands of the design and construction industry -- no matter the project, the challenge, or the situation.

Construction Scrum Case Studies

Scrum for New and Existing Construction

- Eliminated weekend and night work
- Completed hospital project while simultaneously managing up to six on-campus, million-dollar projects

Scrum for Preconstruction (PreCon)

- Eliminated weekend work
- Team productivity **tripled**



The EBFC Show Episodes About Blog Store Reviews Sponsors

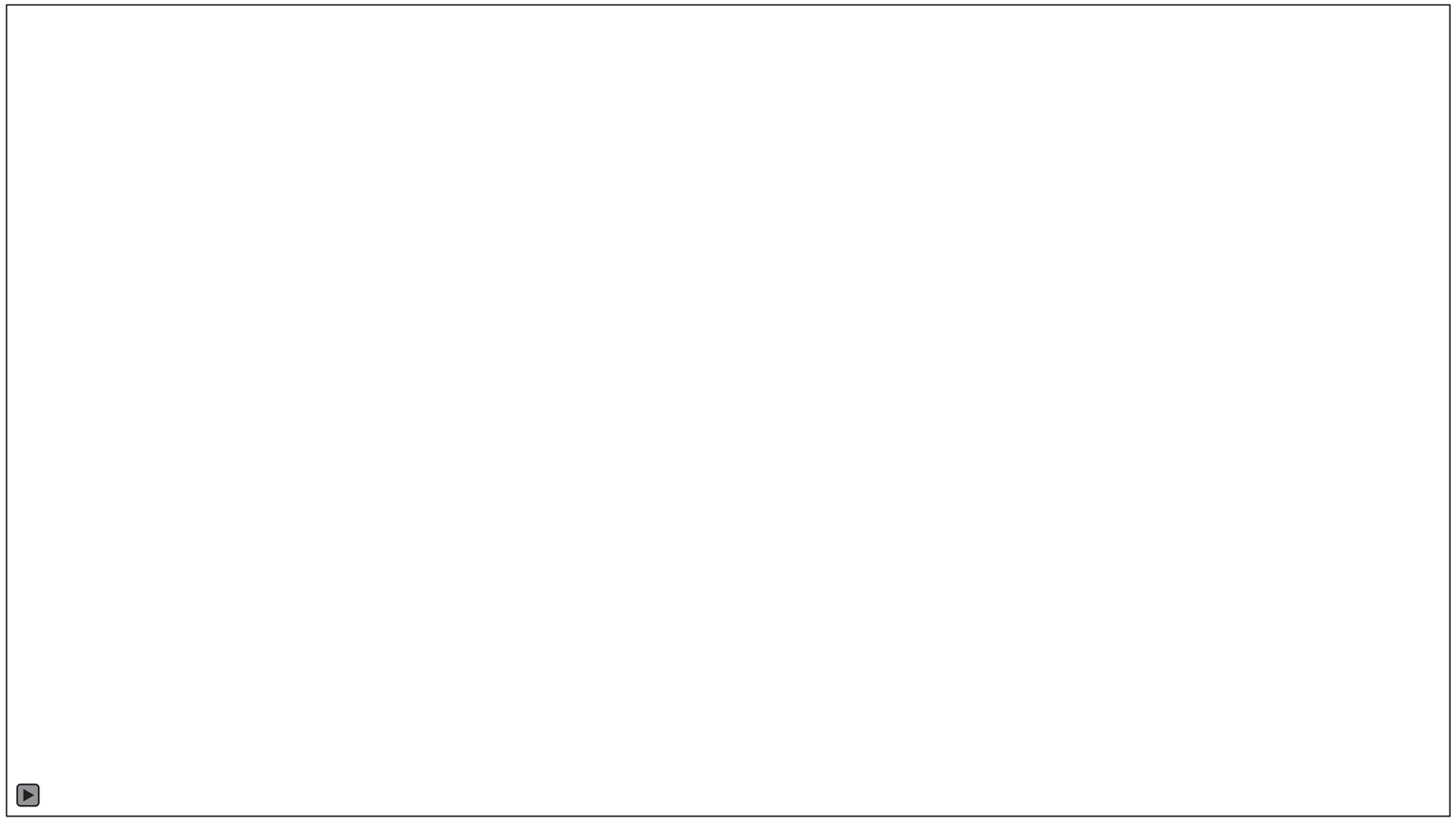
AUG. 13, 2021

Construction Scrum Case Studies

Tweet Share Share

Scrum is a team framework that allows complex projects to be delivered with adaptation yet supports people to productively and creatively produce work at the highest possible value for customers. It is perfectly suited to meet the demands of the design and construction industry -- no matter the project, the challenge, or the situation.

Case Study: Boosting Productivity in PreCon



https://www.theebfcshow.com/blog/construction-scrum-case-studies/

Scrum In Design for More Creativity

SPRINT PLANNING

PROJECT BACKLOG

ARCHITECTURAL

Finalize CLT details

FINALIZE EXITING STRATEGY

final archive model

Final Tender Set

QA/QC set

CONSULTANT COORDINATION WORK

WORK WITH CLIENT

Evaluate VE options

SPRINT#1 BACKLOG

AILAN HARRY GREG LUKE SCOTT P.

Sprint #1 Interiors/Finis... 11

Buffer

Sprint backlog items:

Millwork review

Interior finishes/colour

Coordination of room

Finalize door/hg

Interior elevation

exterior cladding option for phenolic

finalize lighting/ceiling

coordinate lighting with ceilings and solar

PDF Client Review set

To Do 18

UPDATE WORKBENCH DETAIL IN THE

REVIEW WORKBENCH

UPDATE DINING TABLE

REVIEW DINING TABLE

MODEL TV CRADENZA

REVIEW TV CREDENZA

DETAIL TV CRADENZA

COMPLETE SHELVING IN THE RIP AND RUN

REVIEW RIP N RUN

COMPLETE CAPTAIN'S OFFICE WOOD CEILING

UPDATE VERTICAL ELEMENTS IN

ADD ADJUSTABLE SHEVLING TO CAPTAIN'S OFFICE

ADD PLAN DETAIL FOR BOOKSHELF (2)

ADD NEW KITCHEN RANGE HOOD FAMILY

REVIEW WALL BETWEEN DINING AND

REVIEW HG UPDATES

REVIEW FURRING

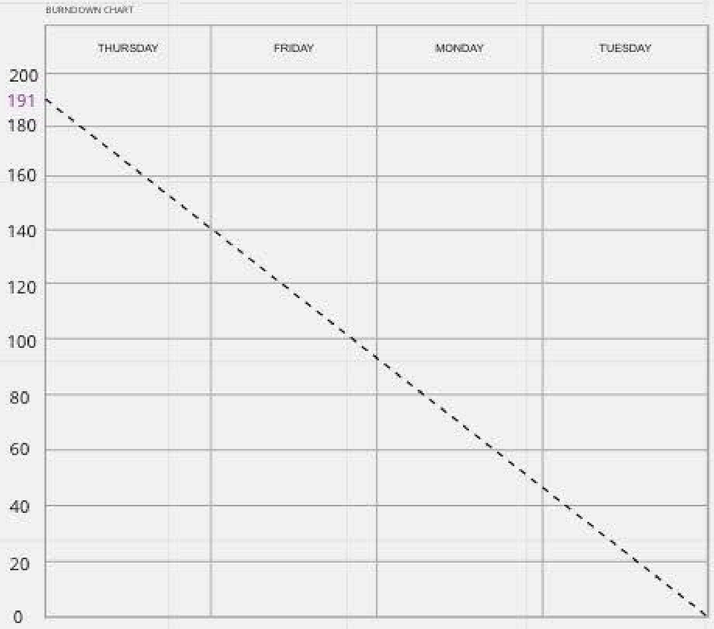
CHOOSE 2-3 OPTION EXTERIOR MATERIALS

Doing 0

Done 1

UPDATE PANTRY DETAIL IN THE

BURNDOWN CHART





Ailan McKenzie · 1st

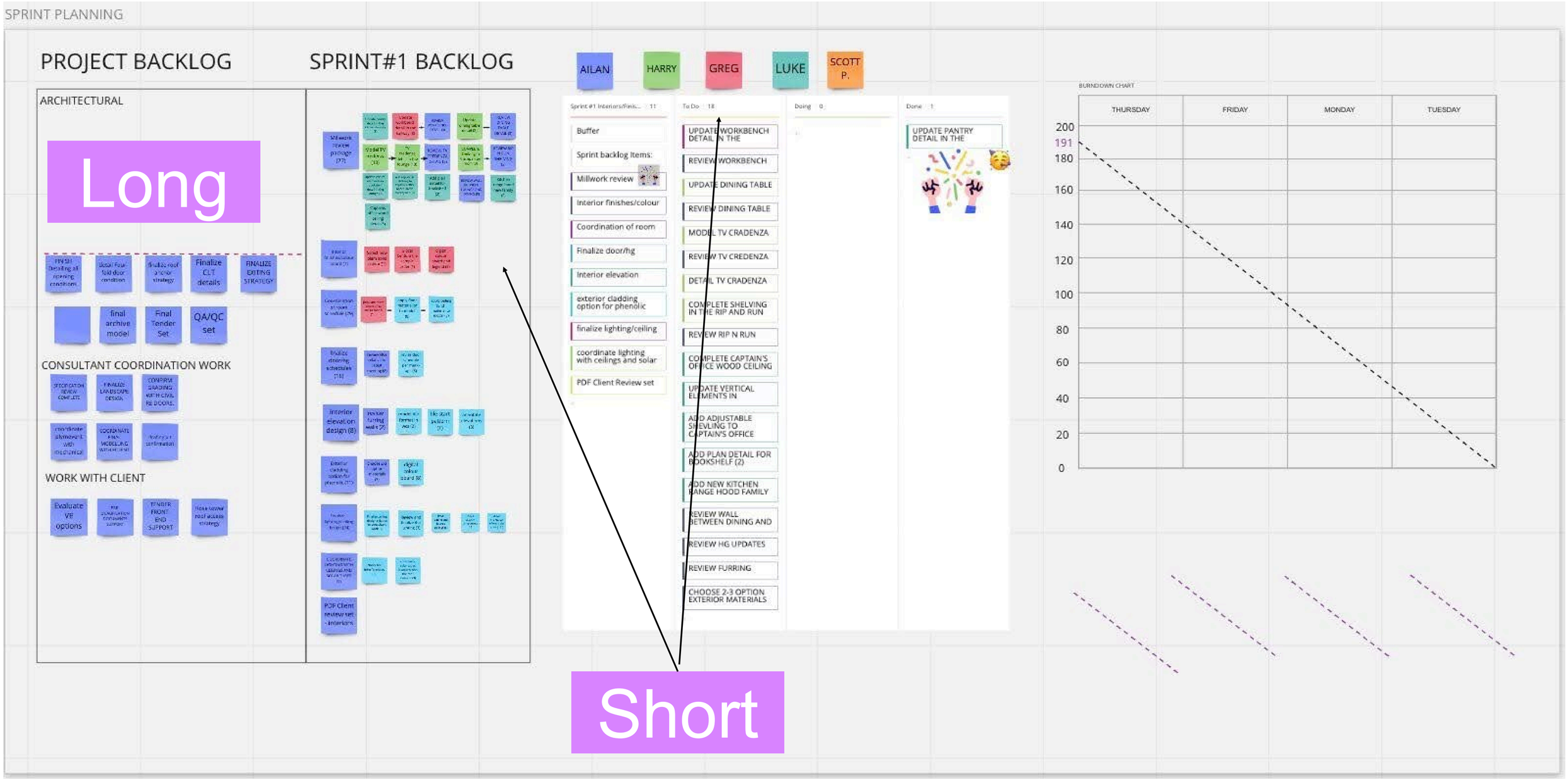
Project Lead, Senior Healthcare Architect at Lett Architects Inc.

Peterborough, Ontario, Canada · Contact info

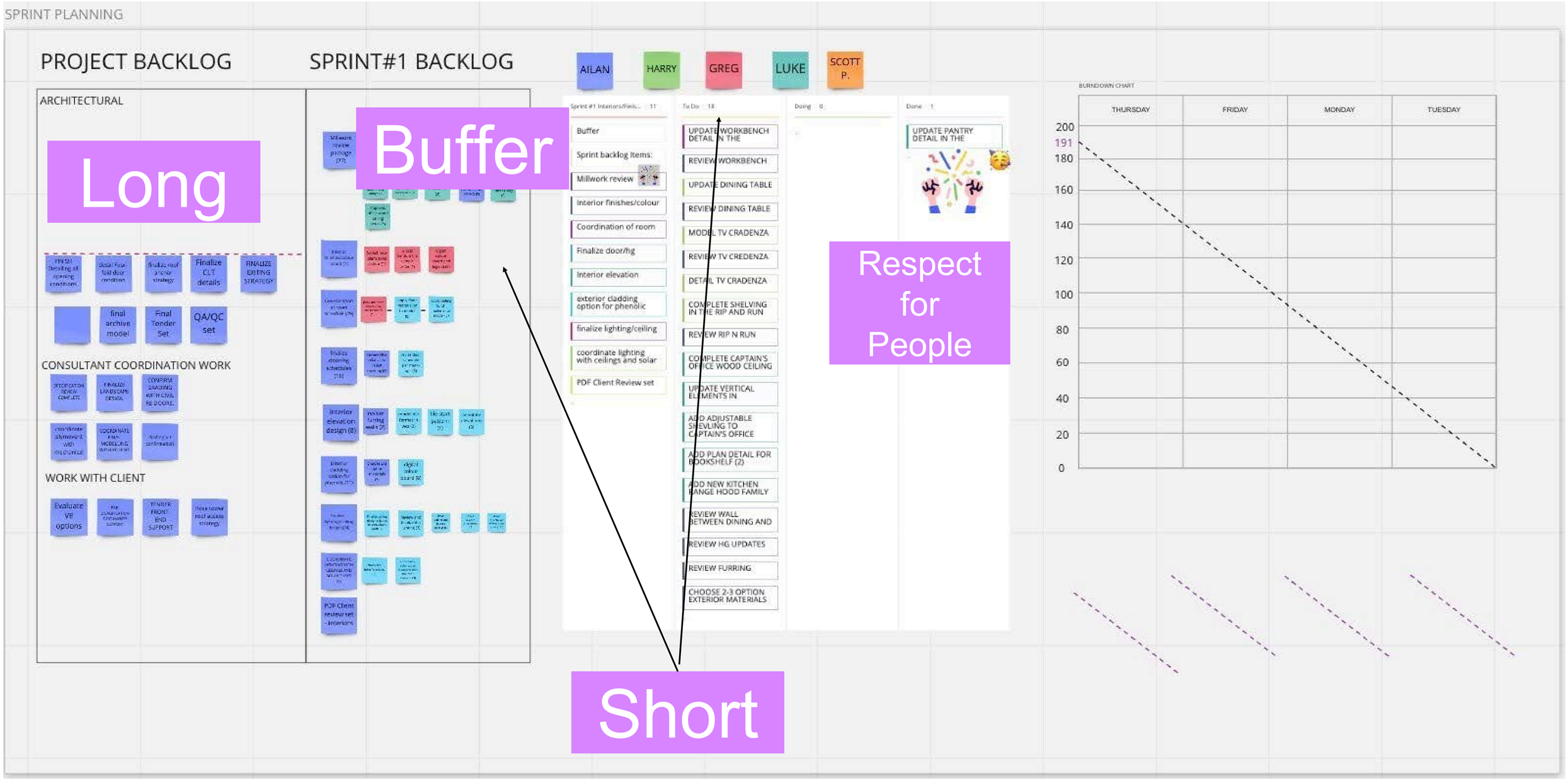
Lett Architects Inc.

University of Waterloo

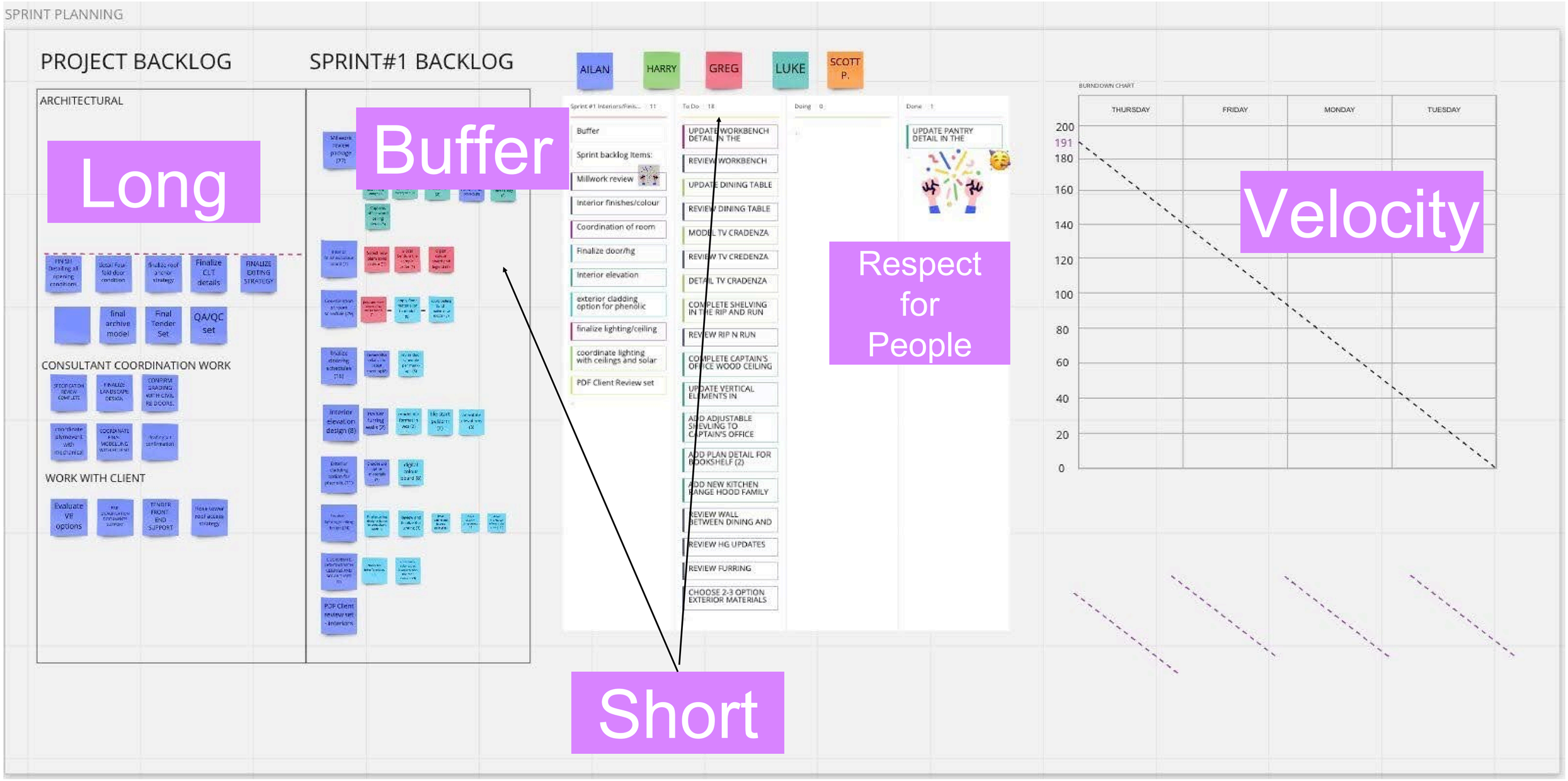
Scrum In Design for More Creativity



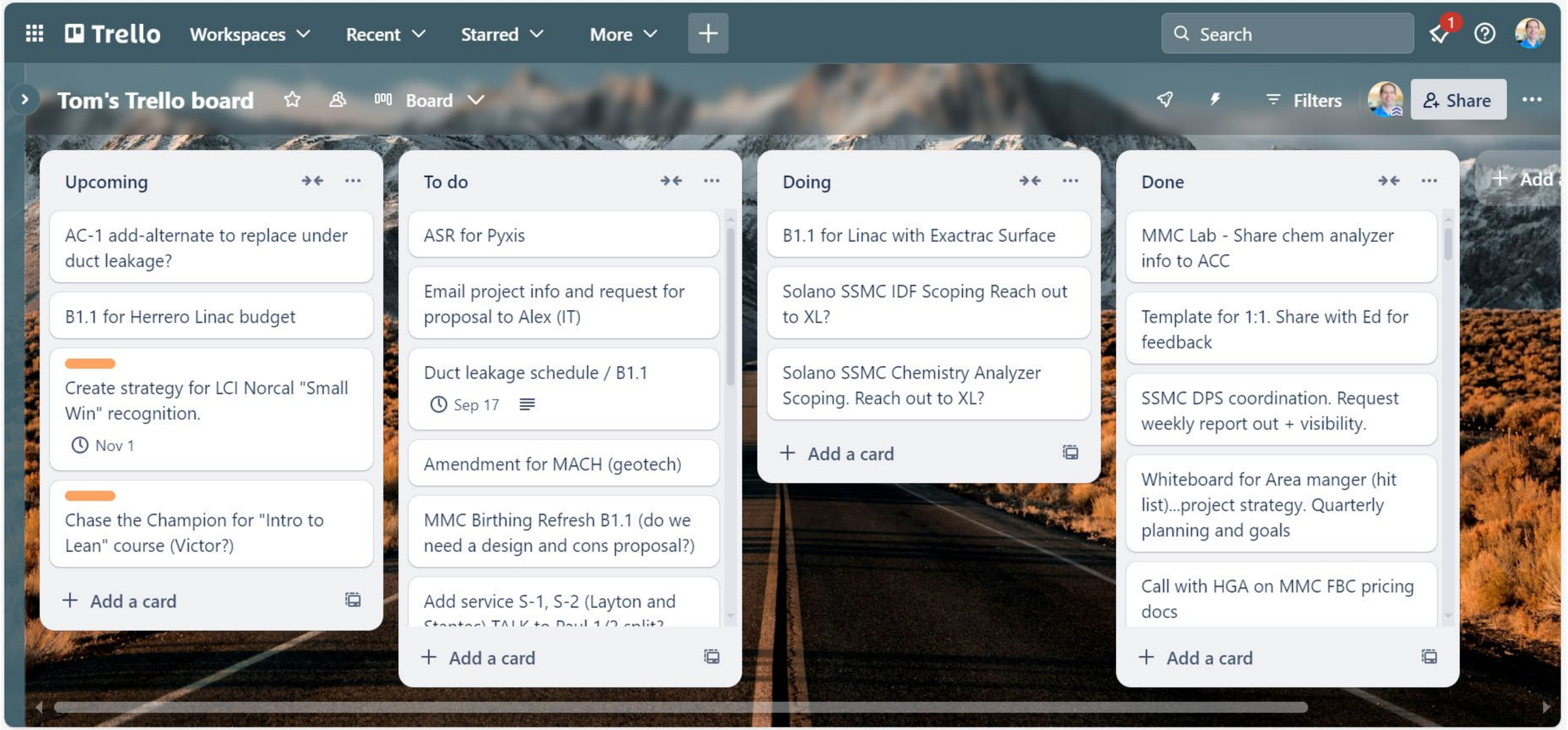
Scrum In Design for More Creativity



Scrum In Design for More Creativity



Scrum for owners

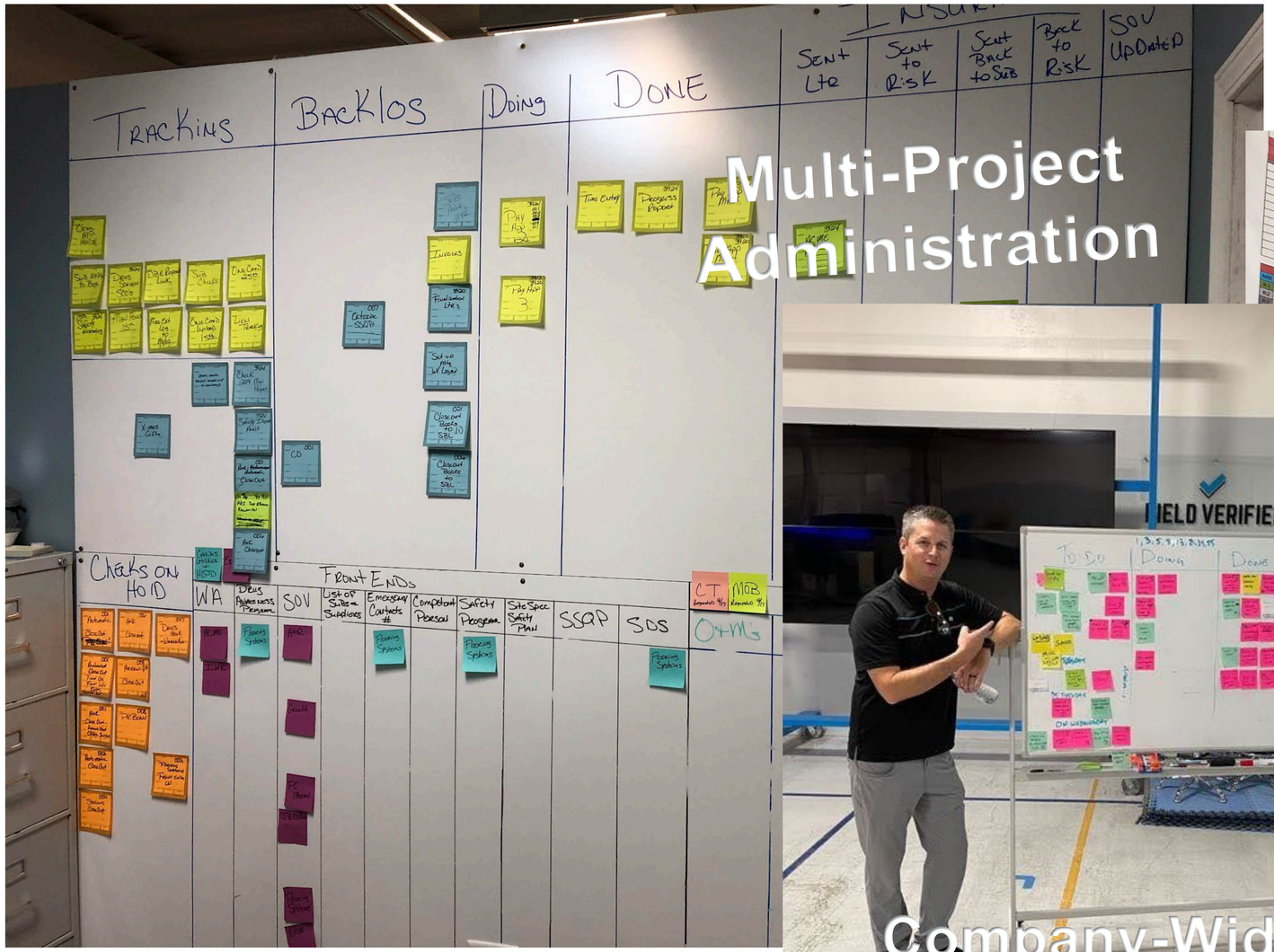


Scrum In Construction for Pursuits & More





Even More Scrum In Construction



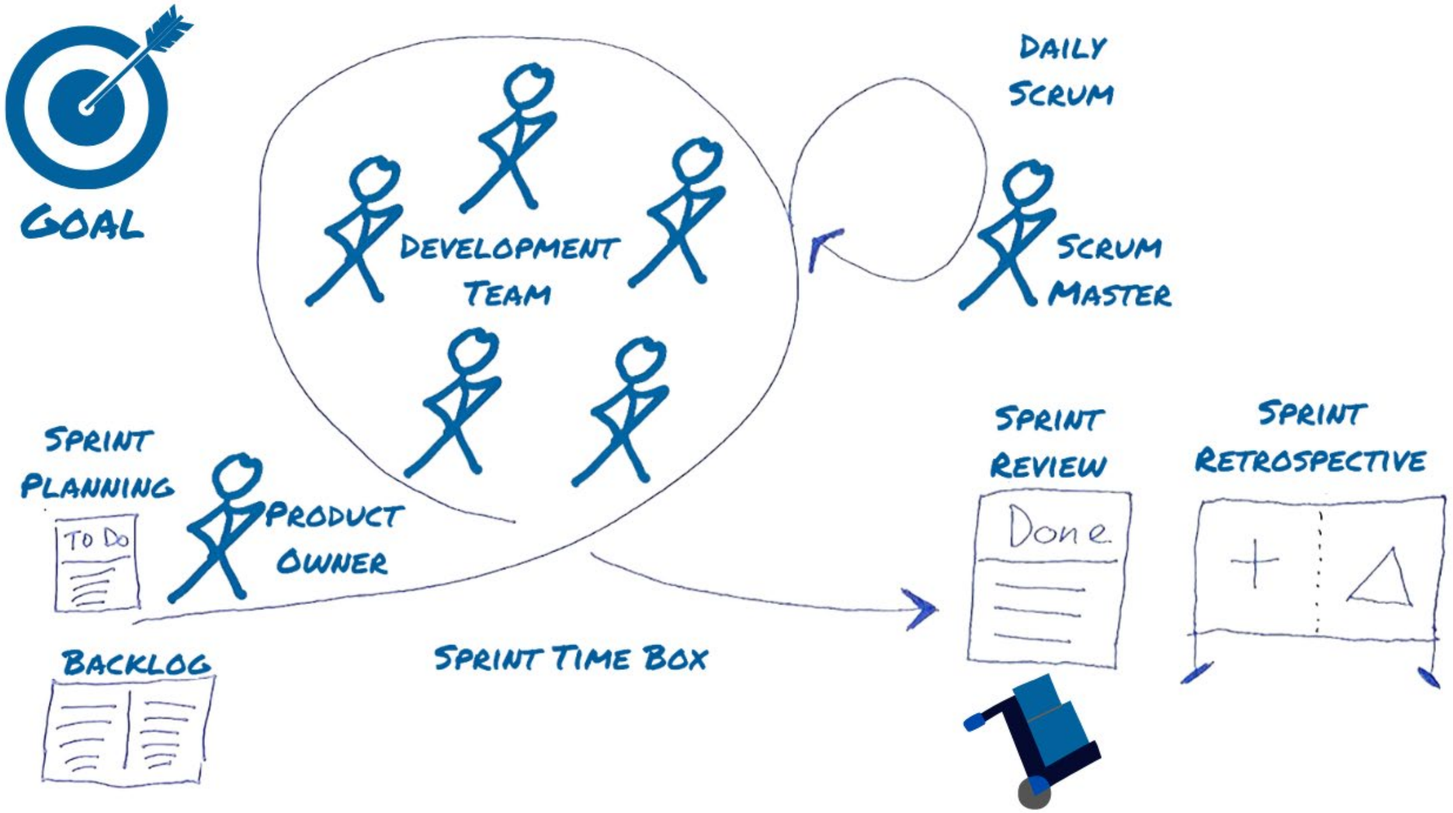


Why use Scrum in my industry?

As a professional, I want to know why anyone would use Scrum at all, so that I can figure out why my team should use it.



Complexity.



Scrum is adaptive. The framework is scalable to meet changing needs and project delivery requirements.







Complexity.

“

My mission is and has **always** been to share Scrum with the world and free people from the oppressive ways of working that have become entrenched. Today, more and more companies see the benefits of Agile and need people that both understand the mindset and can actually deliver results.”

DR. JEFF SUTHERLAND

CO-CREATOR OF SCRUM, CREATOR OF SCRUM@SCALE, & SIGNATORY OF THE AGILE MANIFESTO



The Scrum Framework

As a Scrum practitioner, I need to know the Scrum framework so that I can adapt it to my work.



Construction Scrum - [Audio Ch9] The Scrum Guide for Designers and Builders

constructionscrum.com/downloads

GOAL

DEVELOPMENT TEAM

DAILY SCRUM

SCRUM MASTER

SPRINT PLANNING

TO DO

PRODUCT OWNER

BACKLOG

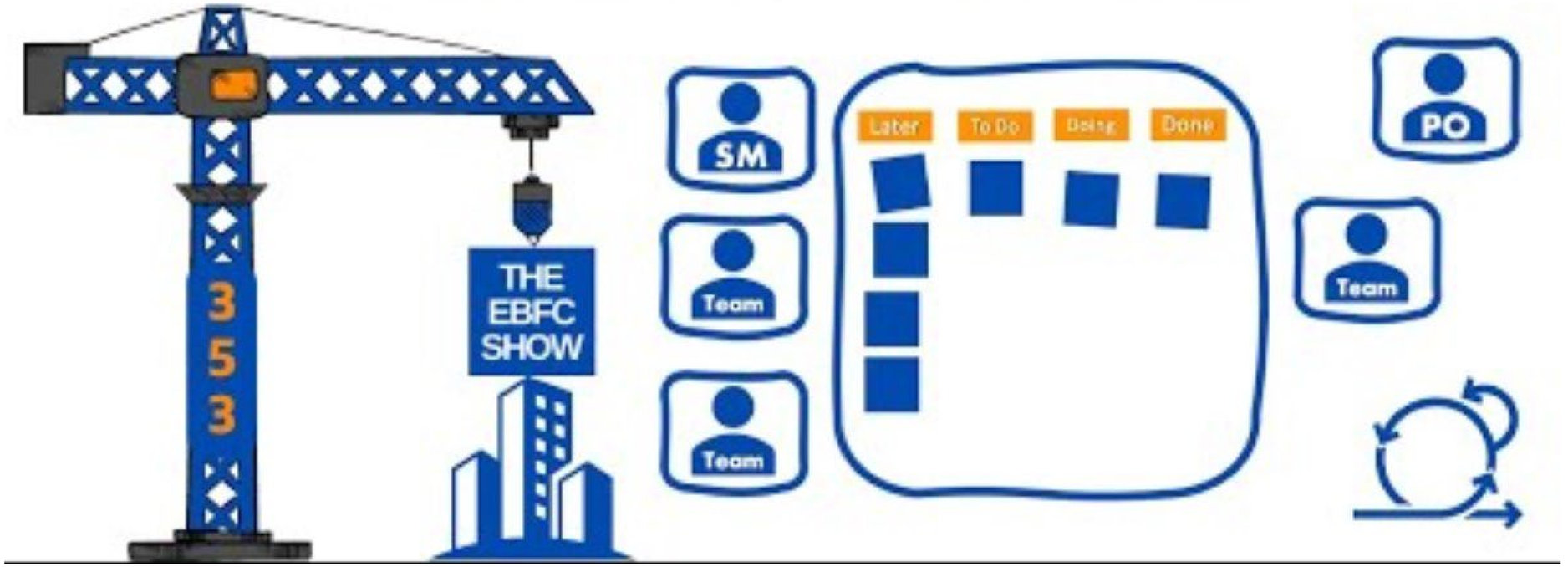
SPRINT TIME BOX

SPRINT REVIEW

Done

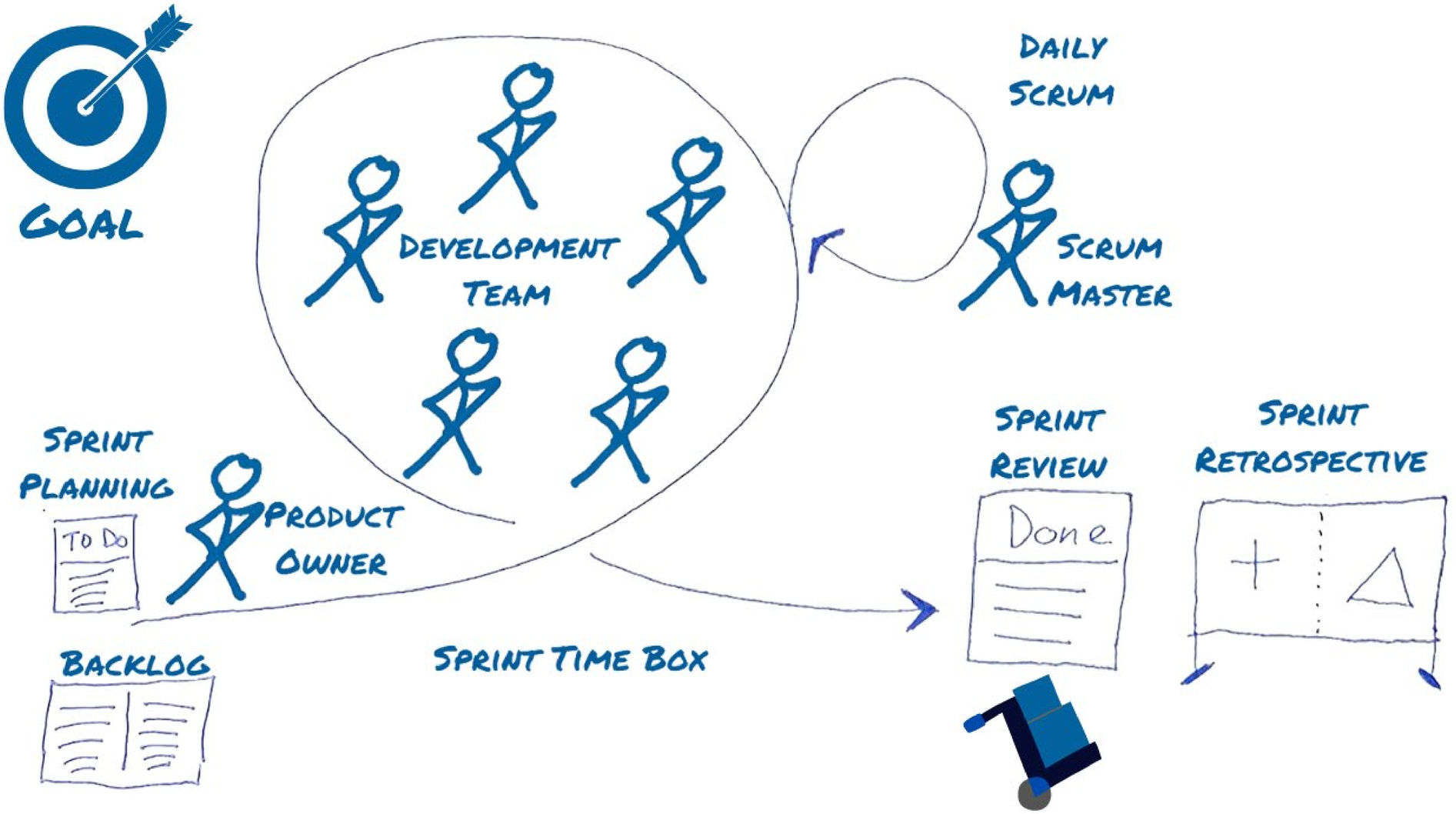
SPRINT RETROSPECTIVE

How does Scrum work in Construction?



https://youtu.be/OmFJ_RwoUN4

1 What goal do you want to achieve next week?

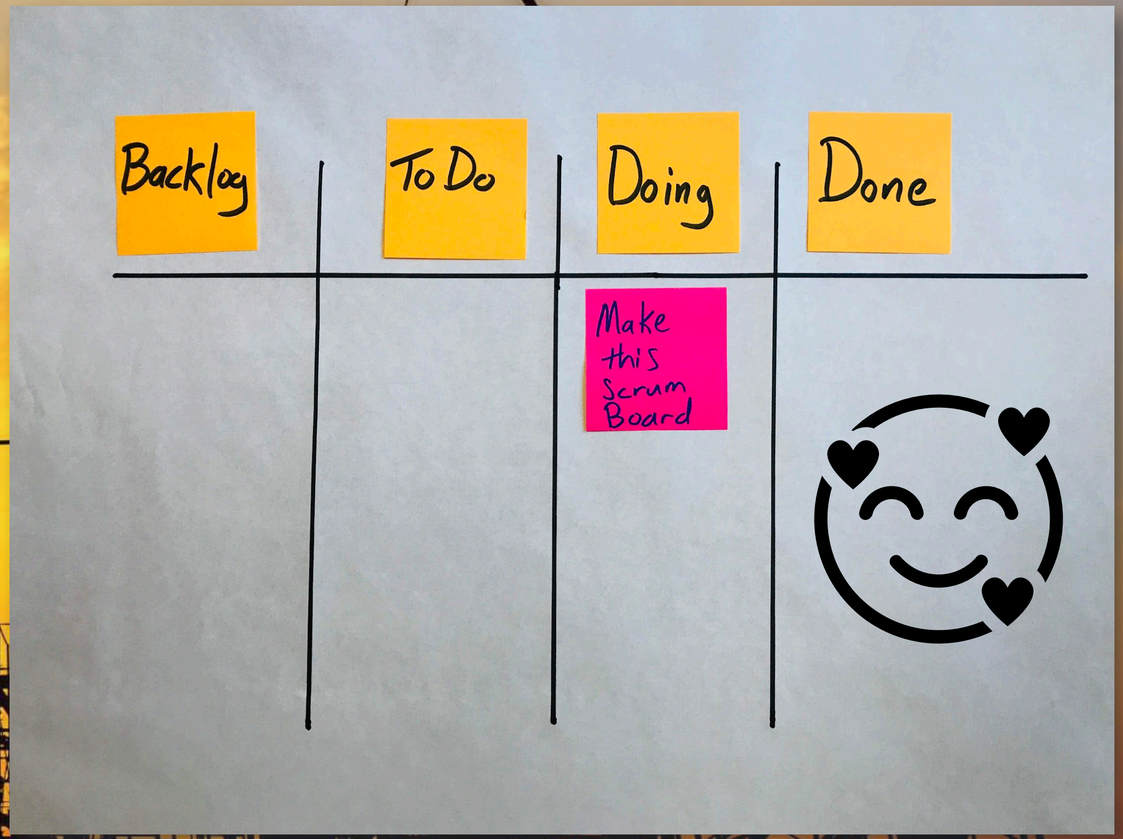


1 **What goal do you want to achieve next week?**

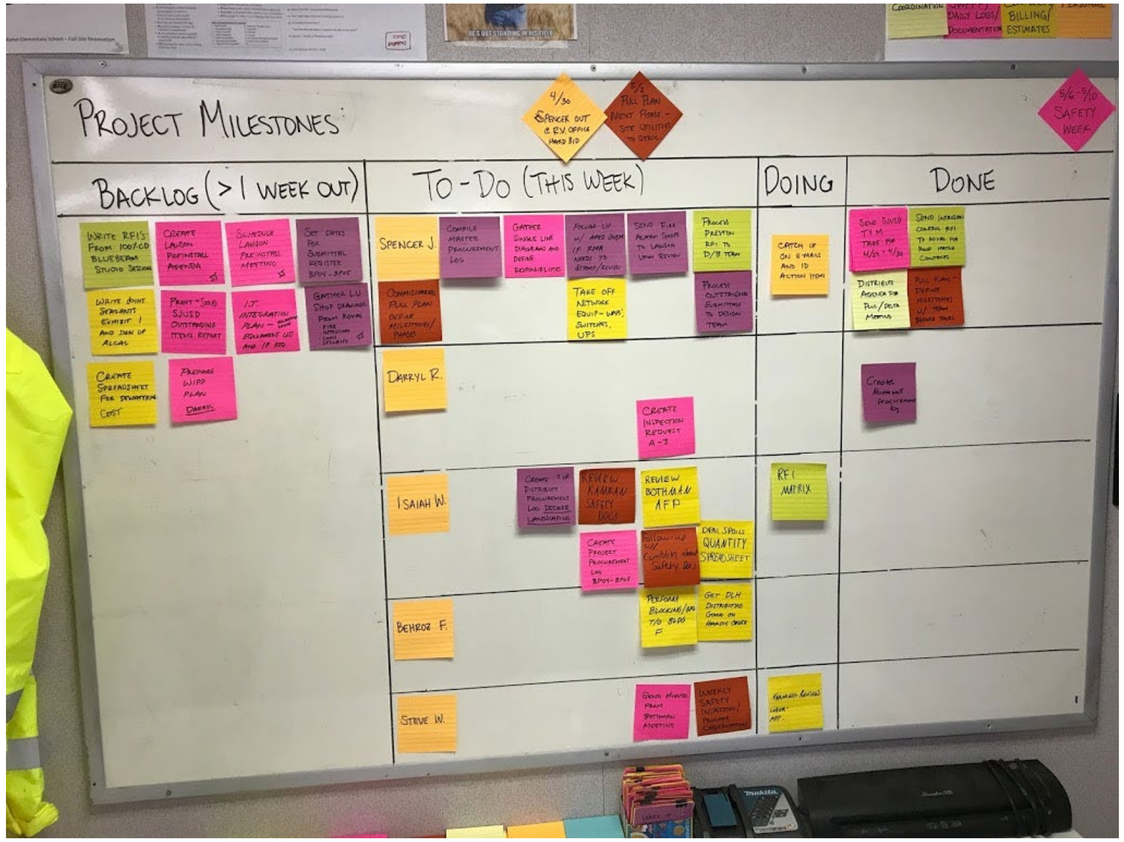


2 **Make work visible.**

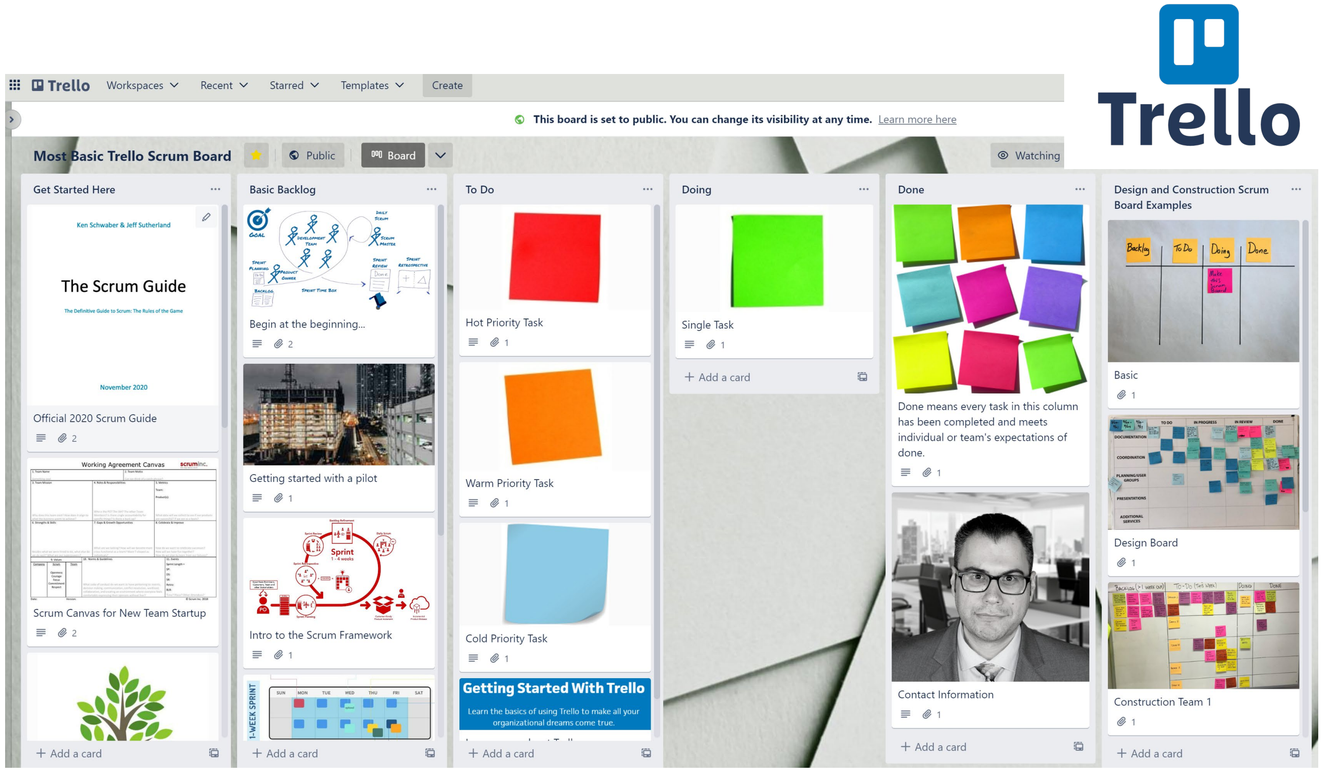
Make a Scrum Board



Project Scrum Board Examples



Analog
(Whiteboard + Sticky Notes)



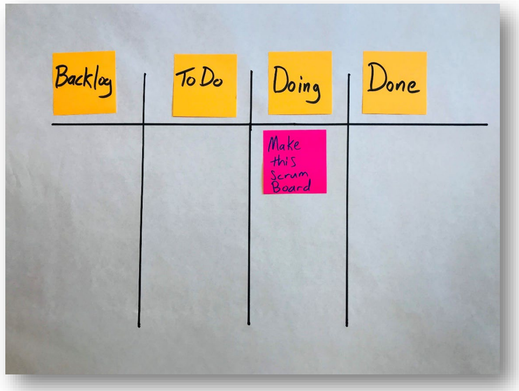
Digital
(Whiteboard + Multi-Media Cards)

1 **What goal do you want to achieve next week?**



GOAL

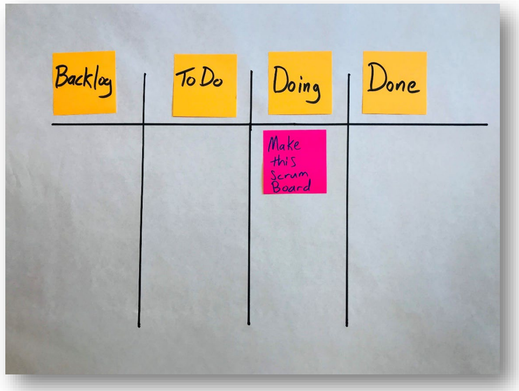
2 **Make work visible.**



1 What goal do you want to achieve next week?



2 Make work visible.



3 Sprint Time Box

Start small:

- **1 week or less**
- **Check progress daily**

To Do	Doing	Done
	How will you implement this today?	

Thank You

Stay Connected



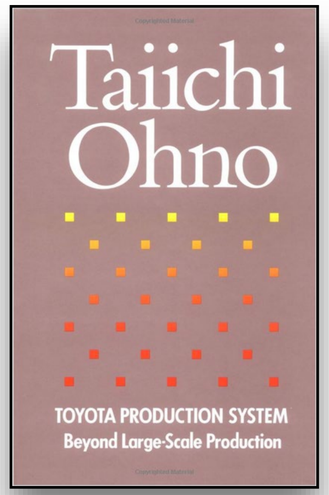
https://thefelipe.bio.link/

REGISTERED SCRUM TRAINER by scruminc.

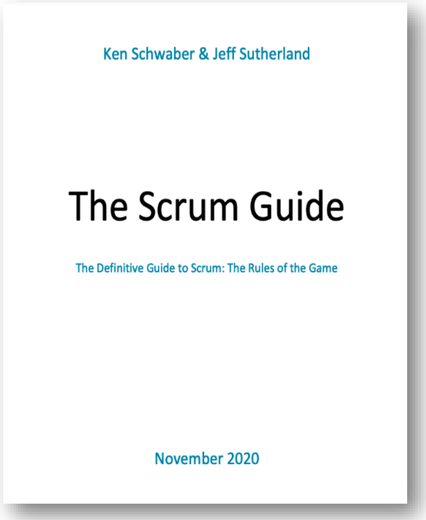
To Do	Doing	Done
Practice Scrum Daily	How will you implement this today?	Understand the benefits and challenges of Scrum for construction projects Identify the key elements and principles of Scrum Apply Scrum to a realistic construction scenario Adapt Scrum to different contexts and situations

Scrum and Lean Connection

TPS
1950s



Scrum Guide
1990s - Today

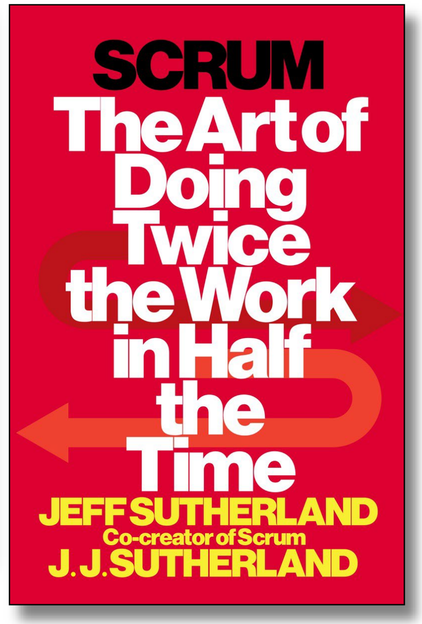


One Parent

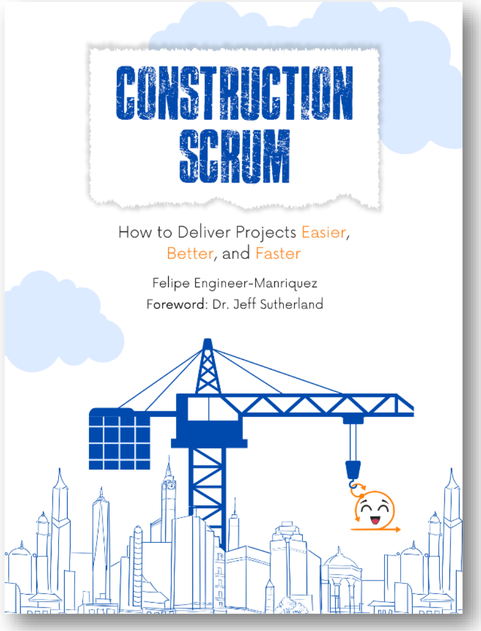
Agile
2001



Scrum
Red Book
2014



Construction
Scrum
2021



26TH LCI CONGRESS
OCTOBER 22-25, 2024



In the spirit of continuous improvement, we would like to remind you to complete this session's survey! We look forward to receiving your feedback.

© LEAN CONSTRUCTION INSTITUTE

26TH LCI CONGRESS
OCTOBER 22-25, 2024

Thank you for attending this presentation. Enjoy the rest of the 26th Annual LCI Congress!



© LEAN CONSTRUCTION INSTITUTE