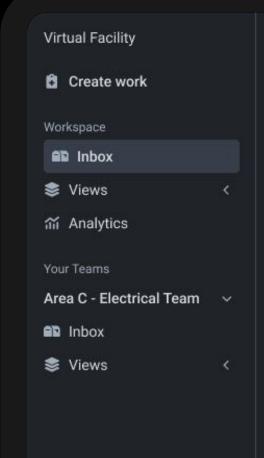
## Management Supertool

Jonathan Chang | Virtual Facility | 2024

#### **Quick disclaimer**

This case study focuses on one aspect of a broader, multifaceted initiative that I led. As a result, you may notice some overlap between this case study and the Reconceptualizing Navigation study.



Inbox :



All Spaces Equipment

Pending (3)	
<ul> <li>Saint Marks Flr 6 Operating Room 104</li> <li>W03843</li> <li>Service failure</li> <li>1 of 35 spaces affected</li> </ul>	1h 4m 40m
● Saint Marks AHU-SM-6-5	50m 32m
Building 3 VAV-3-5  W03845 Non-service failure  O of 35 spaces affected	44m 5m



utor	natio	การ		

Today		
4:55 pm	â	W4773 created for Building 3 AHU-6-7
4:43 pm	â	W4768 created for Chiller 3
3:39 pm	*	A10644 added to W4053
3:30 pm		A13558 added to W4450
3:18 pm	â	W4724 created for HBS AC-5-34
3:12 pm	â	W4613 created for Operating Rm 194.4
2:45 pm	â	W4585 created for Basement 10.05
2:15 pm		A10611 added to W4467

-1	resi	erc	лау	(	

11:42 pm	W4217 created for Jonsson VAV-19-3
11:40 pm	A11953 added to W4104

11:38	om .	â	W4123	created	for	Condenser 3	3-4

11:21 pr	n 📥	A119	55 add	ad to	MASS
11.Z1 DI	11 🚜	AIIO	oo auui	eu to	W4334

10:54	pm	ŵ.	AT:	1200	added	to v	<b>V4U</b> 9

7.57 nm	e	W/1070	orostad.	for	Building	1	HE-A
7:57 pm		W4U/9	created	TOT	Building	1	HE-4

#### 7:22 pm A10749 added to W4208

7:01 pm	â	W4064	created	for	Building	9	VAV	-6
---------	---	-------	---------	-----	----------	---	-----	----

#### 6:21 pm 🔒 W4047 created for Building 2 VAV-1-4

#### 4:22 pm A12060 added to W4064

3:51 pm 🔋 W4017 created for Operating Rm 105.4

## Contents

Insights	
Internal troubles	02
Process problem	03
Conclusion	04

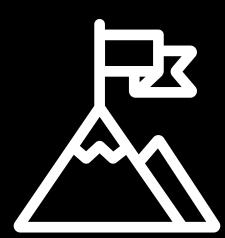
#### Overview

Virtual Facility (VF) had a Series A fundraise planned within the next year. One important aspect that was required was to increase our ARR.

Unfortunately, the customer success team reported that many customers weren't utilizing the product and was leaning towards not renewing.

The team wanted to understand why customers weren't engaging in the product and utilizing various features as expected. The final goal was to ensure renewals by increasing engagement and support over varying processes.

As Lead Designer, I focused on leading the discovery and design initiative.



## Business Goals

## Reduce customer time to value

Reduce the time customers wait to experience value after purchasing the product.



# Boost the engagement

Increase the number of users using Virtual Facility to triage alarms and increase actions taken.



## Maintain customer satisfaction

Ensure the product fulfills the customer's primary reason for purchasing.

Insights

## Building insight

#### **Internal conversations**

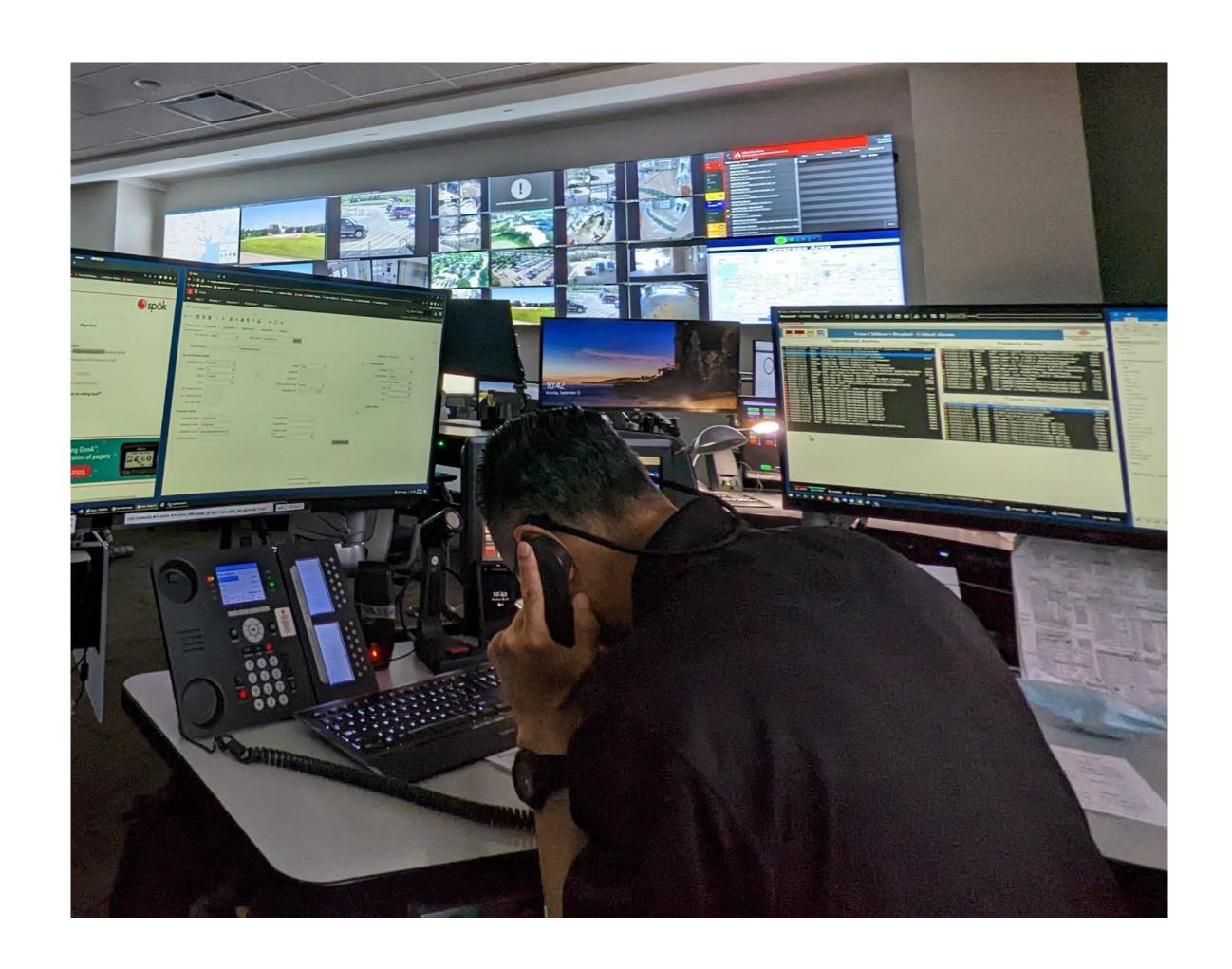
I organized knowledge-sharing sessions with various internal team, discovering reported issues and aligning mindsets.

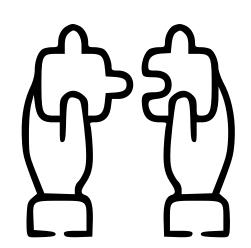
#### **Shadowing & user interviews**

Shadowing customers provided context on their workflows. Interviews were conducted when shadowing wasn't possible.

#### Metrics

I leveraged metrics from Pendo and the Engineering team to gain insight on user behaviors.





## Recognizing the problem



### Internal troubles

Internal misalignments and misfocus at VF contributed to worsening the problem.



Process problem

Complexity problem

Internal troubles

## Internal troubles

#### Limited perspectives

The champions Customer Success and Leadership had cadences with focused only on the managerial aspect of the product.

#### Roadmapping for champions

Due to constant communications between Leadership and customer champions, our roadmap was heavily influenced by champion requests.

#### Ambiguous personas

Due to the varying customer structures, the persona definitions would changed based on who was speaking.

## Internal troubles

#### Limited perspectives

The champions Customer Success and Leadership had cadences with focused only on the managerial aspect of the product.

#### Roadmapping for champions

Due to constant communications between Leadership and customer champions, our roadmap was heavily influenced by champion requests.

#### Ambiguous personas

Due to the varying customer structures, the persona definitions would changed based on who was speaking.

### False sense of positivity

Aging champions valued leaving a legacy and focused on short term achievements, constantly praising our efforts.

#### **Pressuring Customer Success**

Focusing on champion requests didn't allow for improvement in other aspects of the product, increasing support requests.

#### **Increased miscommunications**

→ Cross-functional communication suffered resulting in unclear directions and mistakes.



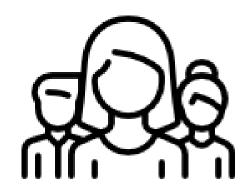
## Champion feedback

### Re-evaluating feedback value

A quick change we made was to how much the company would value requests coming from these champions.

### User panel and questionnaires

Due to the difficulty of meeting with end users, I started an initiative to find and create a user panel. Additionally, I pushed to include in-app questionnaires.



## Realigning personas

#### Focusing on workflow

With a short turnaround and the wide breadth of responsibilities of each role, I proposed thinking about our users through workflows.

#### North Star

In transitioning to the user problems, this crucial shaped how I thought to simplify the product.

## Results & Prioritization

#### Support and bandwidth

The reassessment in the value of champion feedback helped reorganize our roadmap, freeing up bandwidth to tackle larger initiatives.

### Prioritizing customer problems

With the change, I worked with my PM to prioritize the identified issues based on size and potential business impact.

# 

Process problem

# The process problem

#### Varying processes

The rigid solution VF delivered did not fit many customer's processes, complicating their workflows instead.

#### Little to no benefit

End users found the solution too similar to their current tools while offering little upside.

# 

## Finding direction

#### Avoid replacing tools

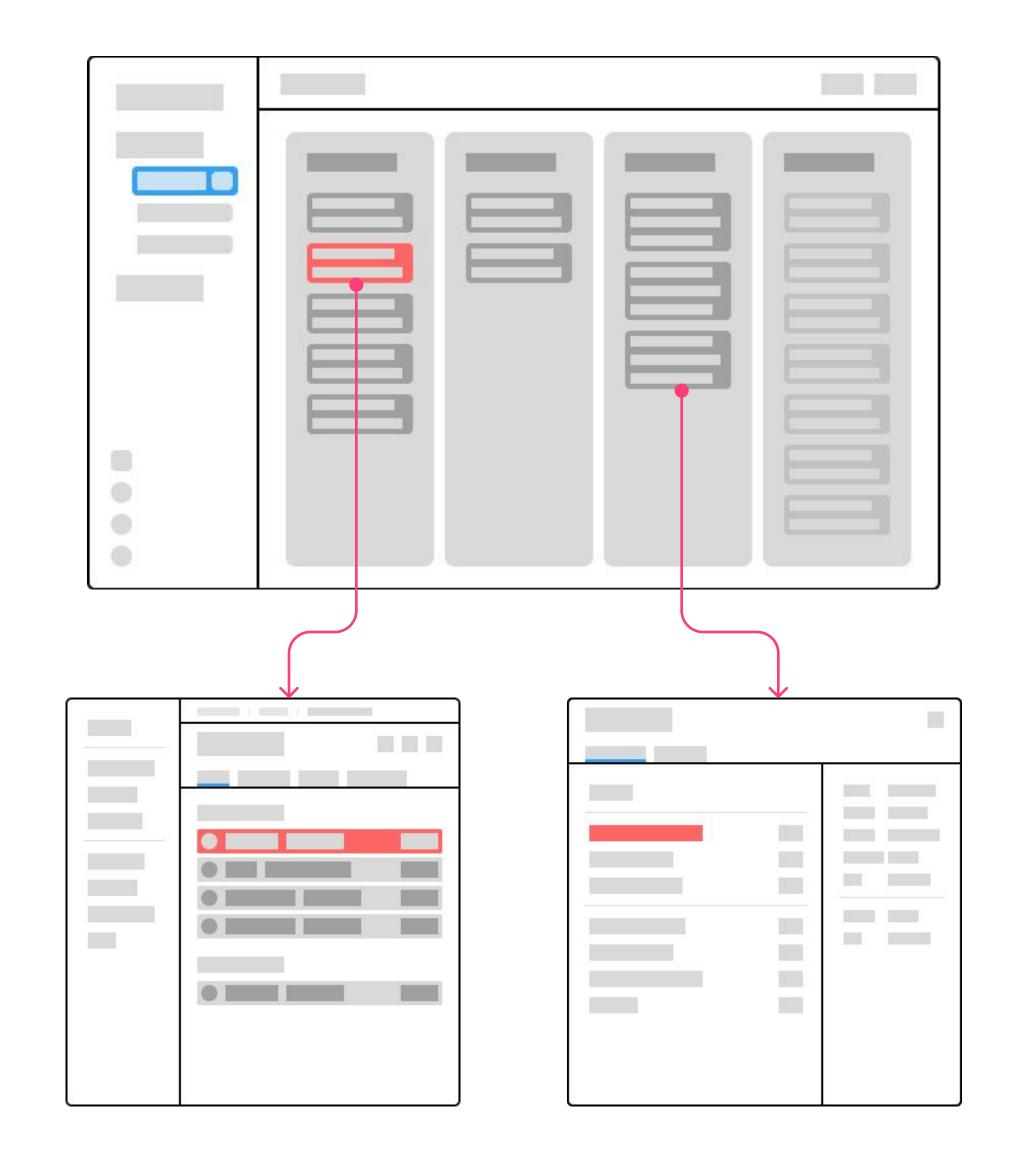
Designing a solution that helps users replace their antiquated tools would require extensive work with little benefit.

#### A common thread

I wanted the solution to be flexible in order to support a wide variety of users.

#### Creating a holistic vision

I saw various opportunities for VF to grow its product. My goal was to connect different ideas with my design vision to create a cohesive experience.

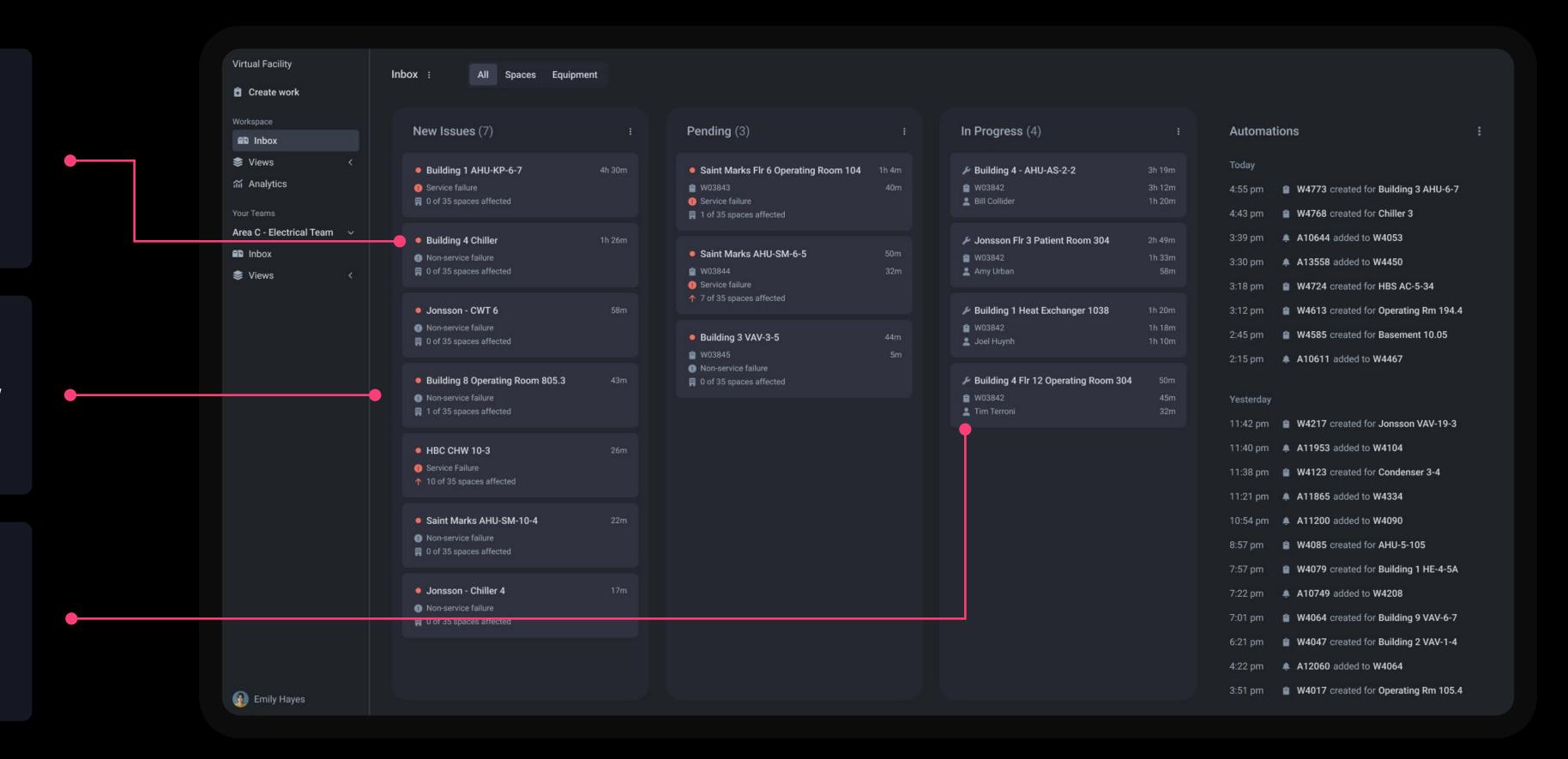


## The Kanban solution

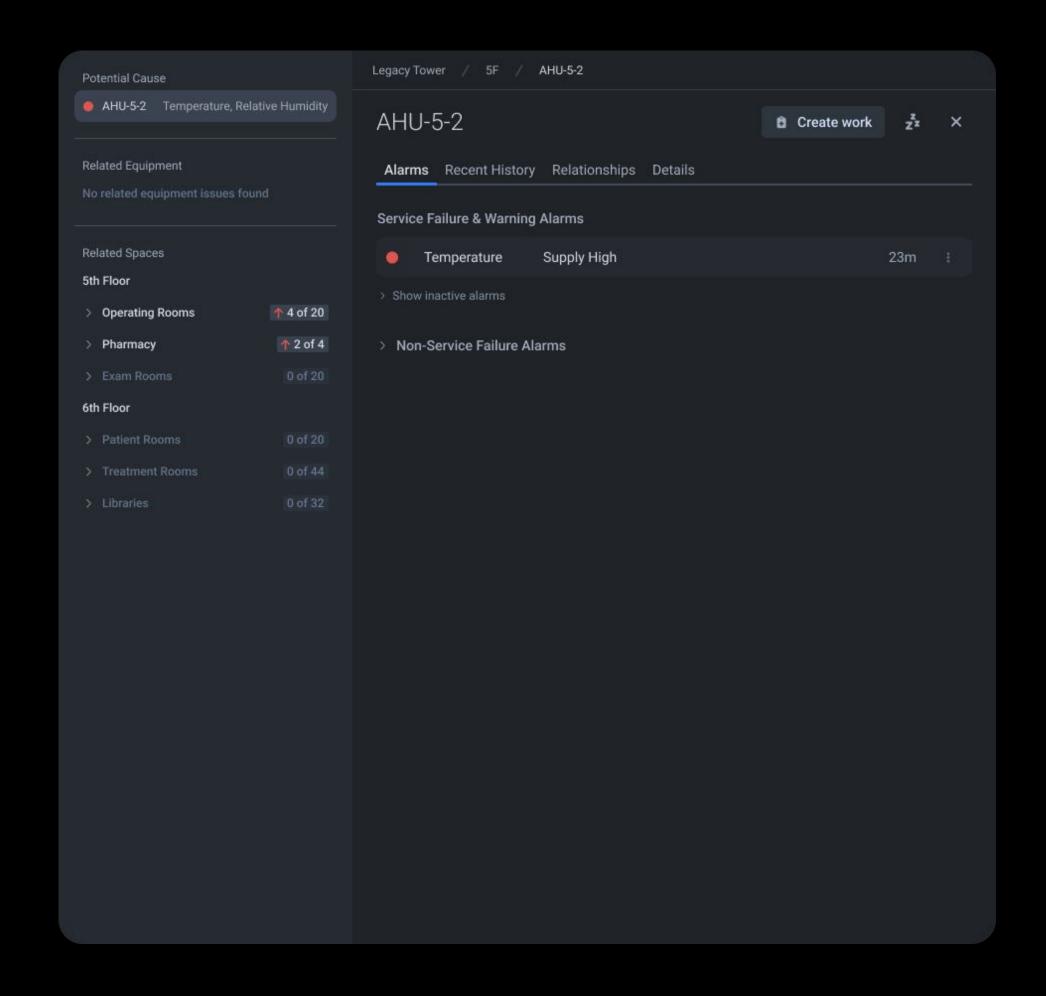
Issue name replaces the need to remember alarm and work ticket names.

Thousands of alarms consolidated down to a few 'issues.'

Contextual information shown based on what step an issue was in.



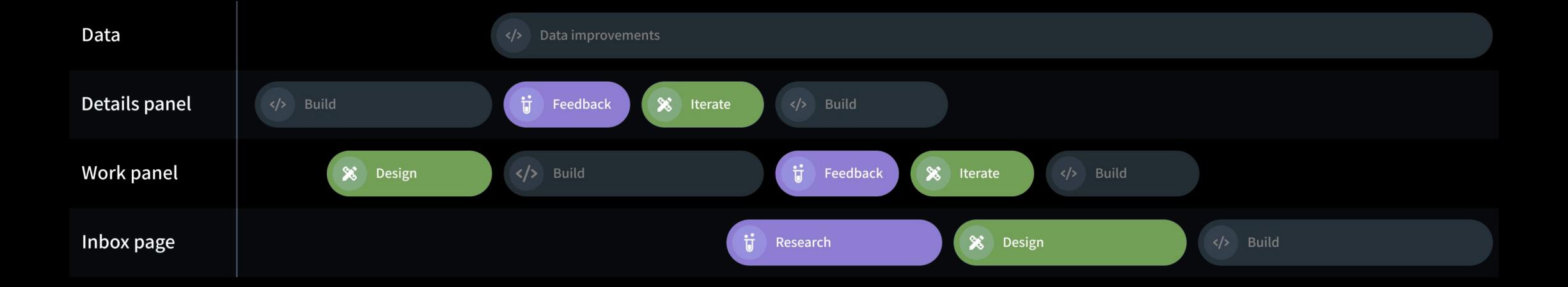
## Looking towards the future



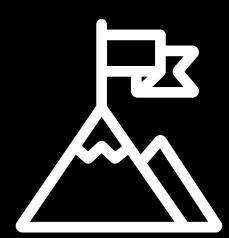


## Planning the execution

I worked with the PM and Engineering team to separate the solution into manageable increments.



Conclusion



# The solution marked a new direction for Virtual Facility

+74%

Increase in critical alarms being actioned

+34%

Increase in customer engagement

-11%

Reduction in time to value for customers



## Thinking forward



## Explore ways for users to improve relationship data

In order to support new solutions, we needed to focus on improving relational data.



## Expand the workflow concept and rebuild personas

The workflow concept was only an intermediate step.



## Stay true to the new design principles

I wanted to ensure teams would use the new design principles as a guide for future projects.

#### Reflection

The collaborative effort and the teams willingness to adapt, allowed us to significantly improve key metrics and create a long-term impact on Virtual Facility.

The launch of the new features helped stabilize most of the negative sentiment customers had towards the product, with most customers extending their contracts.

A key takeaway from this project is the importance of having a good and trusting relationship with cross-functional teams. That relationship is crucial in getting excitement and support for your solutions.

## Thank you!

Jonathan Chang | jonchang92@gmail.com | www.itschang.com