## **Case studies**

This portfolio includes four projects



# Hologram (Page 2)

Senior Interaction Designer Hologram 2020 - Present

#### Includes:

- Research
- Testing (and pivoting)
- User flows
- Interface design
- Product Strategy
- DesignOps
- Cross department alignment



# IRM (Page 18)

Lead Interaction Designer Google 2017 - 2019

#### Includes:

- Research
- Testing (and pivoting)
- User flows
- Interface design
- Product Strategy
- Persona identification
- DesignOps



# SLO Repo (Page 50)

Lead Interaction Designer Google 2019 - 2020

#### Includes:

- Research
- Testing
- User flows
- Interface design
- Product Strategy
- Persona identification



# Cohese (Page 70)

Co-founder (side project) 2014 - 2020

#### Includes:

- Branding
- Interface design
- Front-end development



The easiest to use cellular platform for IoT. Connecting anything to anywhere from a single SIM card

**Senior Product Designer** 

2020 - Present





Background

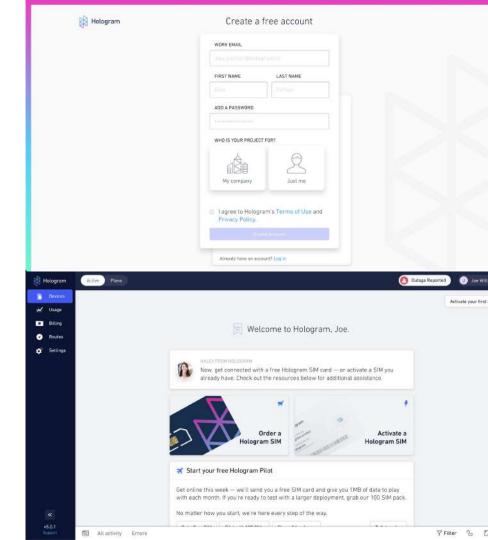
#### Context

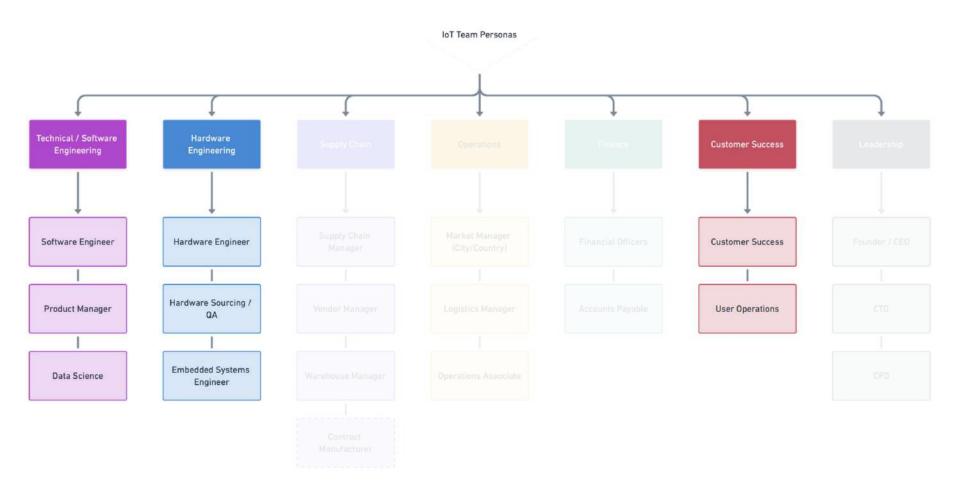
The path to sign up to Hologram was confusing for customers. The funnel has multiple routes and from watching Fullstory segments, caused a lot of drop off. The goal was to identify where in the process the toil is being created by talking to the five pillars in the business.

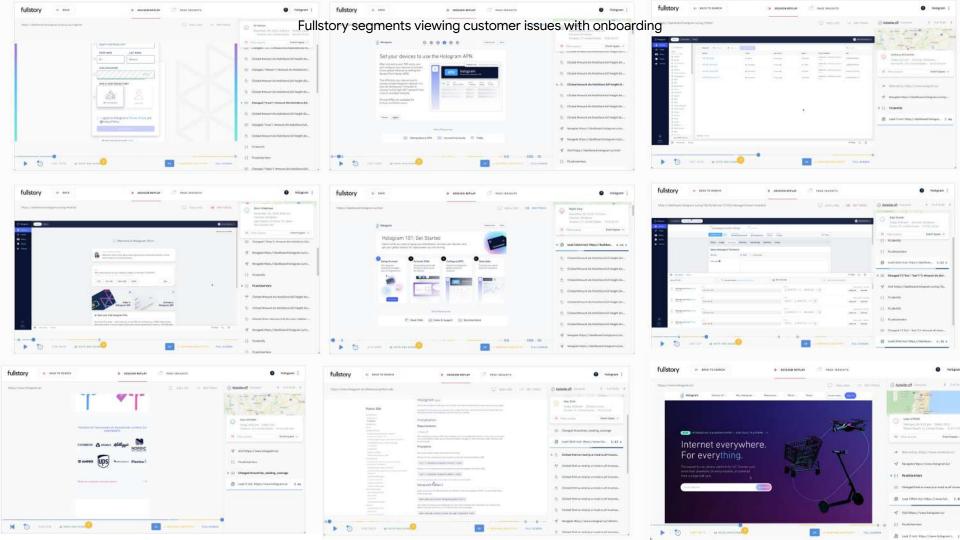
- Product
- Marketing
- Growth
- Sales
- Customers

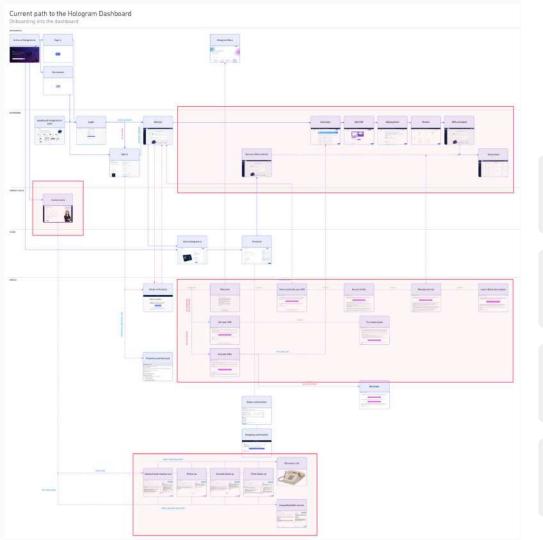
# The team and my role

I lead this initiative and organized all workshops and touch points around it's progress. I did both the UI and UX and was accountable for its prioritization and highlighting its importance









# Identifying the problems

From mapping the existing process of onboarding and all of the touch points, it was clear where the the focus needed to be.

- We don't ask the right questions before a customer is onboarded, leading to unnecessary follow up
- Customers are not exposed to the value of Hologram when arriving on the Dashboard
- Our communication with customers is fragmented and not tied to customer interaction
- We don't help our customers do the two core things, order SIMs and activate them



Exploring

## Exploring the problems

Getting Product, Marketing, Growth and Sales to give lightning talks and walk through how they work within the existing state of onboarding.

dashboard

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Sprint Brief

Working document

E Location

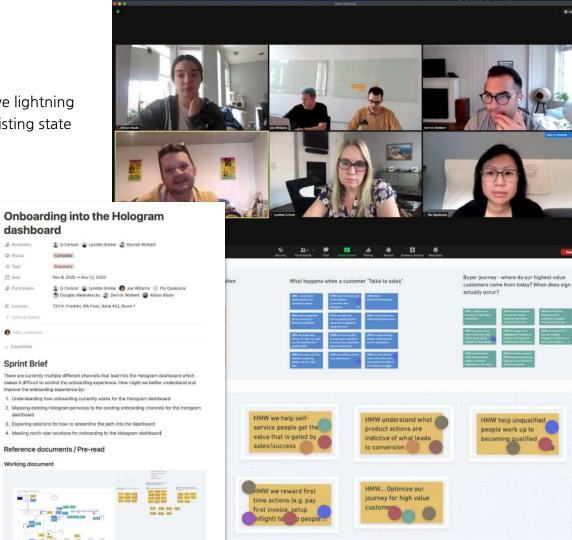
O Status ± Tags PT dots

Deliverables of the sprint

Opportunity for the team to come together and meet (I'd just started)

Alignment between the departments on the toil that affects them

Clear direction for deliverables for O4. Focus areas, and sense of priority

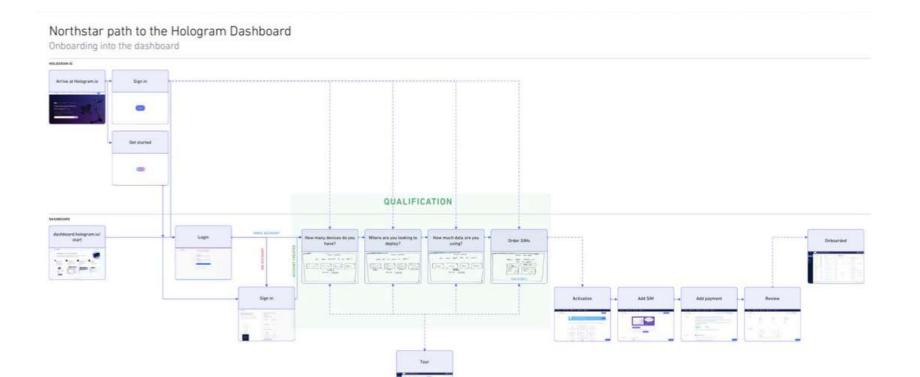


### Areas to focus

Helping customers become qualified and avoid follow up

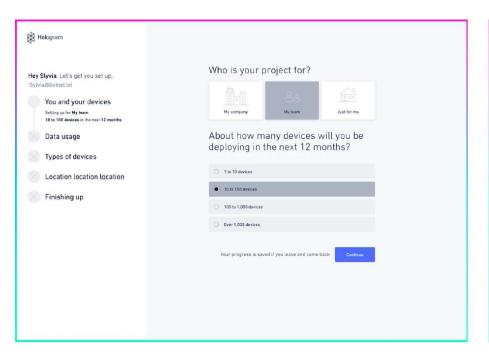
☆ Help customers understand
the value of Hologram

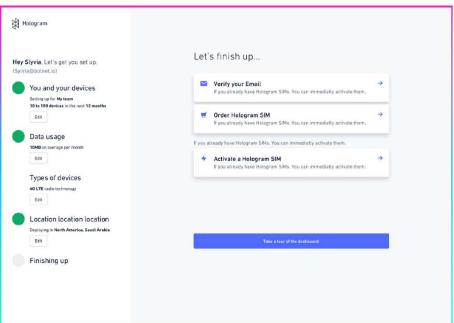
→ Getting customers set up with SIMs



Design and interaction

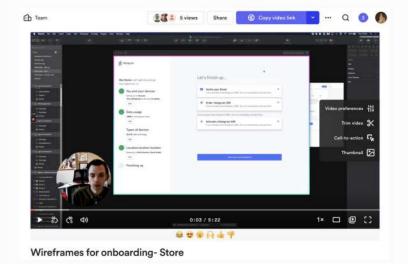
# Early wireframes

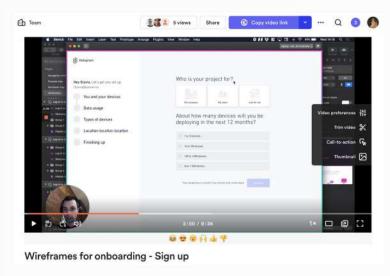


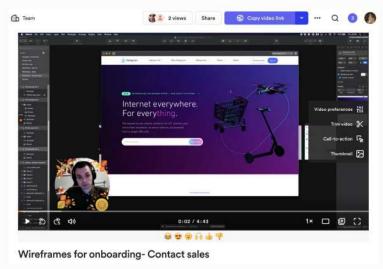


# Designing in the open

This work spanned across so many departments, so the regular syncs and updates were done via Loom. Walking through the thinking and updates that happened every week to keep lockstep.







# **Testing solutions**

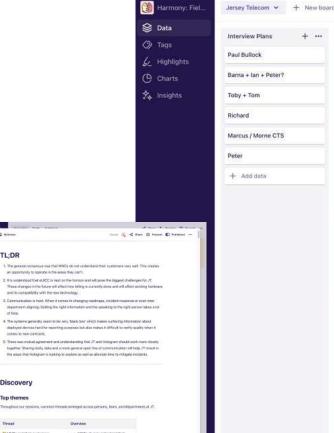
We knew our proposed designs could deliver for not only the customers, but our problems as well. We were focusing on our riskiest assumptions to get validation as soon as possible.

Riskiest assumptions

Customers can wait to arrive at the dashboard if it meant a complete experience

We could streamline all avenues into the dashboard

Funneling customers to immediately purchase SIMs would reduce churn



TL;DR

an overaction by to operate in the areas they carri

and its compatibility with the new technology.

coines to new contracts.

Discovery

44 Landscape changes

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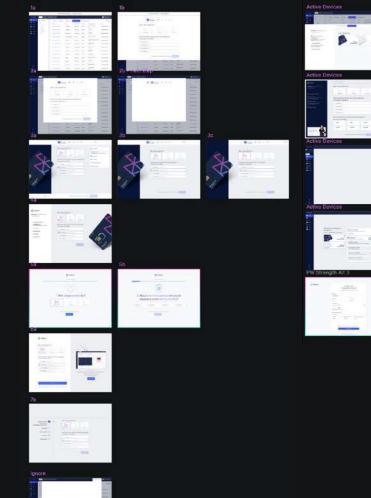




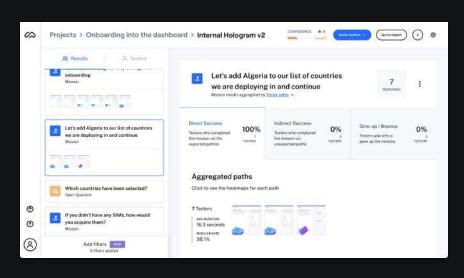


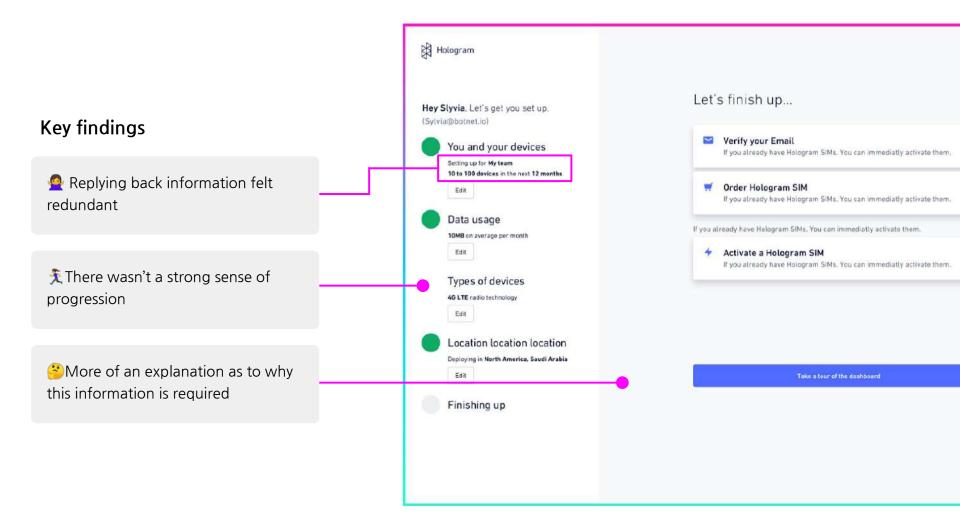




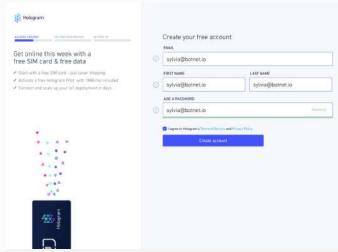


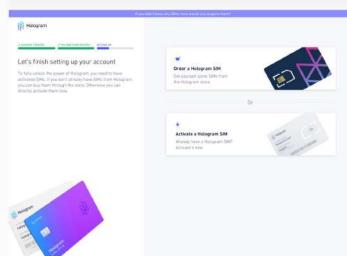
Active Devices

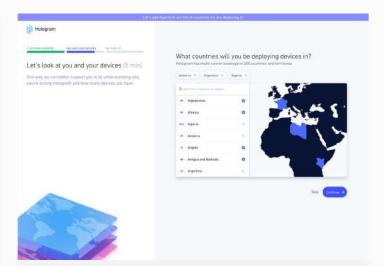


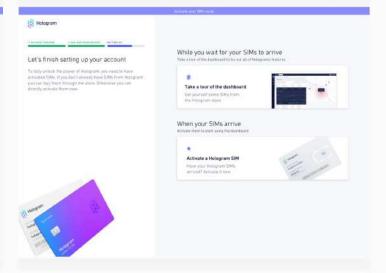


#### Interface design











Create a cohesive incident response tool to be used across the entirety of Google



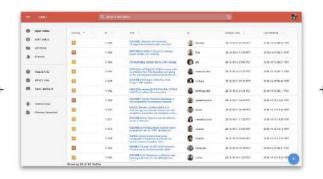
**Lead Product Designer** 

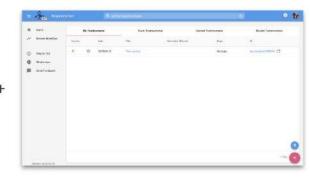
2017 - 2019

# Current landscape

# Combining existing tools







### Outalator

A tool to track outages, based on alerts generated by Google monitoring systems (Borgmon, Prober, Monarch) and manual pages sent by humans.

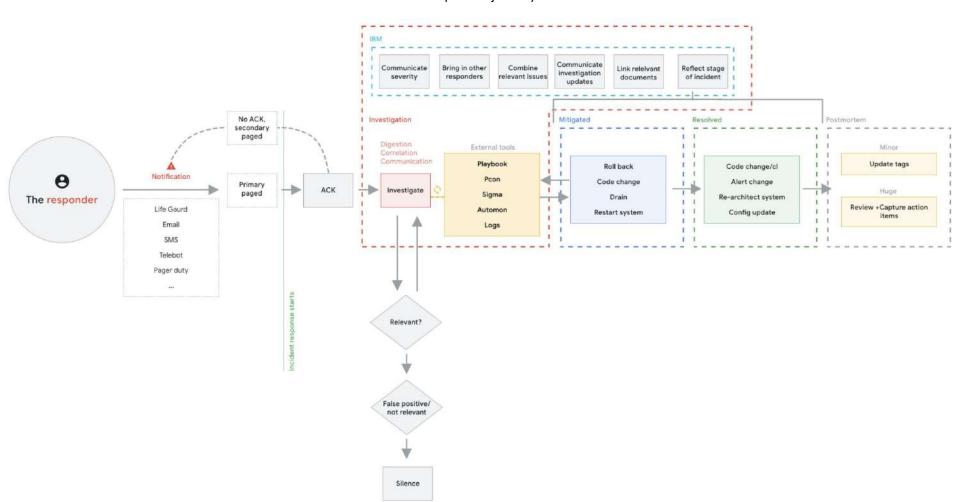
## **OMG**

An incident management dashboard/tool that serves as the central place for tracking and managing all ongoing incidents at Google. It was developed as part of the IMAG (Incident Management at Google) effort.

### Requiem

A tool for creating, indexing, searching, and analyzing postmortems.

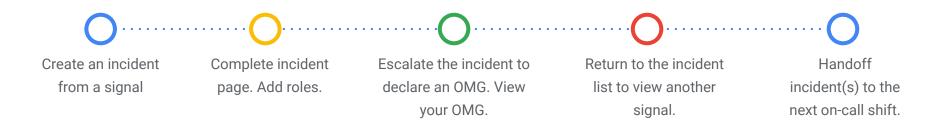
#### Responder journey



# Understanding the problem



# Core user journey

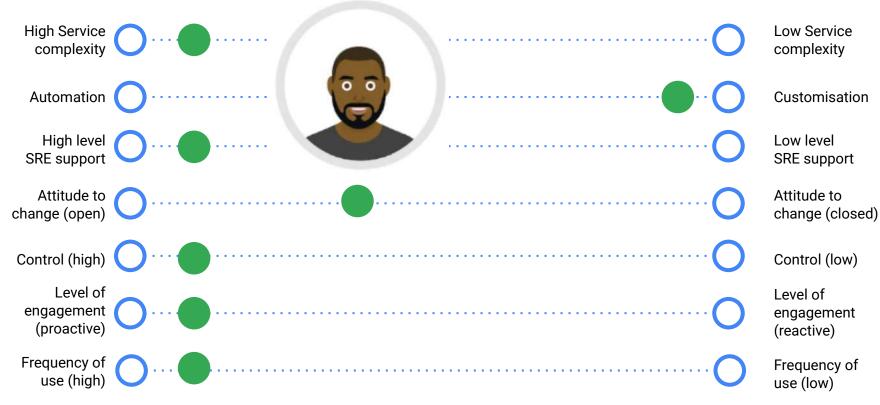


# Testing

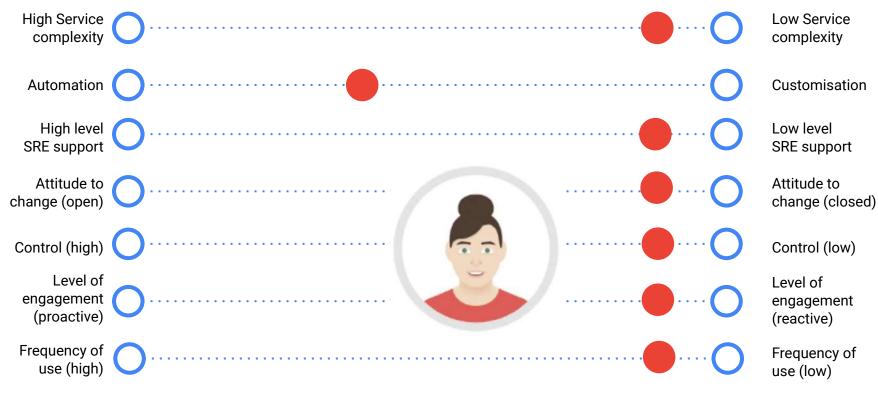
# But it's not as simple as SRE vs. SWE ...

High Service complexity	O		Low Service complexity
Automation	O	C	Customisation
High level SRE support	O	C	Low level SRE support
Attitude to change (open)	0		Attitude to change (close
Control (high)	O	C	Control (low)
Level of engagement (proactive)			Level of engagement (reactive)
Frequency of use (high)	O		Frequency of use (low)

# SRE in charge of multiple complex services

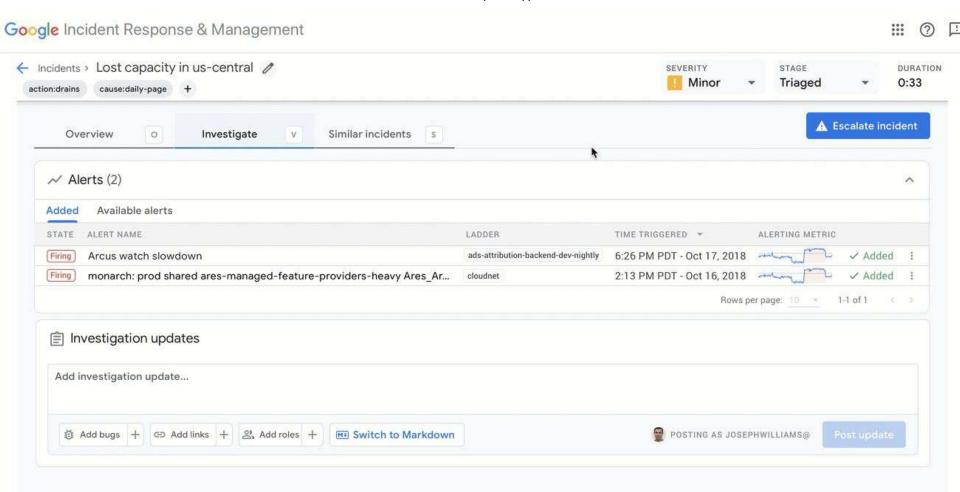


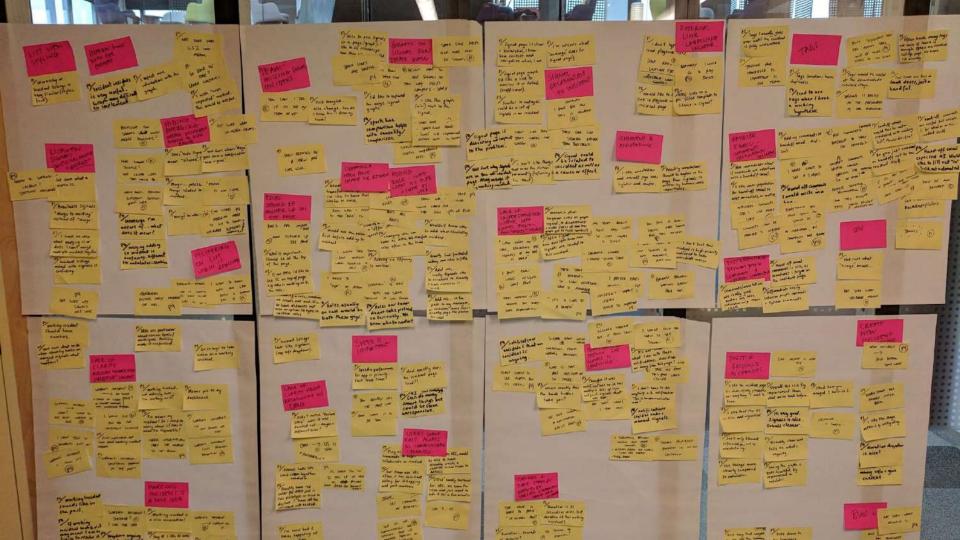
# SWE with low complexity service & low SRE support



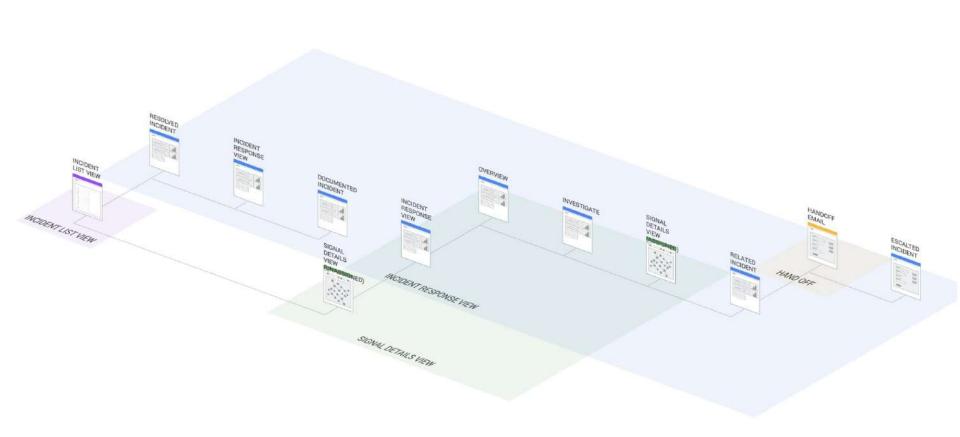


#### Interactive prototype





### IRM topology



# Working from GME



# Communication

A shared Google Chat room is available for UXers across DevOps to propose changes or additions to components found in the GME Stickersheet. Two or more UXers need to agree on a component to begin Collaboration.



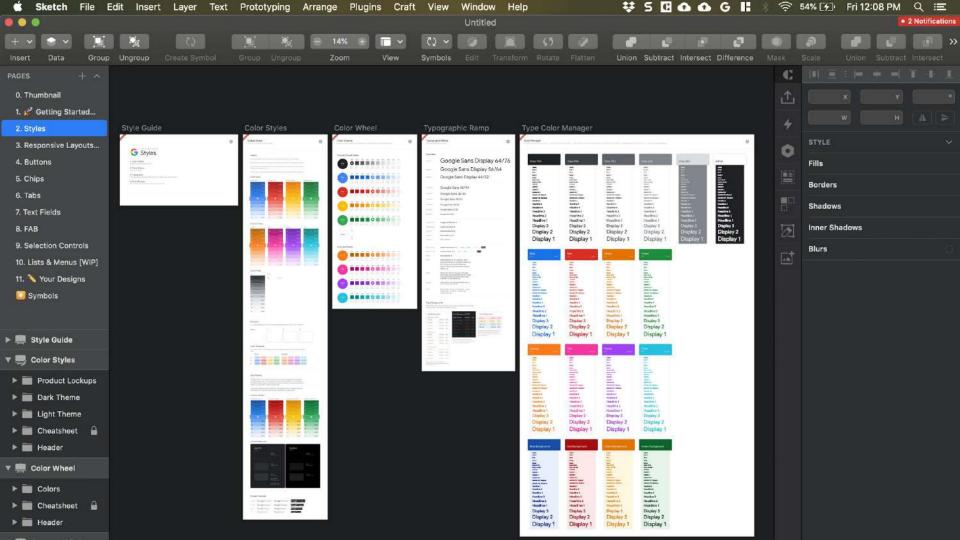
# Collaboration

Upon agreement, these UXers collaborate to design a new component in Sketch using the below template. This is submitted to a Component Tracker which is reviewed by a committee to prioritize implementation.



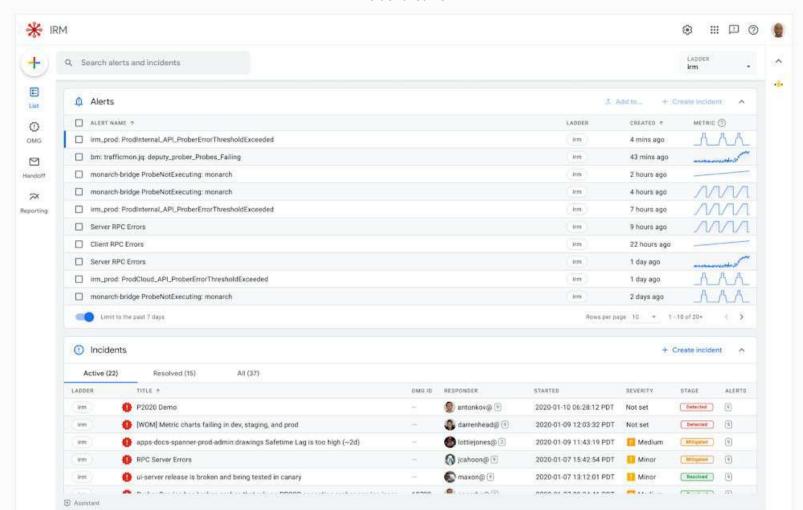
# Implementation

Comprised of 3 UXers, they decide and prioritize what components are implemented in the master GME stickersheet. They symbolize the component in Sketch, syncing and auto-distributing to all DevOps UXers through Sketch Libraries.

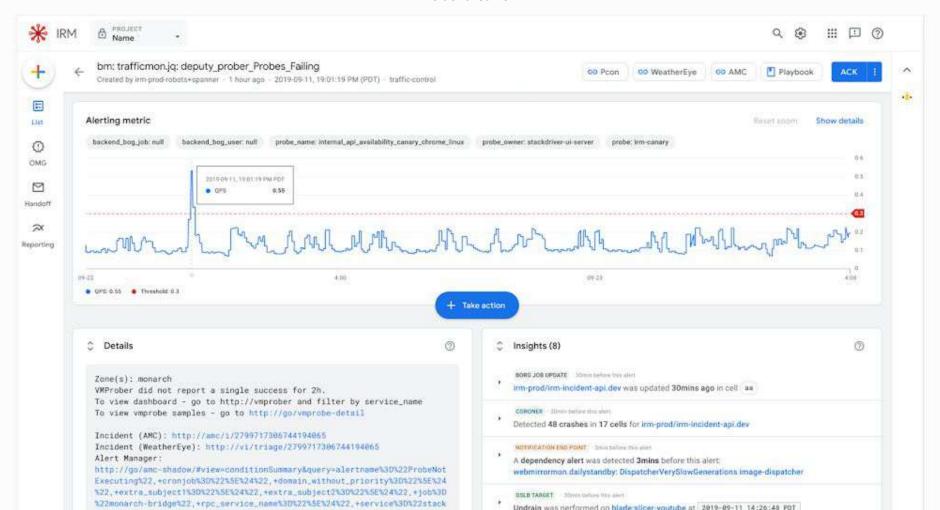


# Features

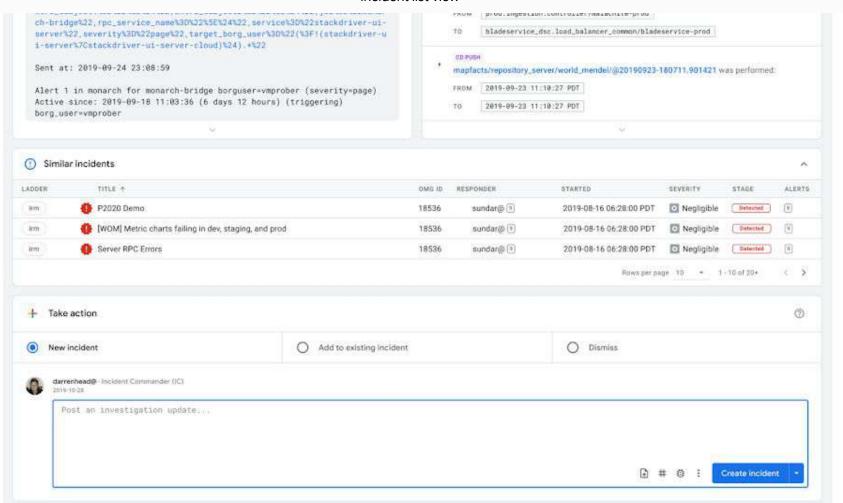
#### Incident list view



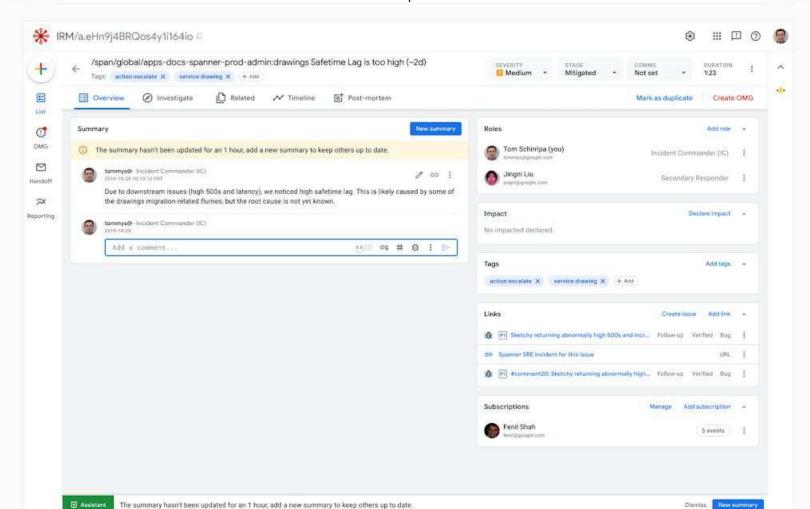
#### Incident list view



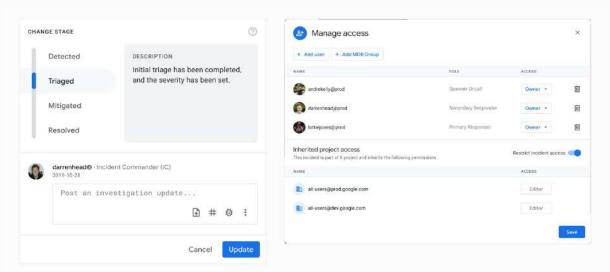
#### Incident list view



#### Incident response view

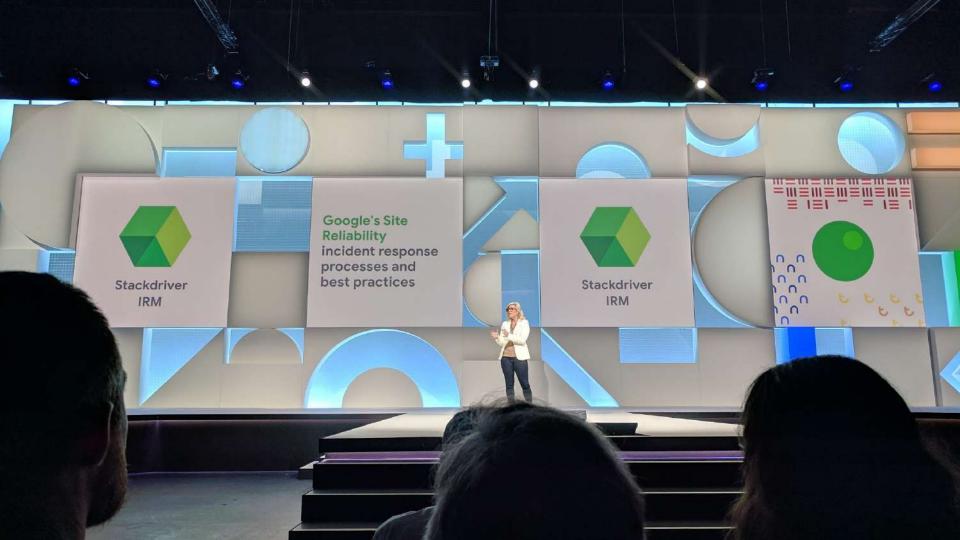


#### Individual components



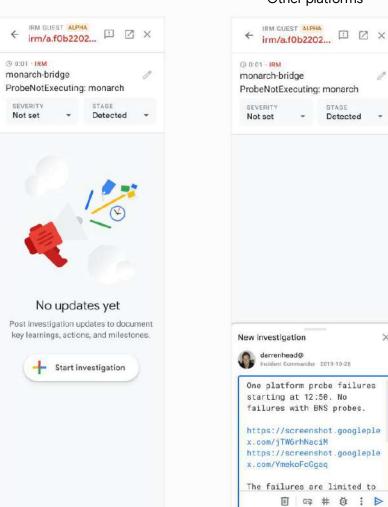






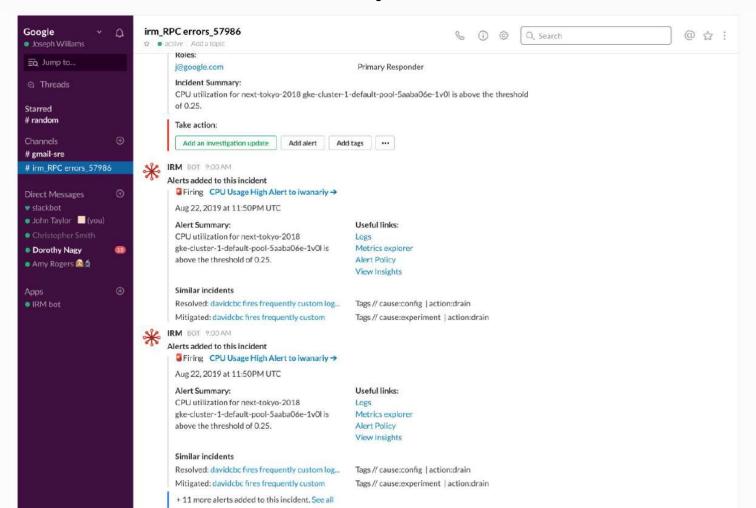
#### Other platforms

X



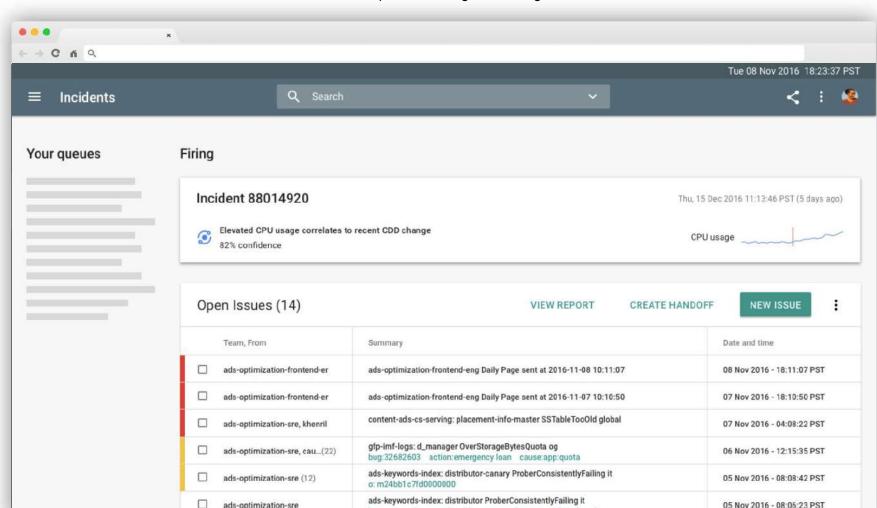


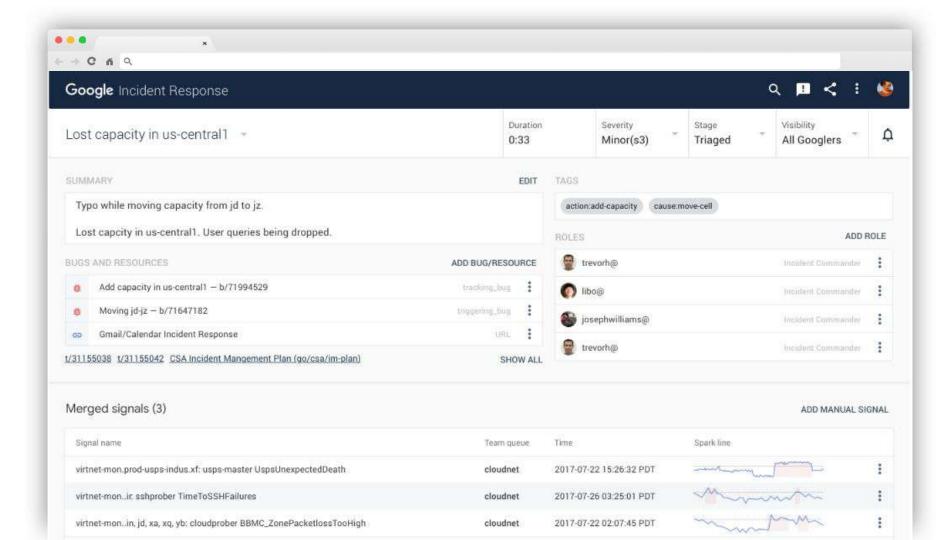
#### IRM living in Slack



# Learnings

#### Examples of existing SLO tooling





#### Premortem

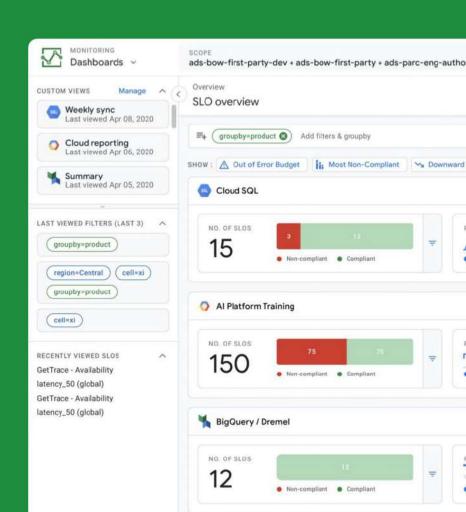


### GM SLO Reporting

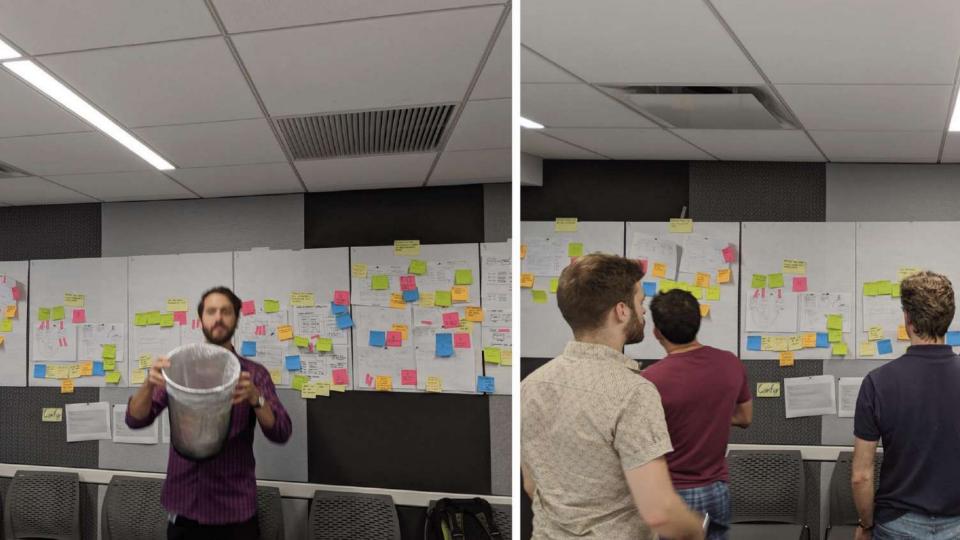
Improving the landscape of how SLOs were created, interrupted and measured at Google.

**Lead Product Designer** 

2019 - 2020



# Background



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## Foundational research

### Top line insights

configure

Define &

Detect & alert

decision making & reporting

Strategic

Analysis & refinement

#1 Despite strong SRE culture to use SLOs, we have inconsistent approaches across the org and teams struggle to define what to measure

#2 Current tooling is fragmented and inadequate to support the breadth







#3 SLOs are incongruent across different levels of the stack (Client/ Server side) and between dependencies.

of end-user happiness or customer experience.

of user needs.











#5 Stakeholders (Director/VP) have a need for more aggregated big

picture data and reporting of SLOs vs. operators (TL/SRE/SWE)

#4 It is difficult to define SLIs and SLOs that are accurate measurements









#6 SLIs are "just another metric" to view and report: regular reporting needs often require metrics across tools







This user interacts with SLOs largely in the context of an alert. They are most interested in an **individual SLO or set of SLOs that are underperforming** at a given time.

#### Key tasks:

- Responding to an alert
- Drilling down to individual noncompliant SLOs
- 3. Debugging via filtering and grouping
- Correlating with data found in other tools, both within and outside P2020



#### Tech Lead

Tech Leads may be regularly involved in outage mitigation and evaluating individual SLOs, but are also responsible for **communicating SLO performance** for their service(s) to stakeholders.

#### Key tasks:

- Reporting on aggregate performance for a service or group of services at regular intervals
- Drilling down to individual noncompliant SLOs
- Correlating with data in other areas of MP and P2020



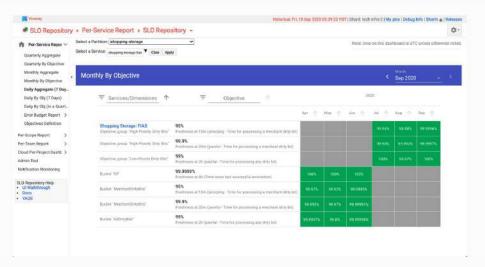
#### Director / Stakeholder

Stakeholders are most interested in viewing SLO performance for their **product(s)** as a **whole**, and are also interested in the **user impact of an ongoing or recent incident**.

#### Key tasks:

- View product-level SLO summary
- Deduce aggregate level of user impact from incident
- Contact teams responsible for noncompliant SLOs
- 4. Review SLO quality

#### Examples of existing SLO tooling





#### Functionality to reach parity



- Define & configure
- Simple and consolidated configuration model
- Configuration UI



#### Detect & alert

- Out of the box alerts
- Debugging dashboards
- Aggregate real time dashboard



#### Strategic decision making & reporting

Reporting views with different levels of aggregations:

- Historical performance
- Error budget and burn rate
- Metadata
- Contextual links
- Outage data



#### **Analysis & Refinement**

- SLO quality score
- Versioning
- Lifecycle Management
- Recommendations
- SLO Backtesting against historical data

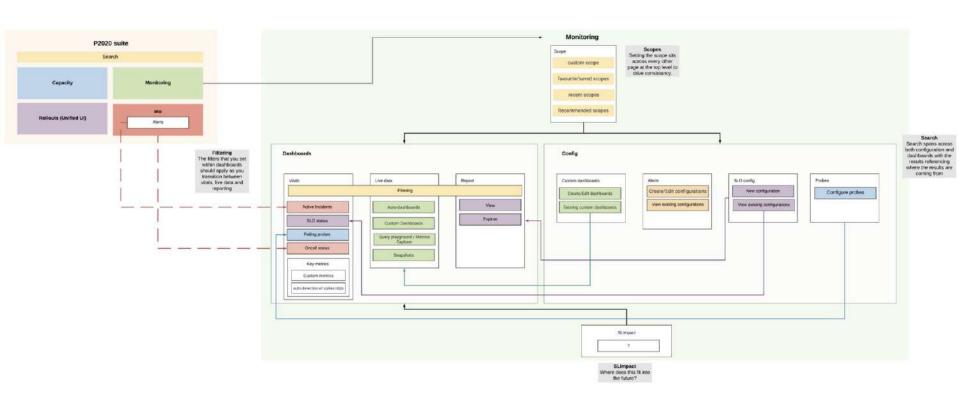
Key

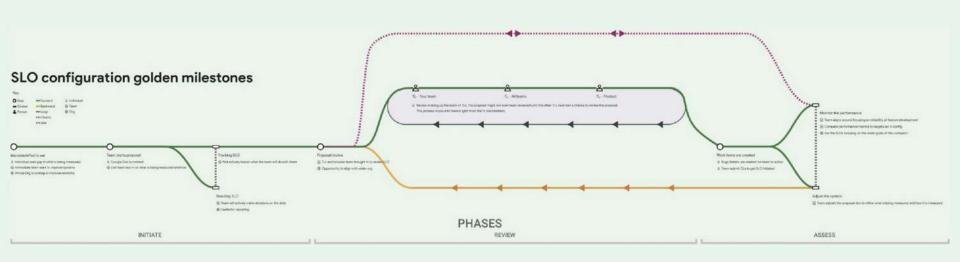




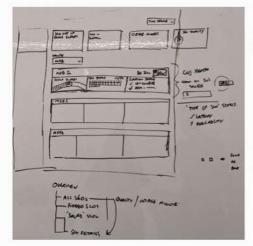
# Journeys and interactions

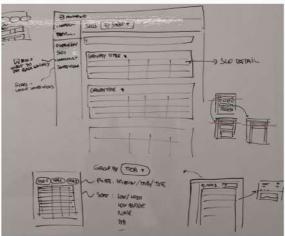
#### SLO Repos touch points

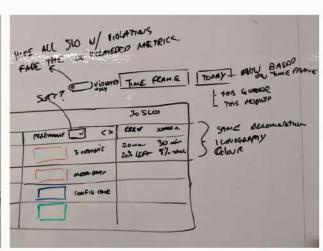




#### Wireframes



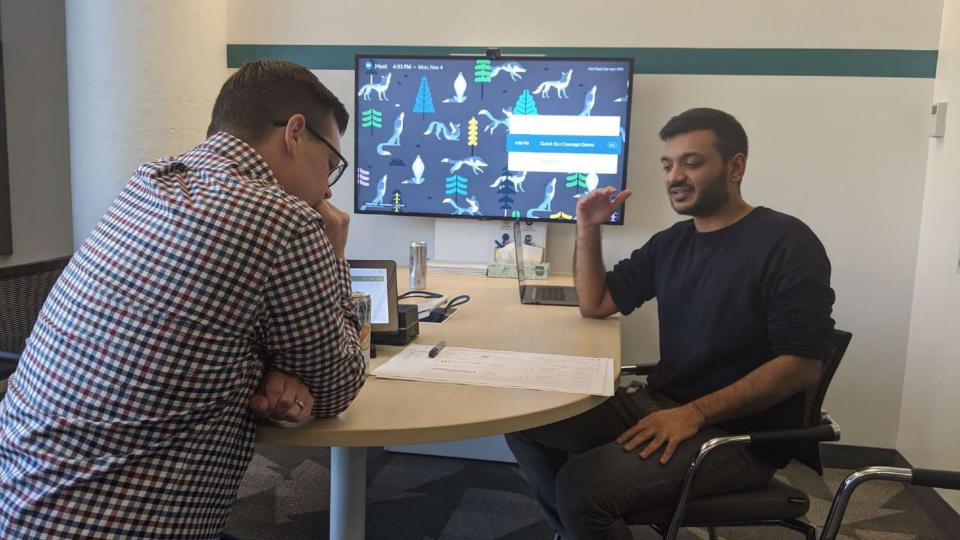




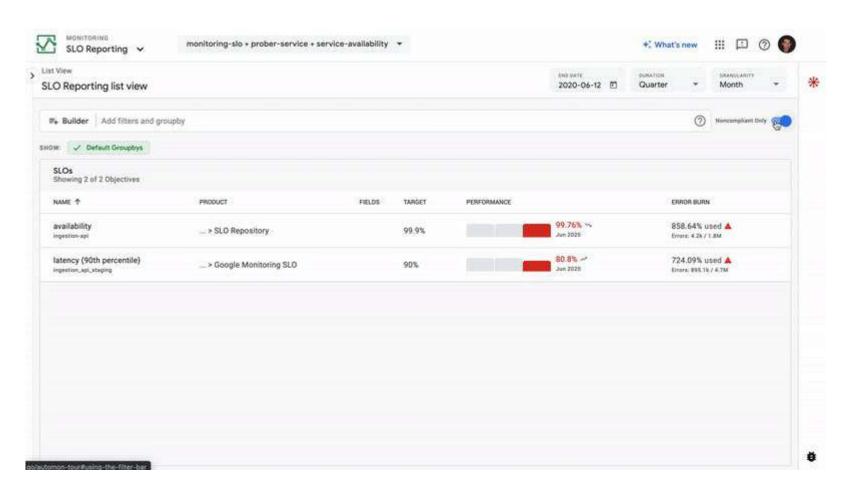






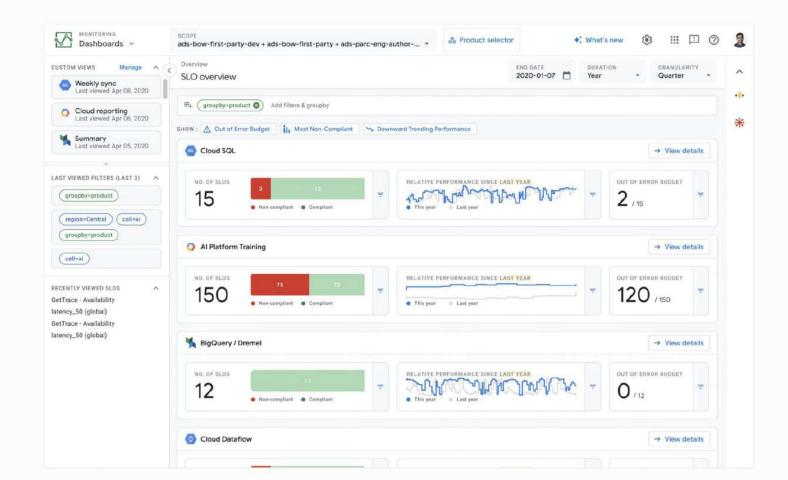


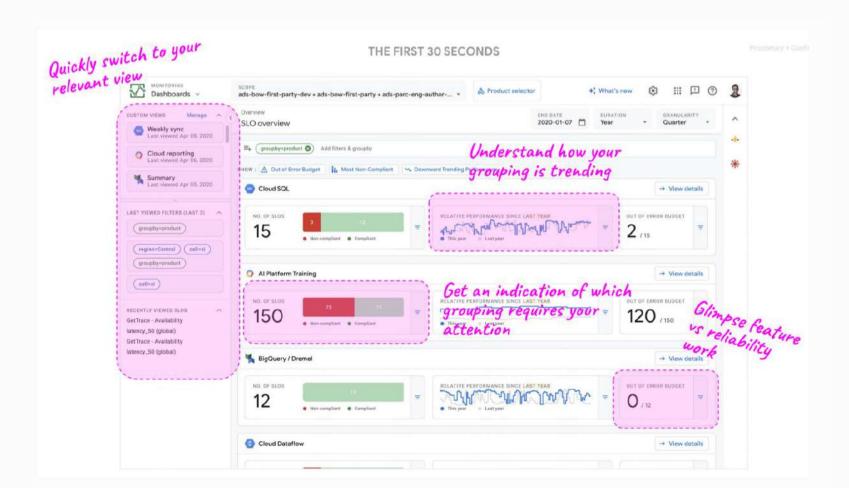
#### Interactive prototype



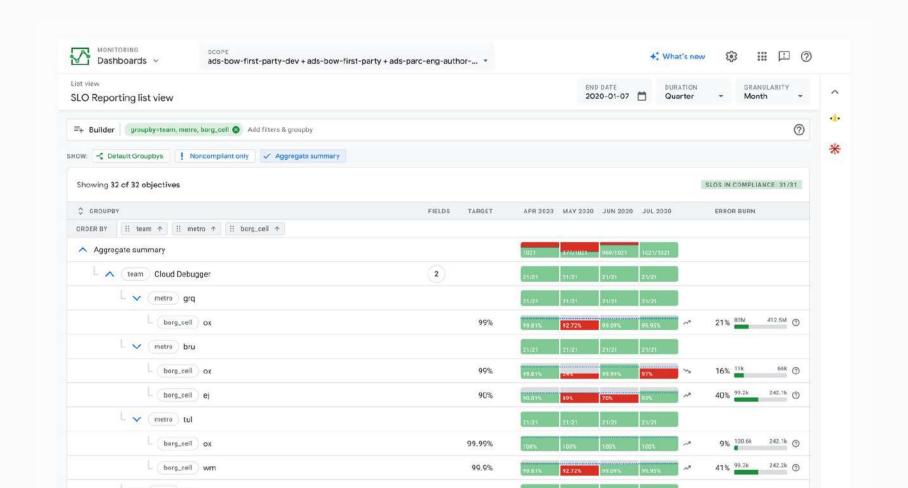
# Interface design

#### SLO aggregate view

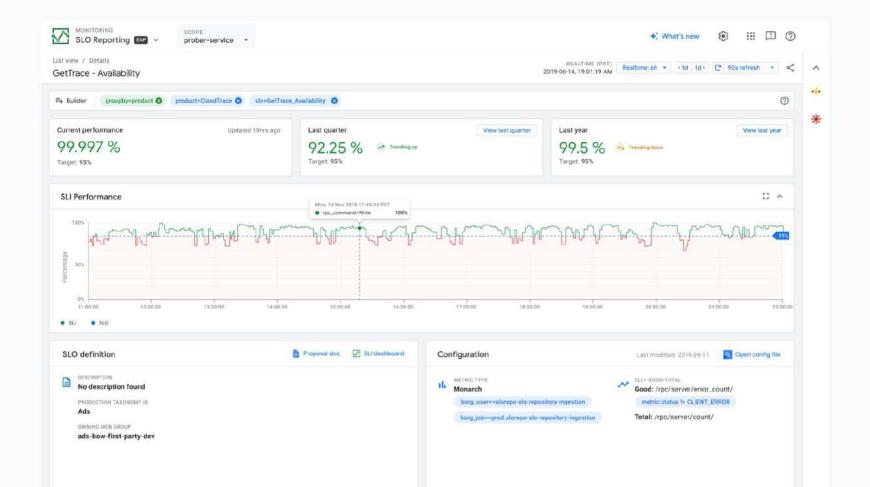




#### SLO list view



#### SLO details view



## Cohese

Supercharging links with one to many capabilities and analytics for better usage of sharing.



Co-founder

2014-2020

#### Context

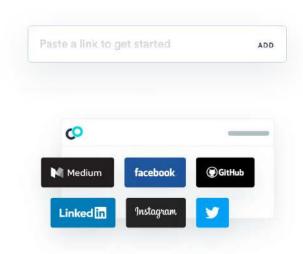
Cohese was a platform to create one to many links, but with the option of it defaulting just to a regular URL. In addition, Cohese offers rich analytics and easy editing right out of the box.

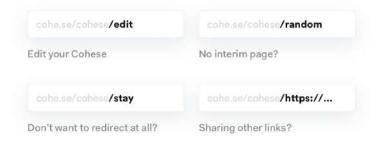
This project came to be by the options already on the market not quite fulfilling our needs when it came to link management.

#### The team and my role

The team was, just myself and my co-founder. I was accountable for design, front-end development, and branding.

Please note, this project includes almost no 'process'. This was very much my co-founder and I working on instinct (and having some fun). We experience a problem first hand and explored how quickly we could solve it.



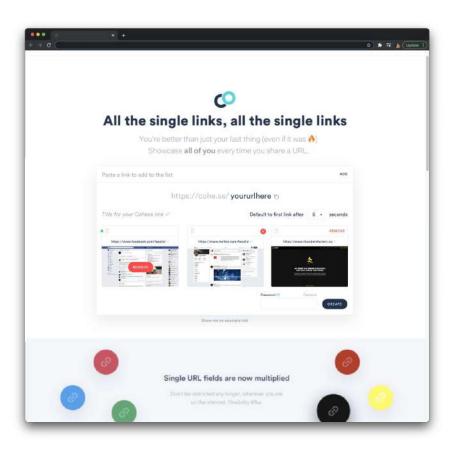


#### Interface design

Knowing how we wanted this service to work, we simply followed our intuition to design the product and brand. Below are a selection of screens from the product.





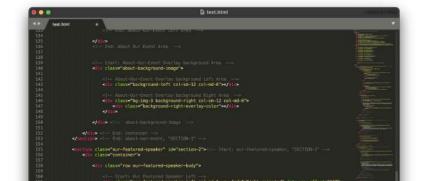


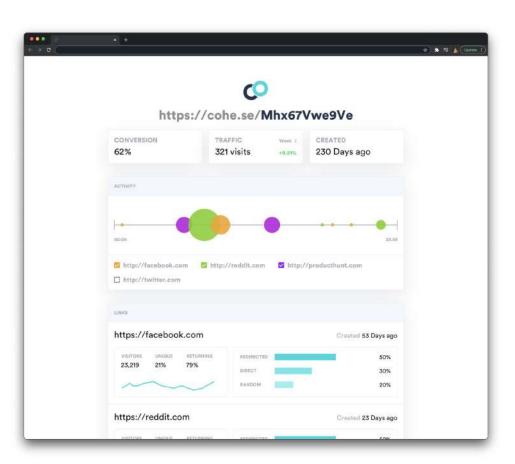
#### Front-end development

Once we had designs and understood how Cohese would work, we started front-end development. I did all the front-end development for Cohese.

#### Conclusion

Unfortunately due to time commitments, Cohese has been turned down for now as it was a free service. We are looking to start it back up again in the near future.





### Thanks!

contact@josephwilliams.design +1 9295052599



Giving a presentation on designing for incident response



Leading a sprint in Zürich



Team outing