

YVONNE (YIWEN) HOU

Design for Efficiency

ByteDance, Meta Enterprise Design (MED)



Meta
Enterprise Design

To comply with my non-disclosure agreement, some information has been omitted and obfuscated.
Information shown is my own and does not reflect views of ByteDance.

OVERVIEW

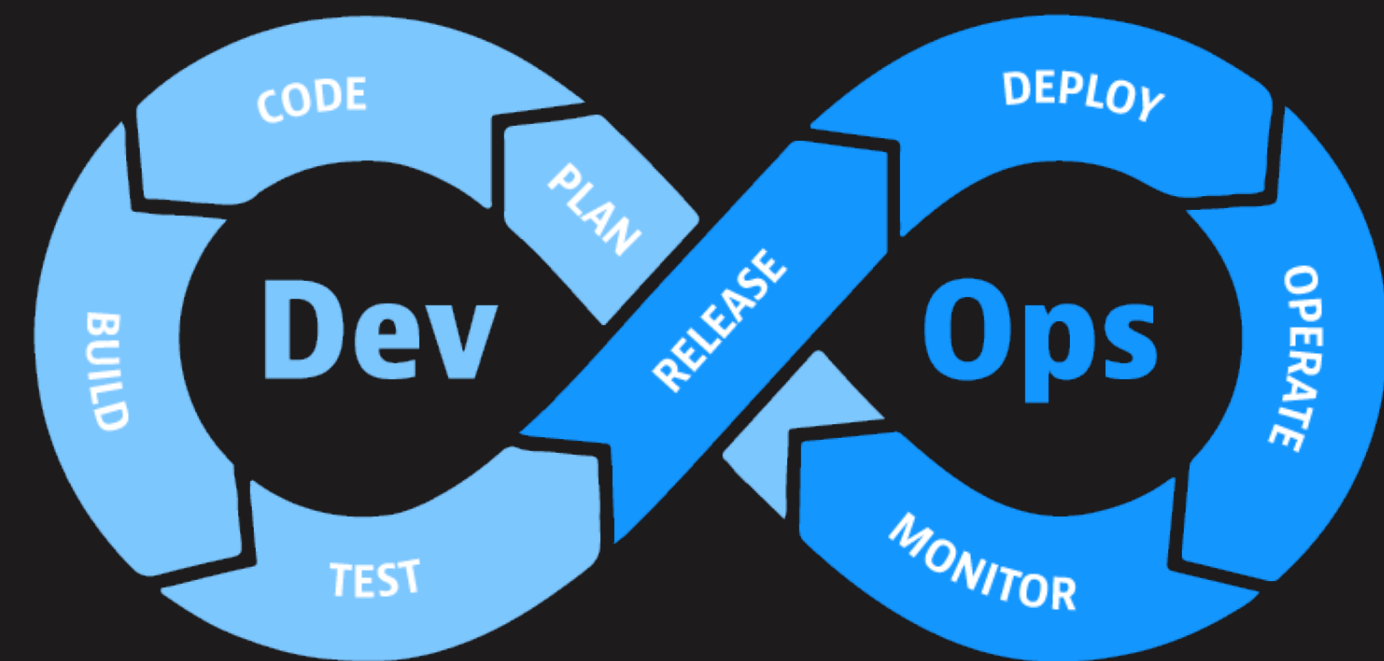
Context

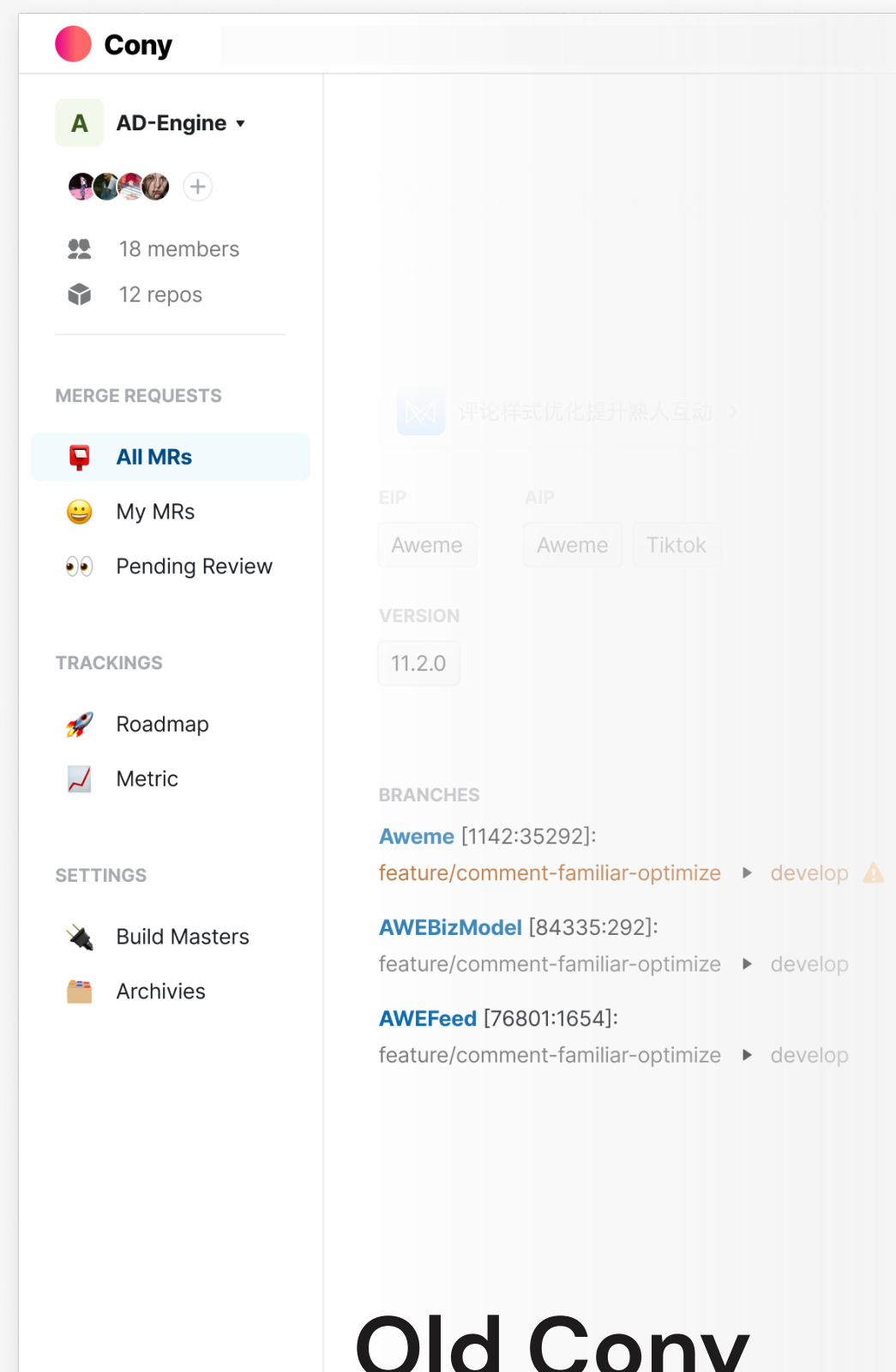
What

Cony is an **internal DevOps platform** used by **technical users** on a day-to-day basis.

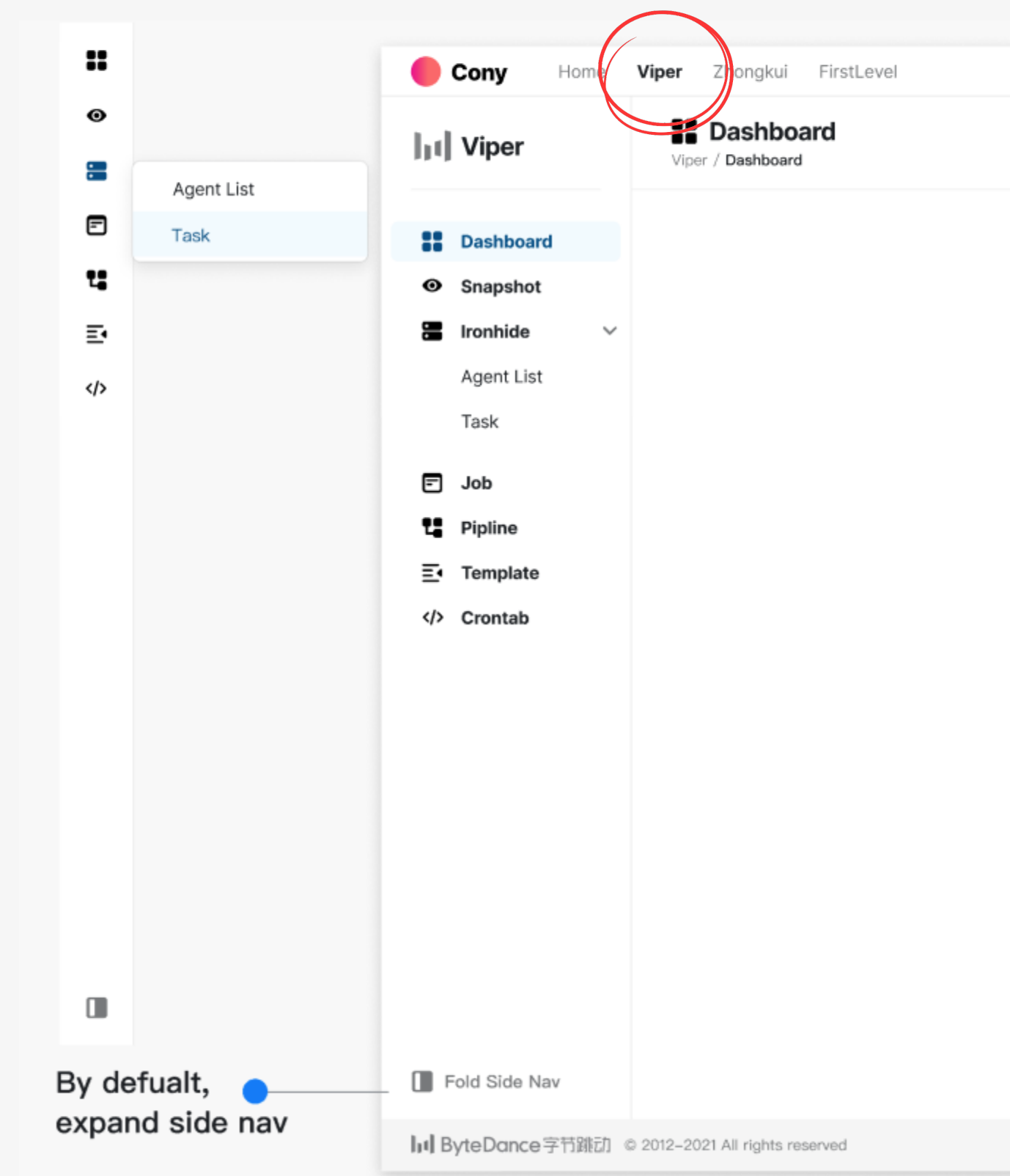
Scope

Build upon the original Cony platform, I added a new **computational resource monitoring module** called Viper.





Old Cony



Restructure & integrate
new module Viper

OVERVIEW

Context

Role

As the **sole designer**, I collaborated with a cross-functional team throughout the product life cycle from co-defining PRD to Design QA.

Goal

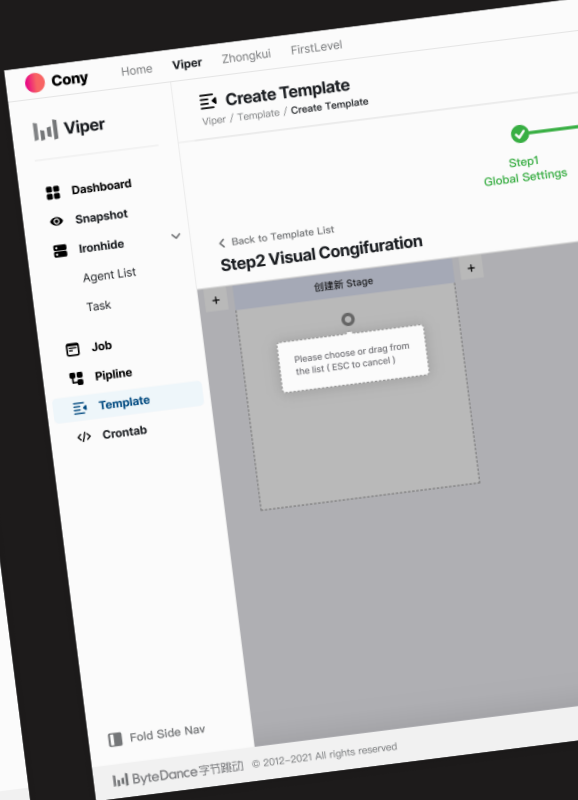
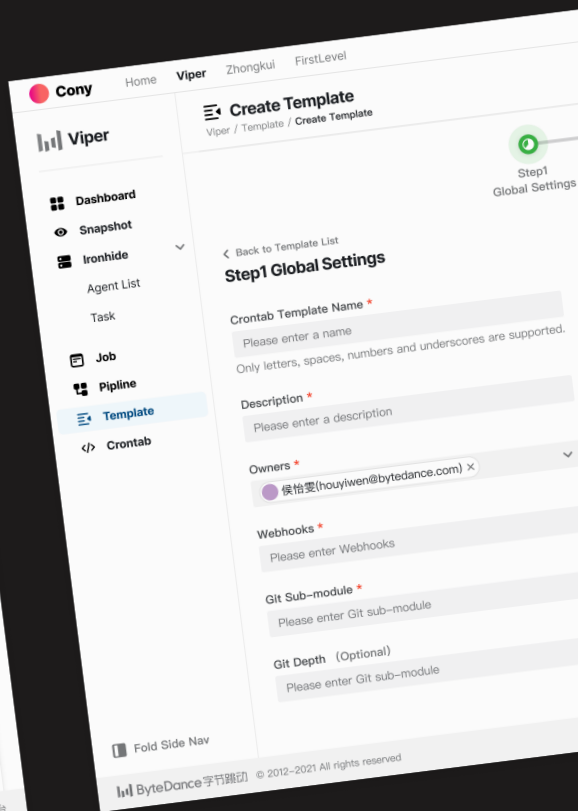
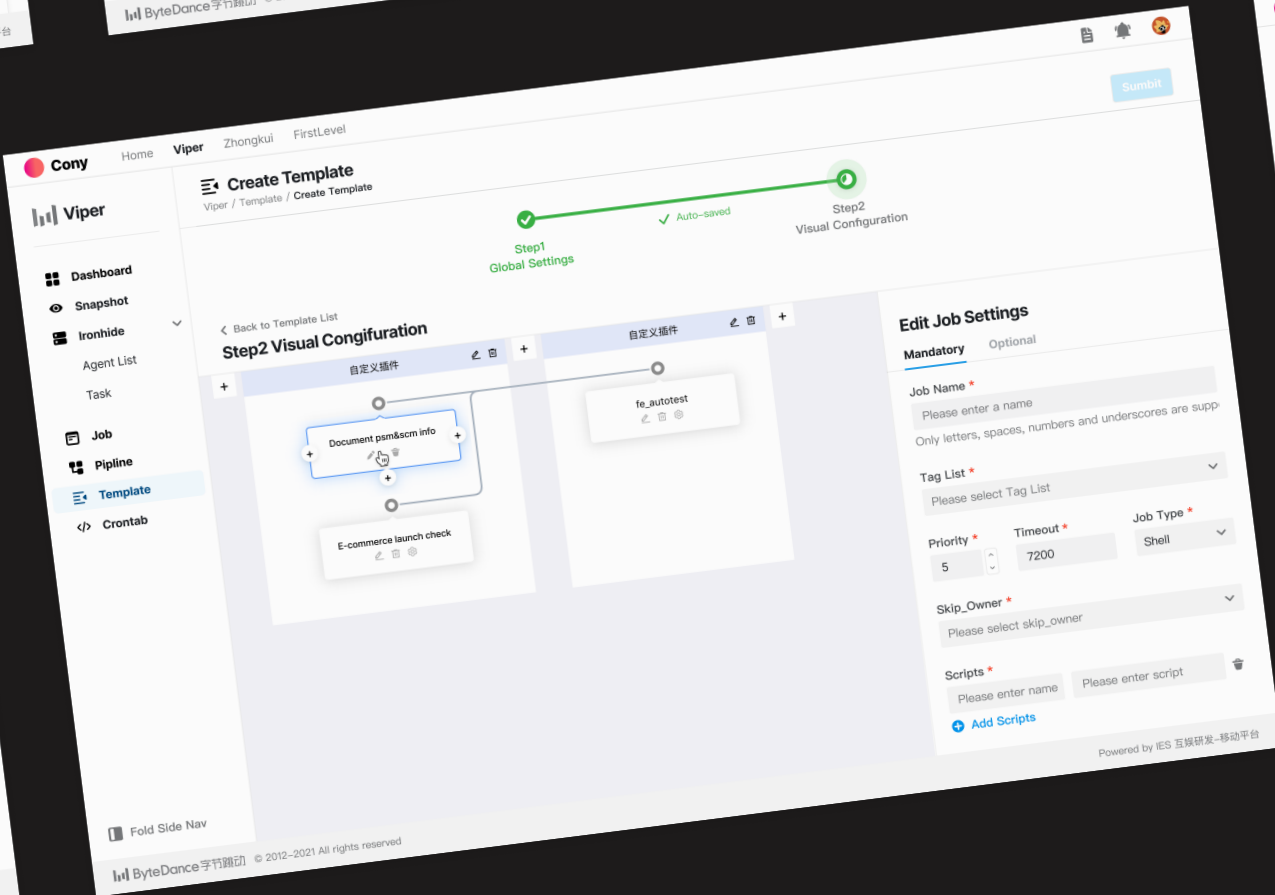
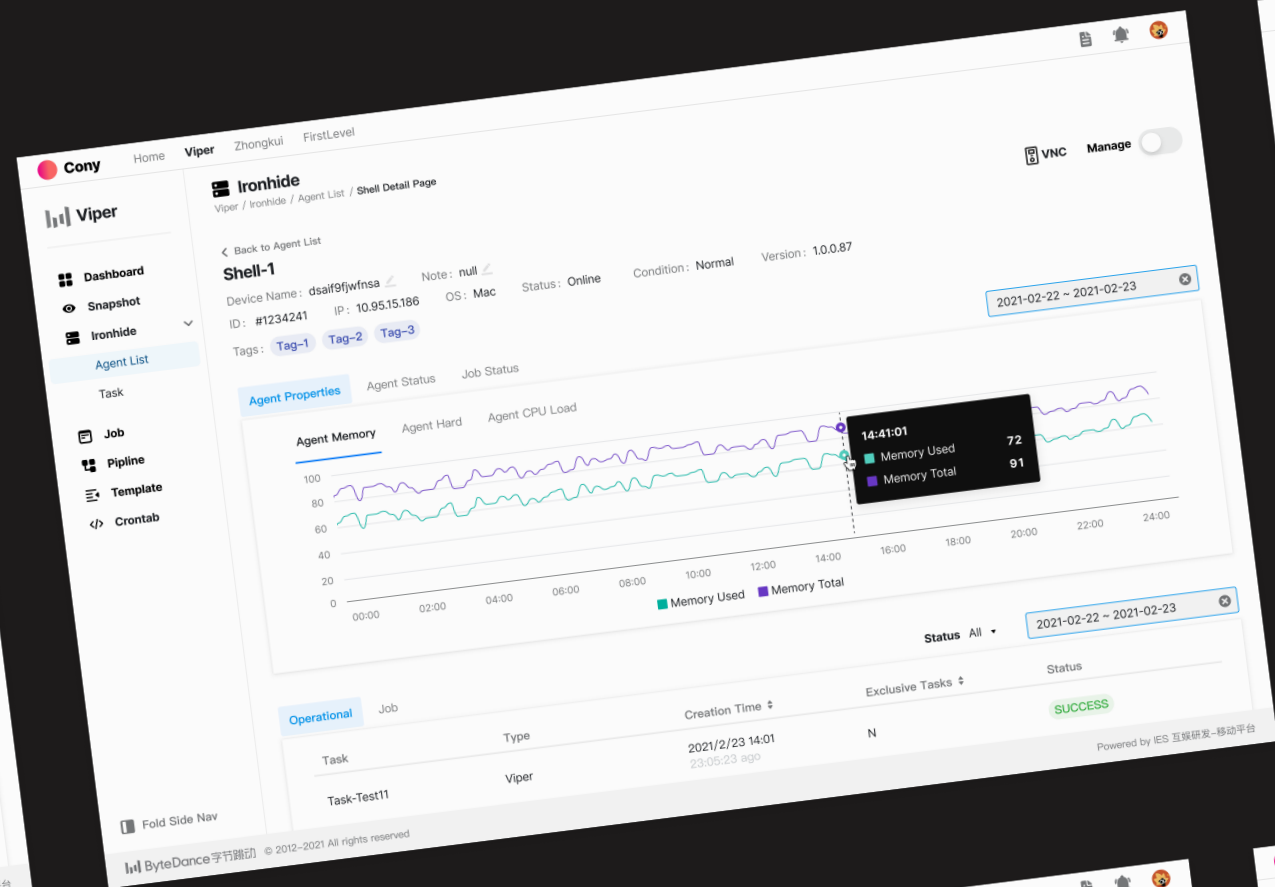
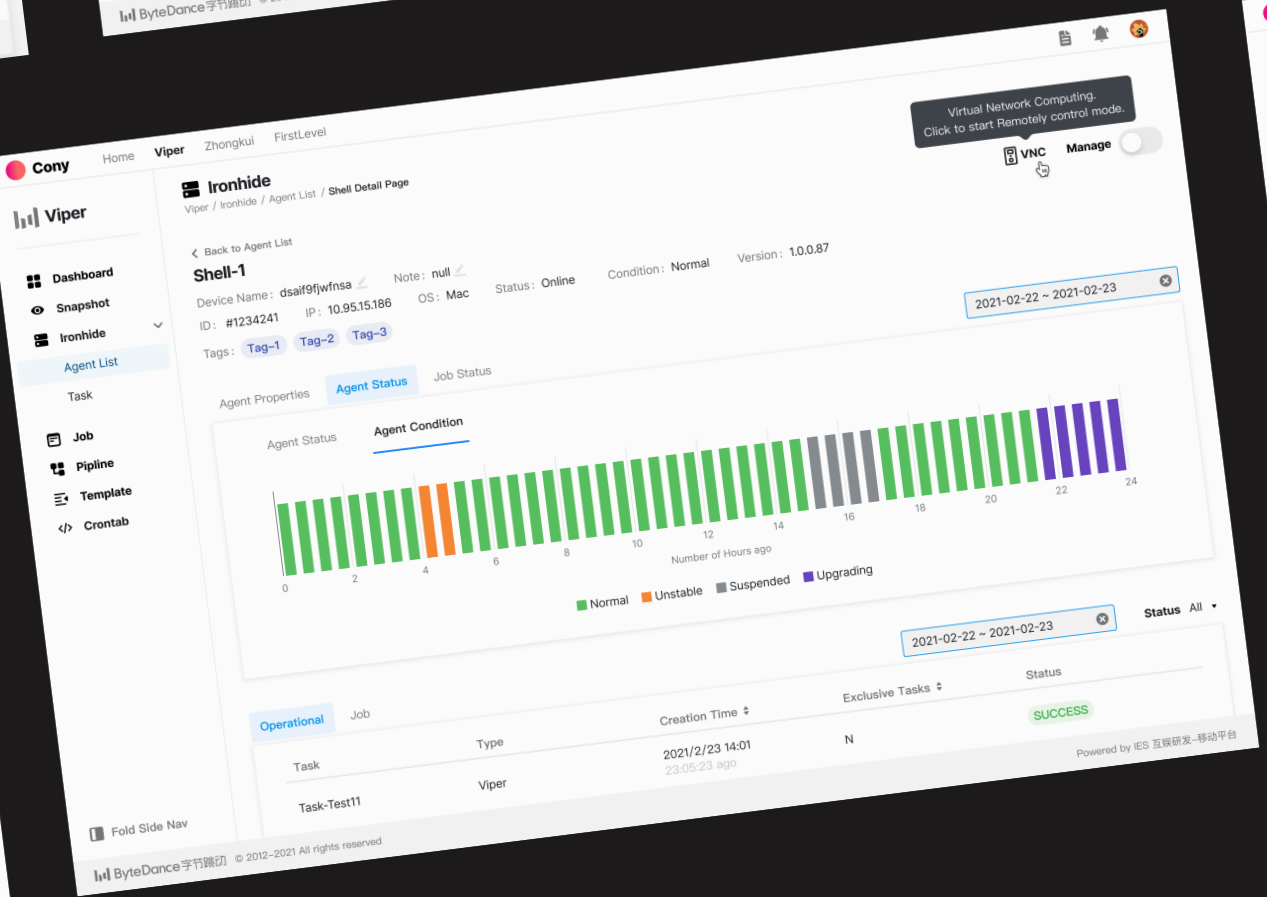
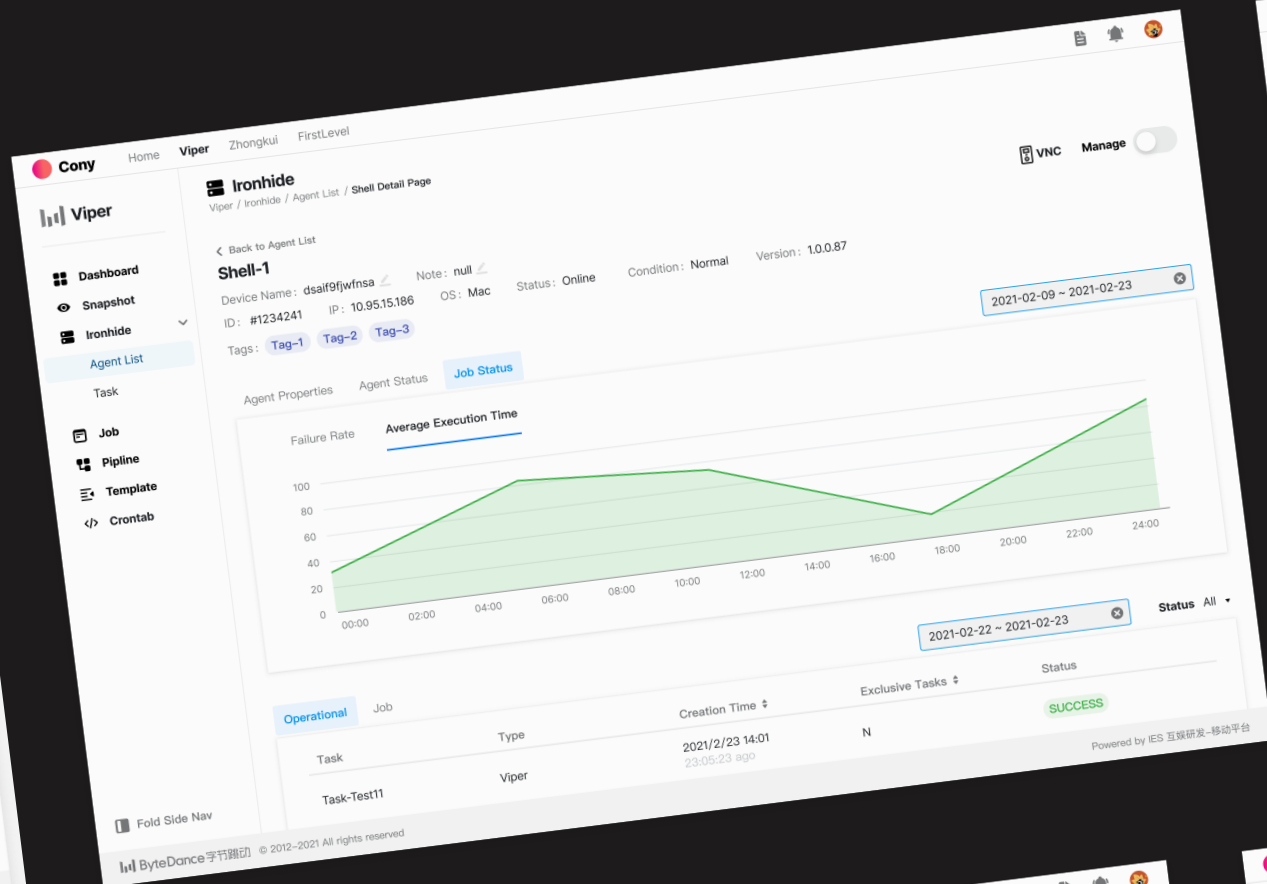
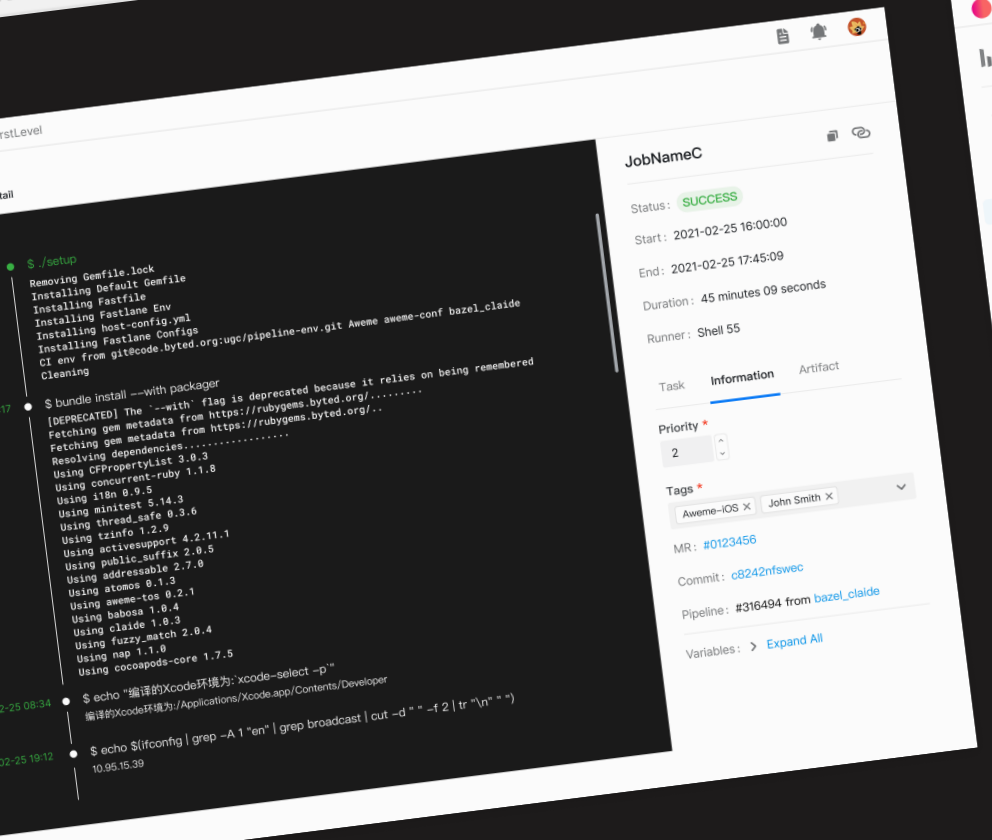
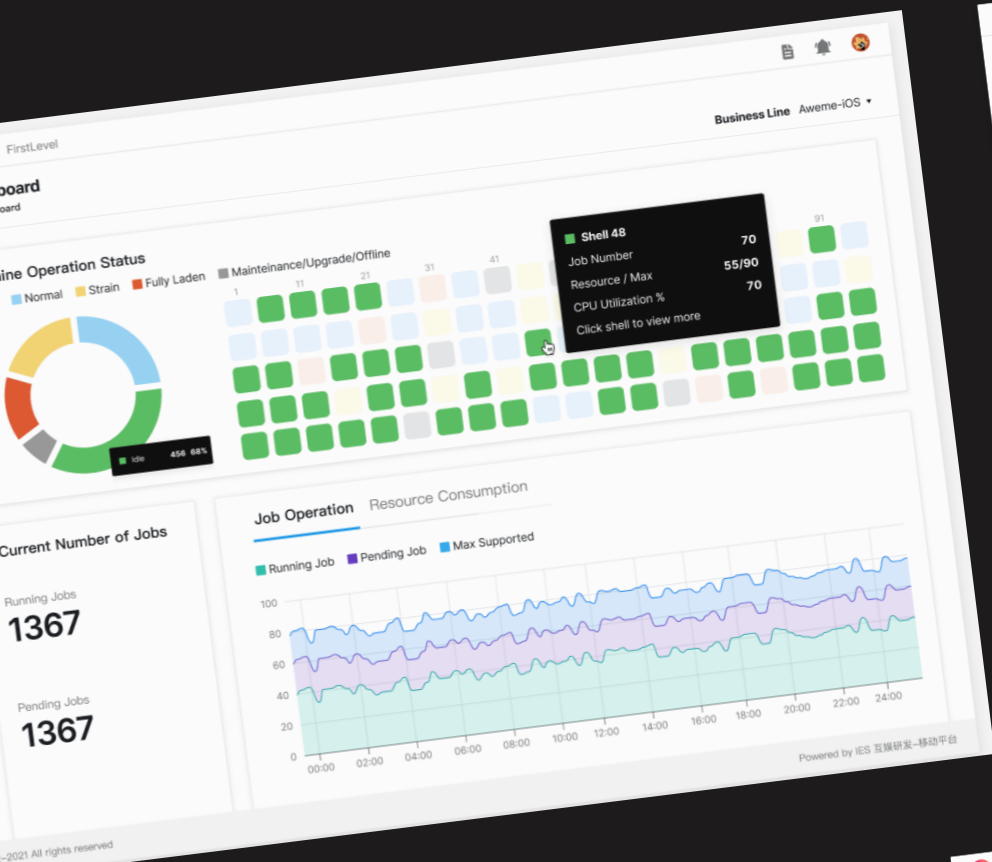
1. Seamless integration into the current platform
2. Increase efficiency

Challenge

2-month time constraint

OVERVIEW

Final

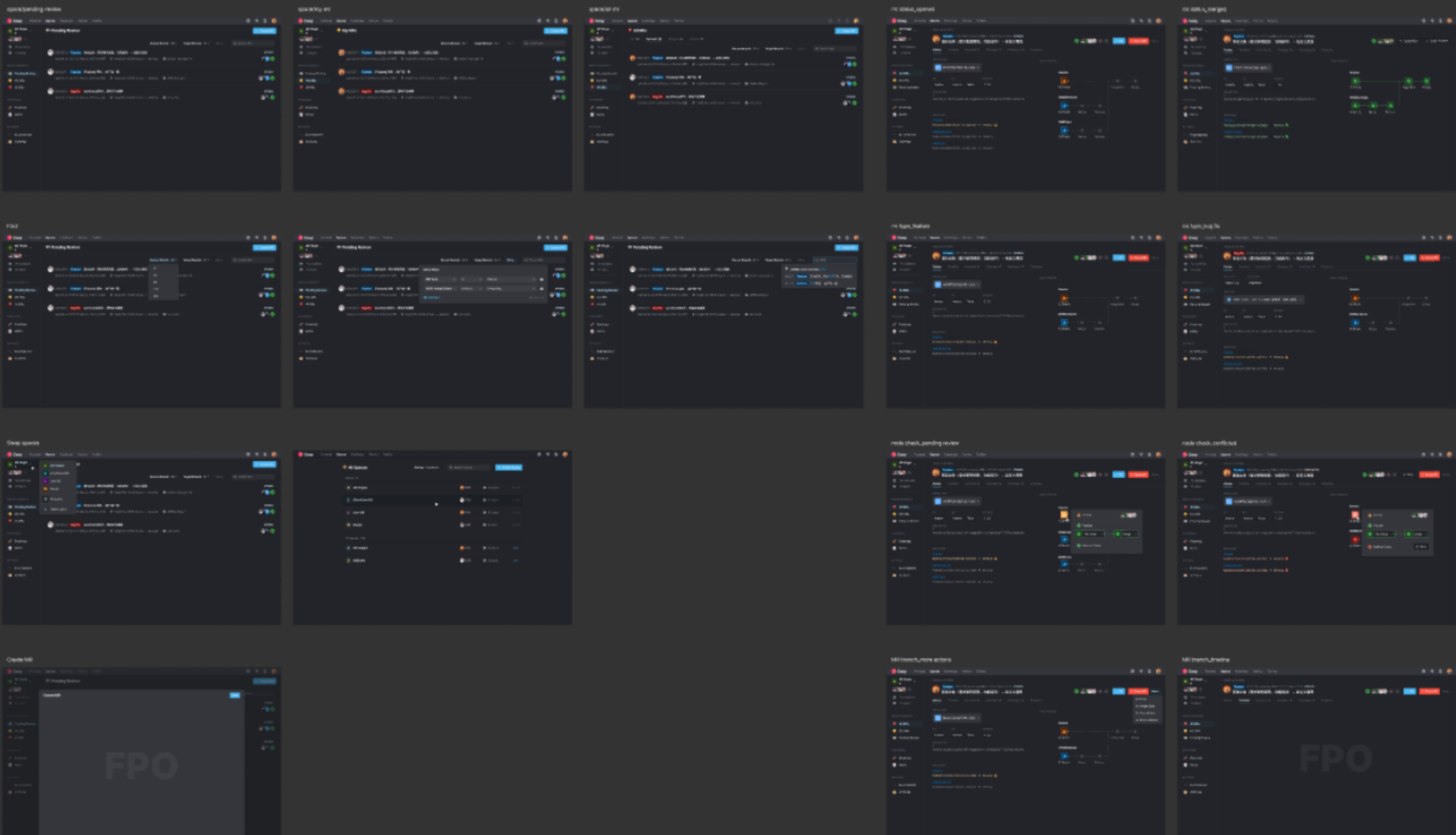


OVERVIEW

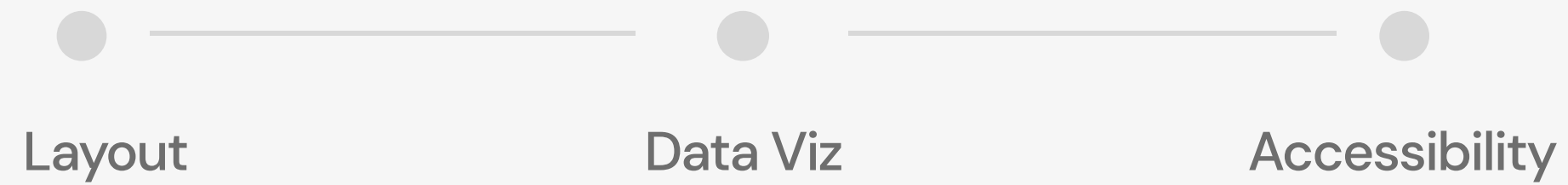
Final

Cony is now Dark

Every Merge Request Happens at Night

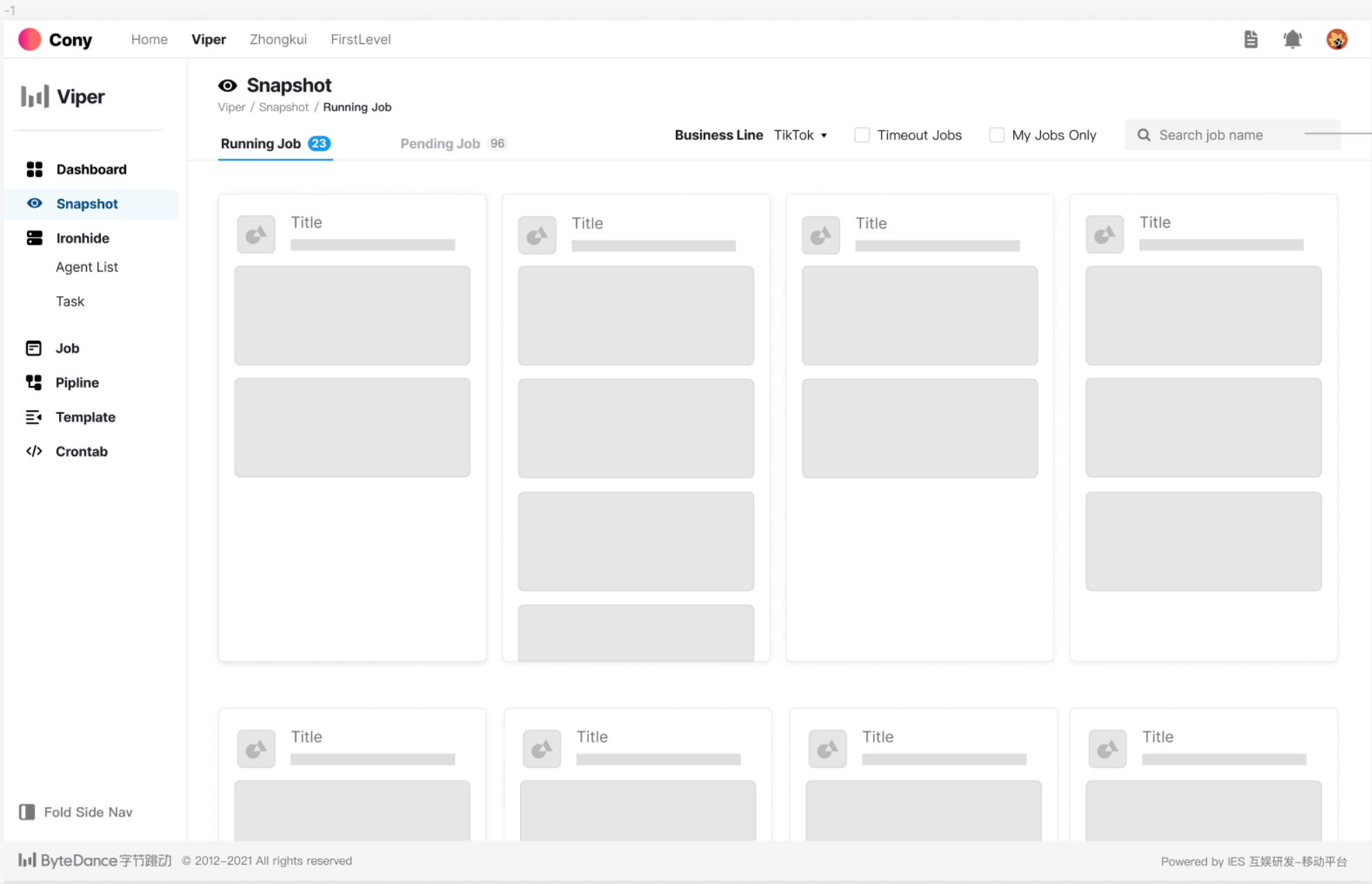


My Design Process



DESIGN PROCESS

Iterate towards better Layout



Search bar

Q QA

Q All job names contain QA

job name Deligate QA task - monetizationTR...

job name QA - Client end MVP

ME

Could you help pulling some real data for a quick test?



FRONT END DEV



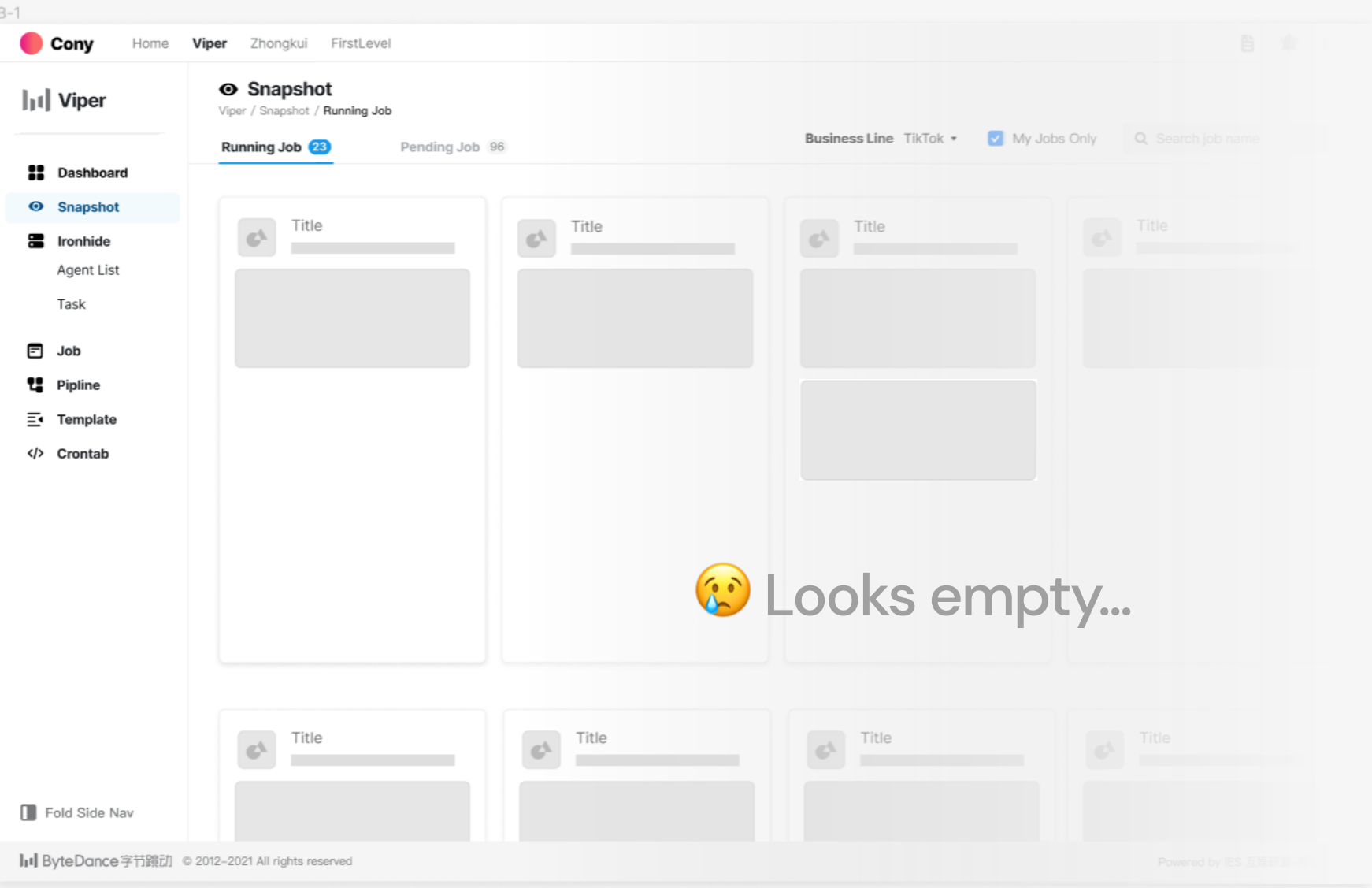
Sure thing!

DESIGN PROCESS

Iterate towards better Layout

Turns out, it looks differently than I expected:

- ~46% one card per container
- ~38% two cards per container
- ~15% three or more cards per container



FRONT END DEV

Could you narrow each card and add more colums in a row as possible?

ME

I agree with your **intent** to fit more content to increase nav efficiency.



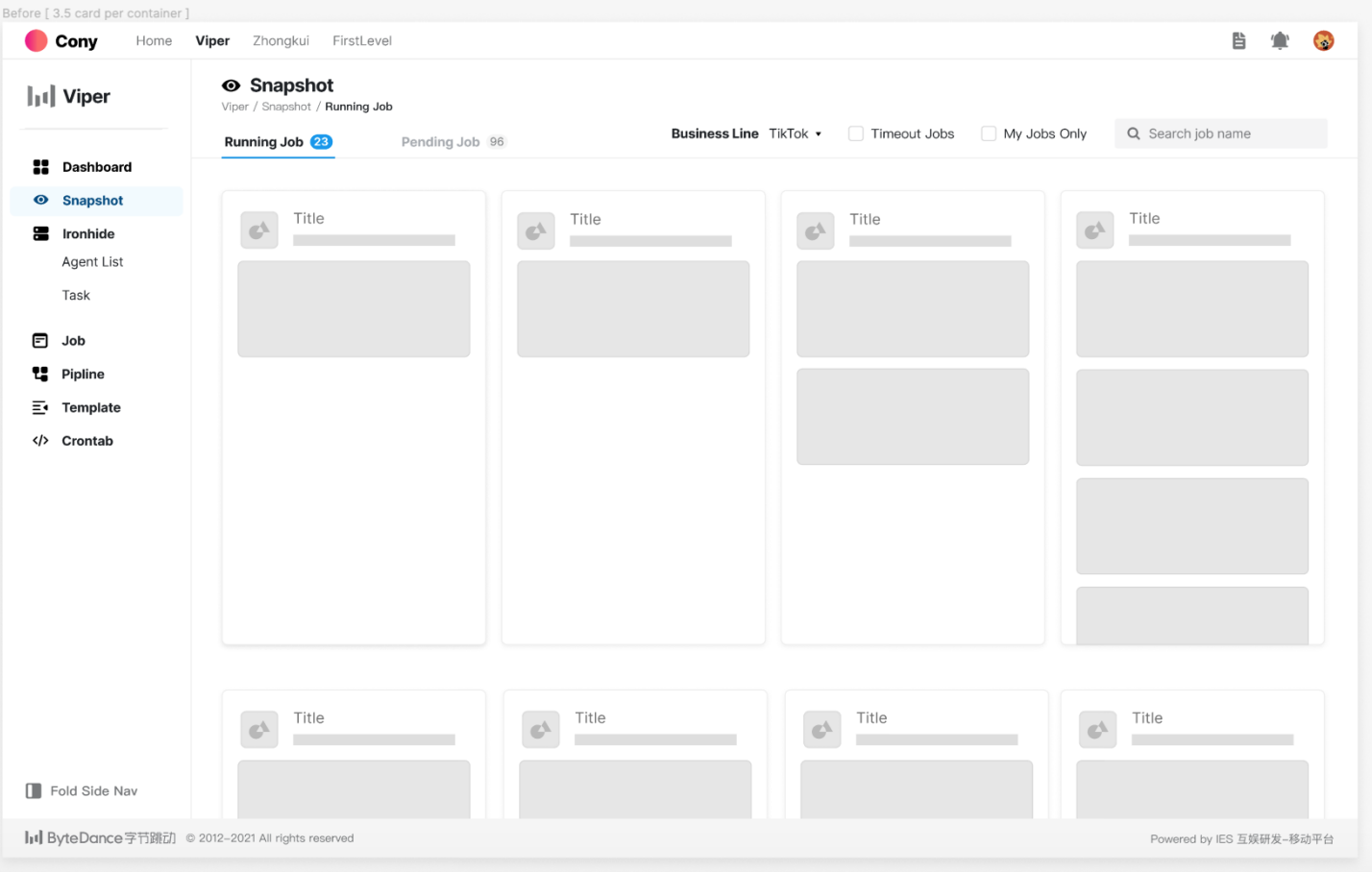
ME

How about this...



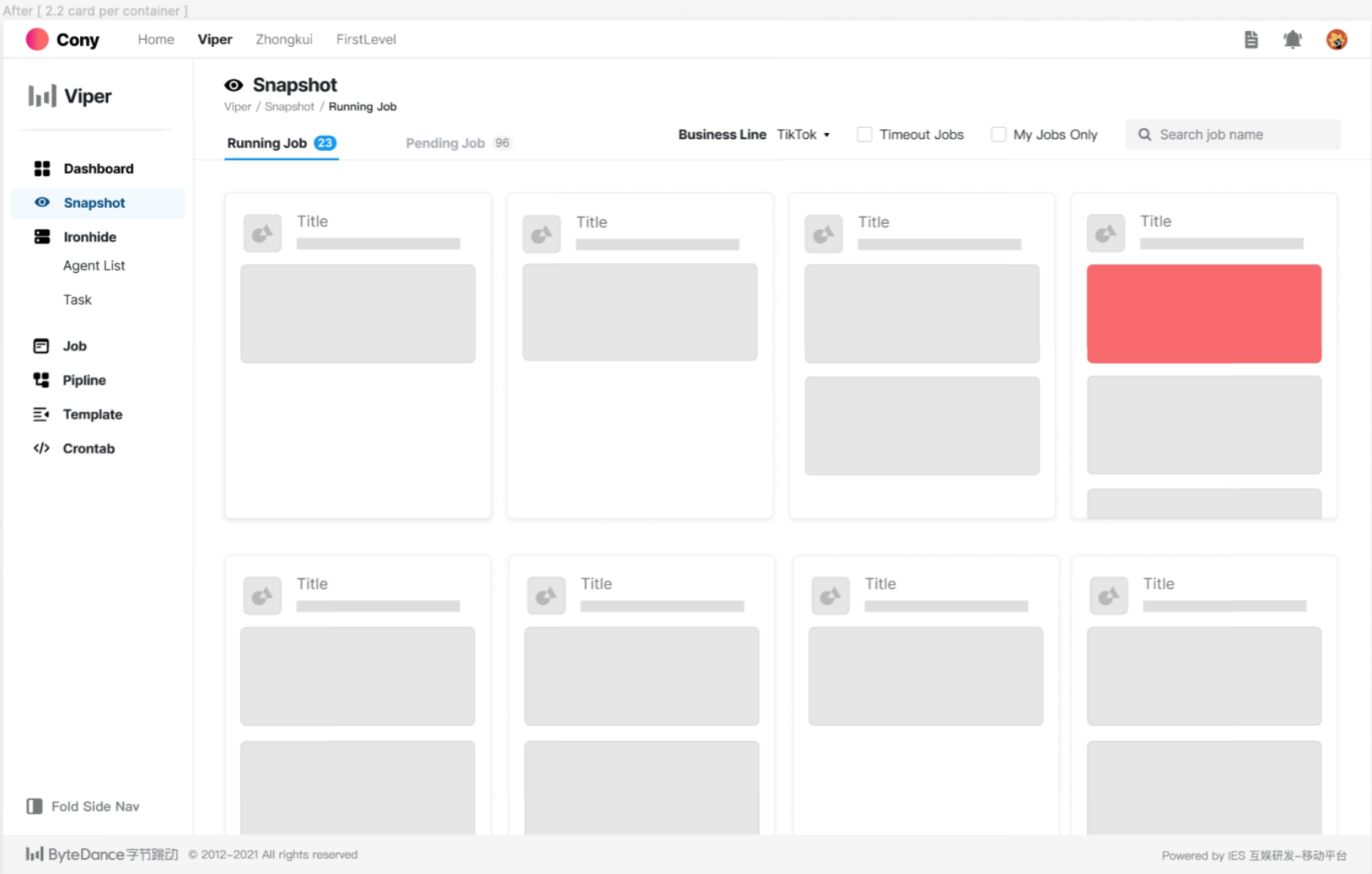
DESIGN PROCESS

Result



Before

Each showing 3.5 cards
max. 12 complete cards per page



After

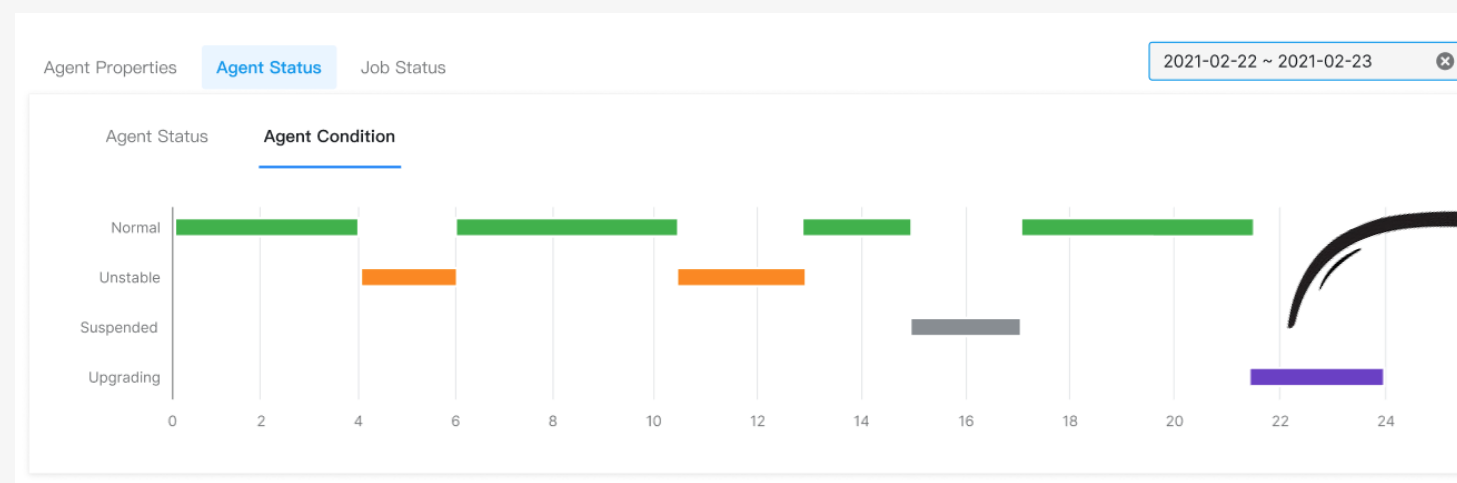
Each showing 2.2 cards. (0.2 = scrolling signifier)
max. 16 complete cards per page

33% more content per page!

DESIGN PROCESS

Iterate towards better Data Viz

Before



ME

Why Gantt chart?



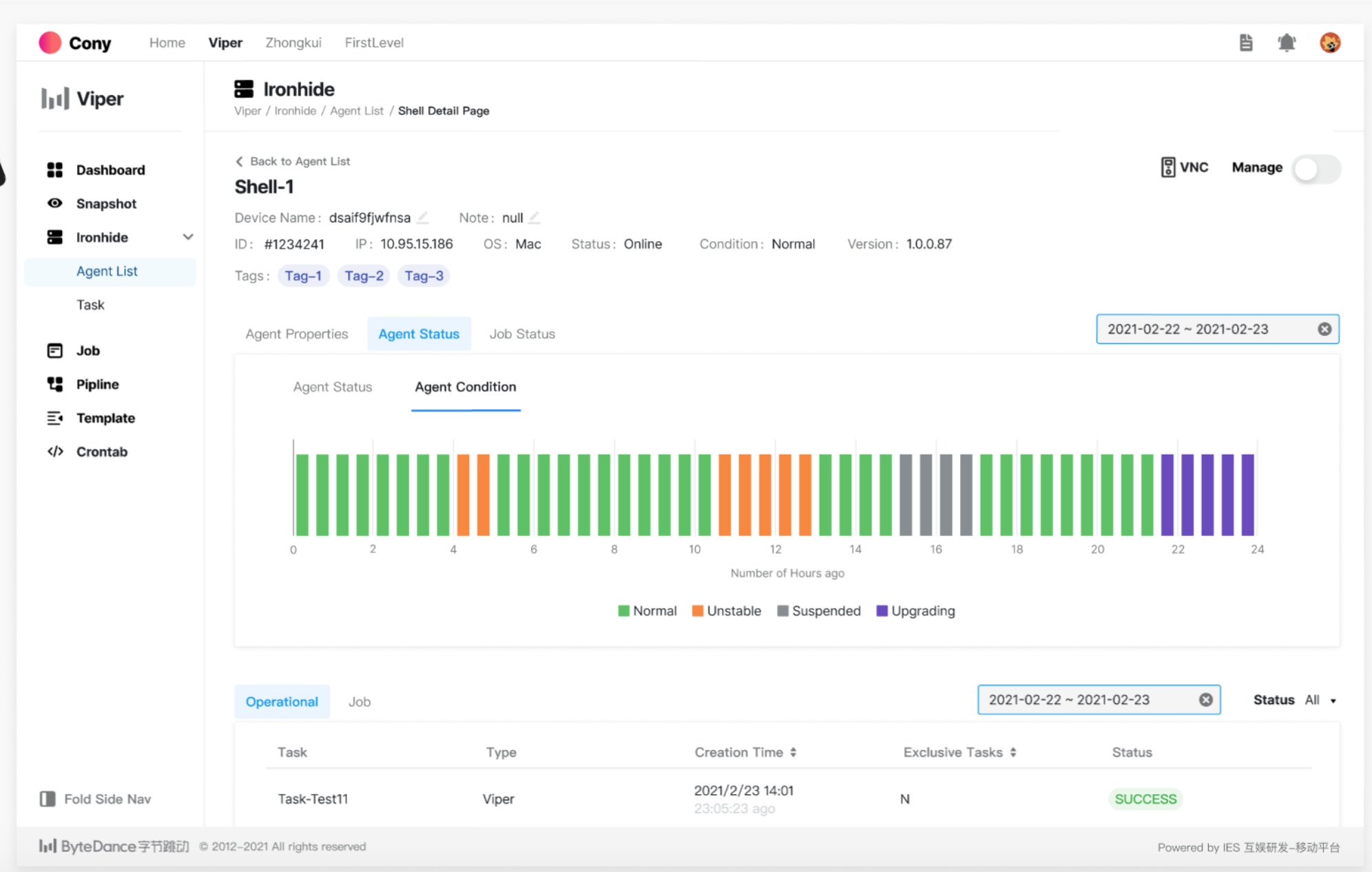
User need:

Quickly understand the machine status over the past 24-hr.

Hidden Dev need:

Reuse component as possible

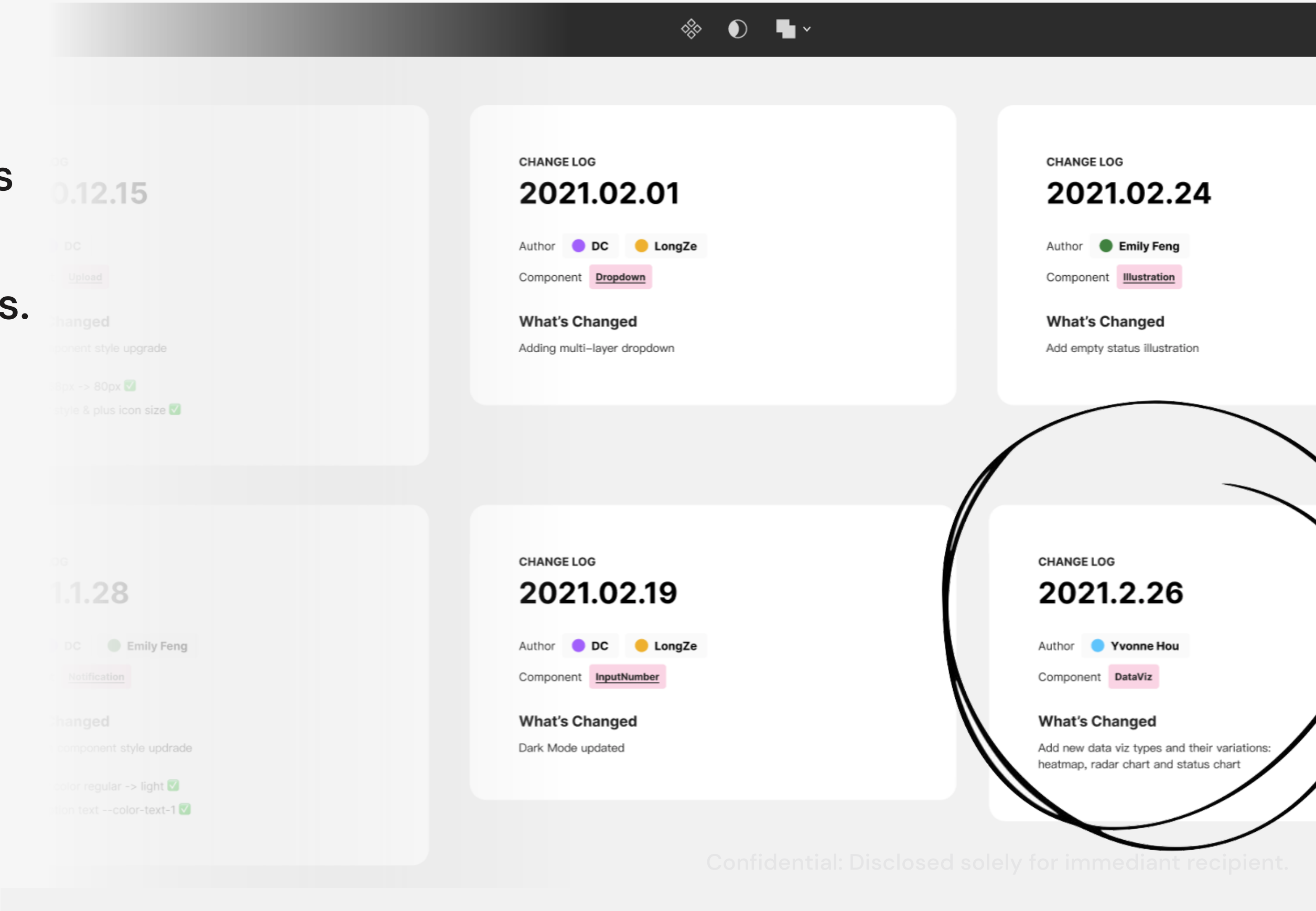
After



DESIGN PROCESS

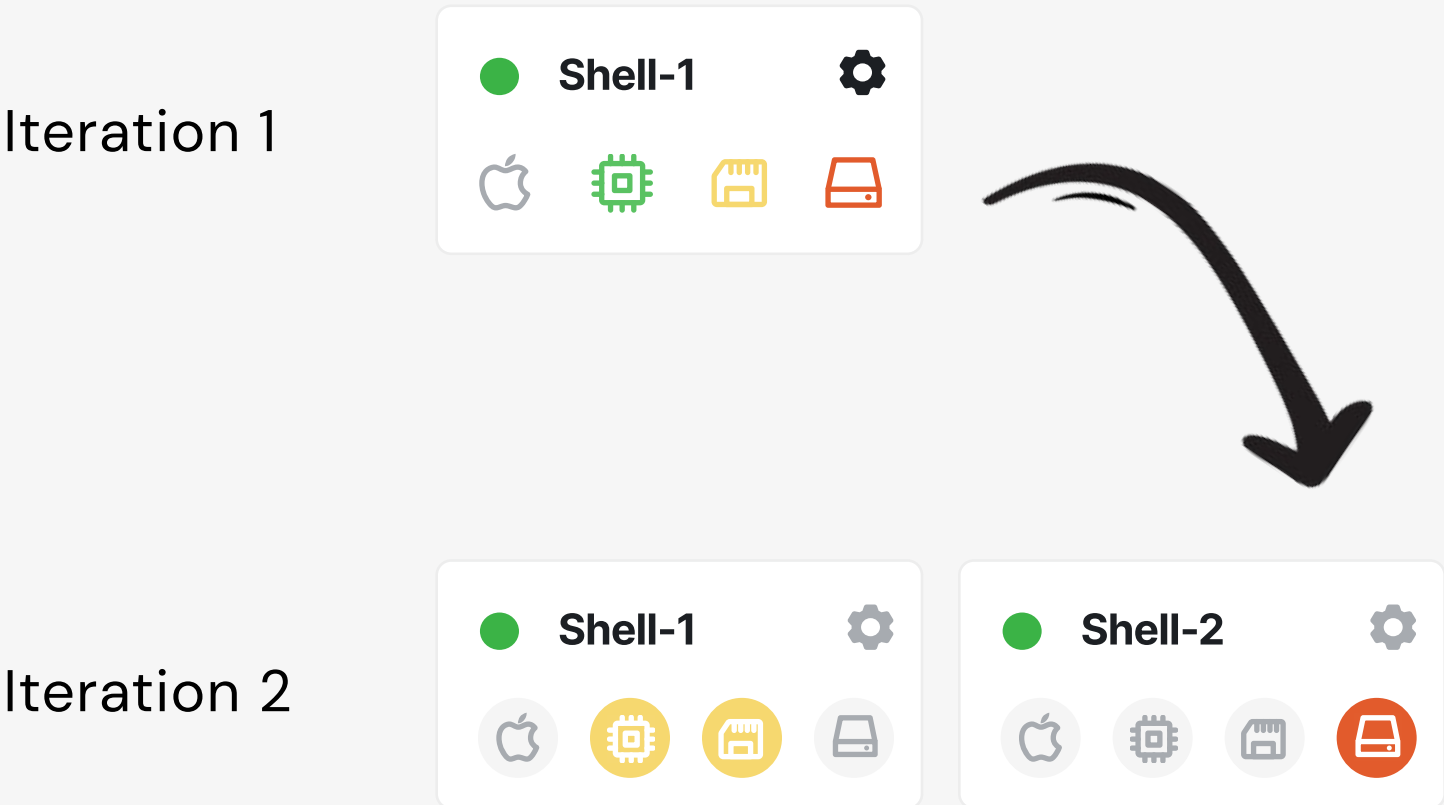
Result

Added to ByteDance’s
Design System,
facing **100,000+** users.



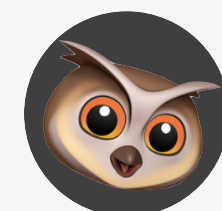
DESIGN PROCESS

Iterate towards better Accessibility




Users scan the page to spot *abnormalities*:
Only 🟡 Strain & 🔴 Fully Laden matter.

R&D



Will filter out the others and just see the ones that are low capacity.

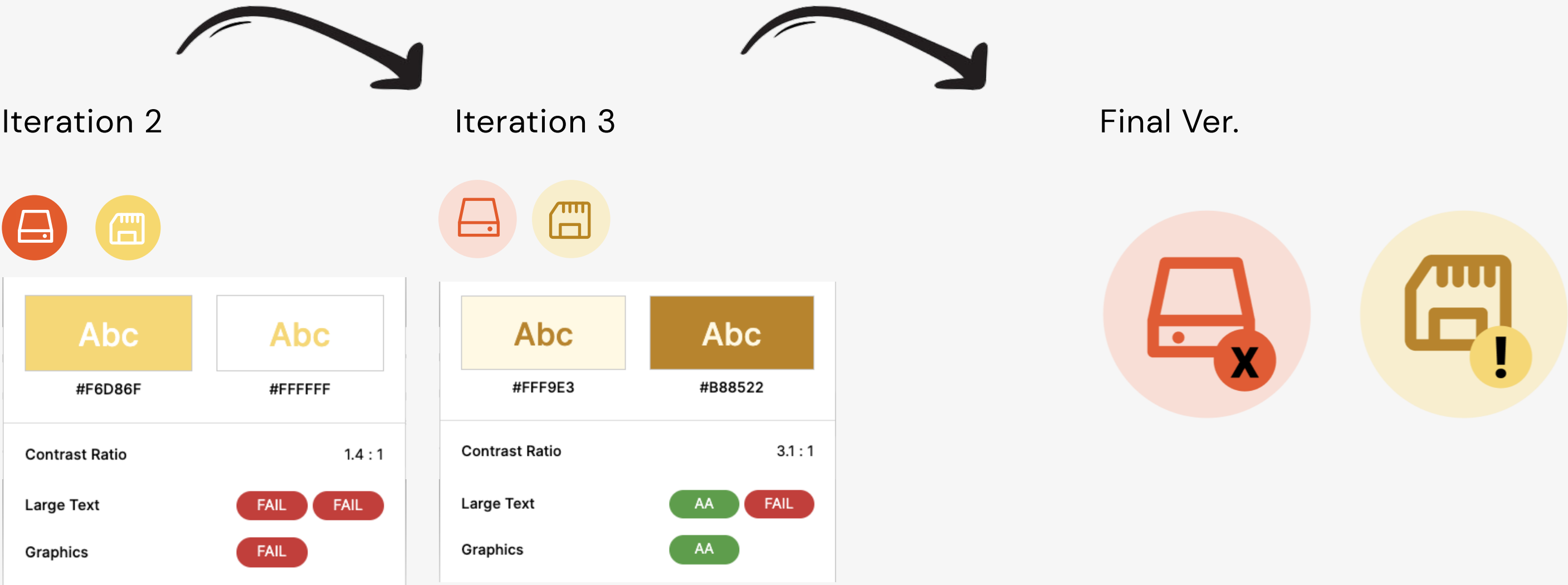
R&D



...Don't care for the rest.

DESIGN PROCESS

Result

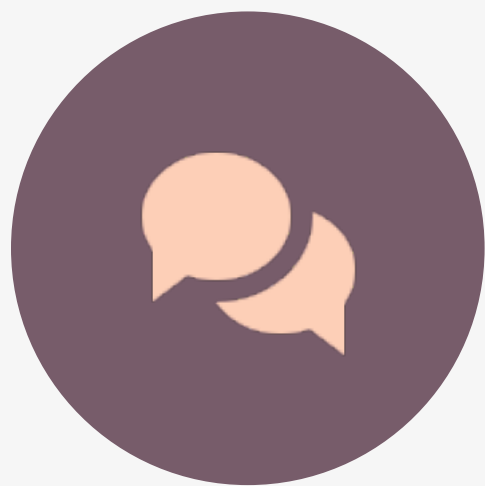


DESIGN PROCESS




Design Validation

DESIGN PROCESS

Design Validation



Think Aloud Usability Feedback Session

	zhenjie@bytedance.com	TikTok server-side R&D; Working extensively on Spring Festival campaigns recently, frequent user.
	jun.thinker@bytedance.com	Monitor the data status on a weekly basis.
<div>+3</div>	Team of 4, Focus group	Backend developer team, frequent Cony users.

DESIGN PROCESS

Design Validation

Understand major data visualizations quickly.



Find their own jobs & timeout jobs quickly

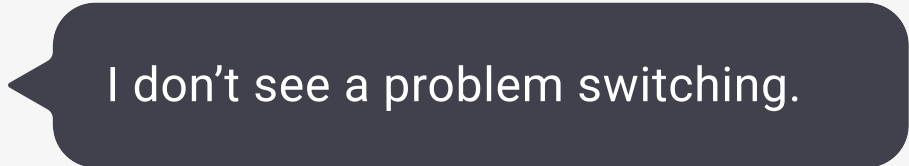


Successfully create a pipeline from established template



R&D

It's easy to understand and find things. I can tell what's it for without your explanation.



R&D

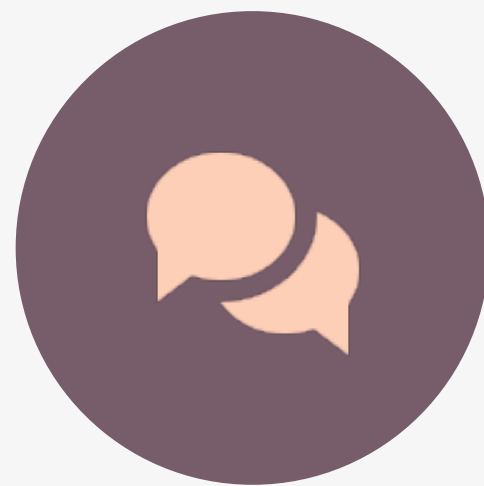


MANAGEMENT

The graphs are neat and I will download for report use directly.

DESIGN PROCESS

Design **Validation**



Think Aloud Usability
Feedback Session



Cony Platform
User Satisfaction Survey (2021.3)

CSAT Score: ~86% (from 362 respondents)

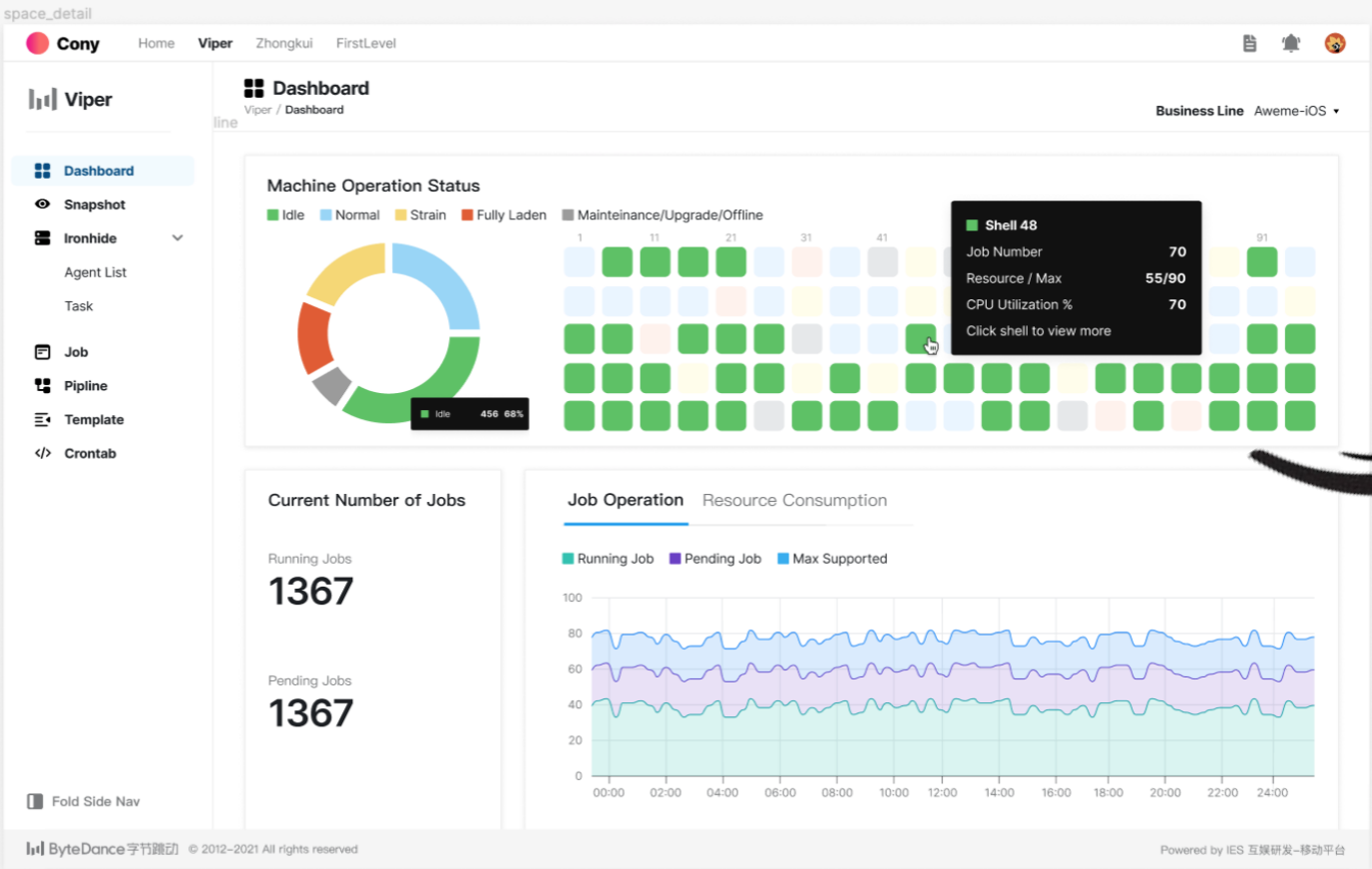
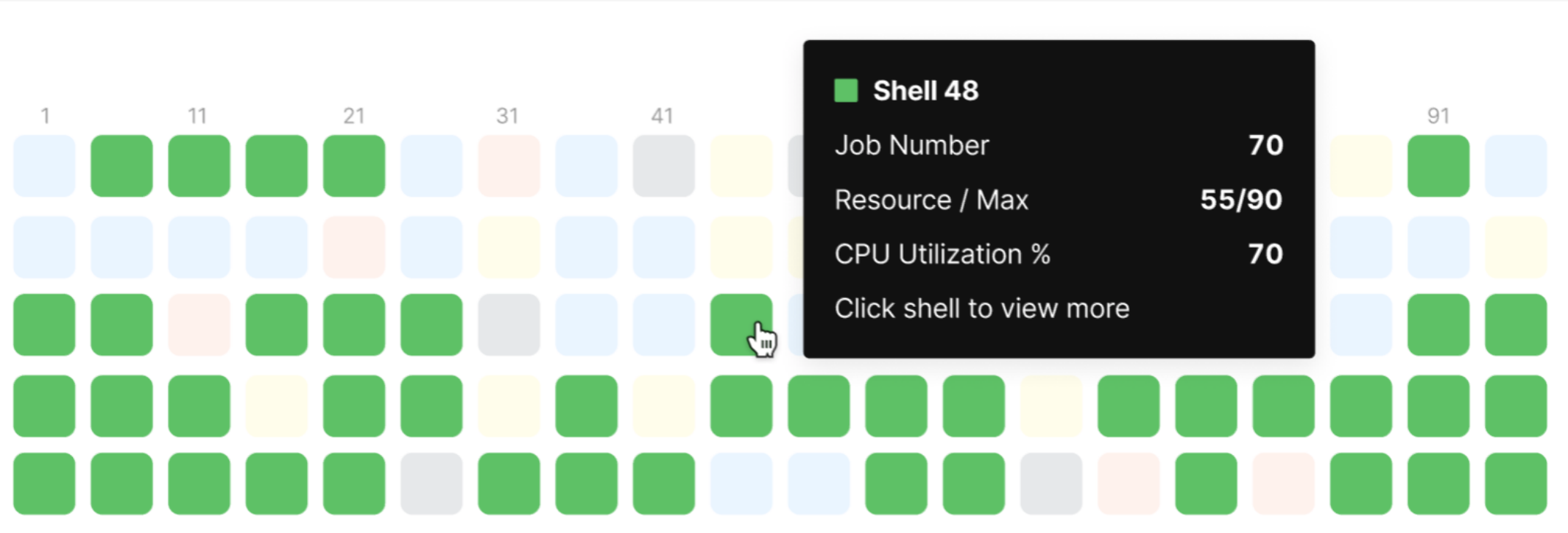
An Improvement compared against

- old cony site,
- other internal tools within ByteDance,
- industry benchmarking scores according to ACSI.

Thank You

DESIGN PROCESS

Iterate towards better Data Viz



ME

Heat map can also work as a **shortcut** to quickly pinpoint a specific shell.