

LinkedIn

Pursuit of Universal Ownership

Prince Valluri

Sr Staff Engineer

Dev Platforms and Experience



Our Vision

To create economic opportunity for every member of the global workforce

Our Mission

Connect the world's professionals to make them more productive and successful

1B+

Members
(Jan 2024)

1.5M+

Feed Updates
(every minute)

13k+

Connections
(every minute)

1B+

Members
(Jan 2024)

7

People hired
(every minute)

13k+

Connections
(every minute)

LinkedIn Engineering Scale

207B+

Edges
(Jan 2024)

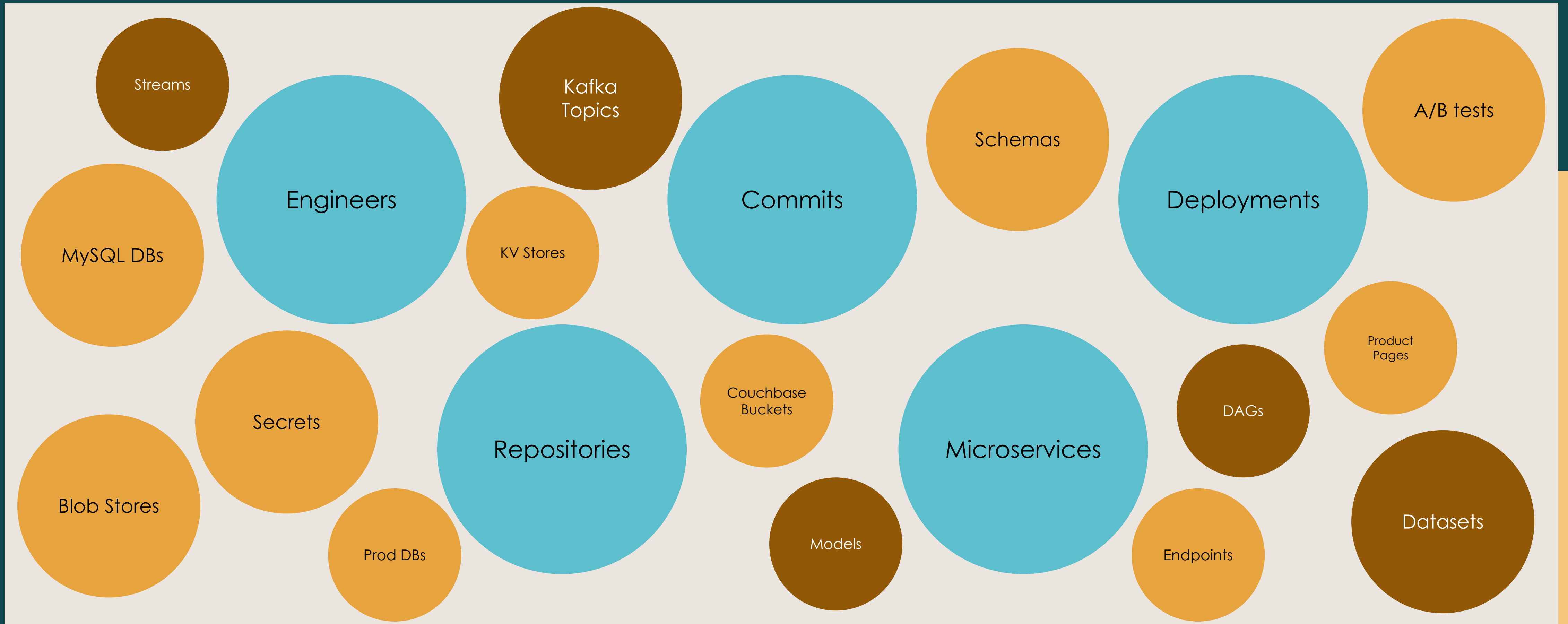
2.55M

Peak QPS
(Jan 2024)

45T+

Kafka Messages
(per day)

LinkedIn Engineering Scale



... in the order of tens of millions!

What is ownership and why is it so important?

“Ownership represents the responsibility for an asset”

Development

Operations

Strategy

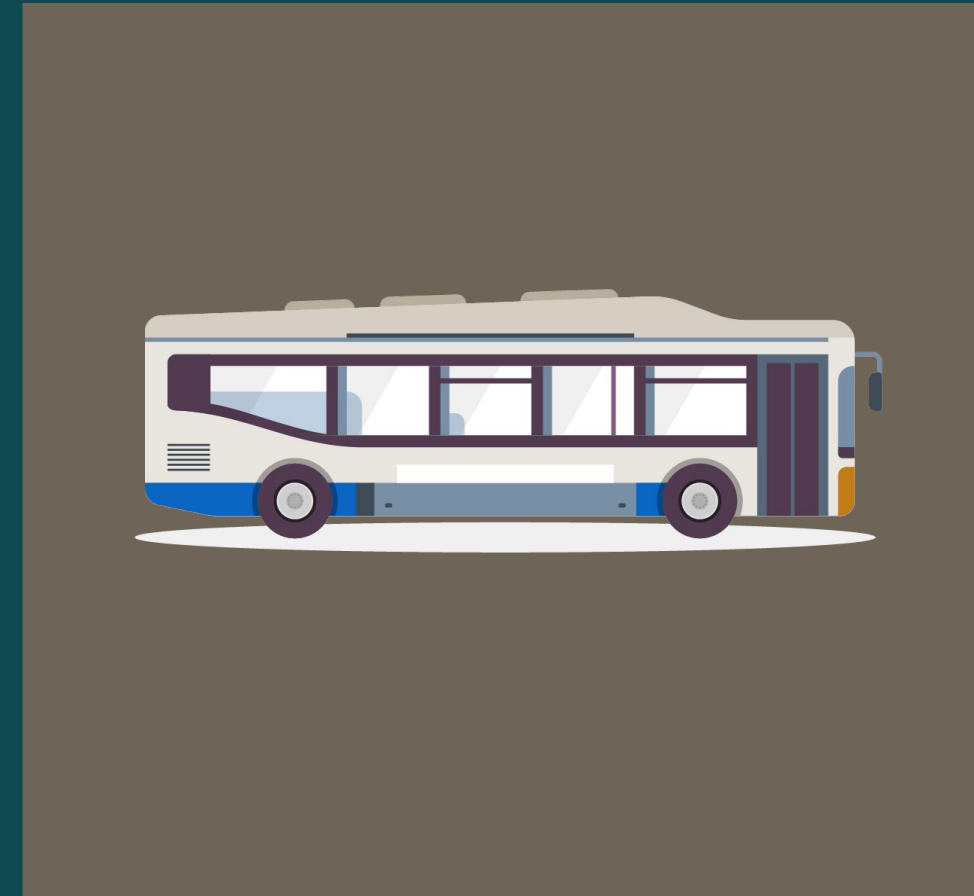
Compliance

Resourcing

Accountability

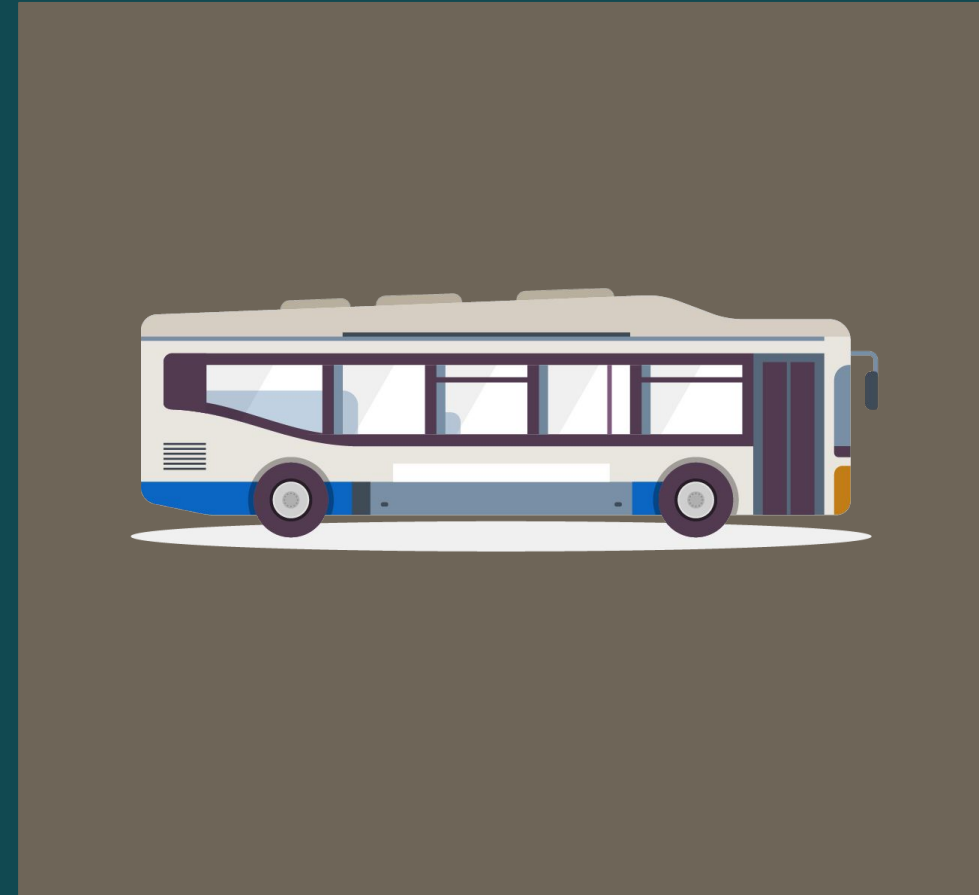
Who do I call?

Why is ownership hard?



Organic Growth

Why is ownership hard?

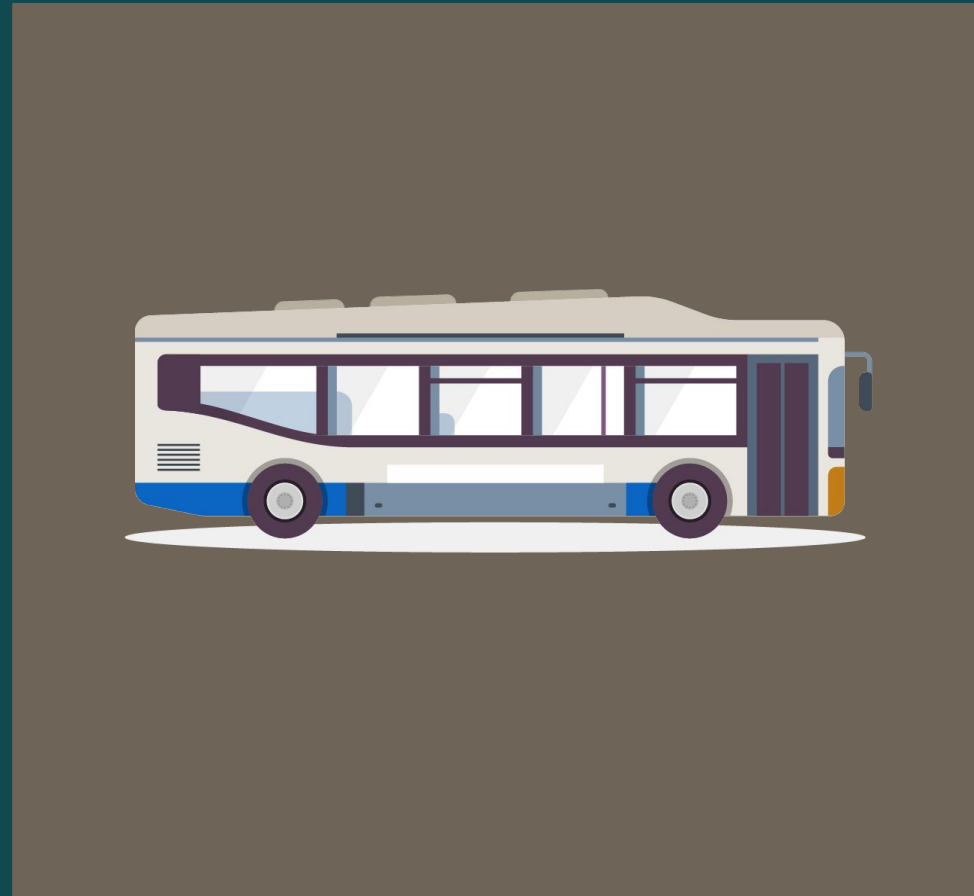


Organic Growth



Shifting Priorities

Why is ownership hard?



Organic Growth



Shifting Priorities



People Movements

Why is ownership hard?



Organic Growth



Shifting Priorities



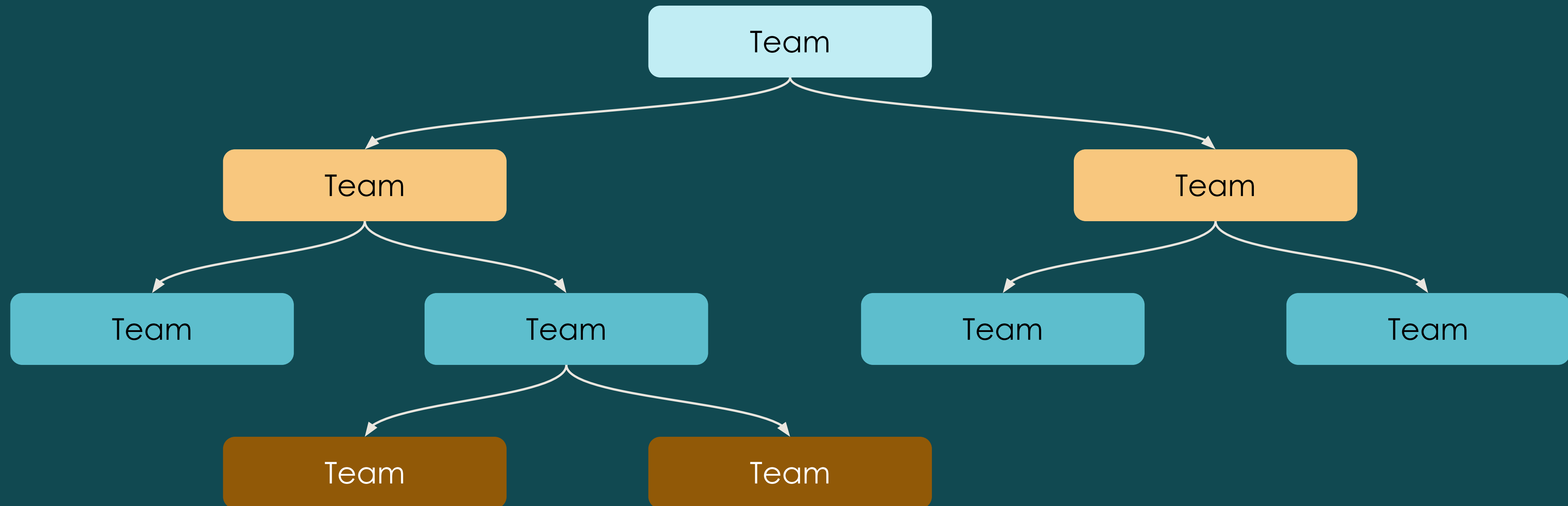
People Movements



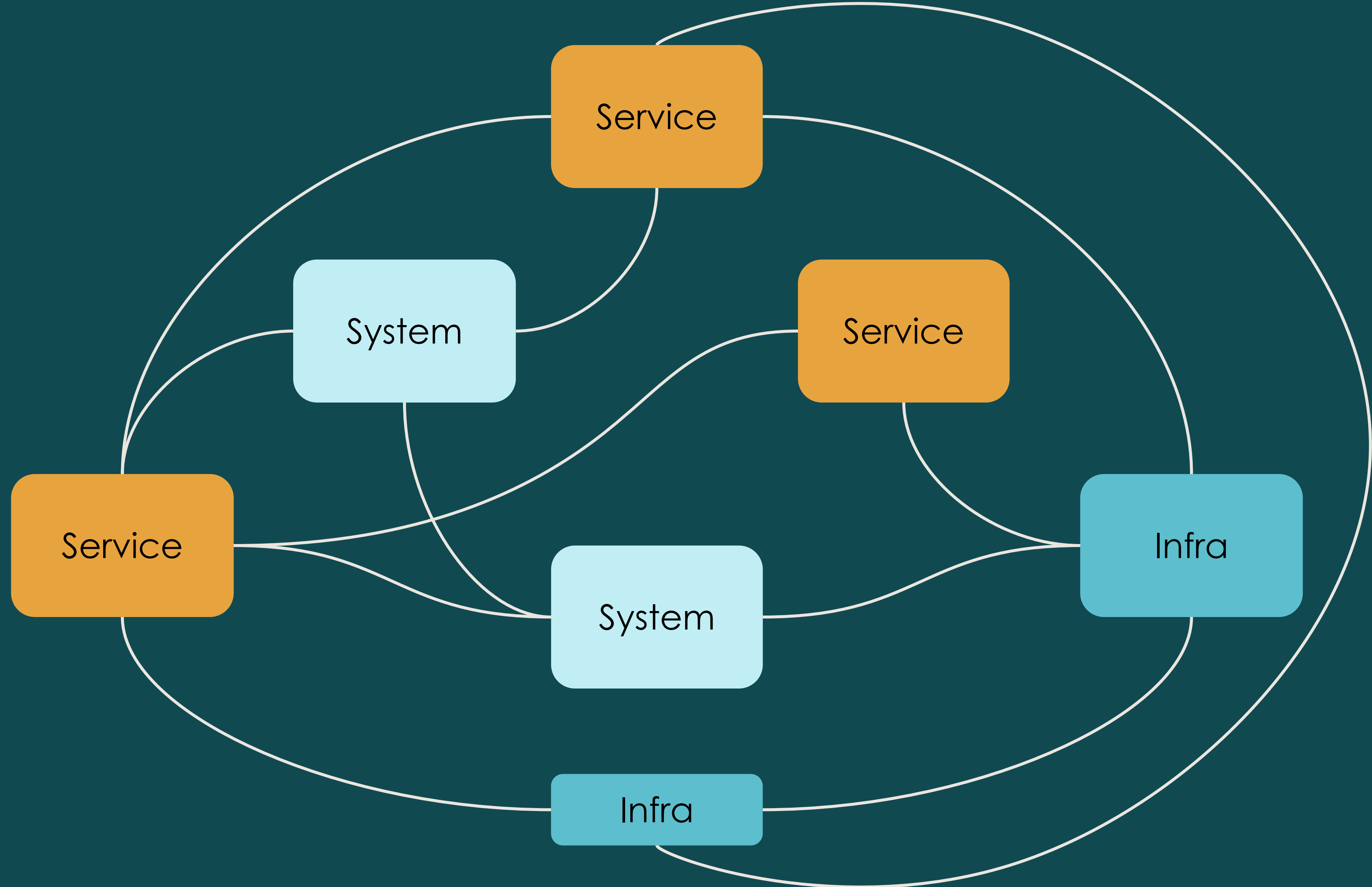
Re-Orgs

Individuals should not be owners!

Technology doesn't always mirror the Org Chart



Technology doesn't always mirror the Org Chart



What can we do?

Define Teams and their relationships to the Organizational Structure

How do we do it?

Assign Unique Identifiers to Teams

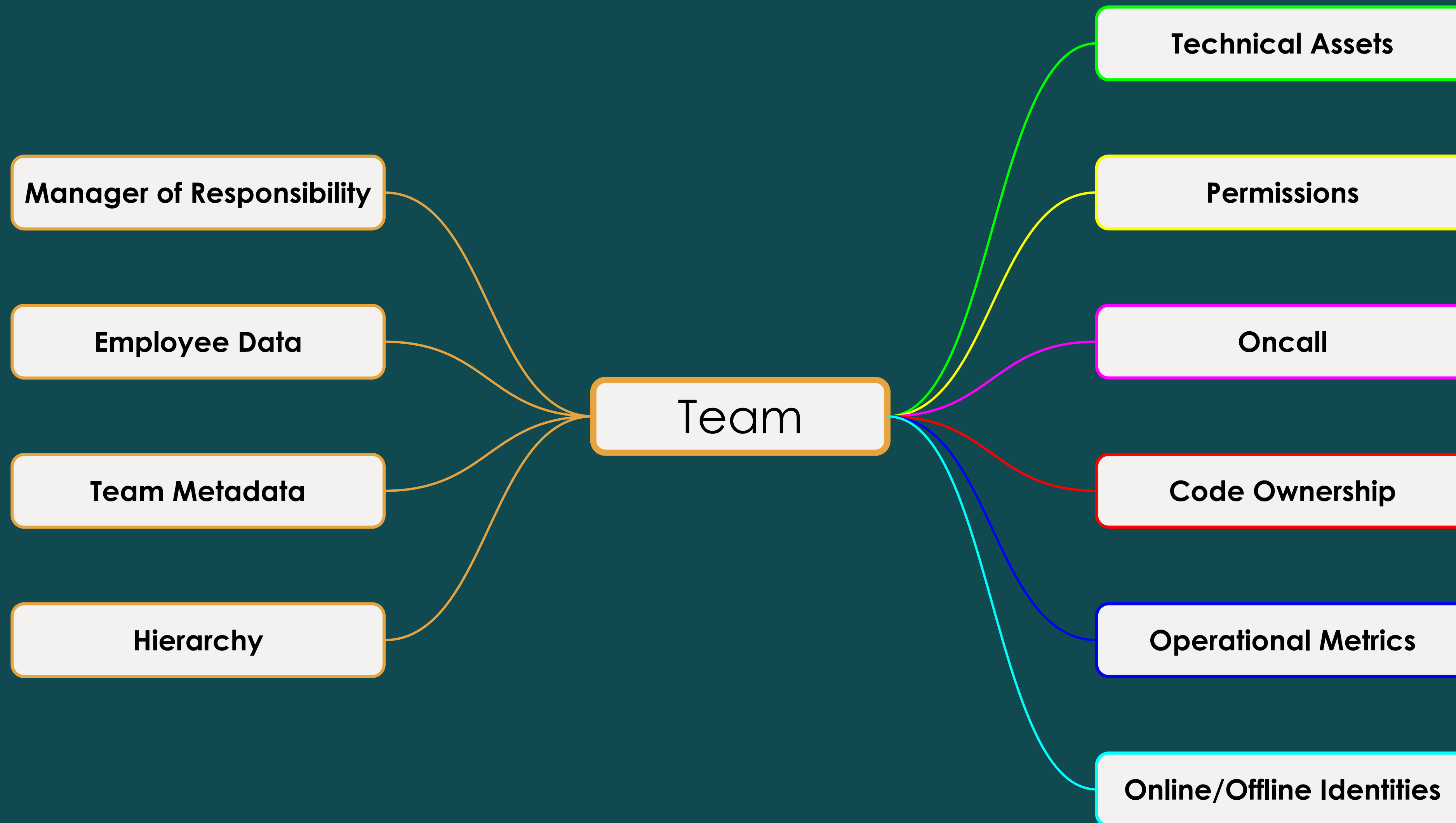
Integrate Personnel Data

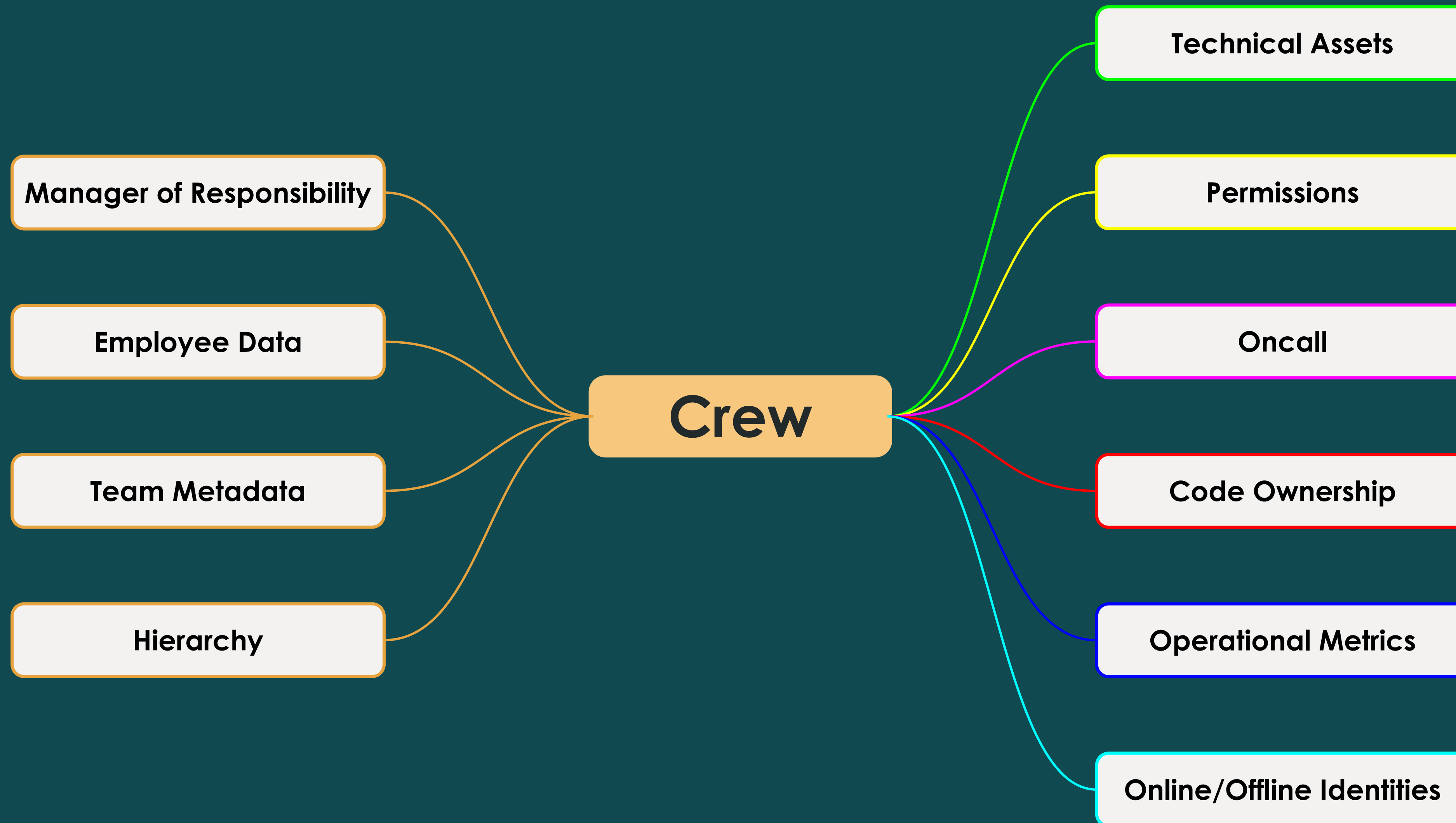
Define Team-to-Organization Relationships

Link Teams to Their Assets

APIs for Ownership Information

Asset relationships are more stable than people-asset relationships.





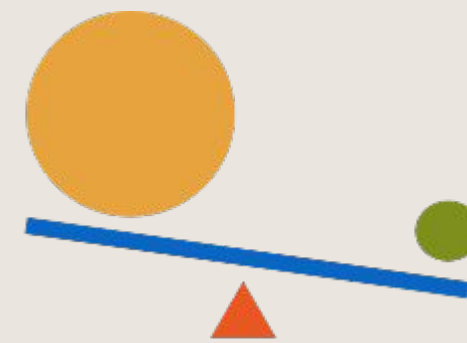
Crews



Ownership



People



Flexibility



Identities

Test Crew
CREW ONCALL

VIRTUAL CREW
Crew ID: [blurred]
> [blurred]
> [blurred]
> [blurred]
> Test Crew

Overview Members Products Assets Settings

Test Crew

A Test Crew to demonstrate the Crew Page

Contact

[blurred contact info]

Crew Hierarchy

Developer Experience and Platform
[blurred]
CREW

↑
Super-Crew

Test Crew

Prince Valluri, Sr Staff Software Engineer (Manager of Responsibility)

Members: 5 Assets: 1

VIRTUAL CREW

[See complete hierarchy](#)

Oncall

primary 09/18/24 01:30 pm – 09/25/24 01:30 pm

[See oncall calendar](#)

Members (5)

- Prince Valluri**

Sr Staff Software Engineer
- [blurred name and role]
- [blurred name and role]
- [blurred name and role]
- [blurred name and role]

[See all 5 members](#)

Assets

[blurred asset name]	1 asset
Total	1

[See all assets](#)

Assets



Providers



Groups



Relationships



Binding

Assets

Test Crew

VIRTUAL CREW Crew ID: [redacted] > [redacted] > [redacted] > Test Crew

[CREW ONCALL](#)

[Overview](#) [Members](#) [Products](#) [Assets](#) [Settings](#)

Asset Group: **Default (Default)** Asset Type: **All** [See Descendant Assets](#)

Assets in Default

[MOVE TO ANOTHER ASSET GROUP](#) [TRANSFER TO ANOTHER CREW](#)

<input type="checkbox"/>	Asset Name	Asset Group	Type	Claimed At	Relationships
<input type="checkbox"/>	Test App 1	Default	app	09/22/2024	
<input type="checkbox"/>	Test App 2	Default	app	09/22/2024	
<input type="checkbox"/>	Test Repo 1	Default	repo	09/22/2024	
<input type="checkbox"/>	Test Repo 2	Default	repo	09/22/2024	

Rows per page: 25 1-4 of 4

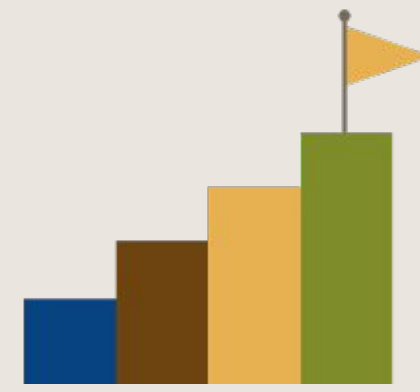
Asset Group Details

Default ID: [redacted]

Product
This asset group is not associated with any product yet.

Contained Assets 4

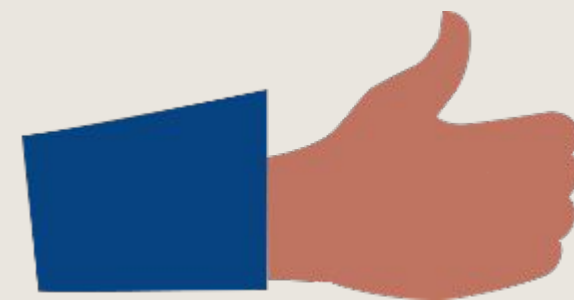
Crews *and* Assets



Tracking



Automation



Ease of Use



Compliance

How is it going?

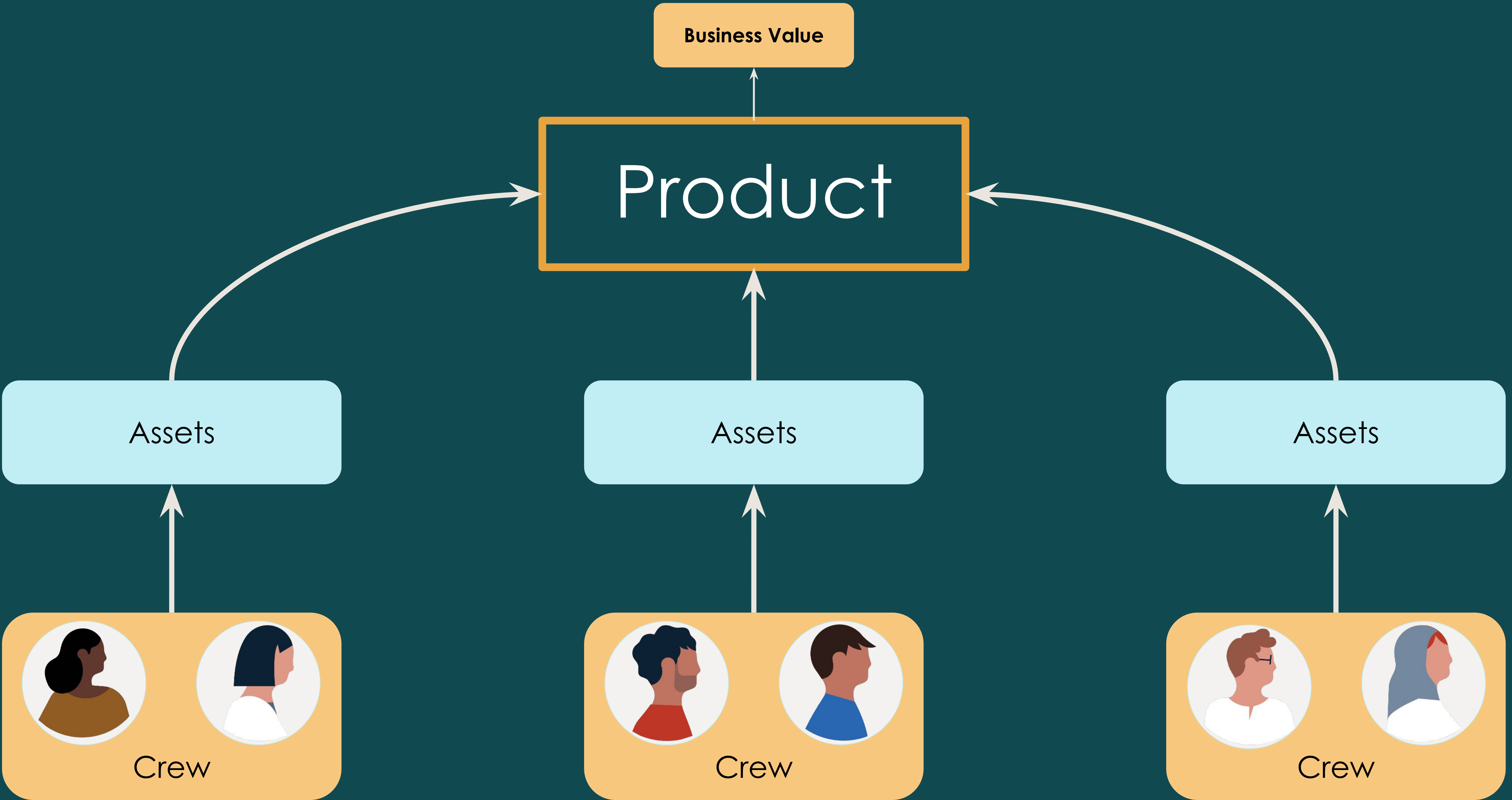
100k+
Assets

10k+
Assets Moved

0
Time Wasted

15k+
Tickets Saved

What else does it unlock?



Risks

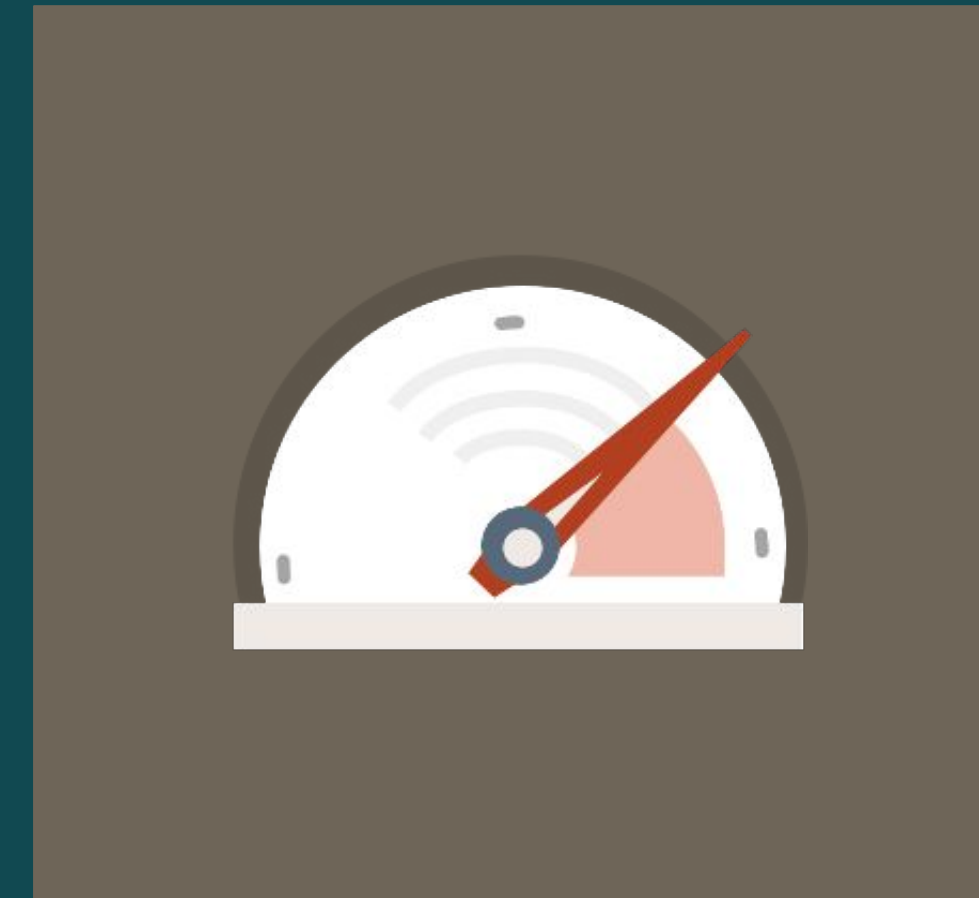


Adoption
(Buy in)

Risks



Adoption
(Buy in)

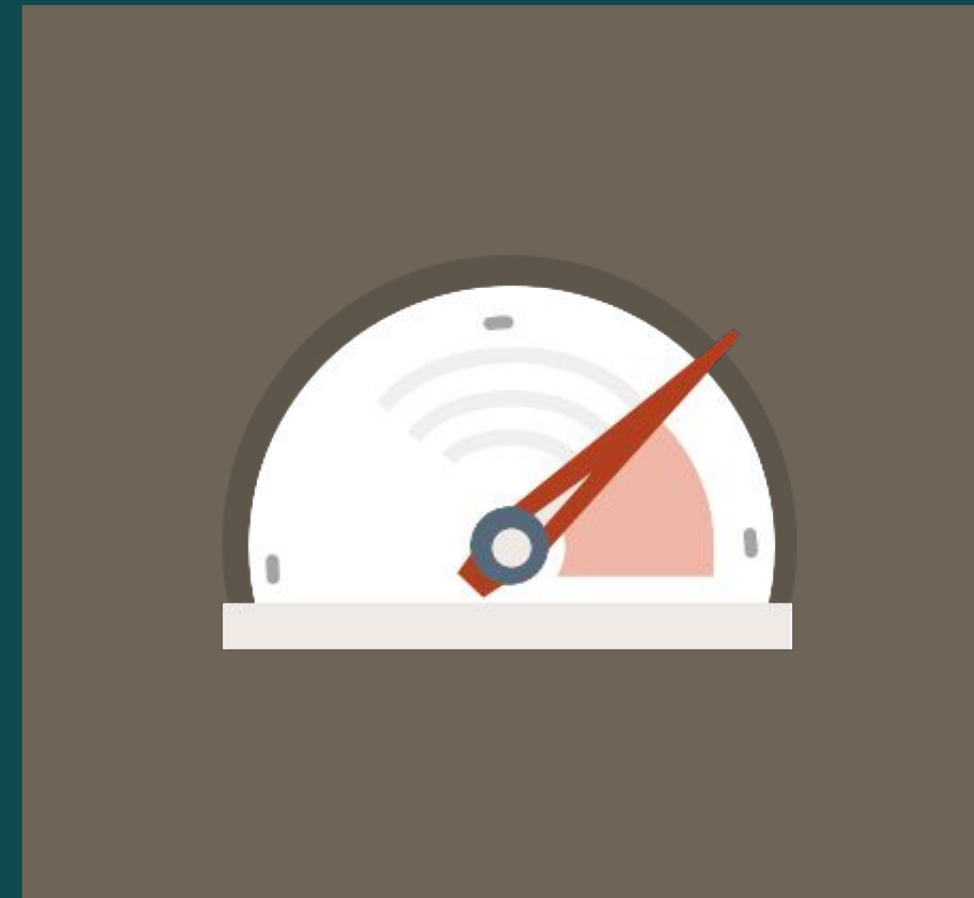


Coverage
(Deep Integration)

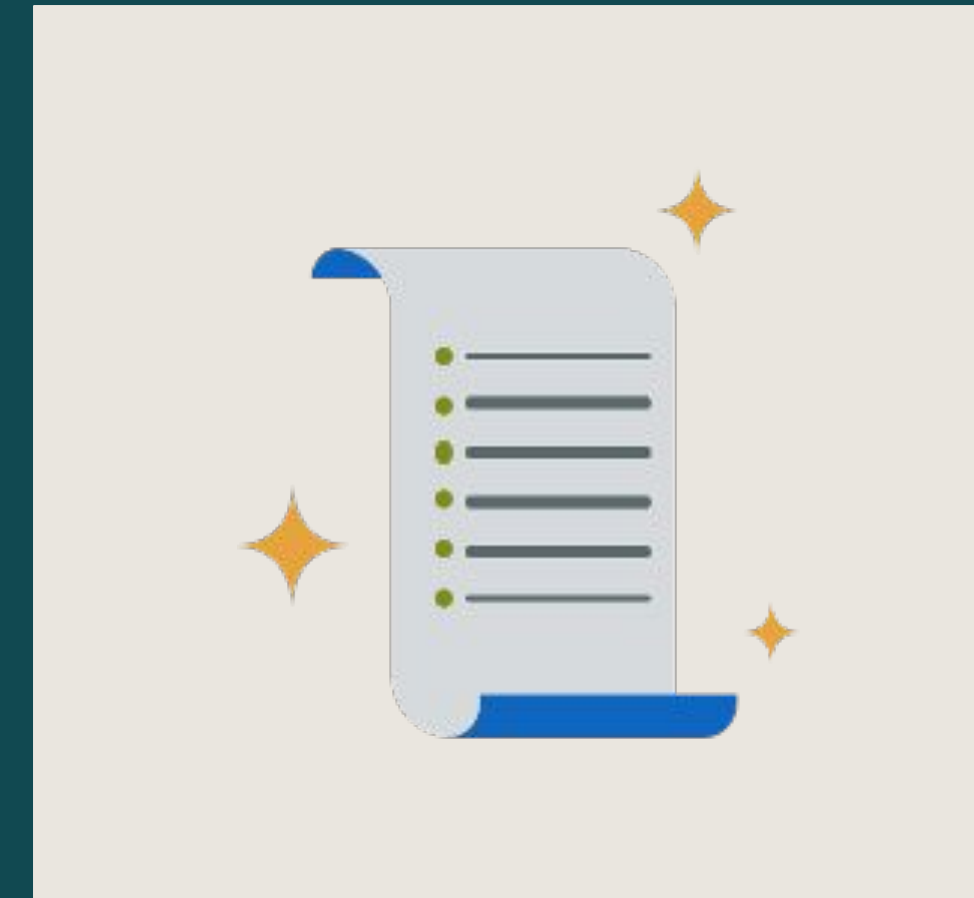
Risks



Adoption
(Buy in)



Coverage
(Deep Integration)



Data Quality
(Incentives)

Takeaways

Asset relationships are more stable than people-asset relationships

Little details make up the big picture

Flexibility is key for success

Incentives go a long way

People are mobile

Thank you



Prince Valluri
LinkedIn

