

Micro-frontends three years after

@_maxgallo

In 2019 I was on this stage with Luca Mezzalira to introduce DAZN approach to Micro-frontends

<https://bit.ly/talk-max-luca>

MICROFRONTENDS MANIFESTO



Independent implementation,
avoiding sharing logic



Modelled around
a Business Domain



Own by a single team



Hi I'm Max



Principal Engineer @ DAZN



twitter: @_maxgallo

web: maxgallo.io

Agenda

 **Once Upon a Time**

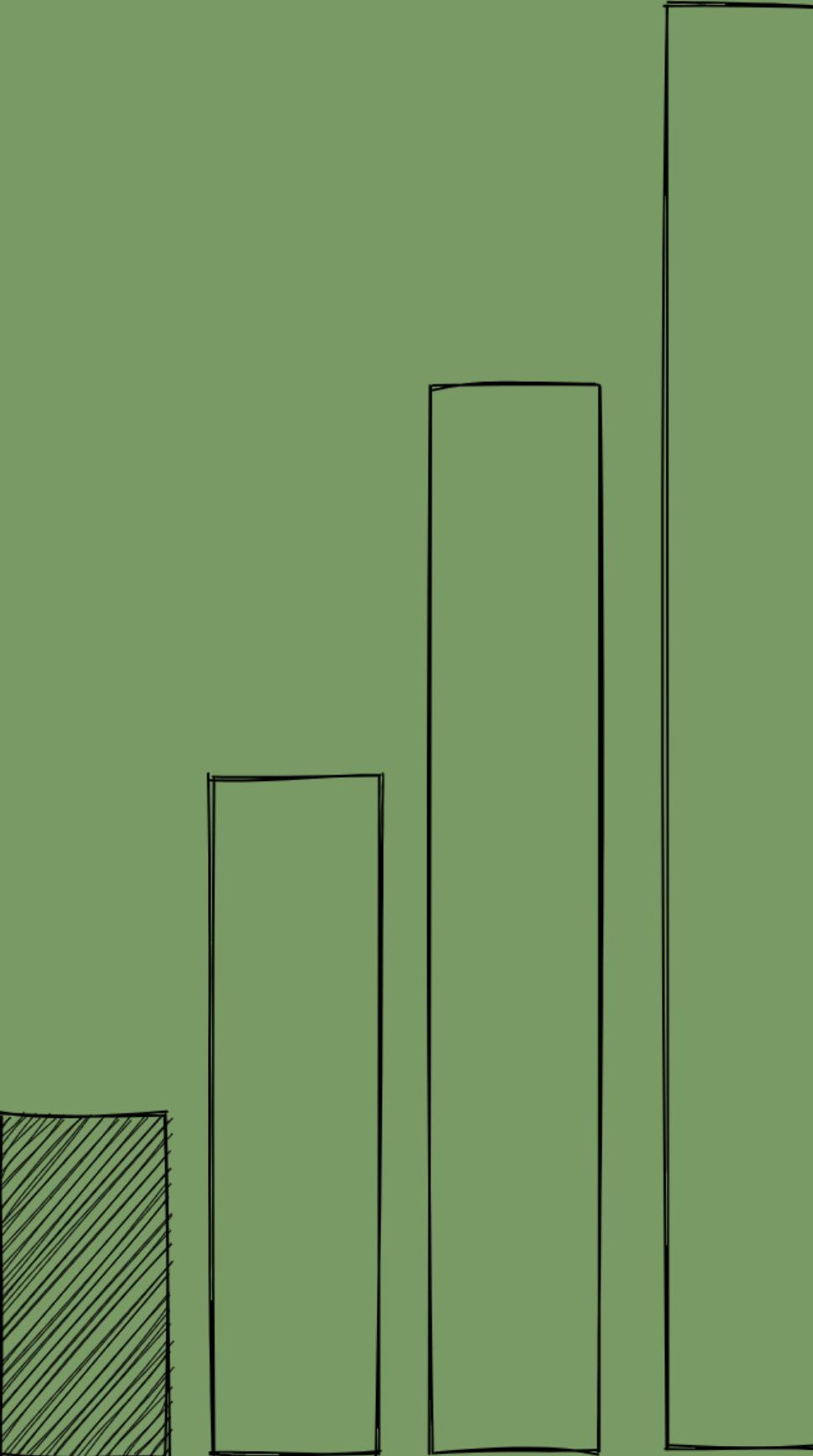
 **Domain Boundaries Evolution**

 **Beyond Team Autonomy**

 **Sharing Code**

Once Upon a Time

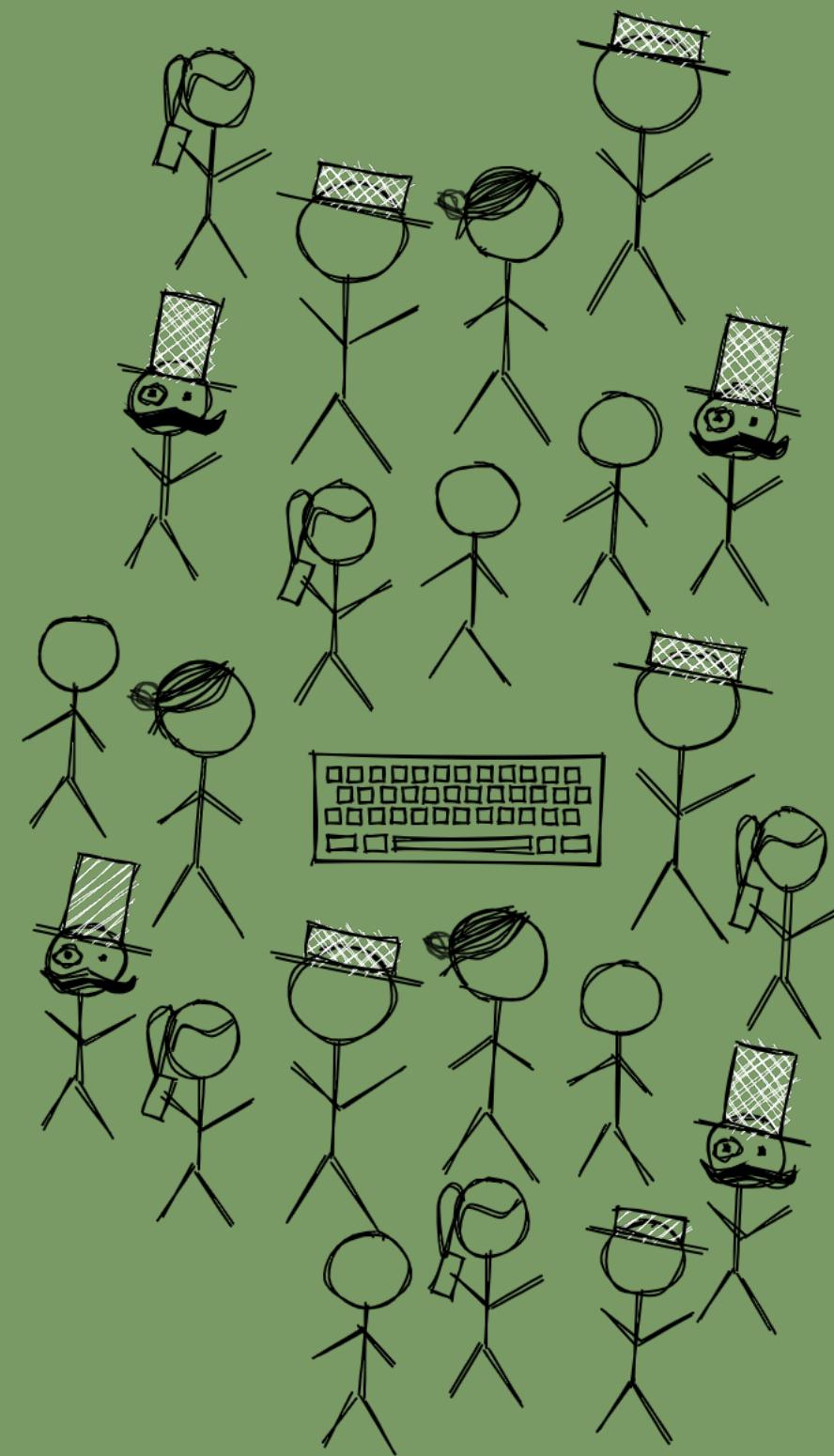
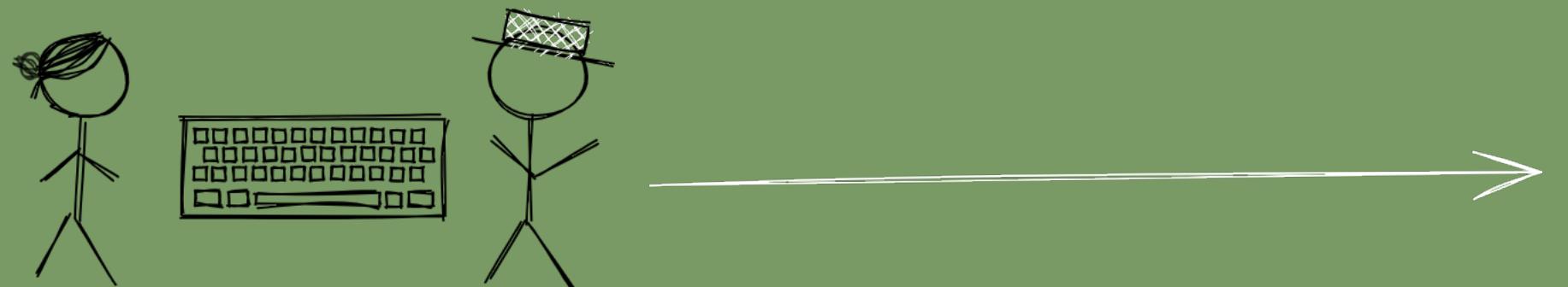
Part 1 of 4



**Once Upon a Time, there
was a Live Sport
Streaming Company
called DAZN**



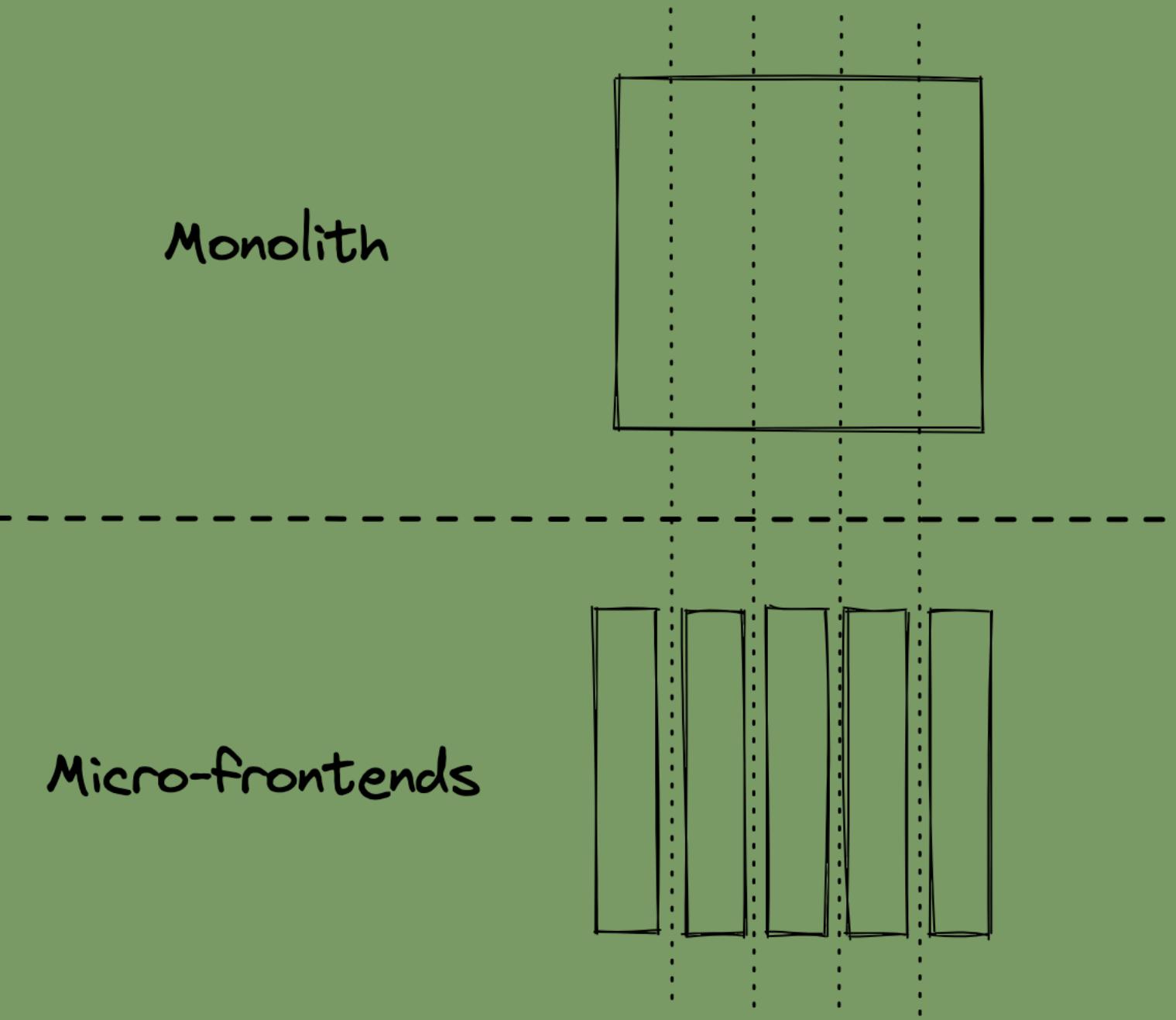
DAZN Engineering department was growing exponentially



To sustain our teams
growth plans so we
introduced Micro-
frontends

Monolith

Micro-frontends



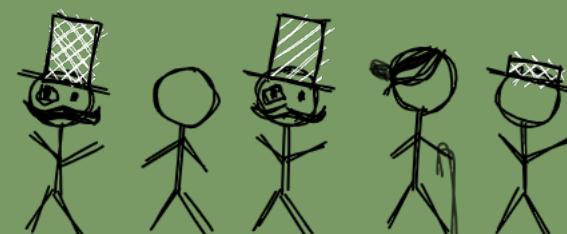
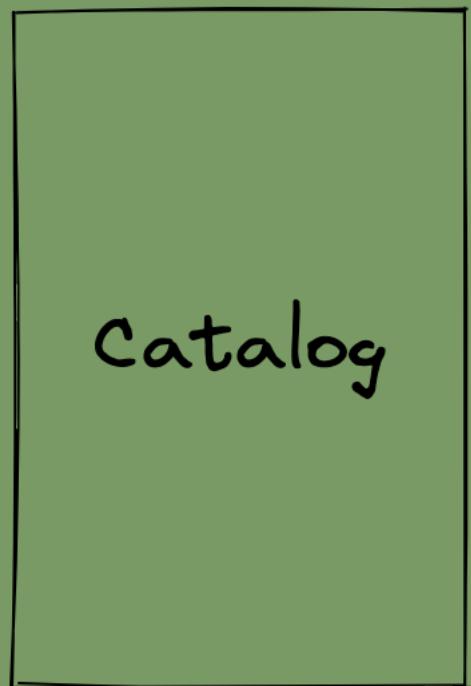
DAZN Micro-frontends Manifesto

👉 Modelled around a Business Subdomain

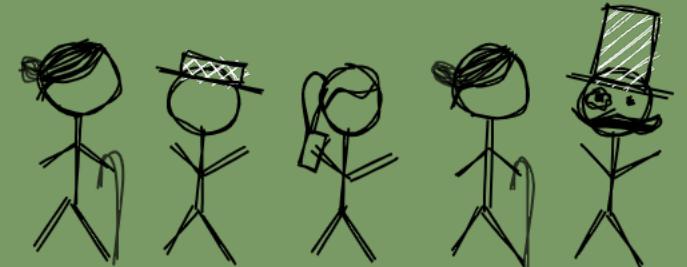
👉 Independent implementation

👉 Owned by a single team

👉 Entire view



Team A



Team B

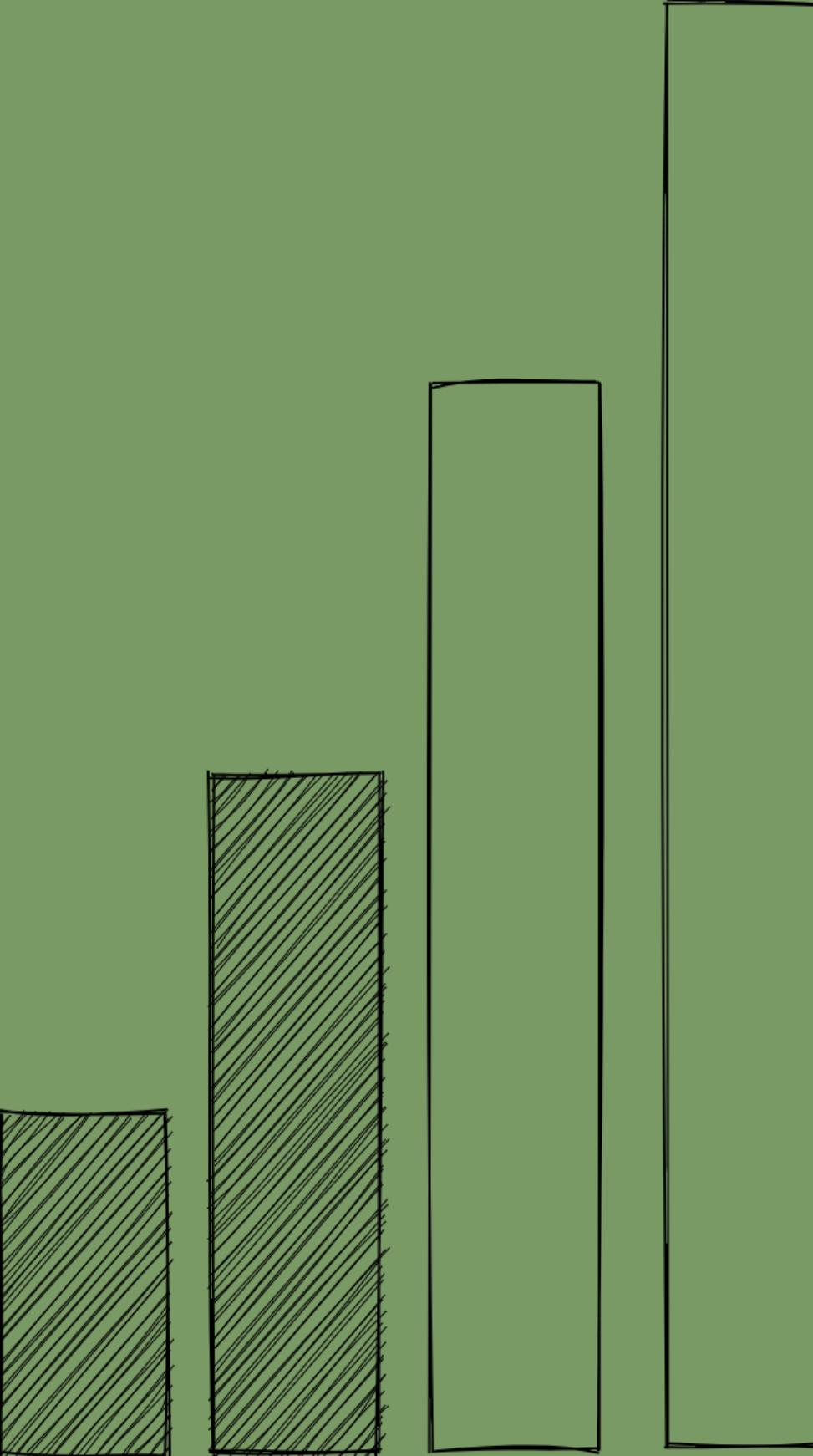
...and they lived happily ever after

...and they lived happily ever after

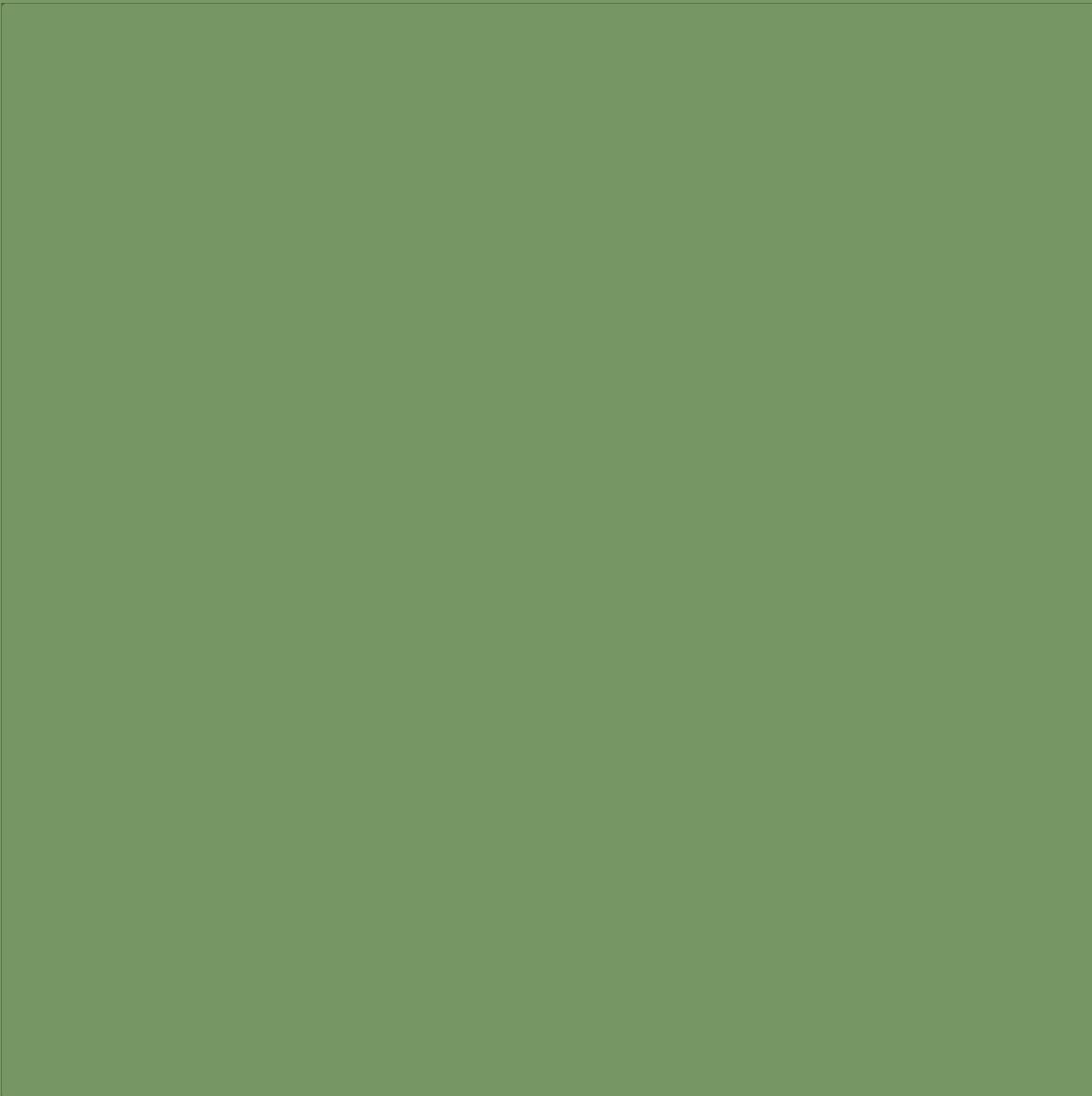
No more! 

Domain Boundaries Evolution

Part 2 of 4

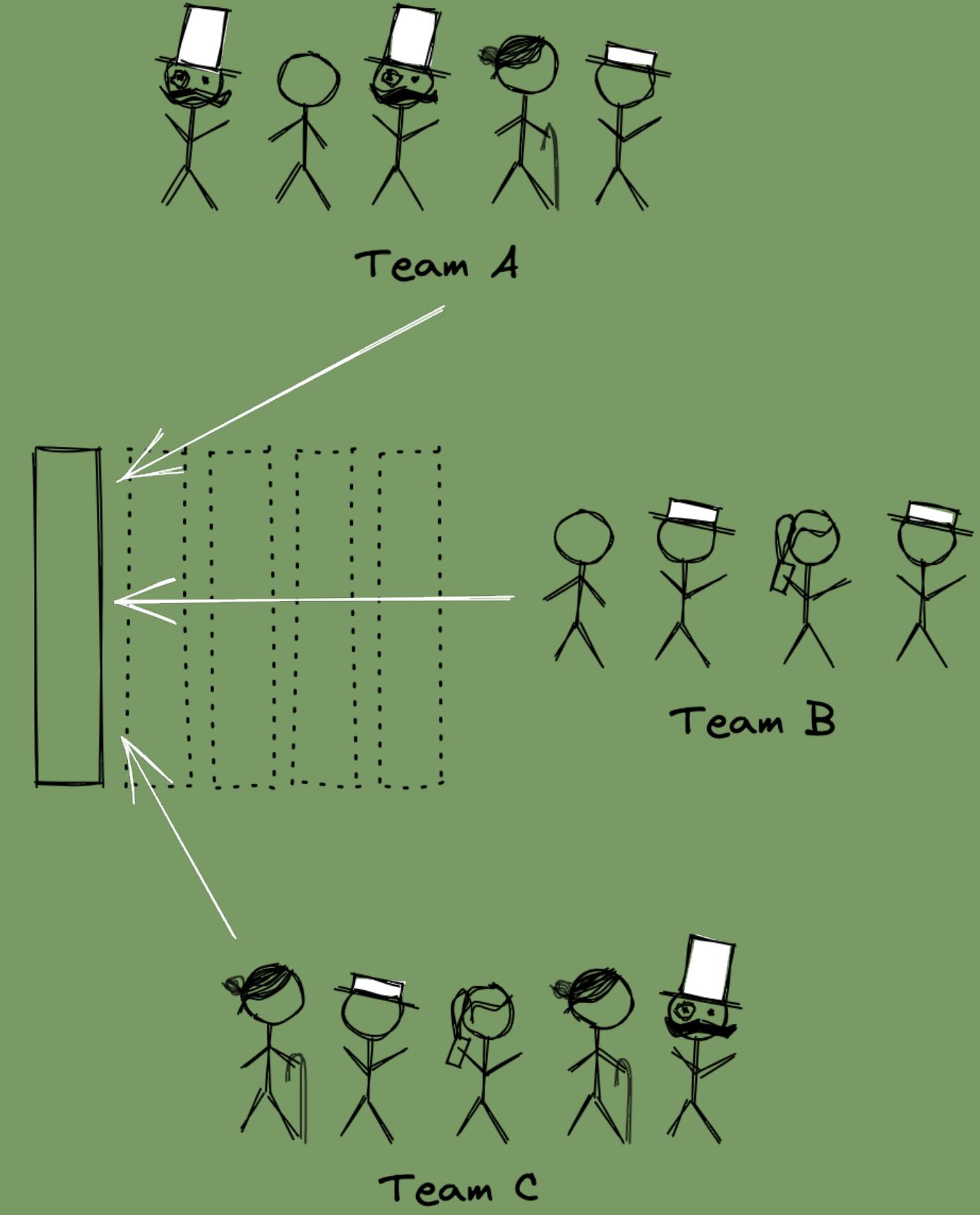


It's not easy to define Domain Boundaries



Some vertical Micro-frontends were too big for a single team

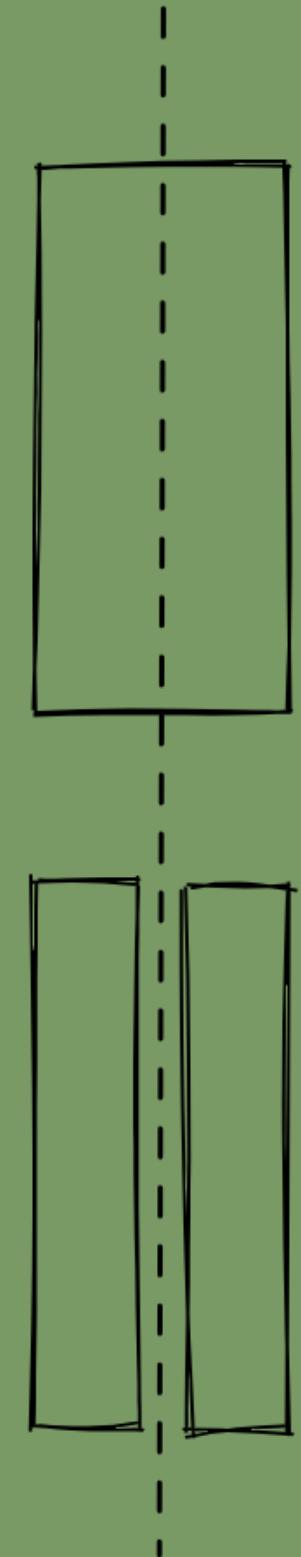
Micro-frontends



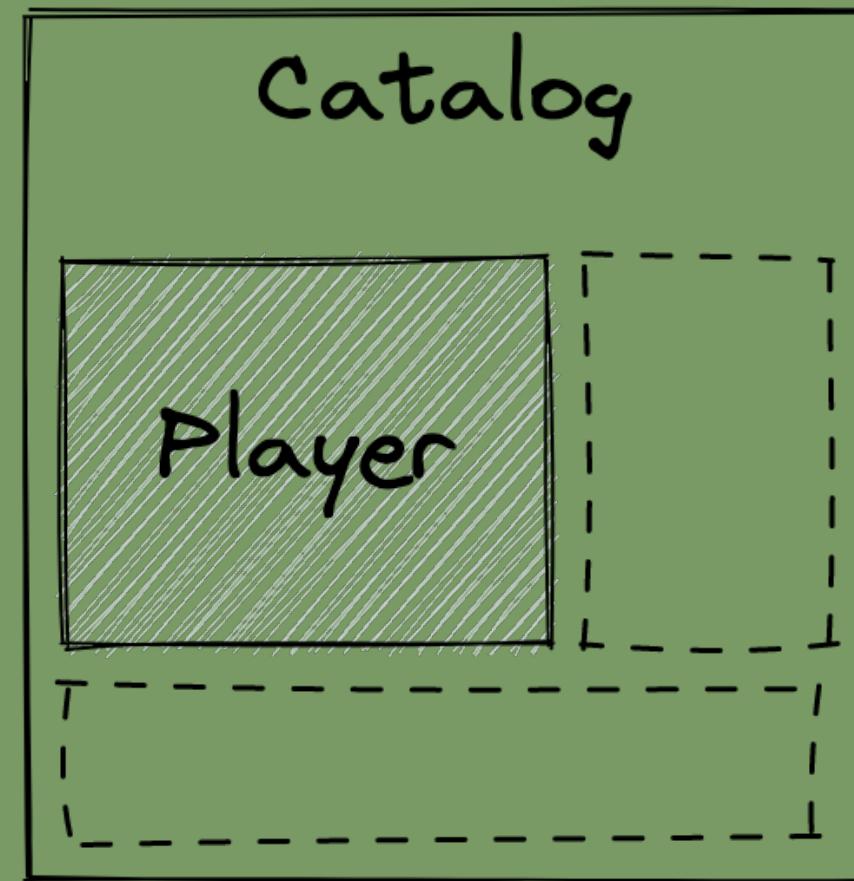
**Our business
subdomains are not
immutable so we re-
defined their boundaries**

Micro-frontend

Two
Micro-frontends



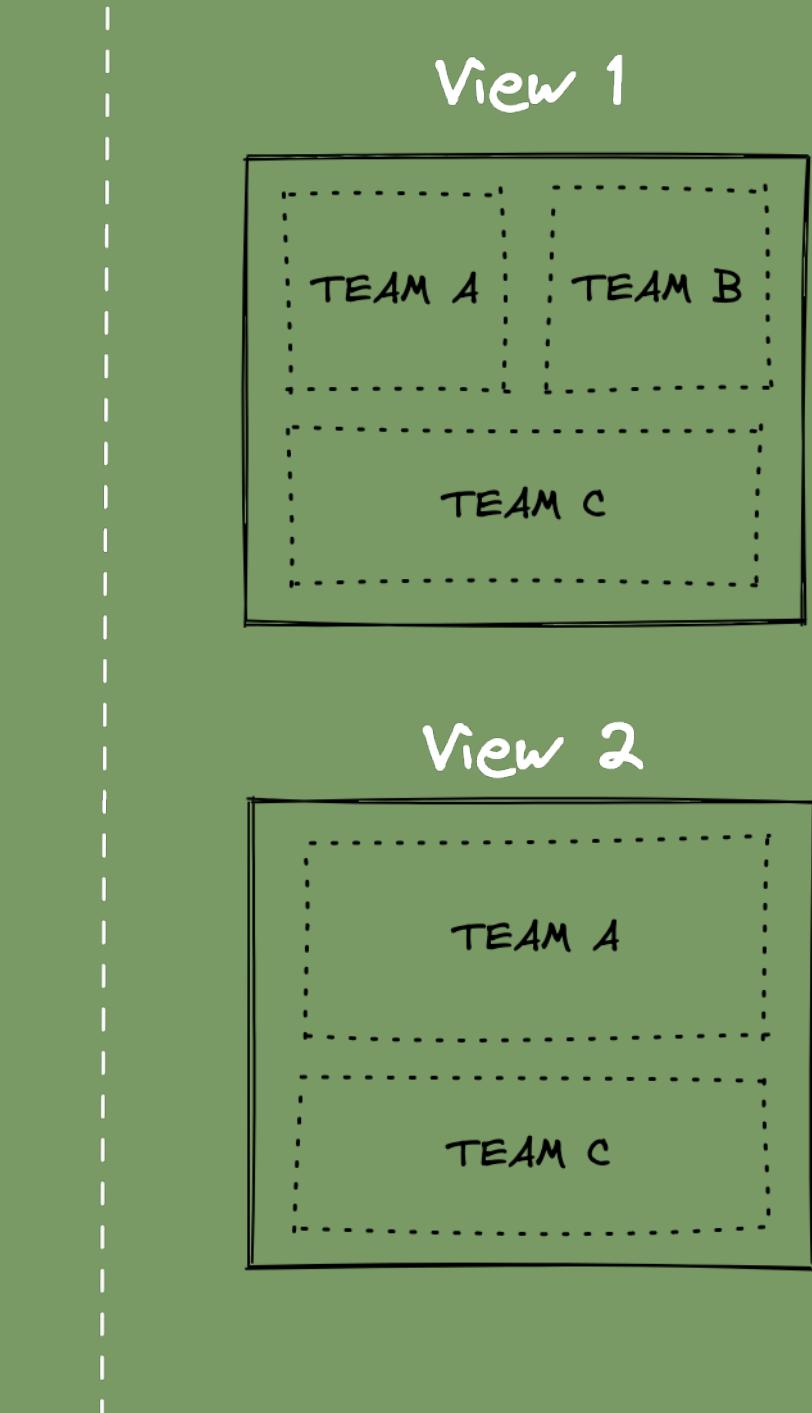
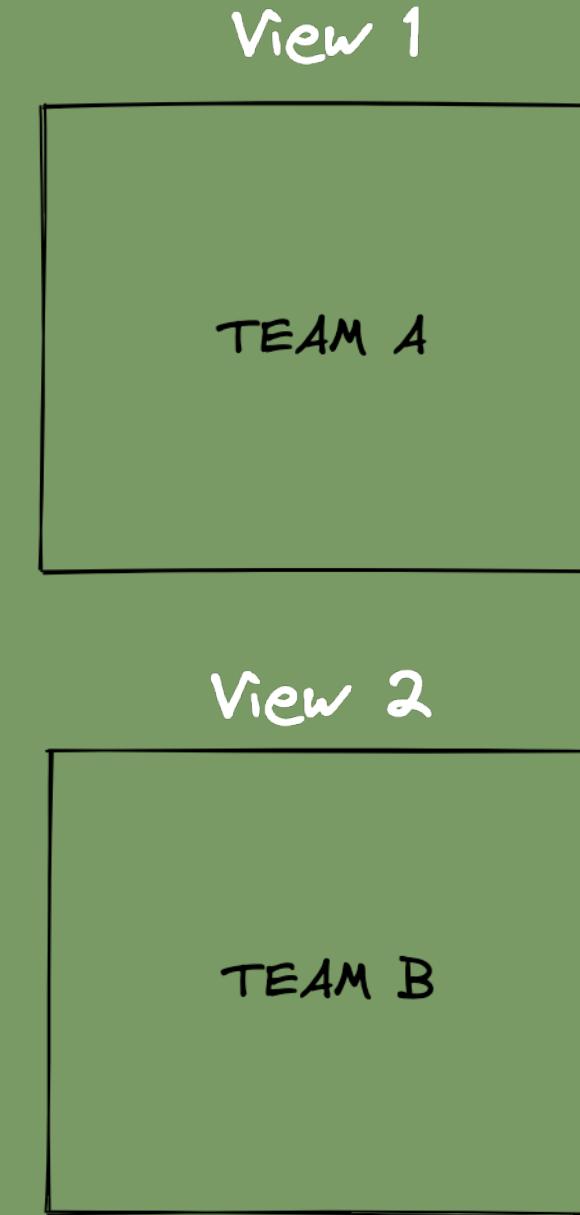
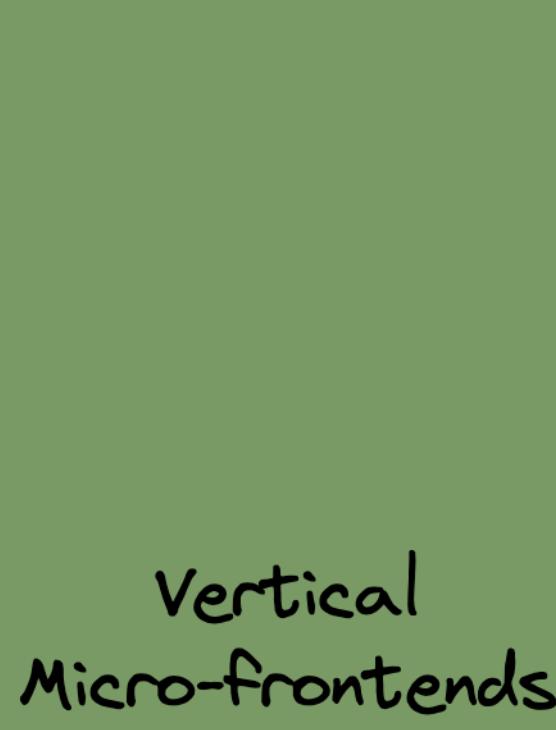
**A Subdomain did contain
a complex subsystem¹
that was not considered
a Micro-frontend**



Example of
Micro-frontend

¹From "Team Topologies"

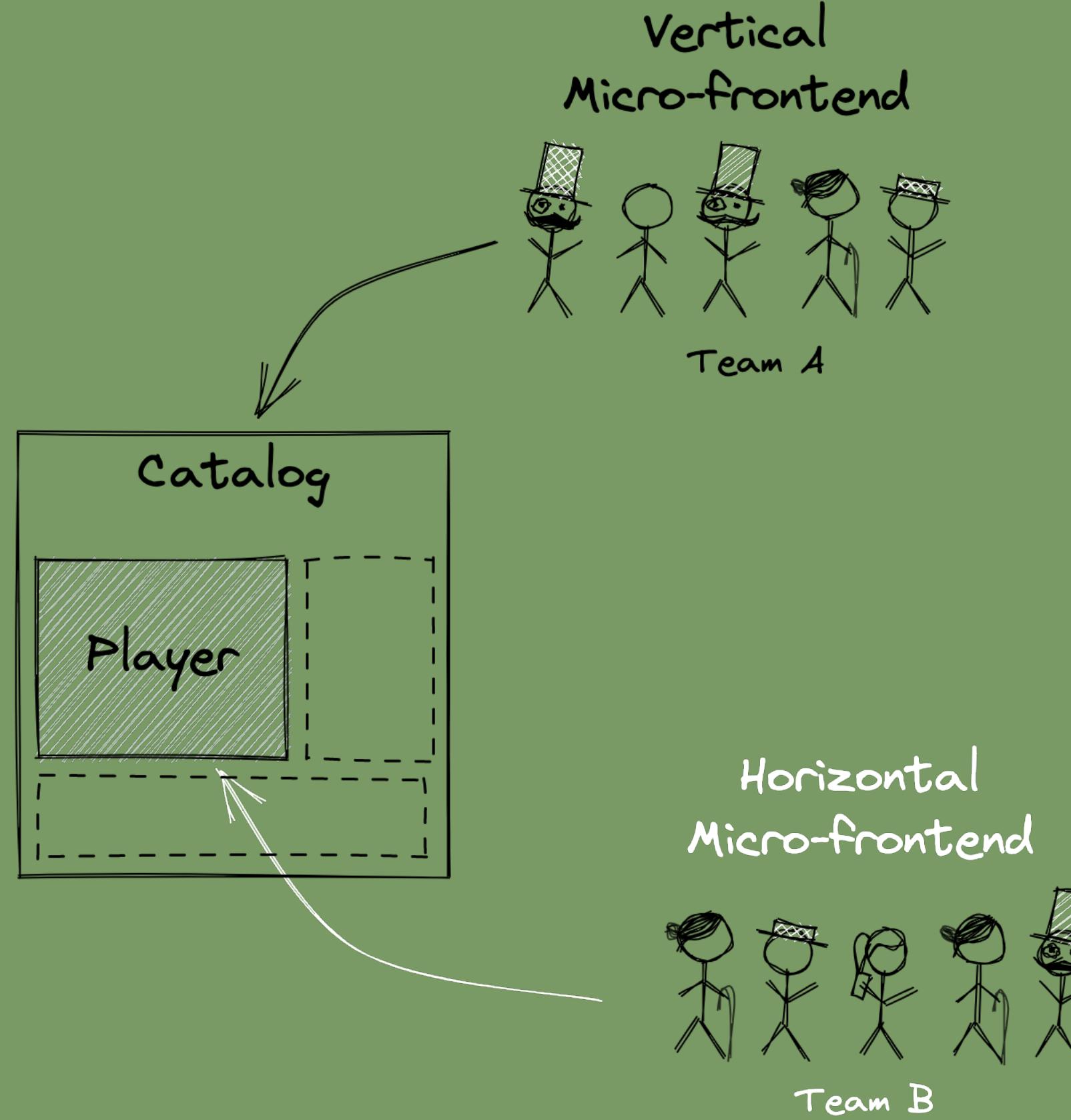
Micro-frontends Vertical & Horizontal² split



Horizontal
Micro-Frontends

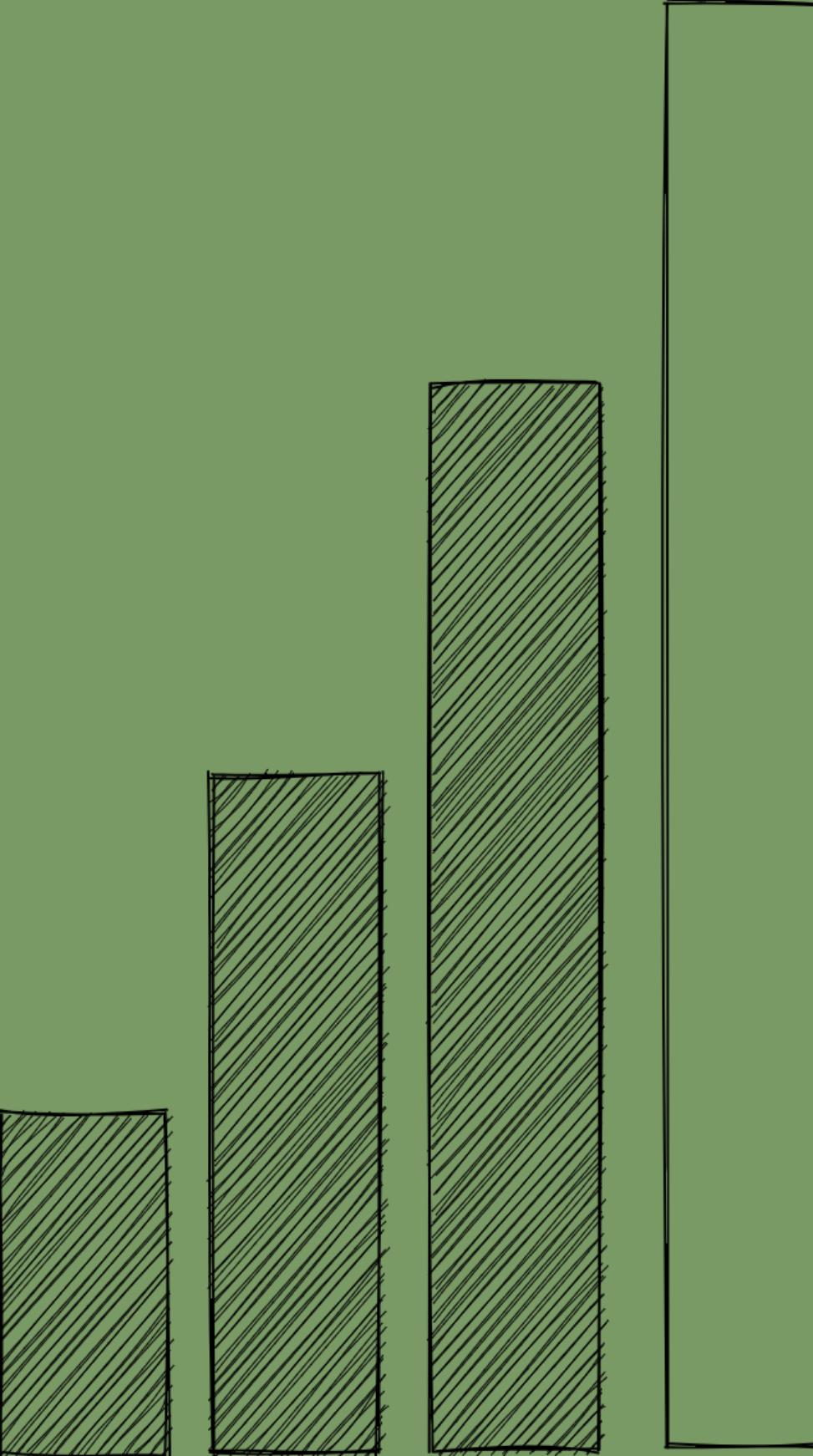
Deep Dive into Horizontal Micro-frontends in DAZN

- 👉 SystemJS
- 👉 Relationship with host
- 👉 Autonomy in non-breaking changes

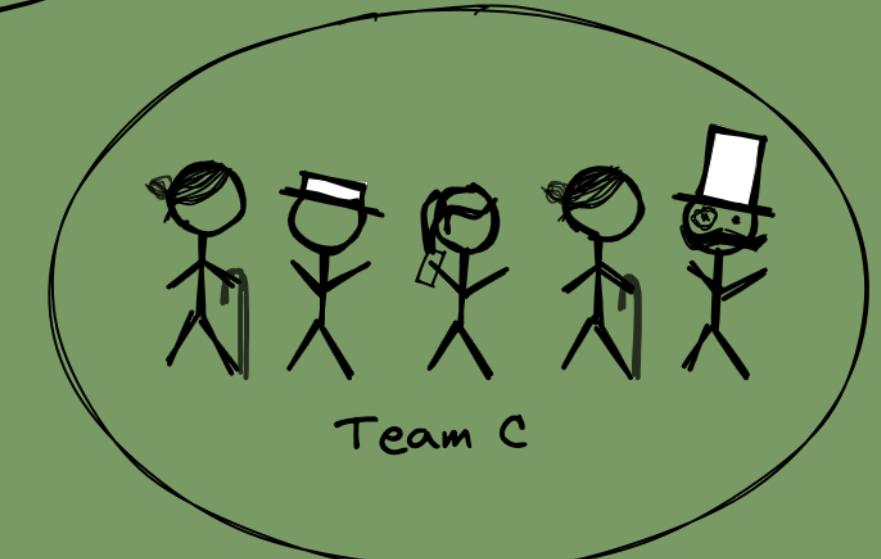
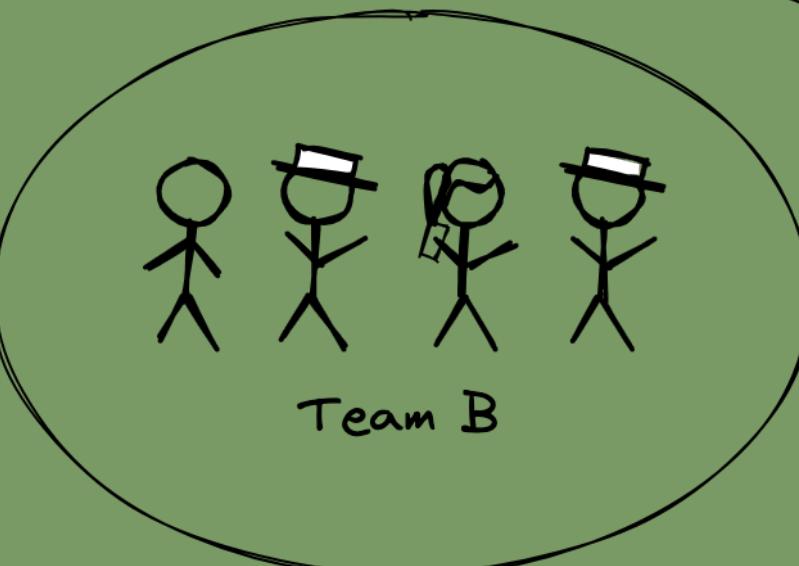
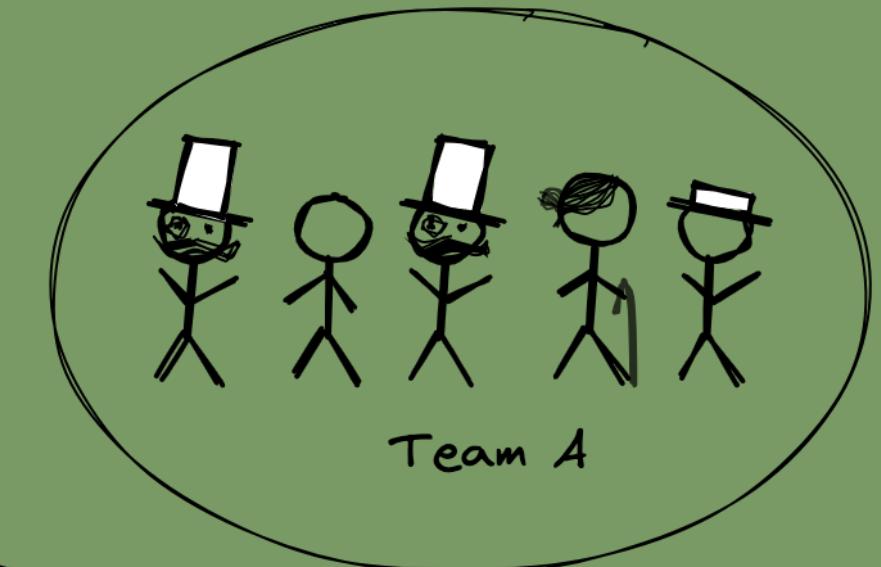


Beyond Team Autonomy

Part 3 of 4



Very autonomous Teams are at risk to create silos



Share Knowledge across Teams

 **Frontend Guilds**

 **Principals & Architects**

**Favor local decisions
but have a plan for
global decisions**

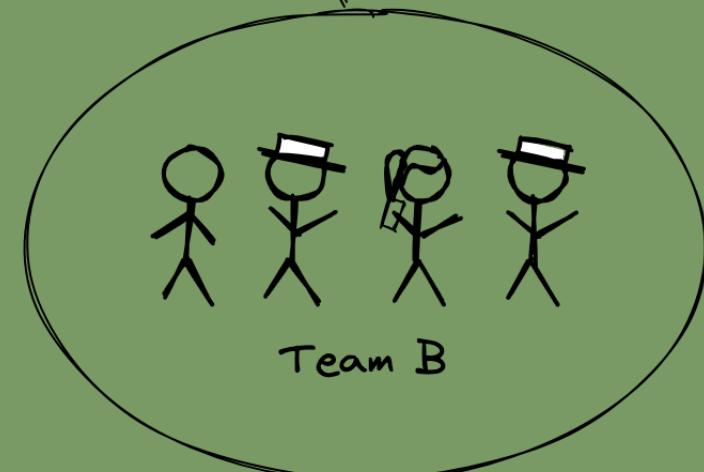
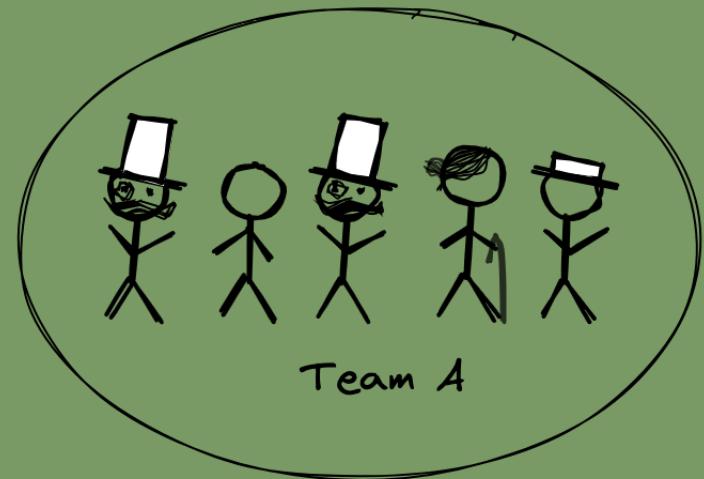
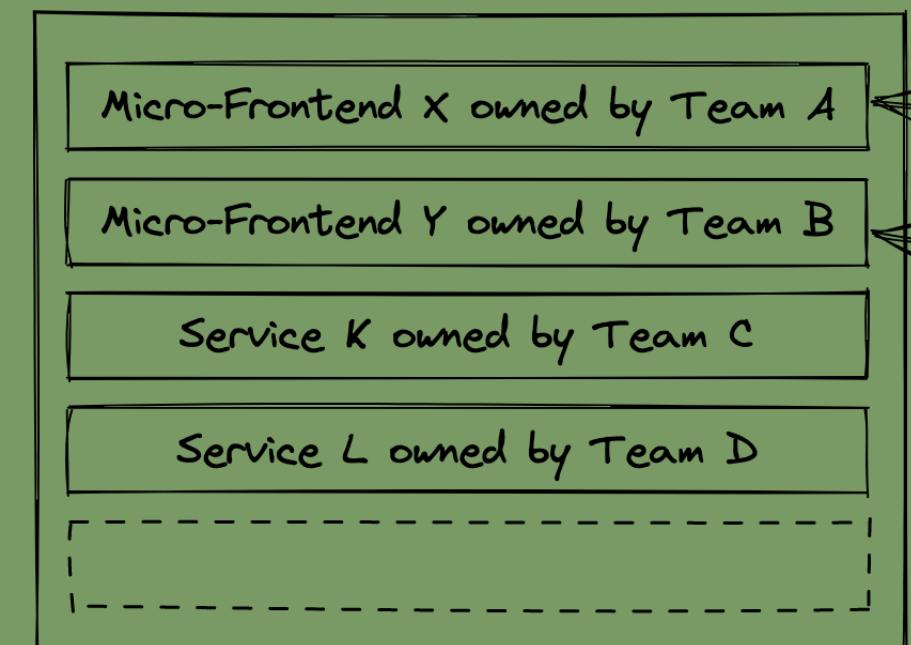
 **Request For Comments
(aka RFC)**

 **Decision Records (aka
ADR)**

Enable Discovery beyond Teams

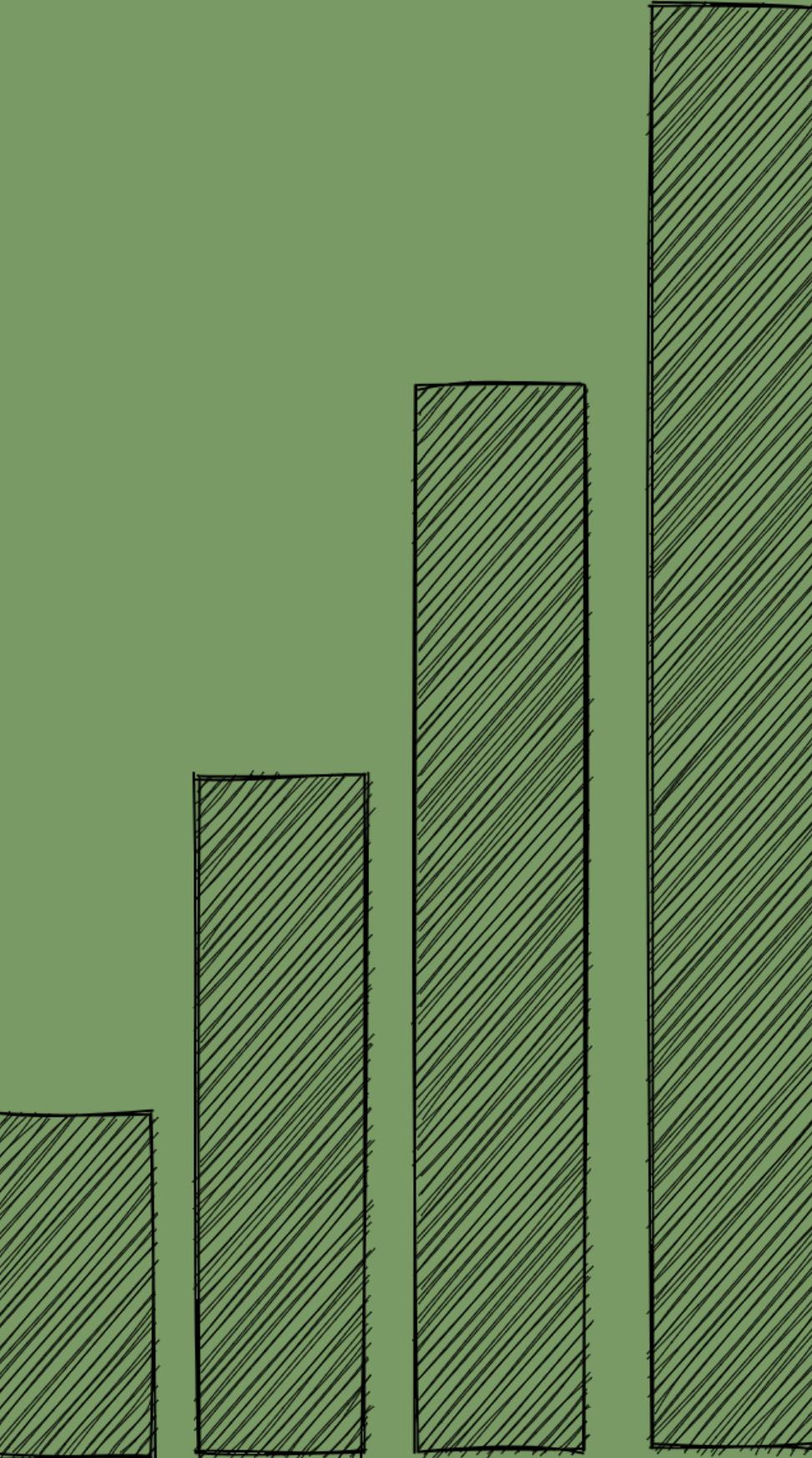


Backstage (Spotify)

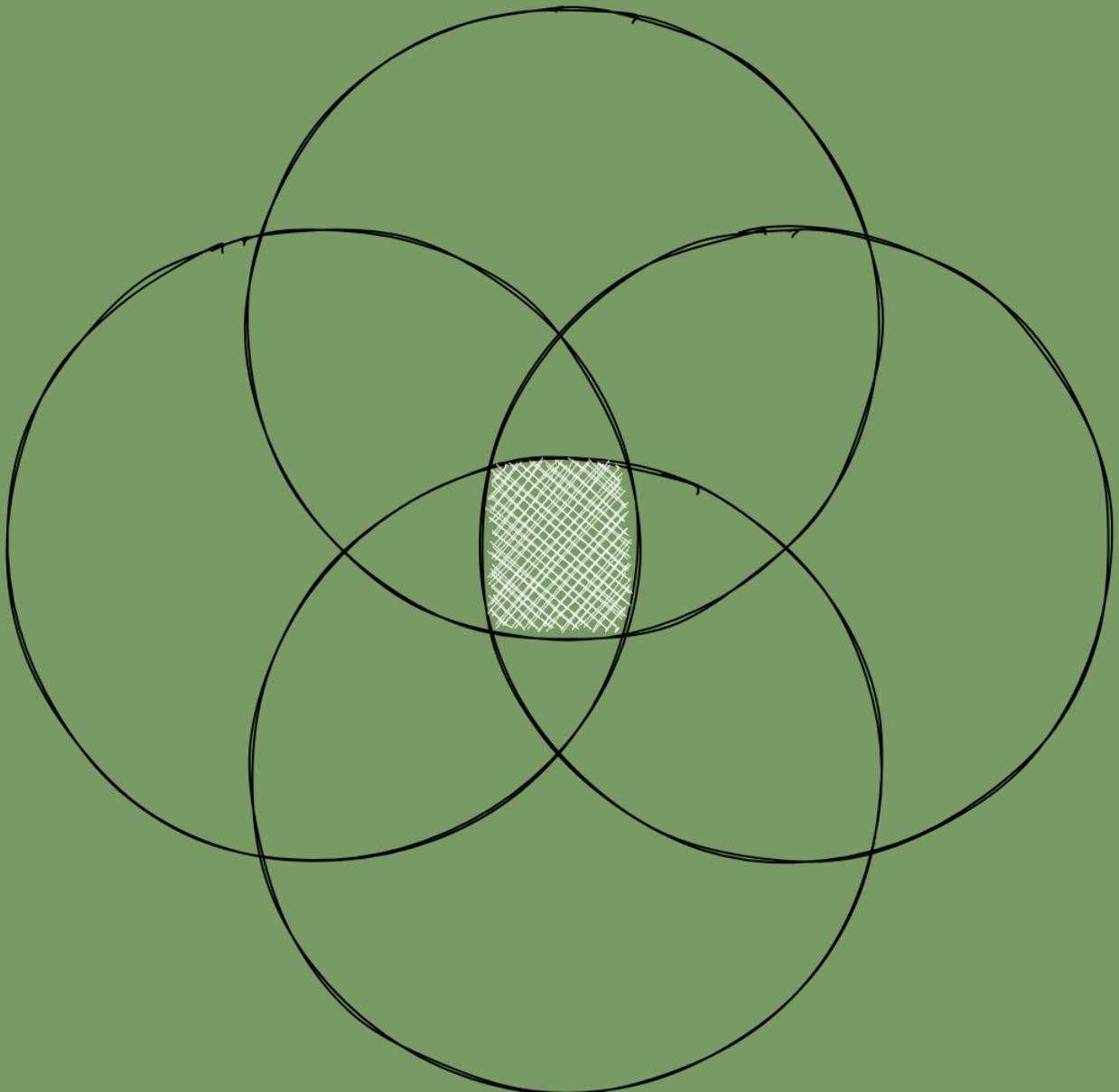


Sharing Code

Part 4 of 4



**Not a single visual
component has been
shared across all the
Micro-frontends, yet**



**In DAZN, we're sharing
some components to
reflect company
priorities**

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What are we sharing and why

Payments

Critical component

What are we sharing and why

Payments

Critical component

Analytics

Risks in duplication

What are we sharing and why

Payments

Critical component

Analytics

Risks in duplication

Experiments

Hard to provide autonomy

takeaways

- 👉 Your business subdomains are **not immutable**
- 👉 Share as a **solution** not as a **goal**
- 👉 It's always about **people**

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thank you

github.com/maxgallo/talk-micro-frontends-three-years-after

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