

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



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Agenda

 **Once Upon a Time**

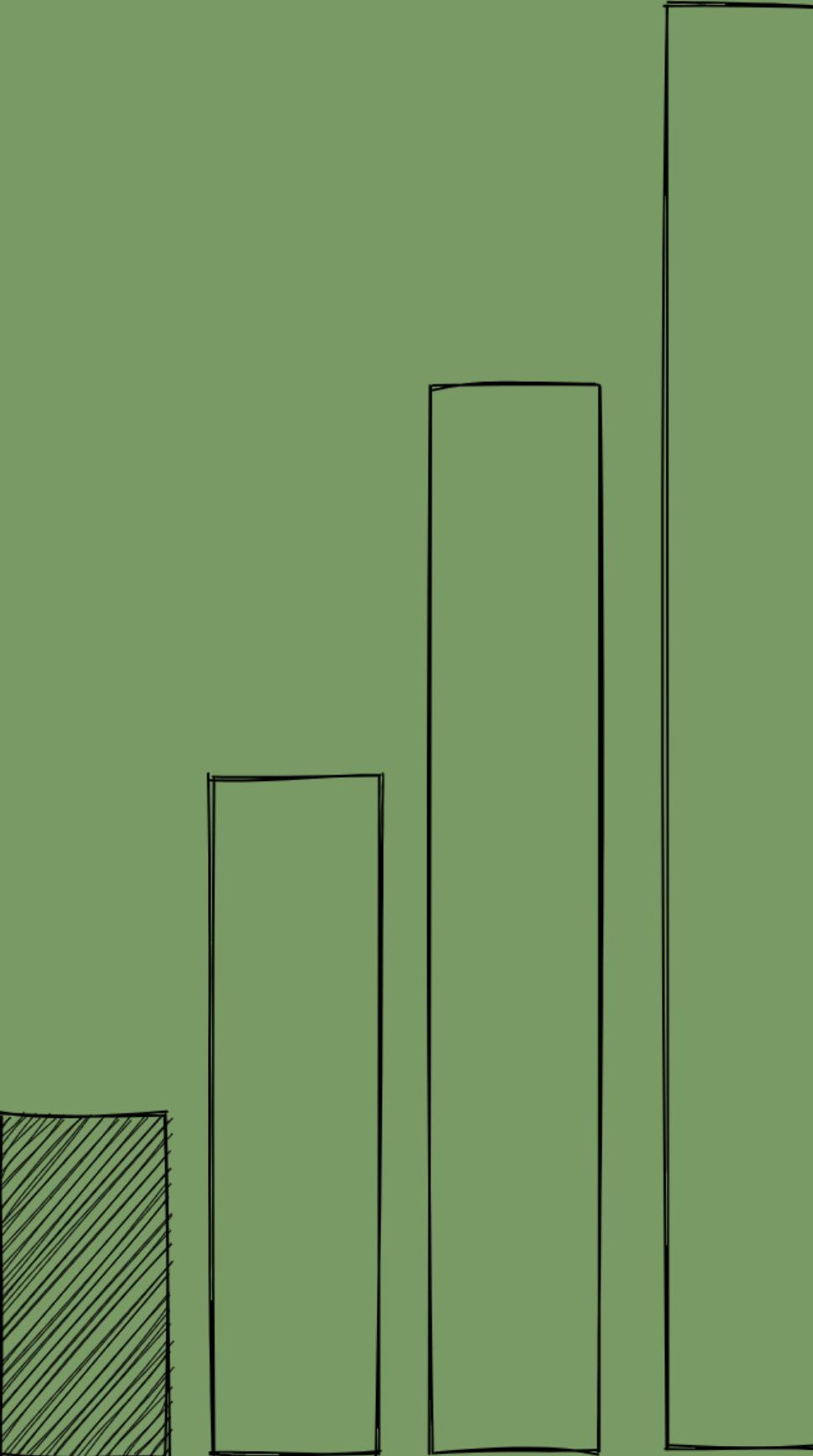
 **Domain Boundaries Evolution**

 **Beyond Team Autonomy**

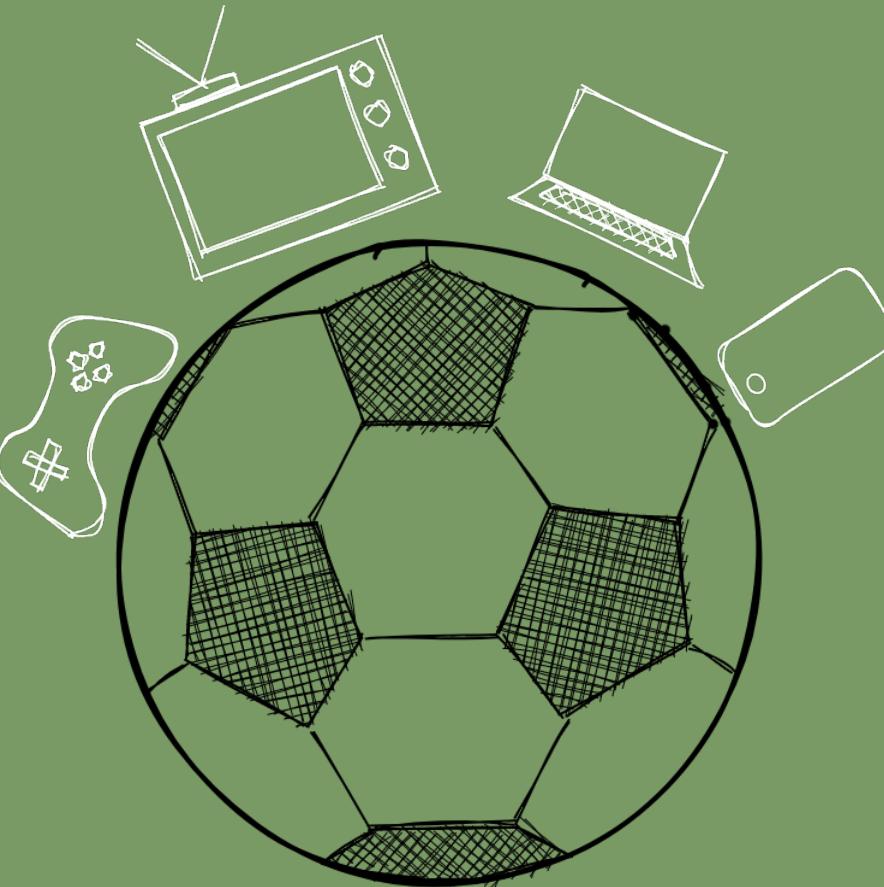
 **Sharing Code**

Once Upon a Time

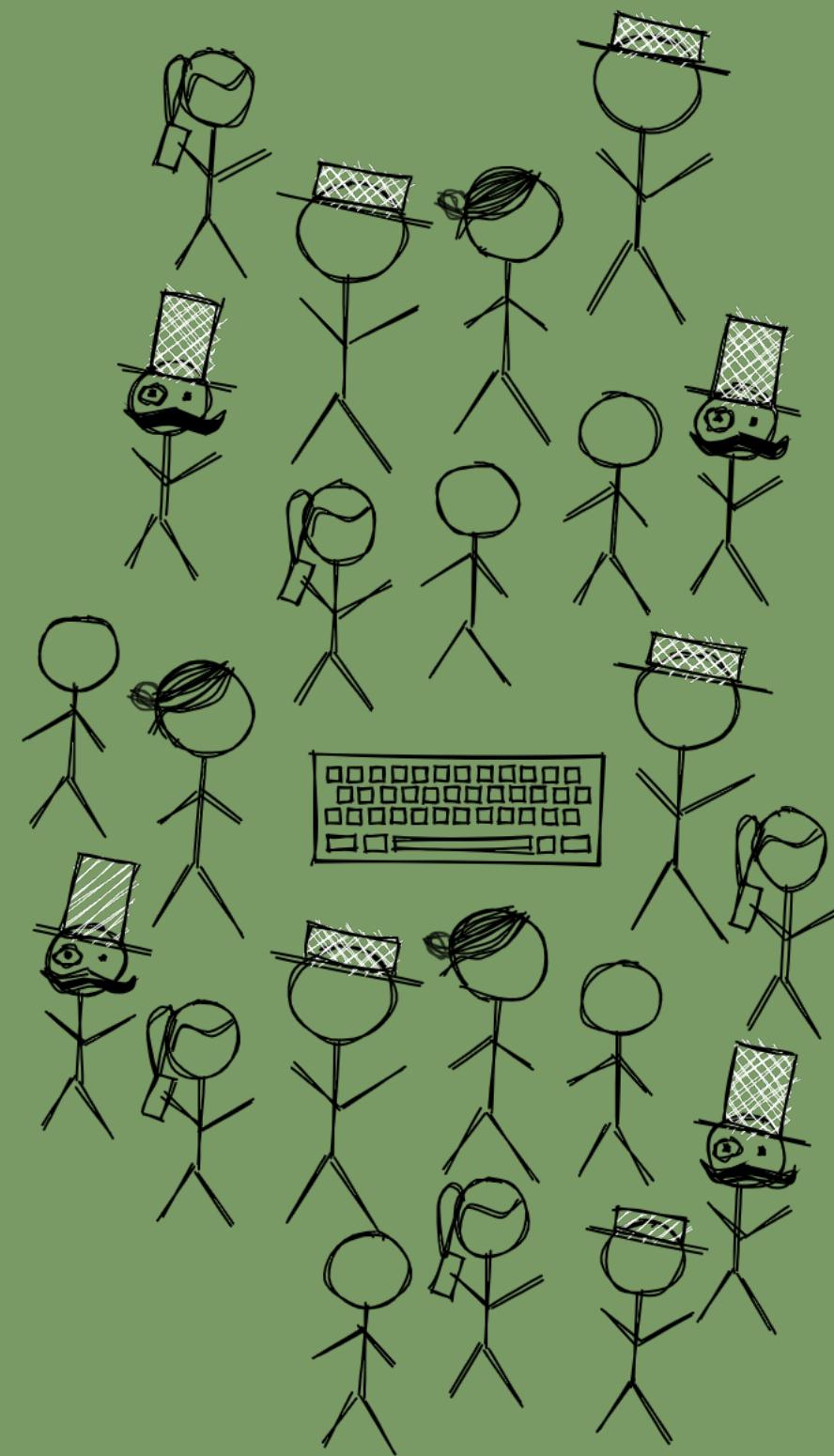
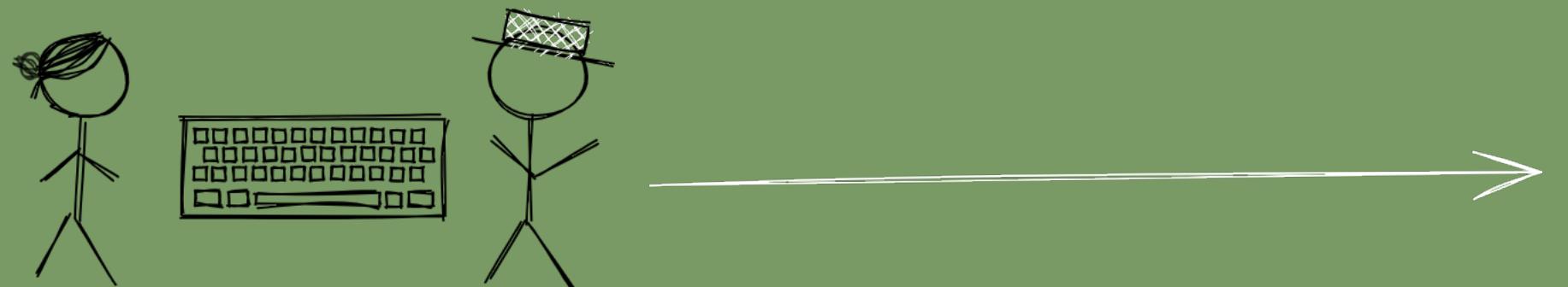
Part 1 of 4



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



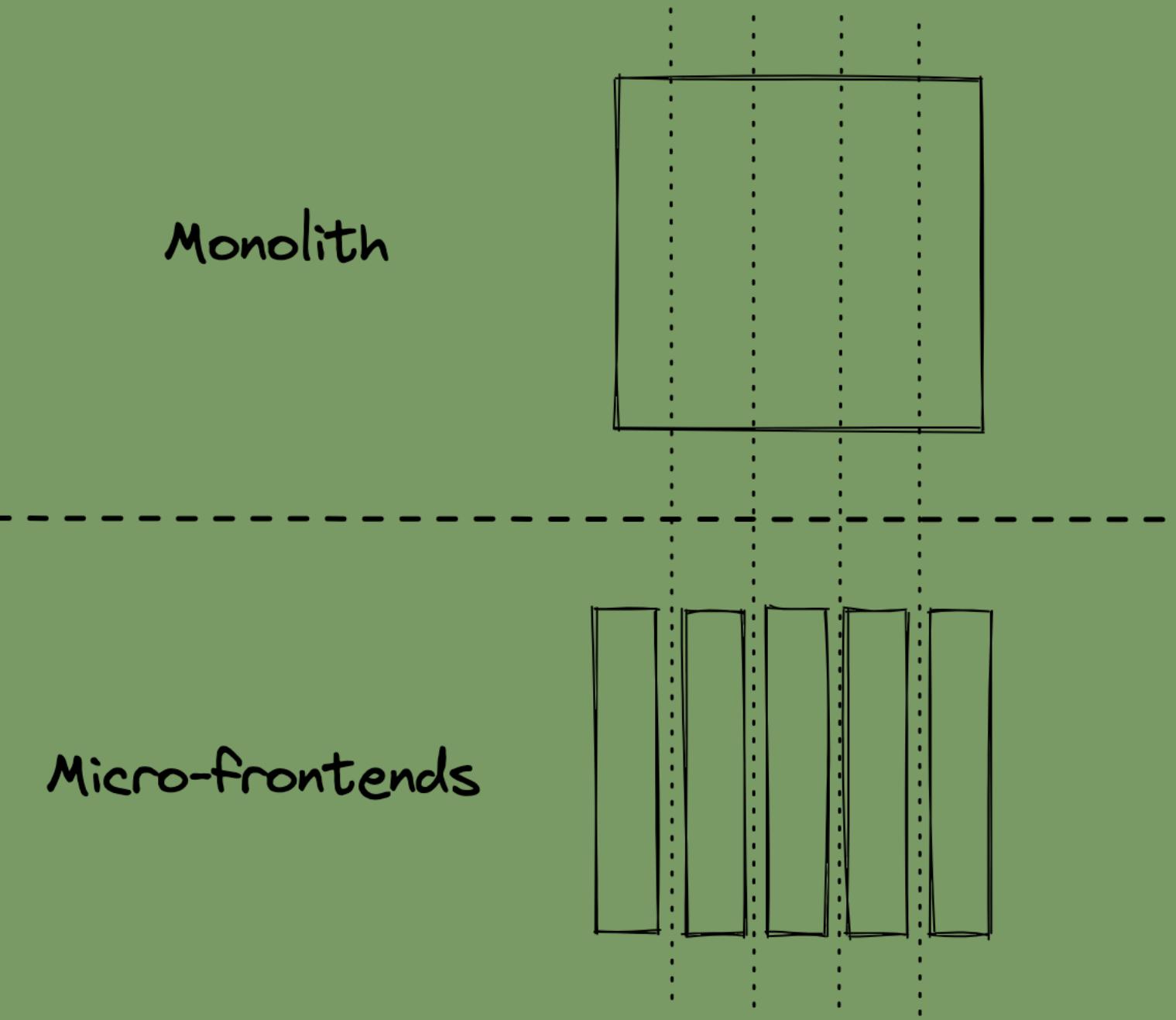
DAZN Engineering department was growing exponentially



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

Monolith

Micro-frontends



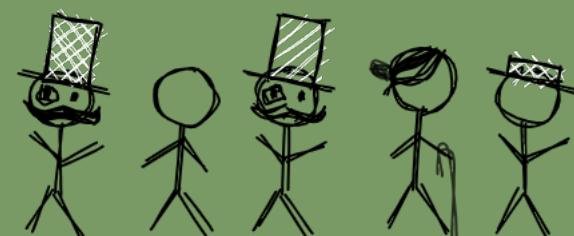
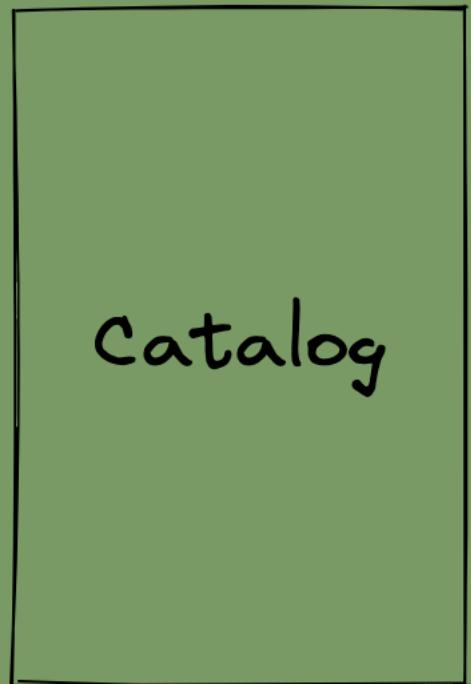
DAZN Micro-frontends Manifesto

👉 Modelled around a Business Subdomain

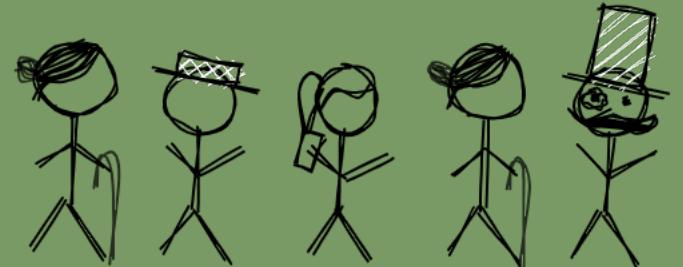
👉 Independent implementation

👉 Owned by a single team

👉 Entire view



Team A



Team B

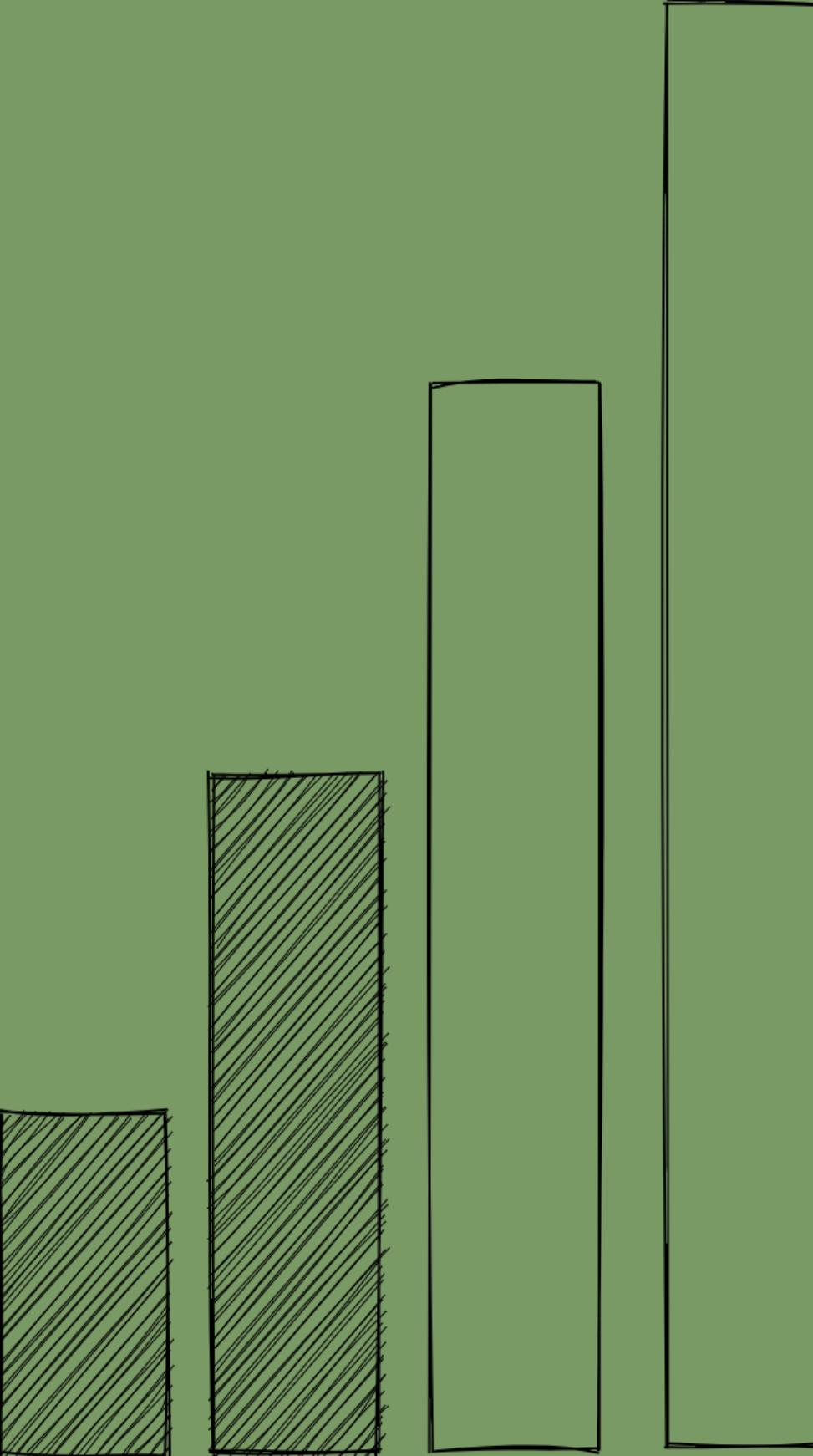
...and they lived happily ever after

...and they lived happily ever after

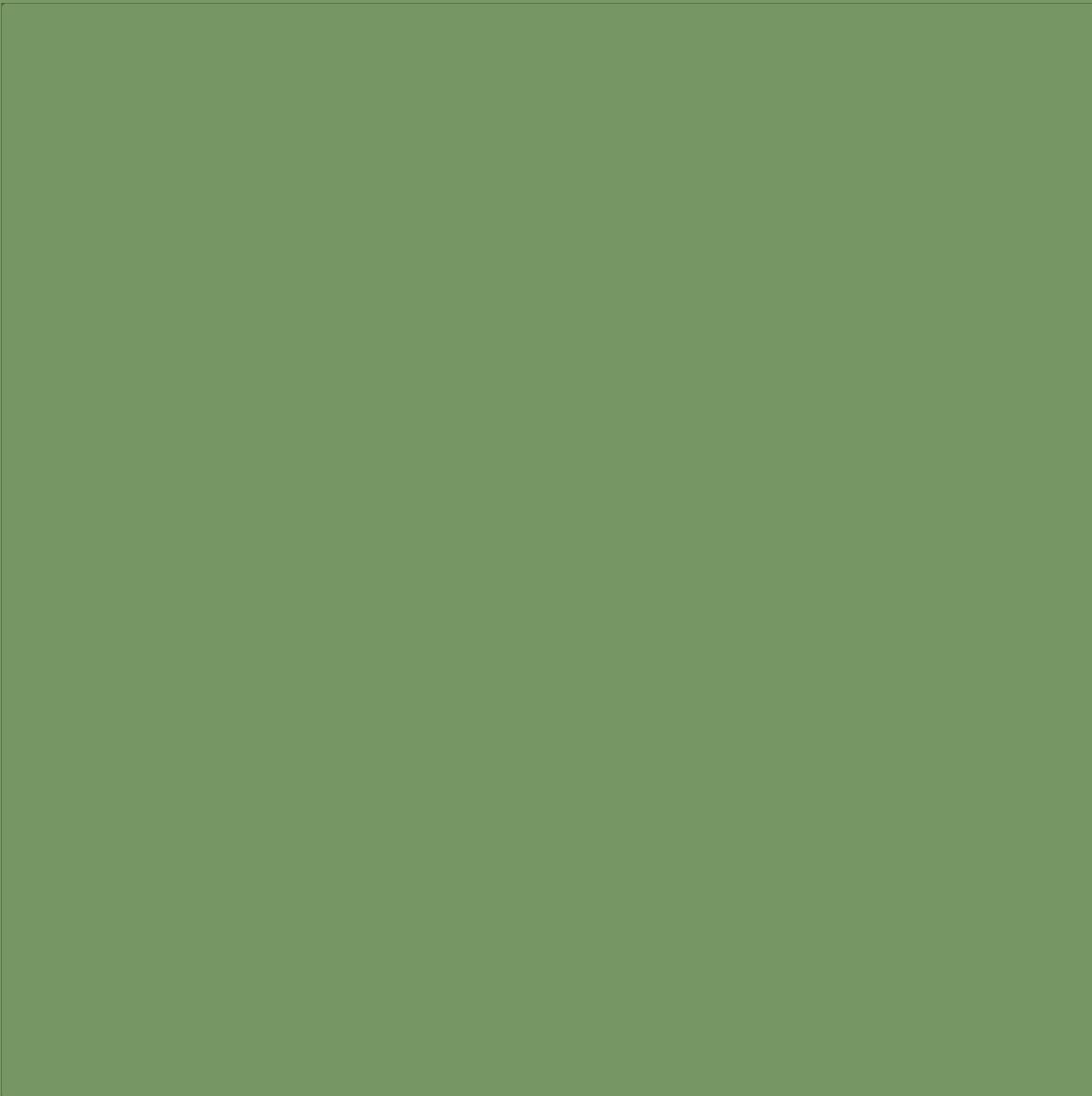
No more! 

Domain Boundaries Evolution

Part 2 of 4

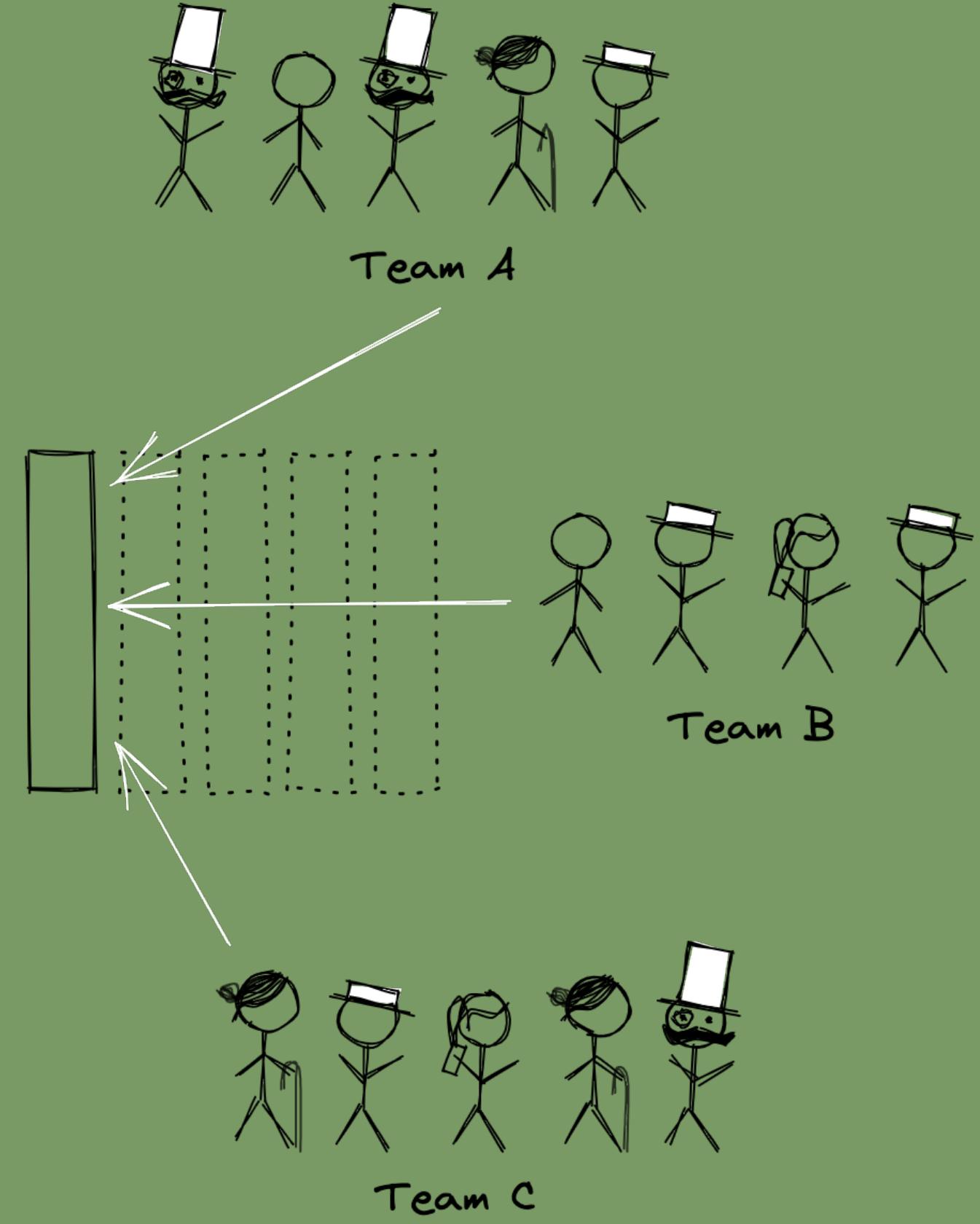


It's not easy to define Domain Boundaries



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

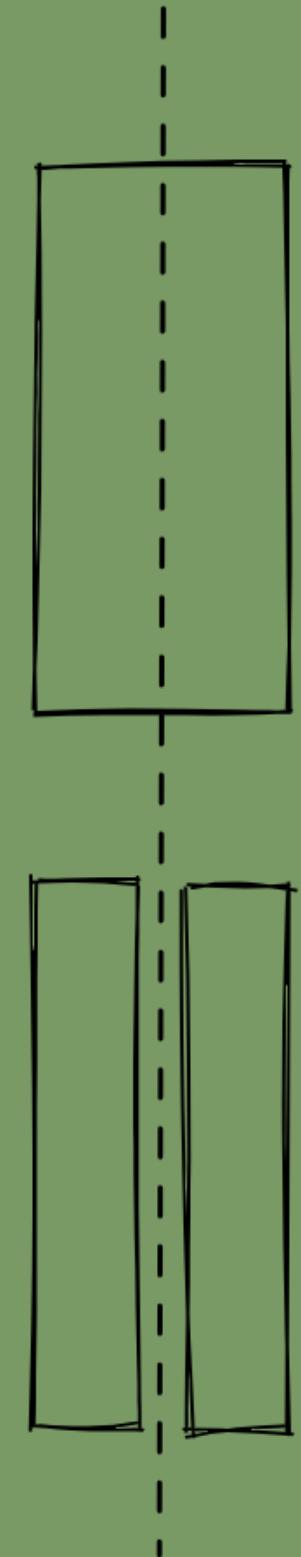
Micro-frontends



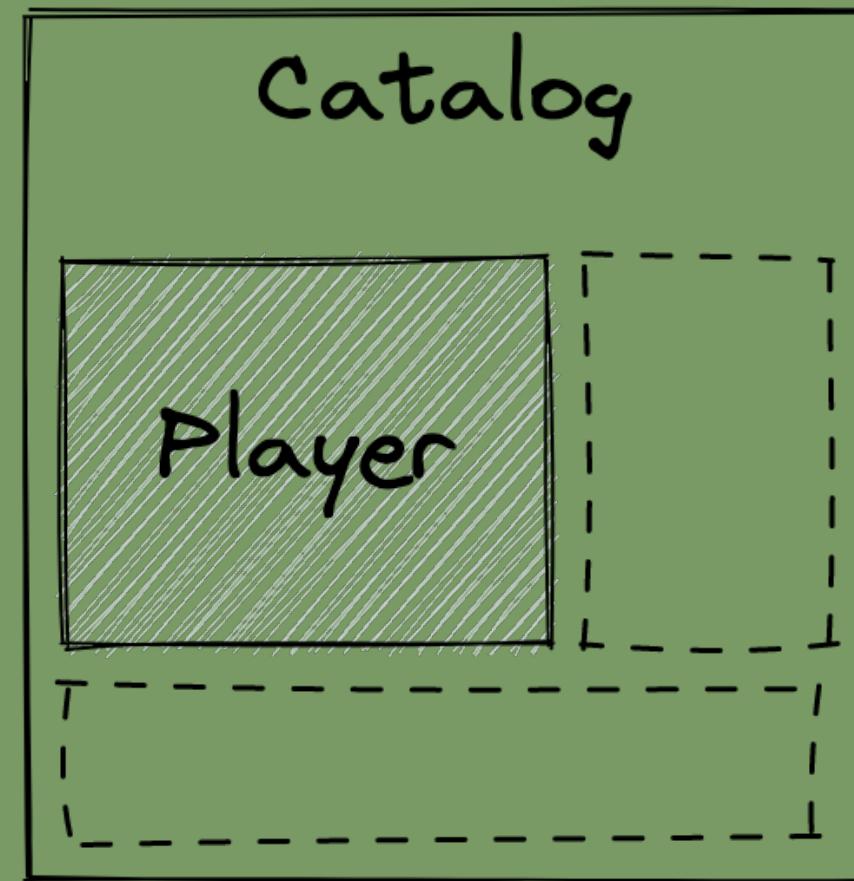
**Our business
subdomains are not
immutable so we re-
defined their boundaries**

Micro-frontend

Two
Micro-frontends



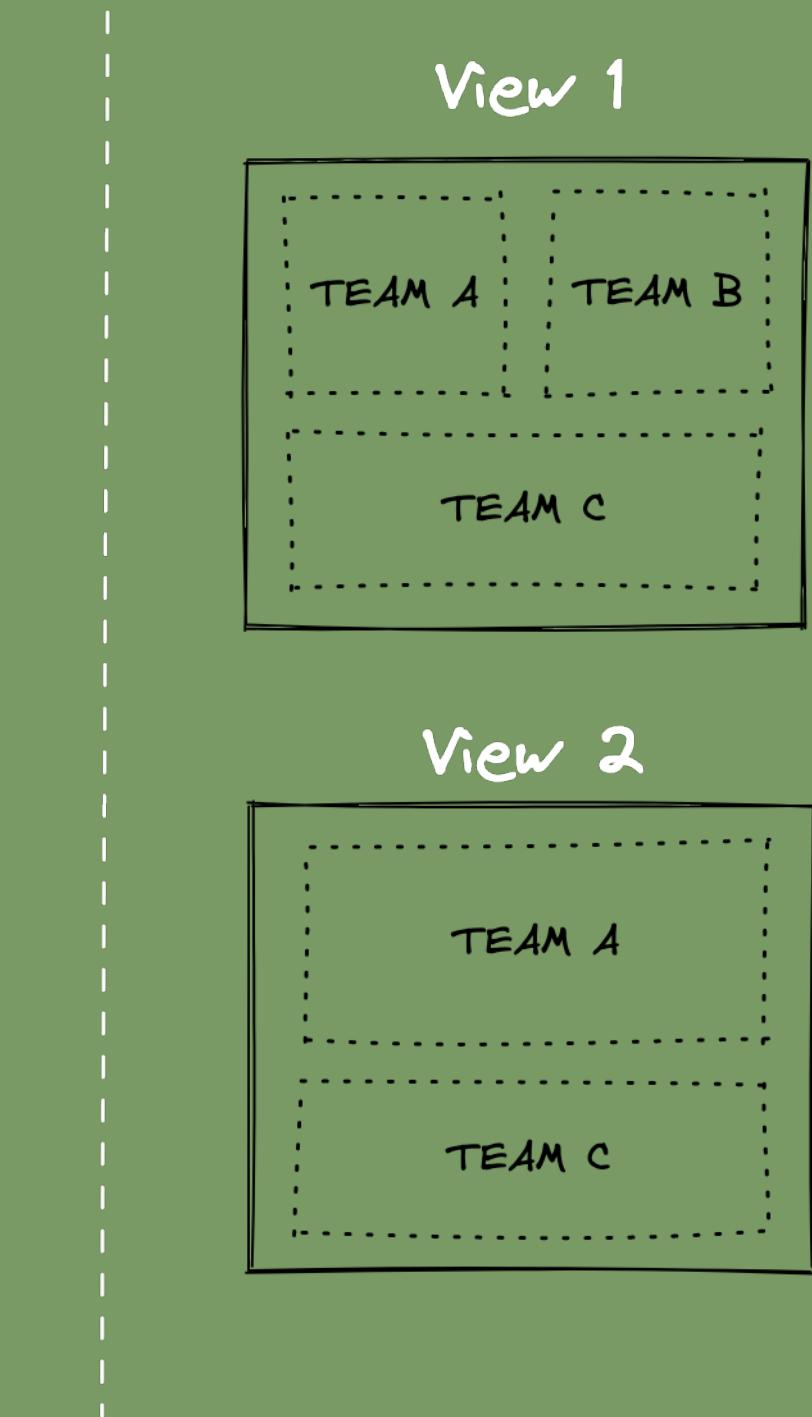
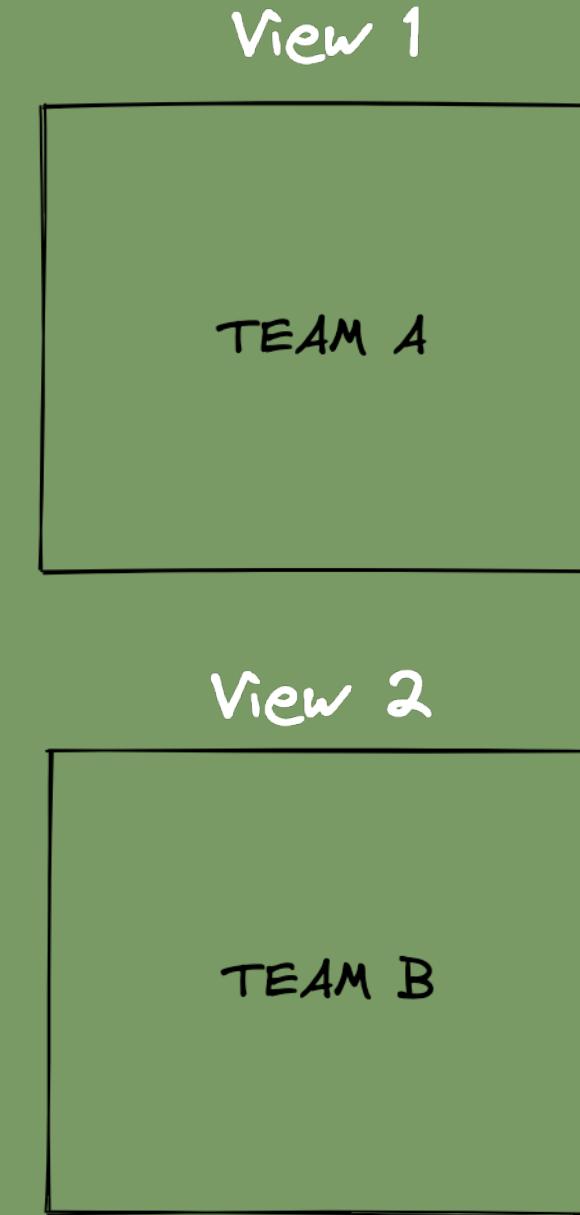
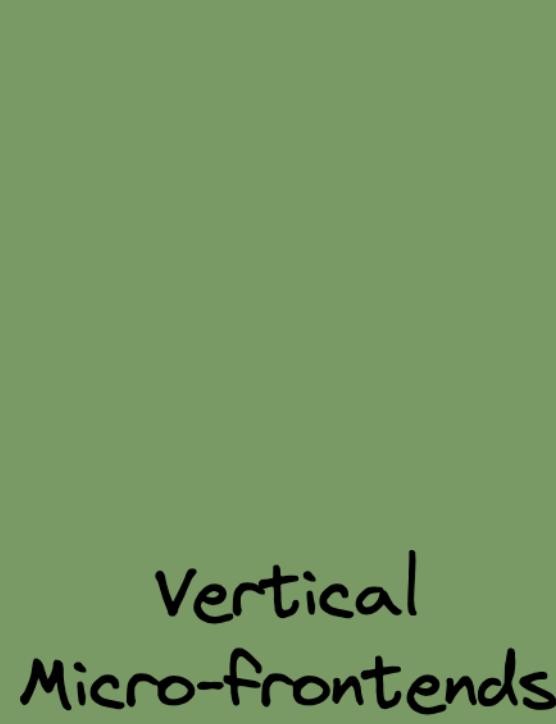
**A Subdomain did contain
a complex subsystem¹
that was not considered
a Micro-frontend**



Example of
Micro-frontend

¹From "Team Topologies"

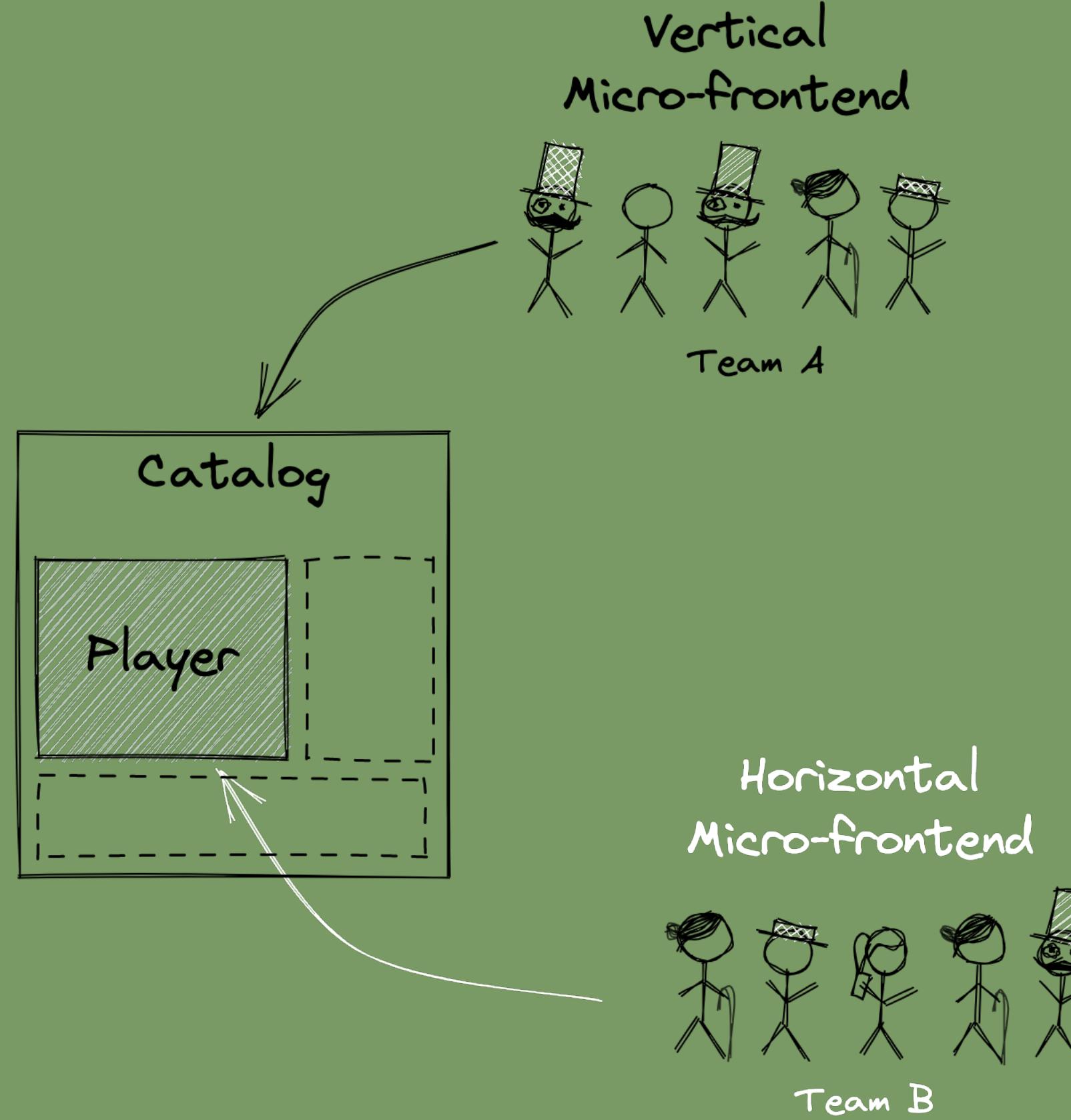
Micro-frontends Vertical & Horizontal² split



Horizontal
Micro-Frontends

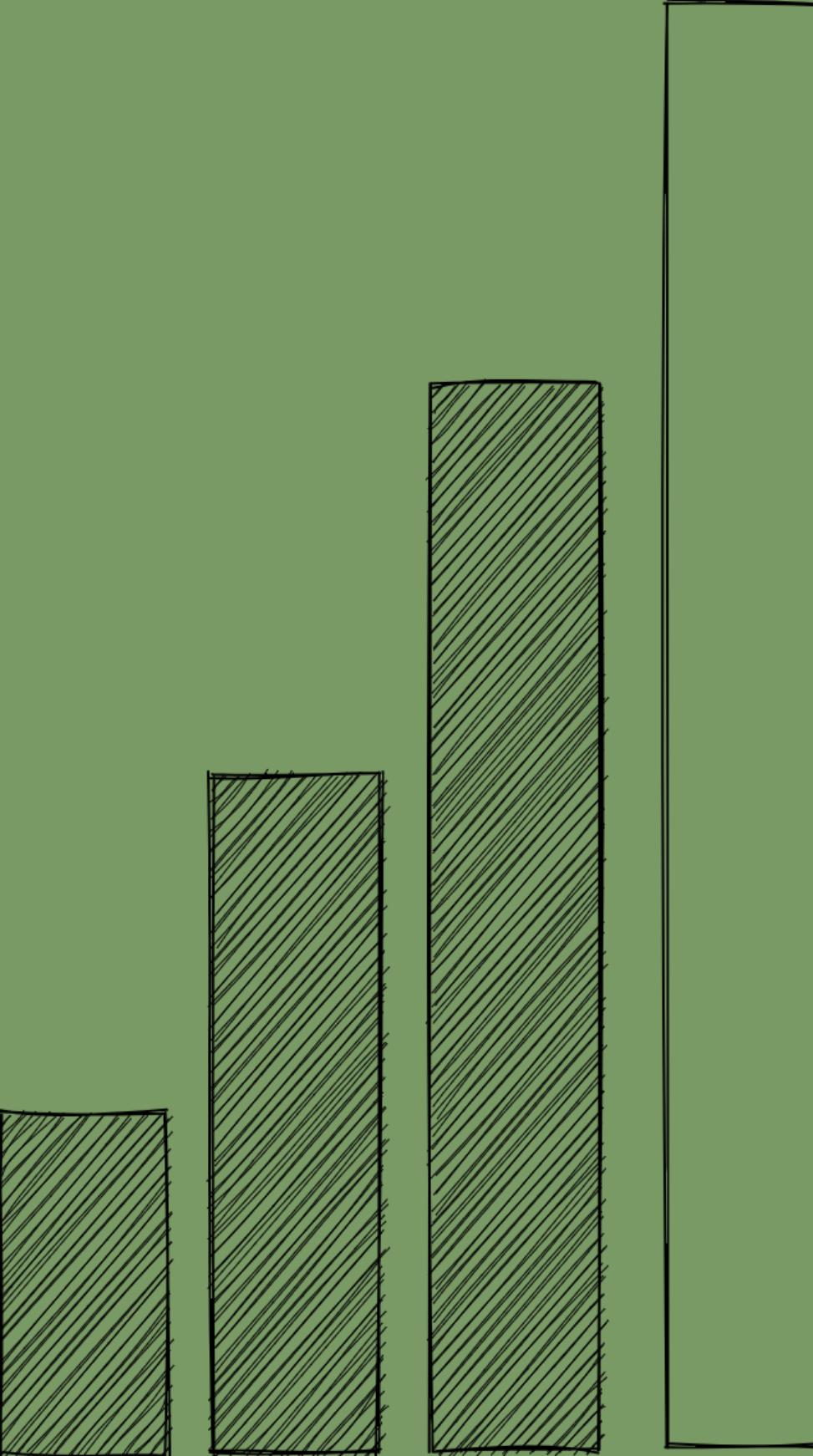
Deep Dive into Horizontal Micro-frontends in DAZN

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

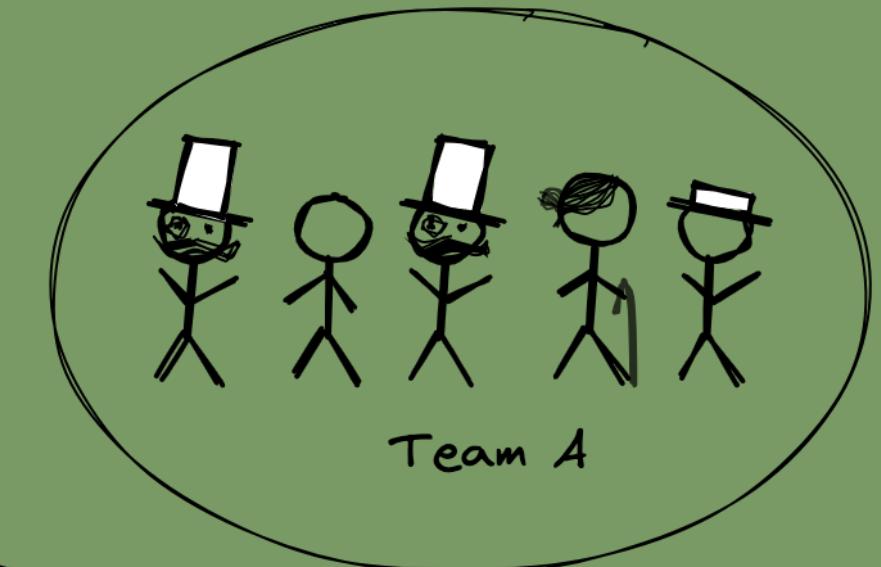


Beyond Team Autonomy

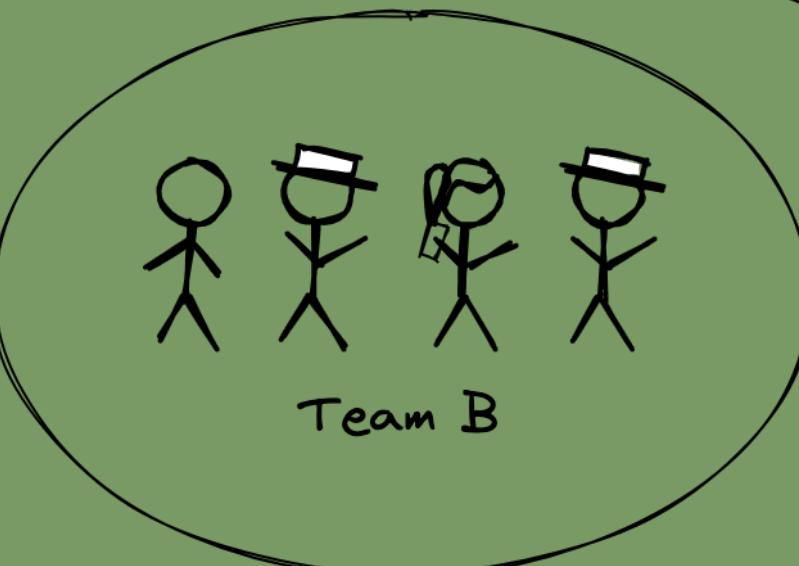
Part 3 of 4



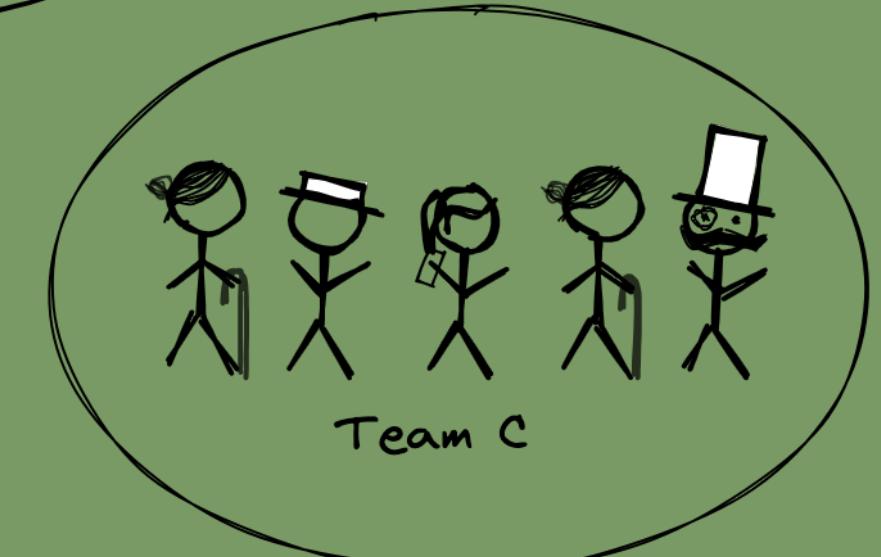
Very autonomous Teams are at risk to create silos



Team A



Team B



Team C

Share Knowledge

👉 **Frontend Guilds**

👉 **Principals & Architects**

Share Knowledge

Decide Together

👉 **Frontend Guilds**

👉 **Principals & Architects**

👉 **Request For Comments
(aka RFC)**

Share Knowledge

Decide Together

Discover More

👉 **Frontend Guilds**

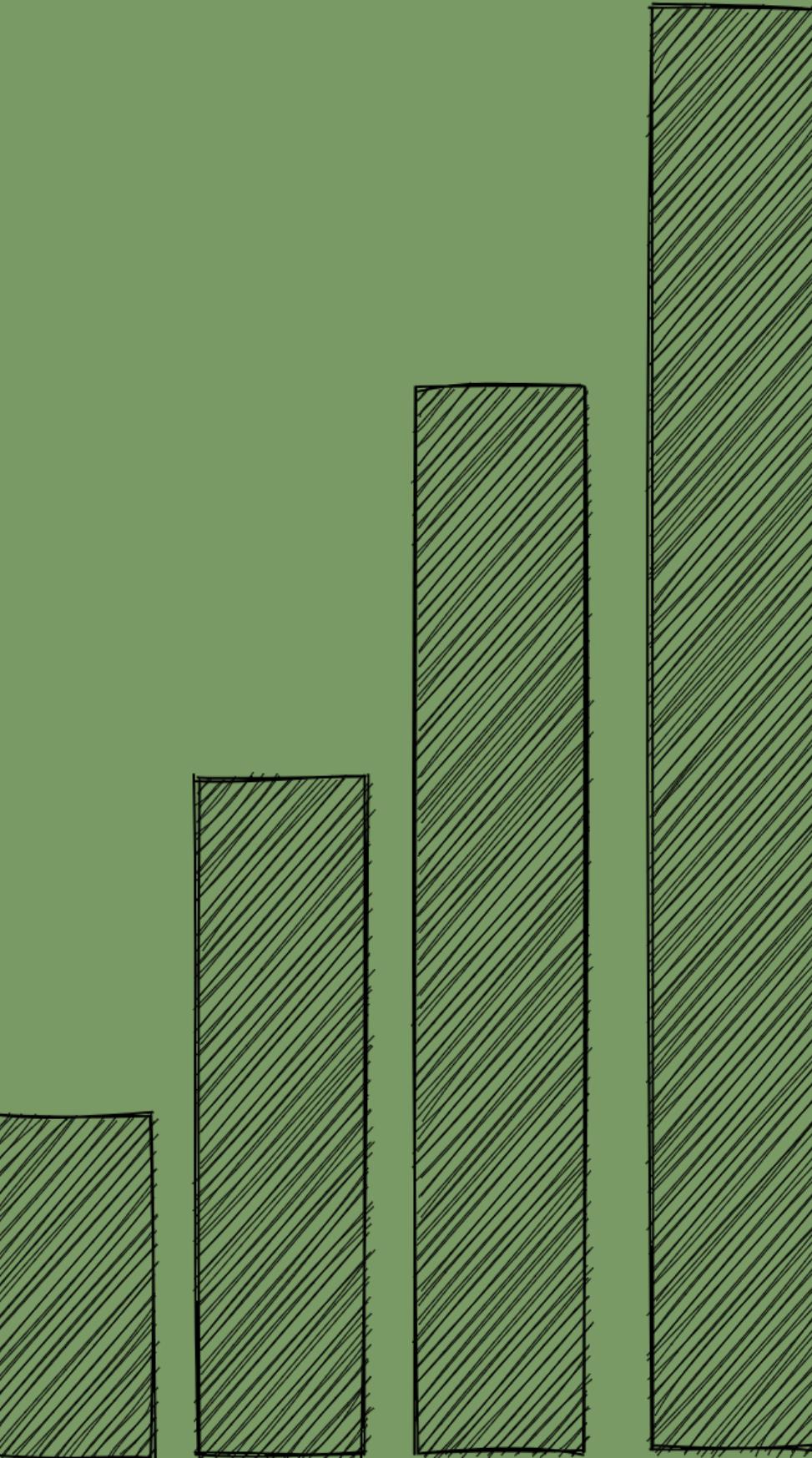
👉 **Principals & Architects**

👉 **Request For Comments
(aka RFC)**

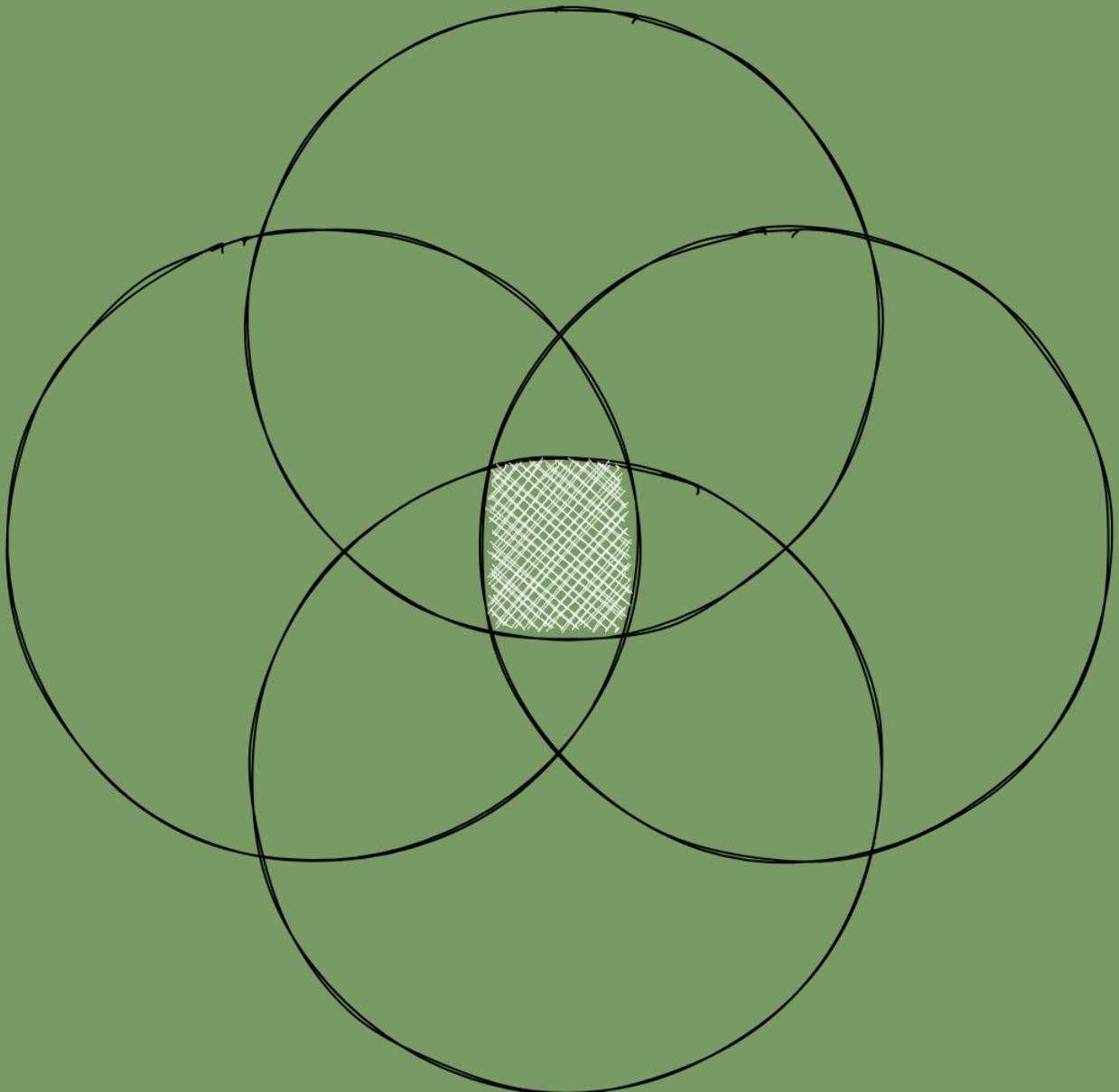
👉 **Backstage (Spotify)**

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

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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