

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



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Agenda

 **Once Upon a Time**

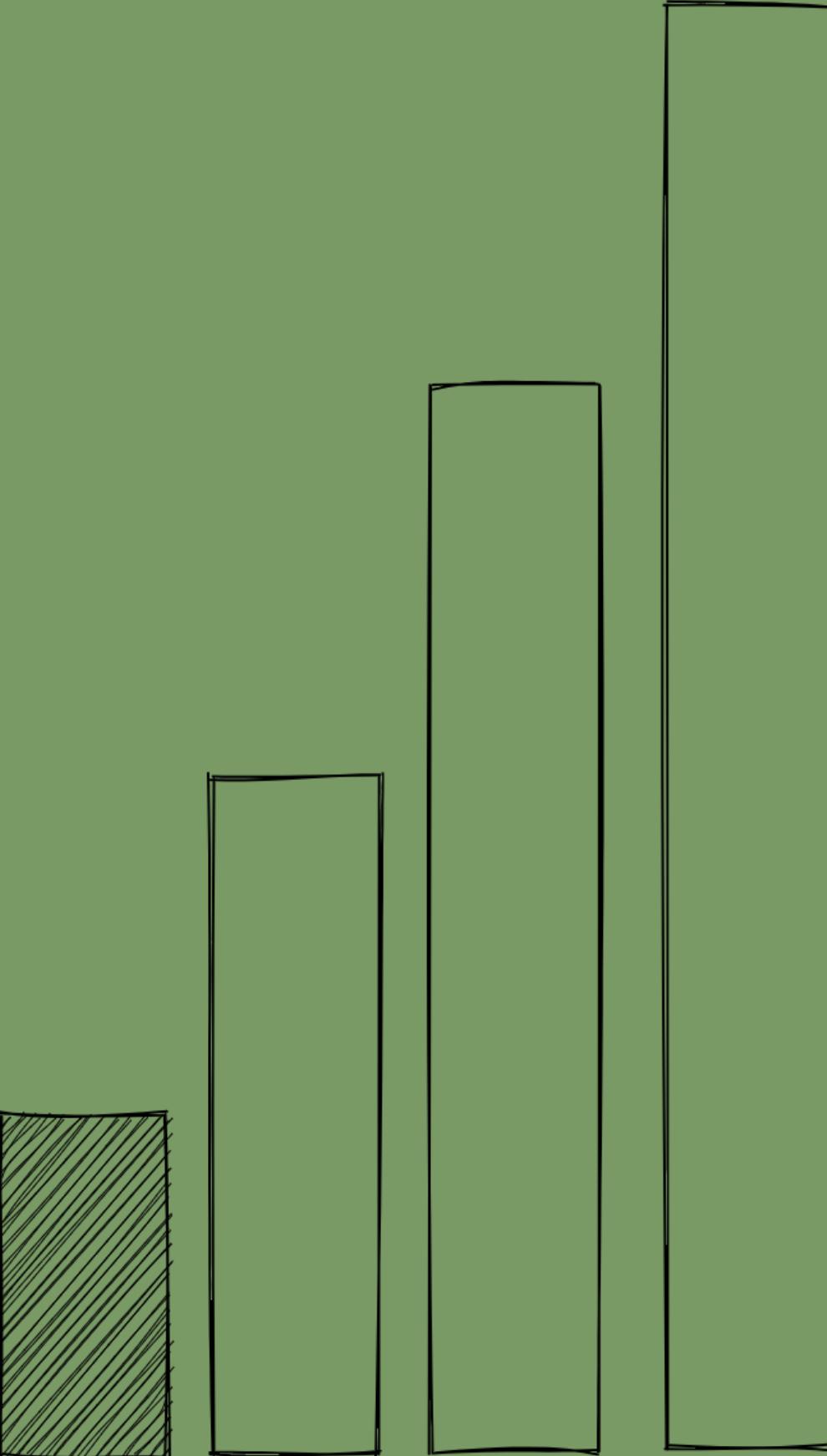
 **Domain Boundaries Evolution**

 **Beyond Team Autonomy**

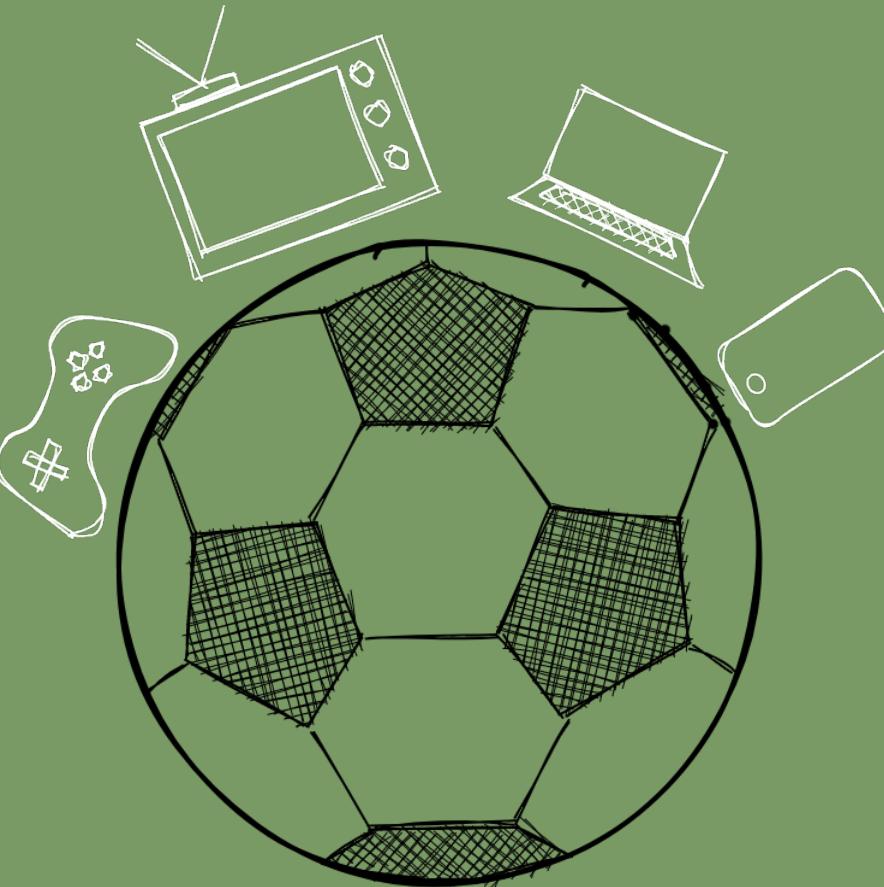
 **Sharing Code**

Once Upon a Time

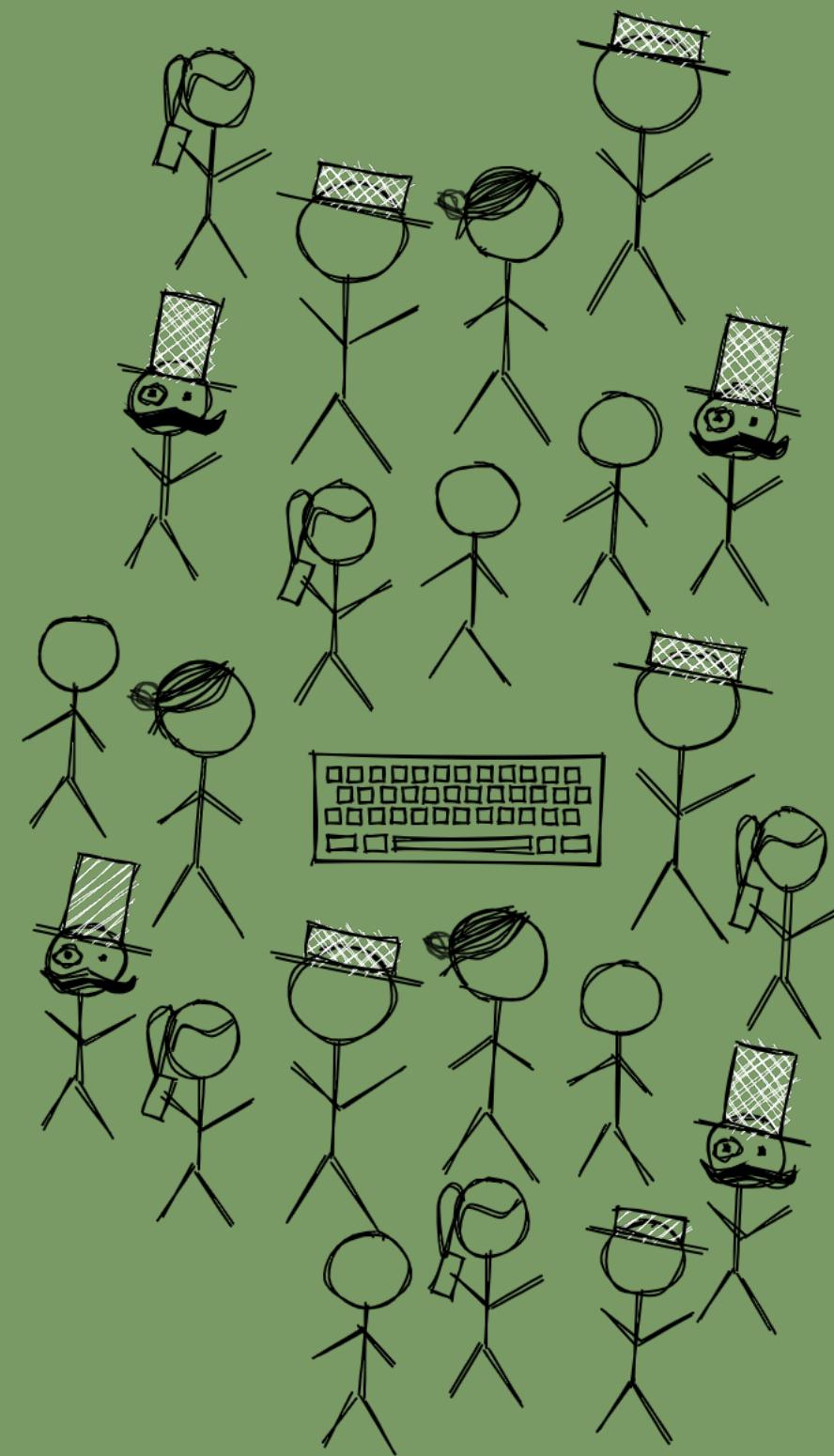
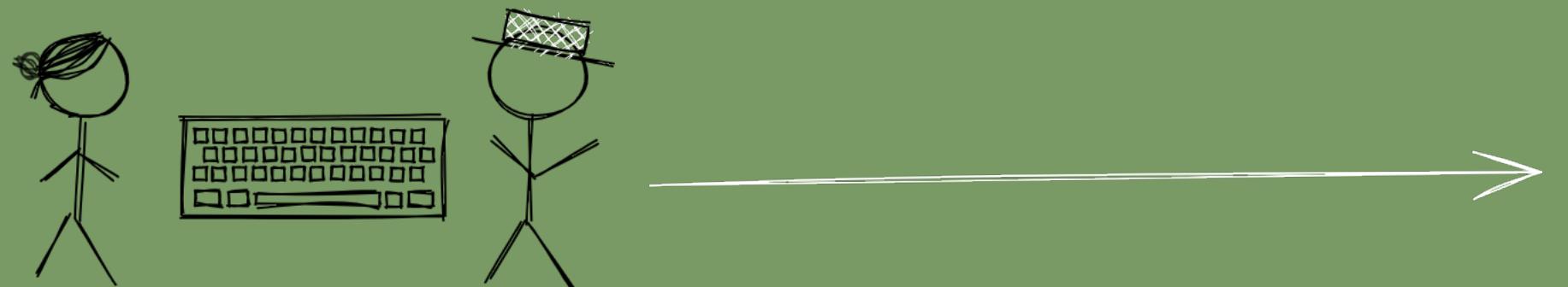
Part 1 of 4



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



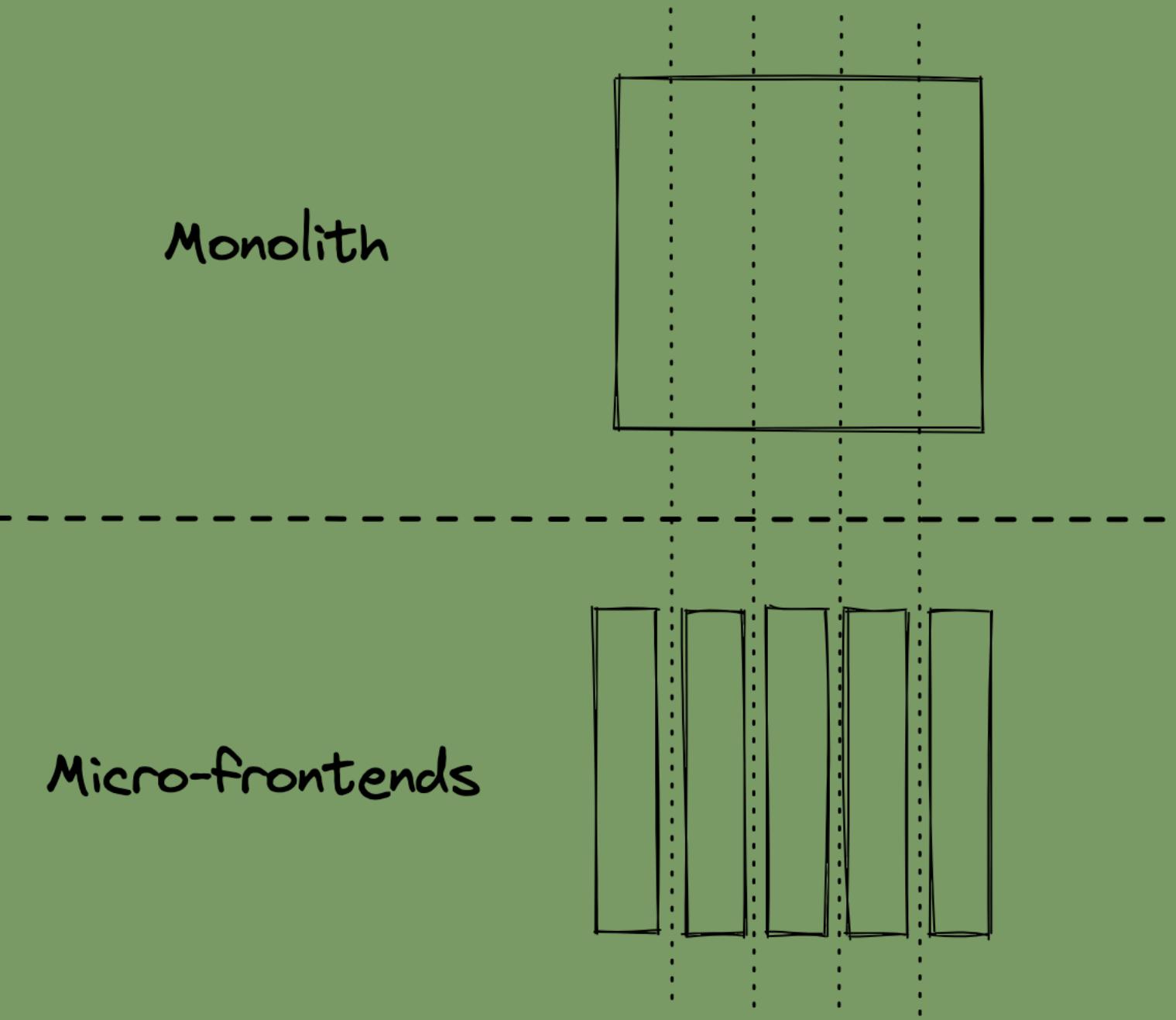
DAZN Engineering department was growing exponentially



To sustain our growth
plans so we introduced
Micro-frontends

Monolith

Micro-frontends



To highlight the pillars of our solution we created our Micro-frontends Manifesto

- 👉 **Independent implementation, avoid sharing logic**
- 👉 **Modelled around a Business Domain**
- 👉 **Owned by a single team**

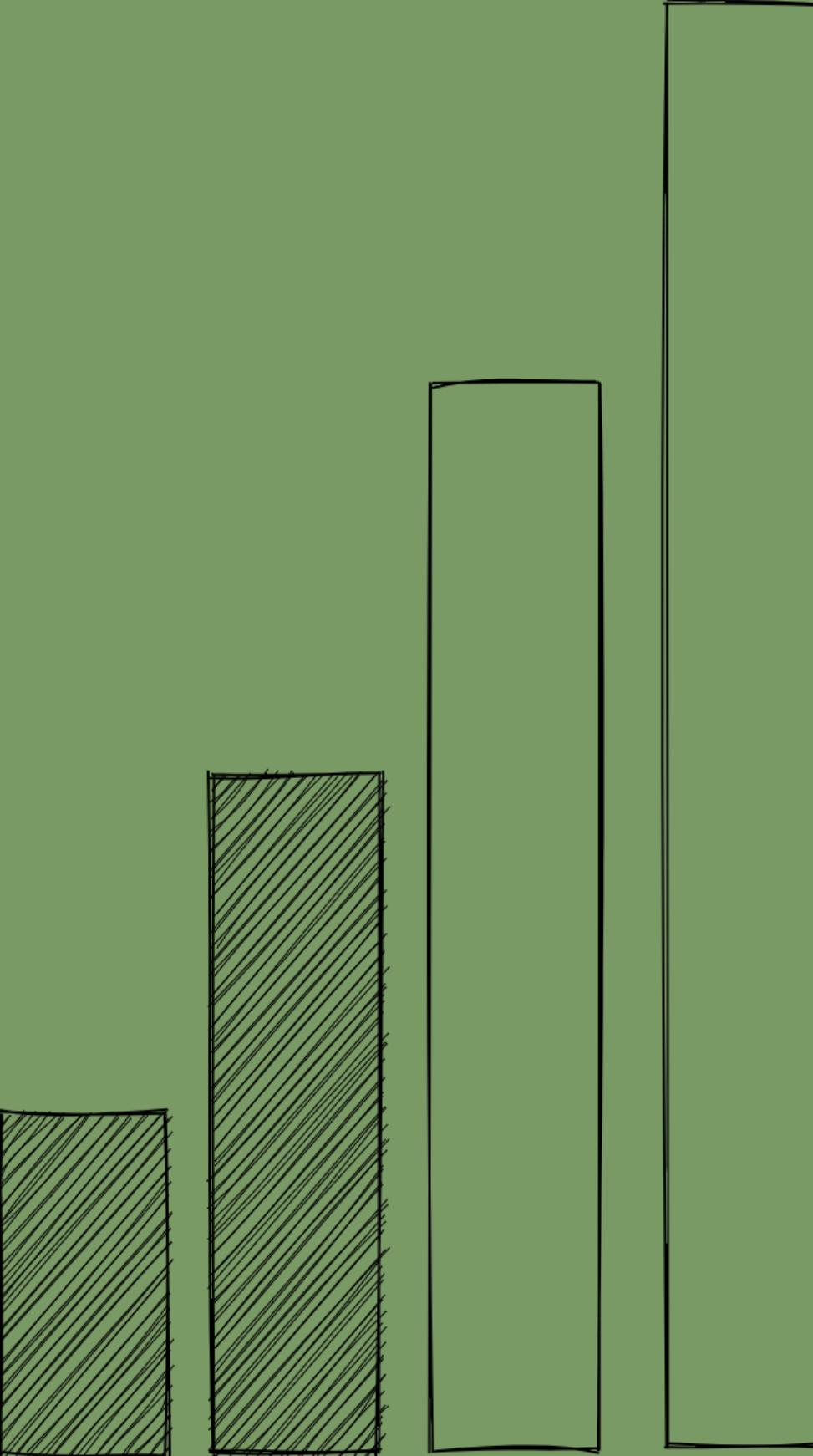
...and they lived happily ever after

...and they lived happily ever after

No more! 

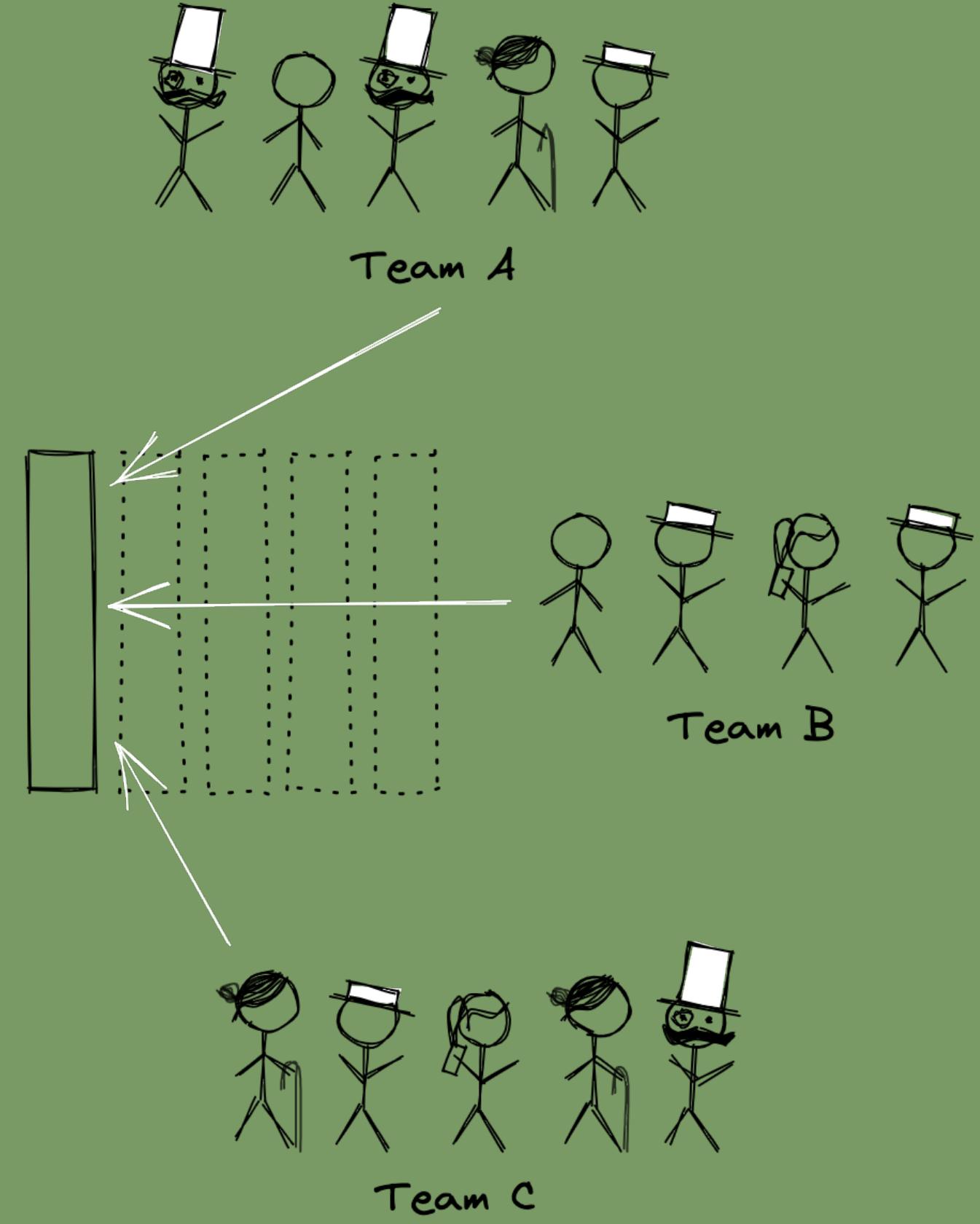
Domain Boundaries Evolution

Part 2 of 4



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

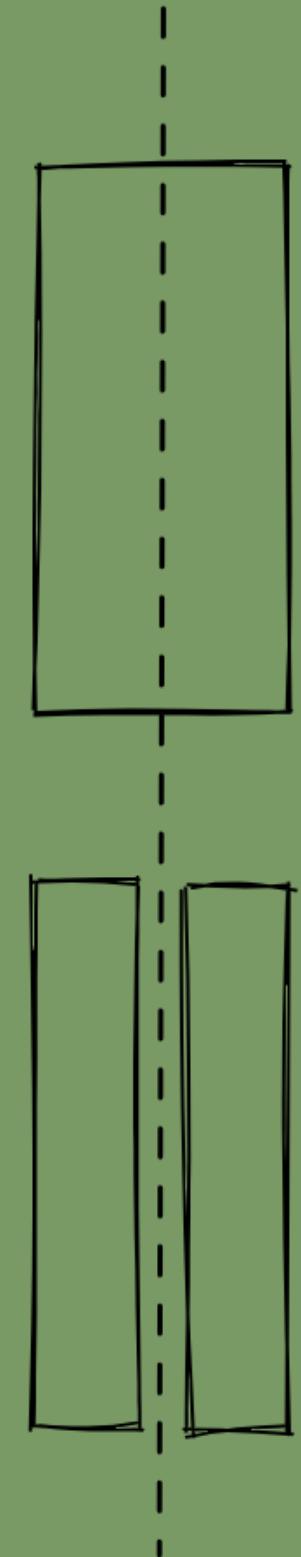
Micro-frontends



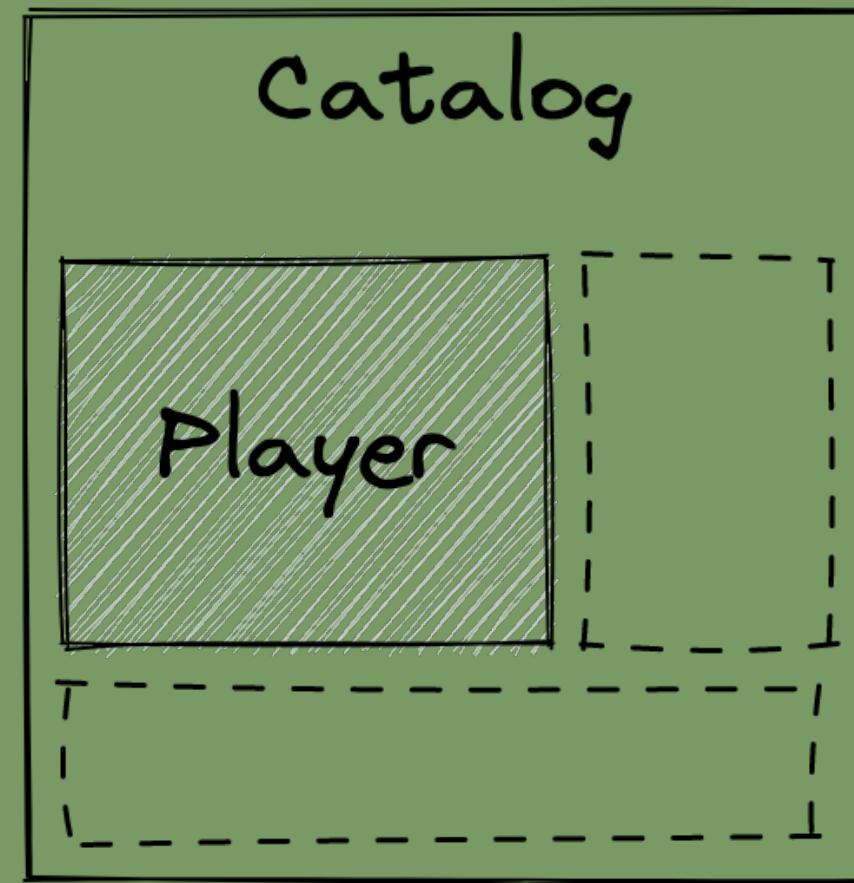
**Our business
subdomains are not
immutable so we re-
defined their boundaries**

Micro-frontend

Two
Micro-frontends



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

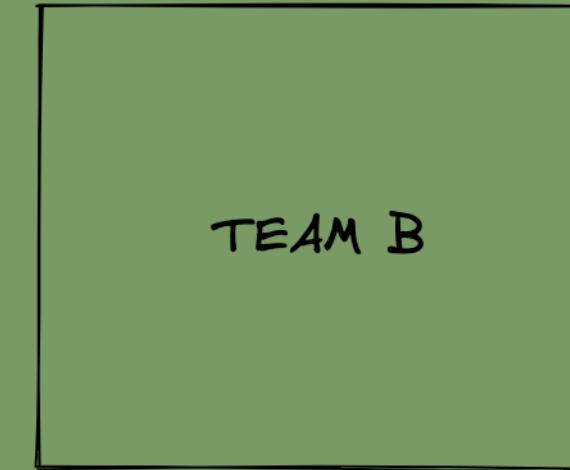


Example of
Micro-frontend

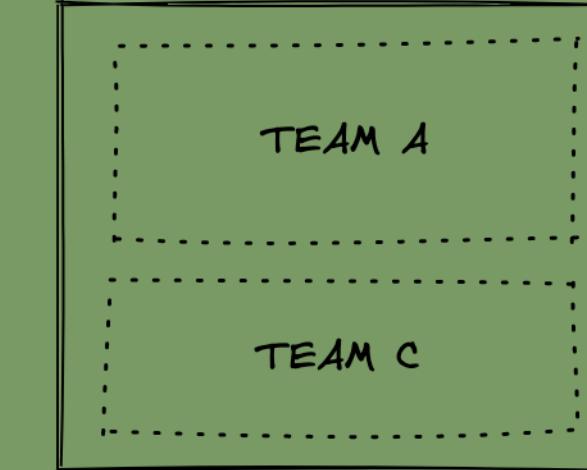
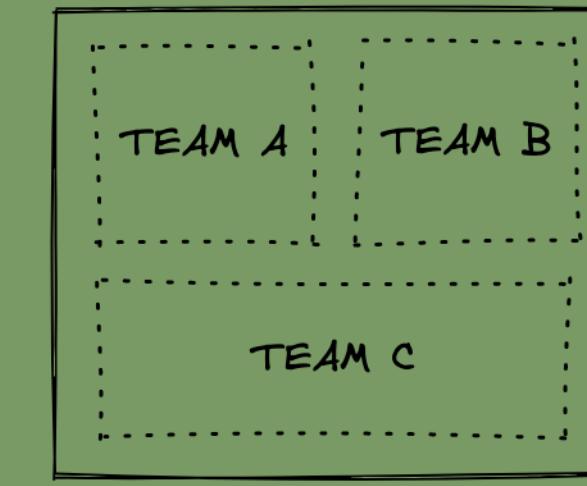
¹From "Team Topologies"

Micro-frontends Vertical & Horizontal² split

Vertical
Micro-frontends



Horizontal
Micro-Frontends

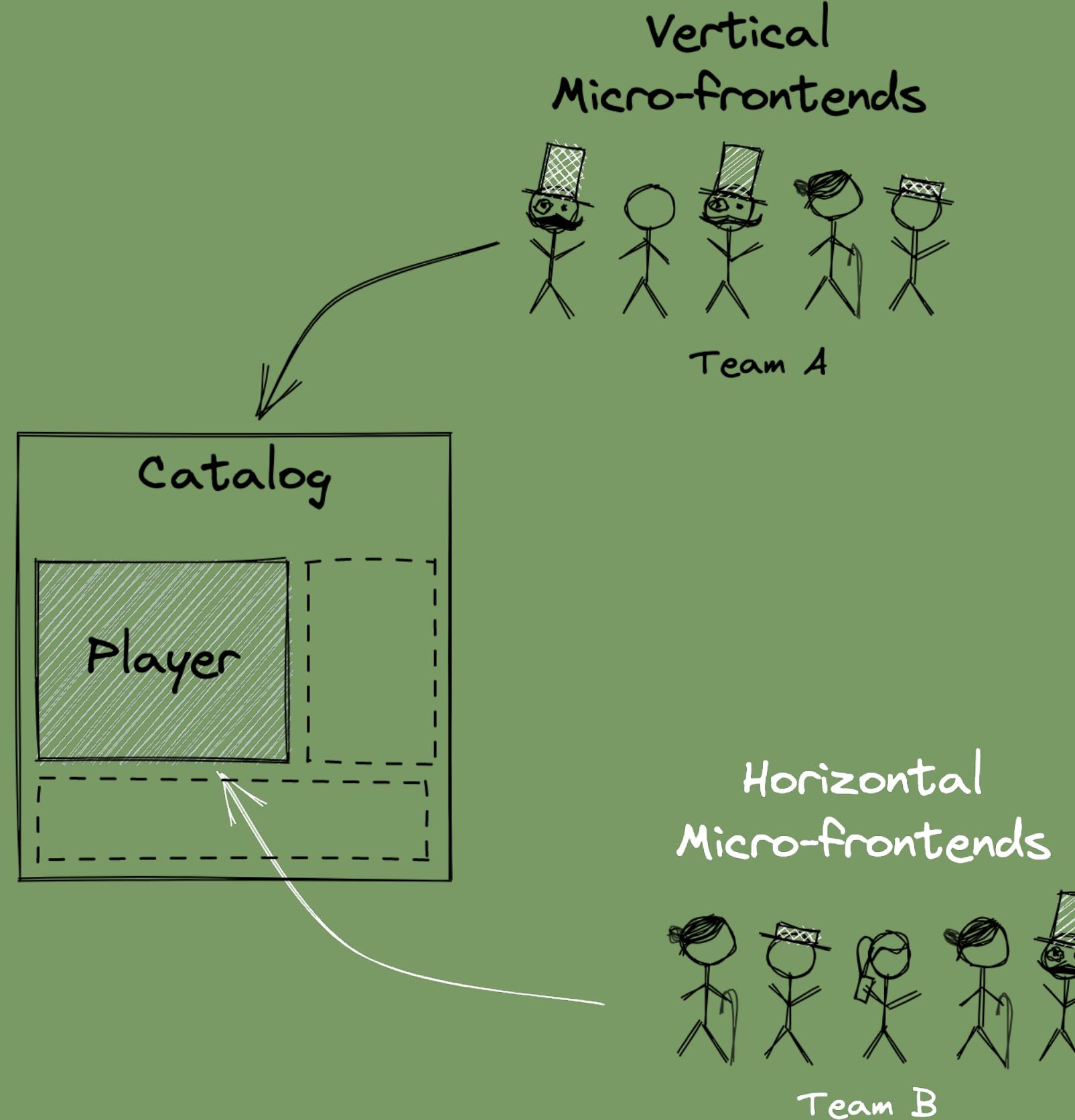


Deep Dive into Horizontal Micro- frontends

- 👉 **Multiple Teams owning parts of the same view**
- 👉 **Coordination needed**
- 👉 **Independent Releases**

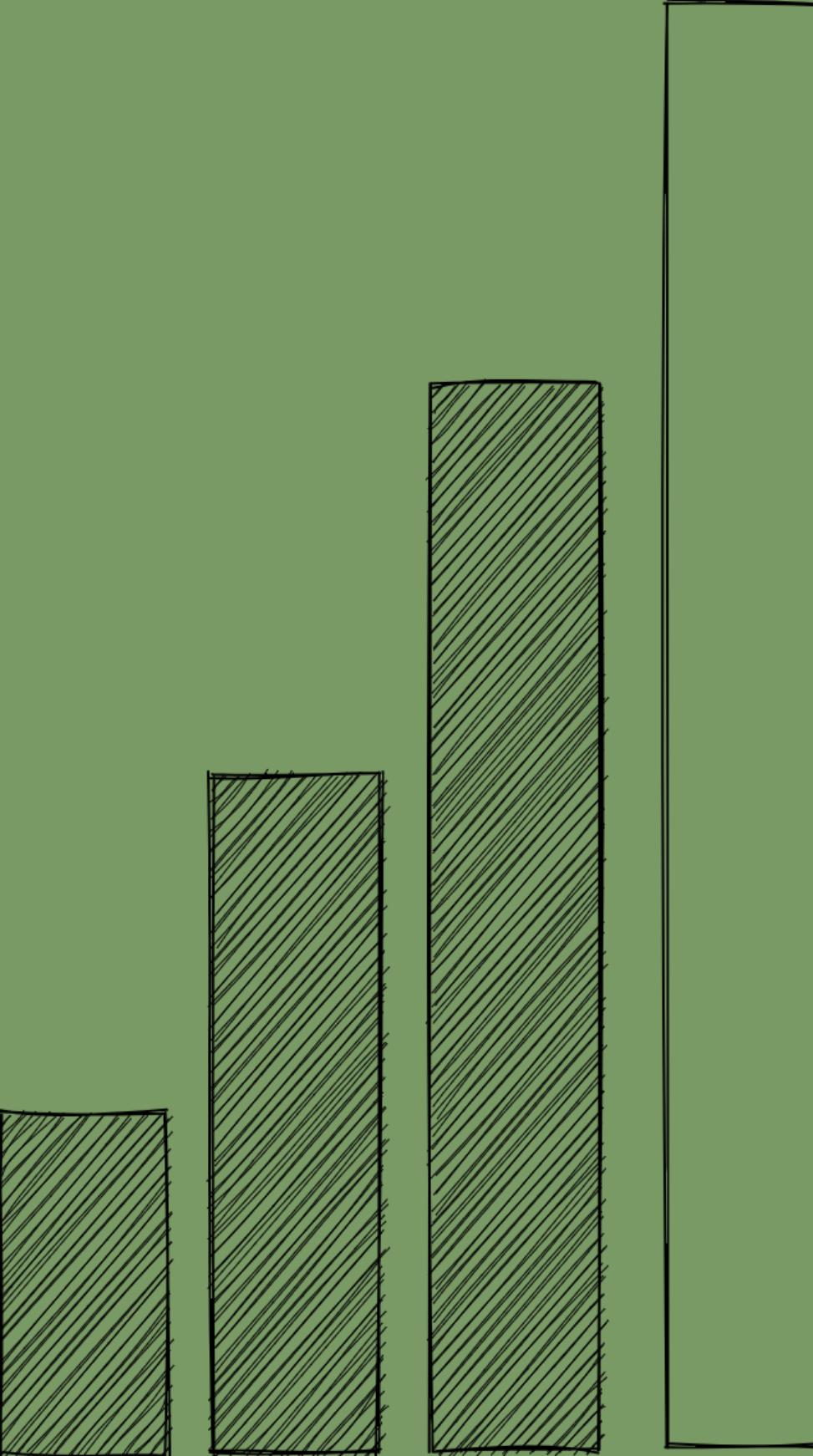
Deep Dive into Horizontal Micro-frontends in DAZN

- 👉 SystemJS
- 👉 Relationship with host
- 👉 Deployment strategy

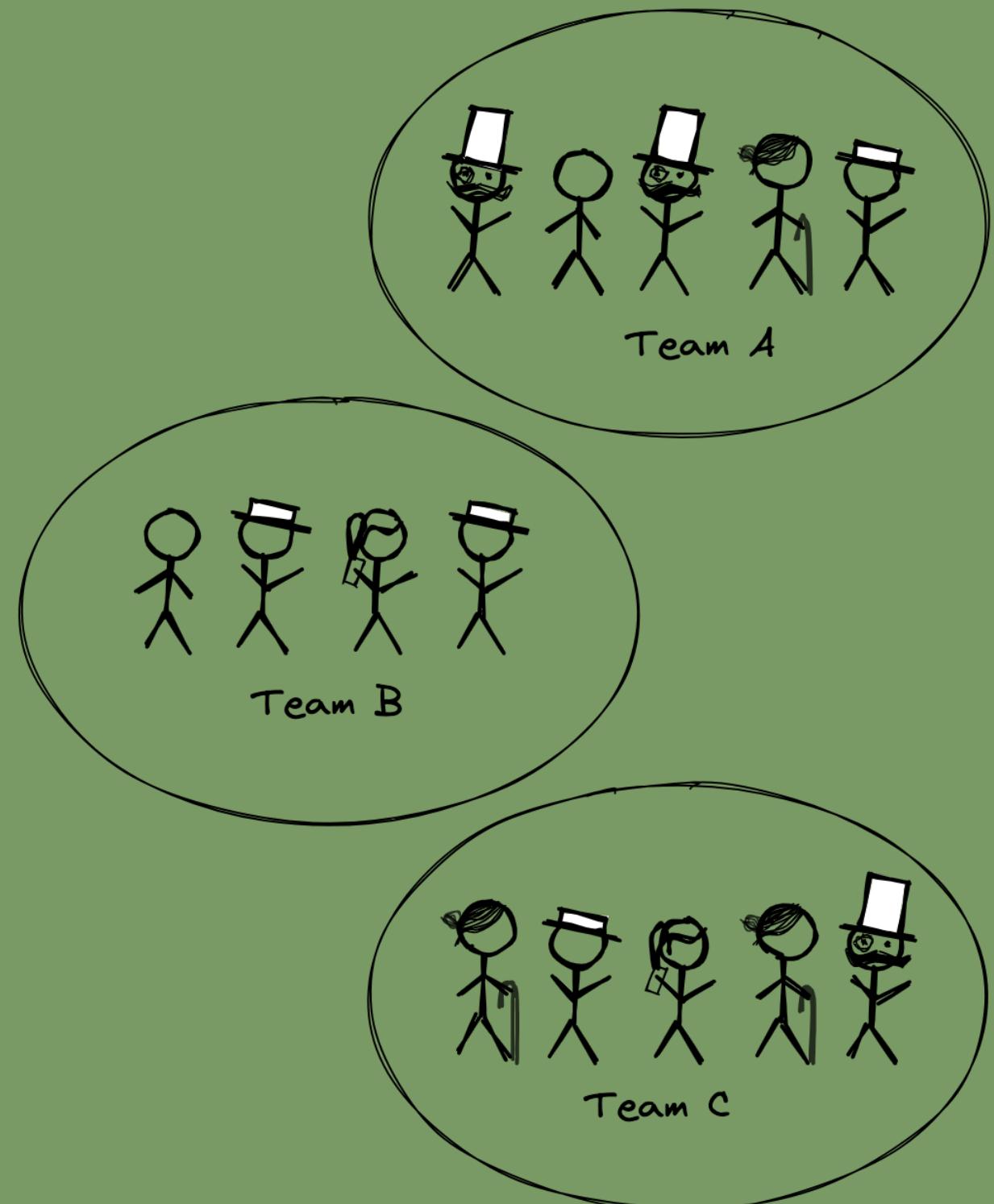


Beyond Team Autonomy

Part 3 of 4



Very autonomous Teams are at risk to create silos



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**

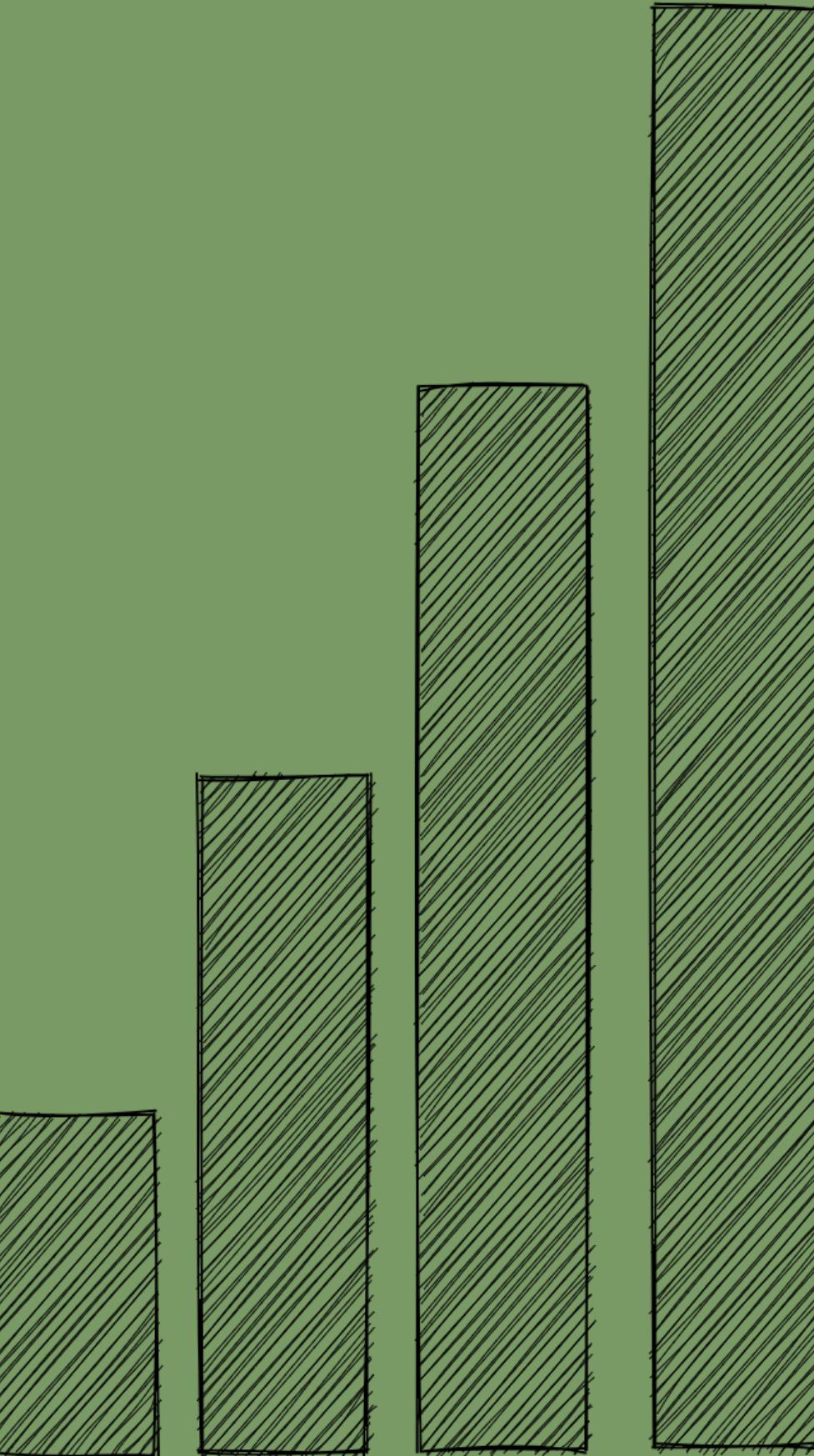
👉 **Principals & Architects**

👉 **Request For Comments
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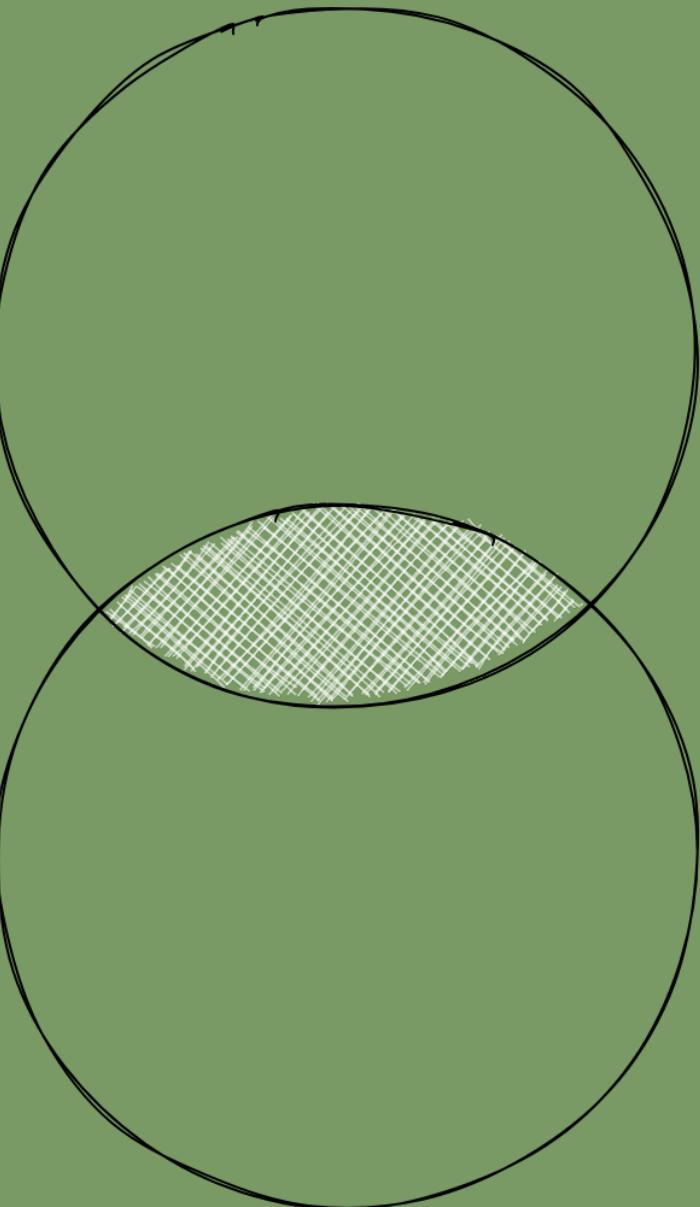
👉 **Backstage (Spotify)**

Sharing Code

Part 4 of 4



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



In DAZN, we started to
share to reflect
company priorities

What are we sharing?

- 👉 Payments (critical component)
- 👉 Analytics Events (risks in duplication)
- 👉 Experiments (risk in duplication)

Takeaways

- 👉 Your business subdomain are **not immutable**
- 👉 Iterate and keep Decision Records
- 👉 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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