DOMAIN DRIVEN DESIGN EUROPE 2023

Practical DDD - Transforming theories into guidelines

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Key takeaway n°1
When teams take responsibility for their components, architects must become supports rather than decision-makers

Key takeaway n°2
To be effective, knowledge must make life easier for teams (through opinionated decisions), be actively shared and adapt itse

AUGURY

Physical probes for heavy industrial machines, for monitoring and preventive maintenance

IoT
API
Big Data
Mobile app

From 100 to 400 in a year and a half

How to scally effectively while keeping...

Independent teams
Responsible for their assets

Clear perimeters
Arch/tech consistency

1 Adapt the role of architects

An architect to help every Dev Group

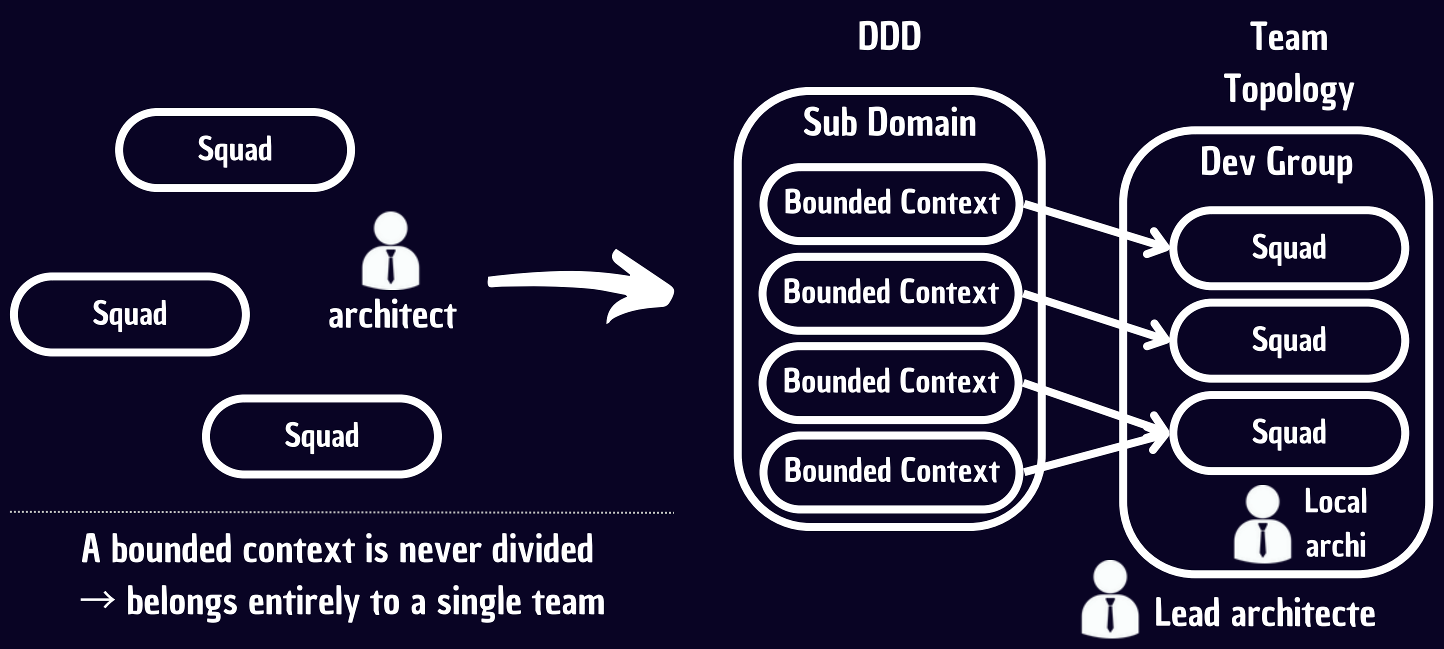
Lead without authority

Helping temas make choices

Propagate knowledge

At the disposal of the teams

2 Giving teams a functional framework



A bounded context is never divided
→ belongs entirely to a single team

3 Giving teams an architectural framework

Paradigms based on DDD
Conceptual choices already made, adapted to the company's context

6 months of research by the architects concentrated in a book, distributed to devs
→ Developers don't have enough time to read the book
→ Those who take the time cannot absorb the dense information

Book split into

A simplified dictionary
Tailored to the context

A set of actionable sheets
The Designs Topics

Knowledge that is easier to grasp and spread by architects

Aggregate Service

Bounded Context Service

View Service
(BFF)

<Design Topic>
Interesting links
Short explanation
When <problem> ?
Then <solution>
- Example 1
- Example 2

When <problem> ?
Then <solution>
- Example 1

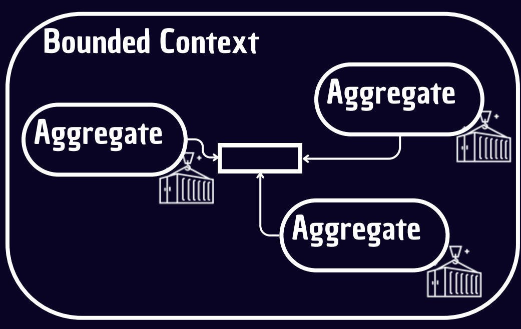
Cross-Cutting Service
(plateforme)

Communication Channels

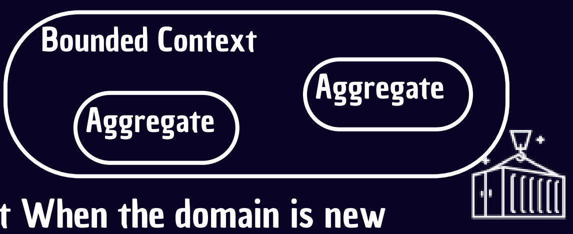
Control Flows

Example: Design Topic Aggregate (micro) service

Technical choice: MicroService at aggregate level



Easier to
- Change the scope of a team
- Split a bounded context



But When the domain is new / with unclear boundaries, Then a microservice at the bounded context level is possible, in trajectory

Exemple: Design Topic Communication Channels

When to generate a new domain event ?

When should we generate service requests ?

When should we use commands ?

When an aggregate should consume a domain event ?

When to enrich an event with the data ?

What's next? Keep creating and spreading new Design Topics

Distributed entities

Micro frontends

Context Mapping

Generic Domains