DOMAIN DRIVEN DESIGN EUROPE 2023

Strategic Domain-Driven Refactorings

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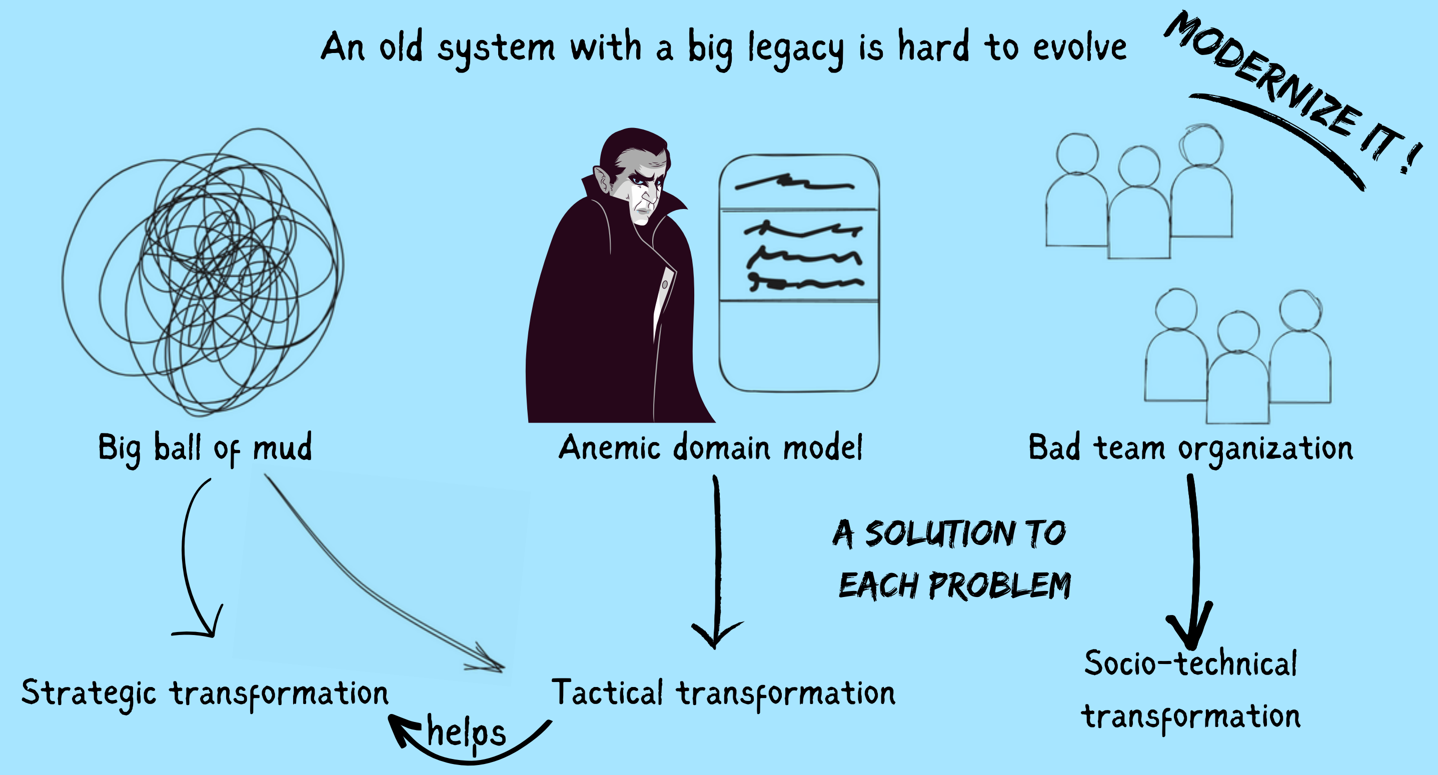
Key takeaway n°1
Monolith transformation is possible (and hard). It require strong motivation and consistent efforts

Key takeaway n°2
Migrate using the strangler fig pattern allow harnessing results quickly and avoid the big bang replacement and its problems

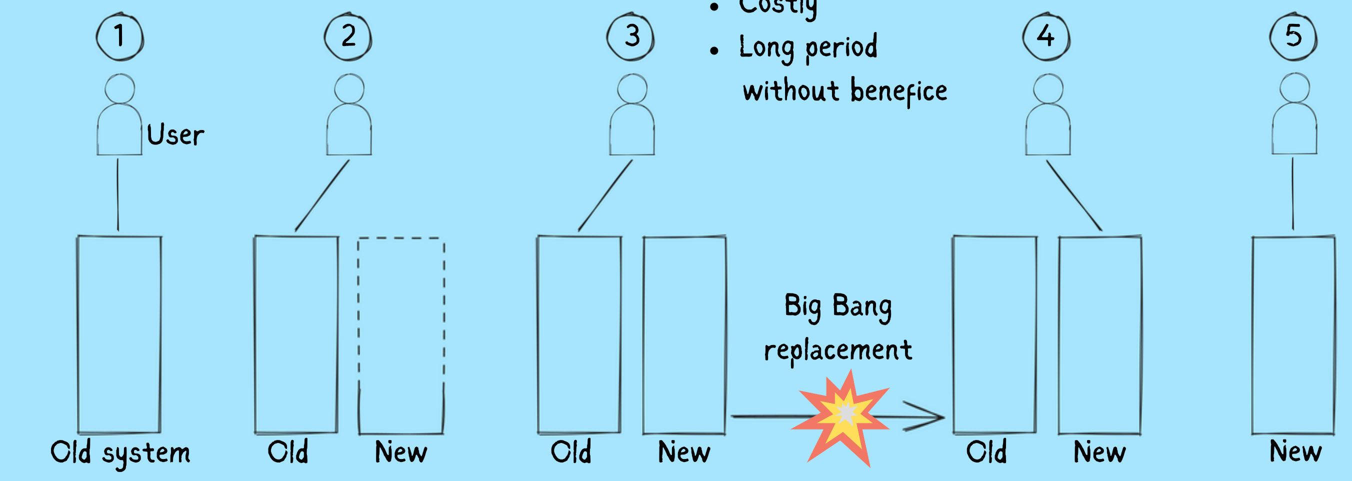
An old system with a big legacy is hard to evolve



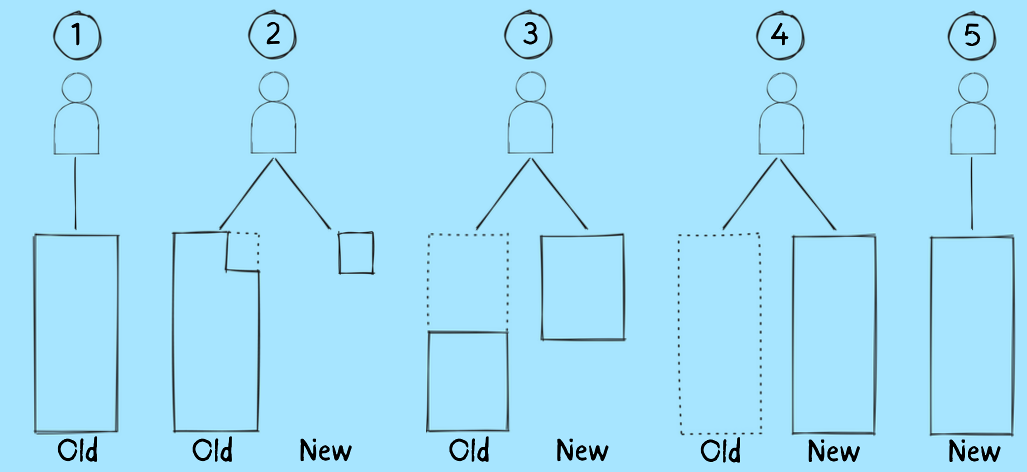
Full tranformation catalog on hschwentner.io

How to modernize IT Infrastructure ?

Option 1: replace
- Costly
- Long period without benefice



Option 2: transform (Strangler fig pattern)



Harvest benefits and test integration step by step

Can take decisions on a bounded context scale :
- Carve out from legacy
- Build new
- Buy

Focus on Strategic transformation

Step 1: Domain re-discovery

Forget legacy, think business

Use CoMo (collaborative modeling) tools

Domain Storytelling

EVENT STORMING

Step 2: Determing the To-Be Architecture

Extract boundaries and subdomains from step 1

Coarse grained scope
→ Container level from C4

Step 3: Align As-Is with To-Be

Fix the big ball of mud first, then the anemic domain model
- Slice domain/vertical slices
- Use tactical transformations from the catalog

The transformation will take a long time, especialy for enormous legacy systems
- Create a dedicated transformation backlog

Step 4: Do the move

Allocate time, each sprint, to the transformation
Take multiple items from the transformation backlog

Be consistent and keep the pace, you might get rid of your legacy !

2023 - Nicolas Barlogis