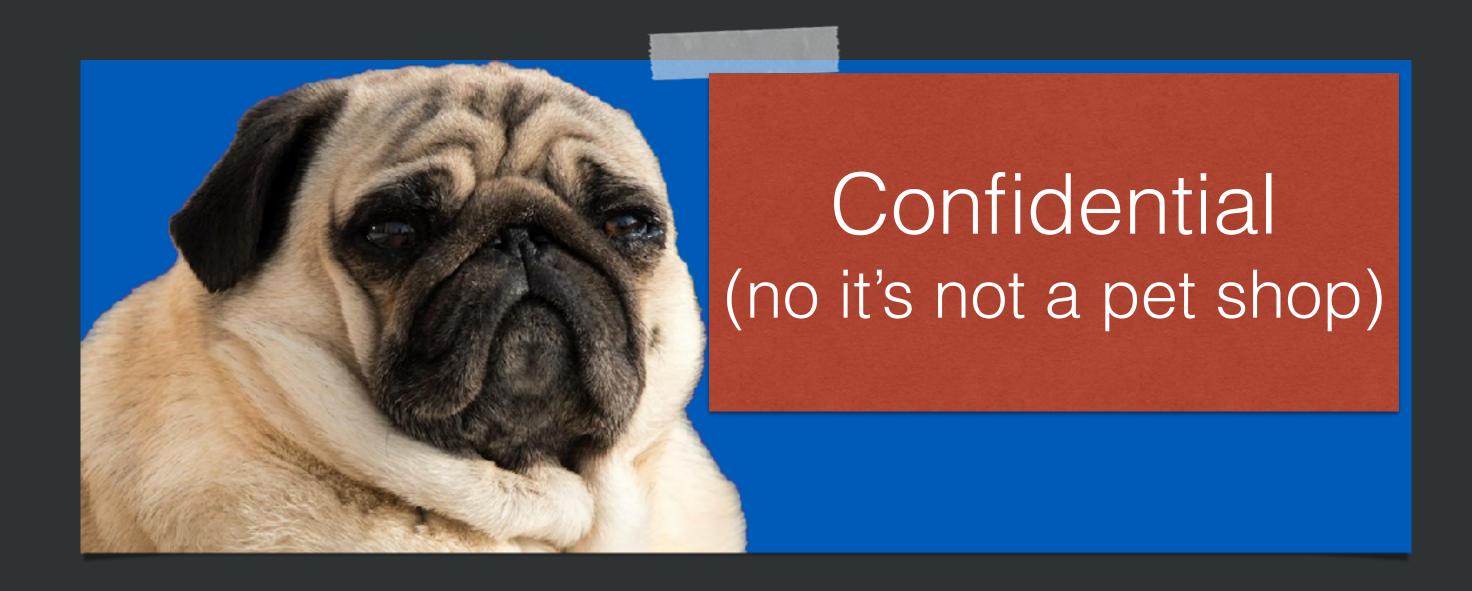
DDD

Strategic Design With Spring Boot



Michael Plöd - innoQ

@bitboss

The Spring Boot / code part of this presentation can be found at:

https://github.com/mploed/ddd-strategic-design-spring-boot

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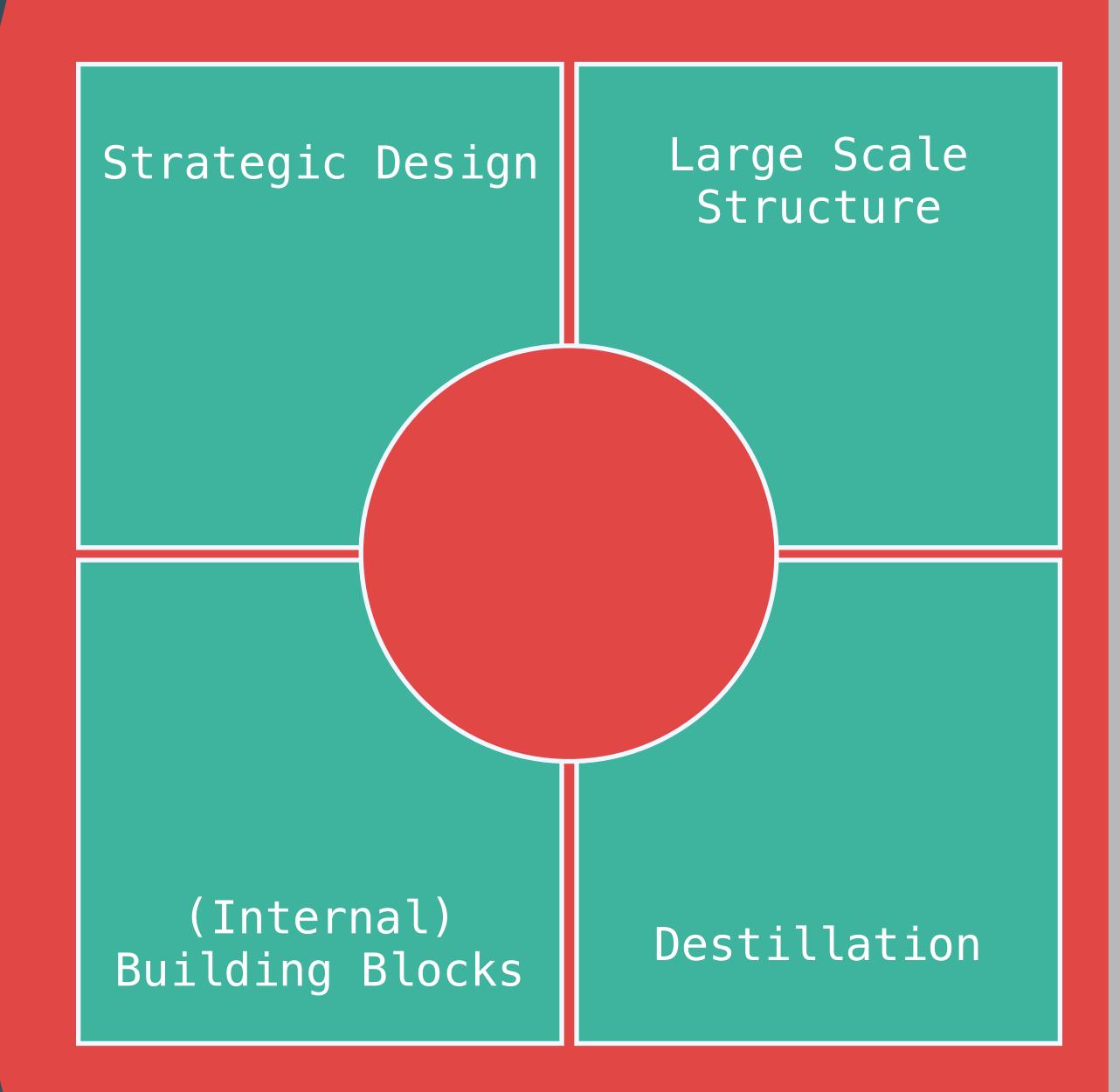
Disclaimer

Most of these ideas do not come from me personally. I have to thank Eric Evans for all the inspiration / ideas. If you haven't: go out and get his amazing book: Domain Driven Design.

Michael Plöd - innoQ

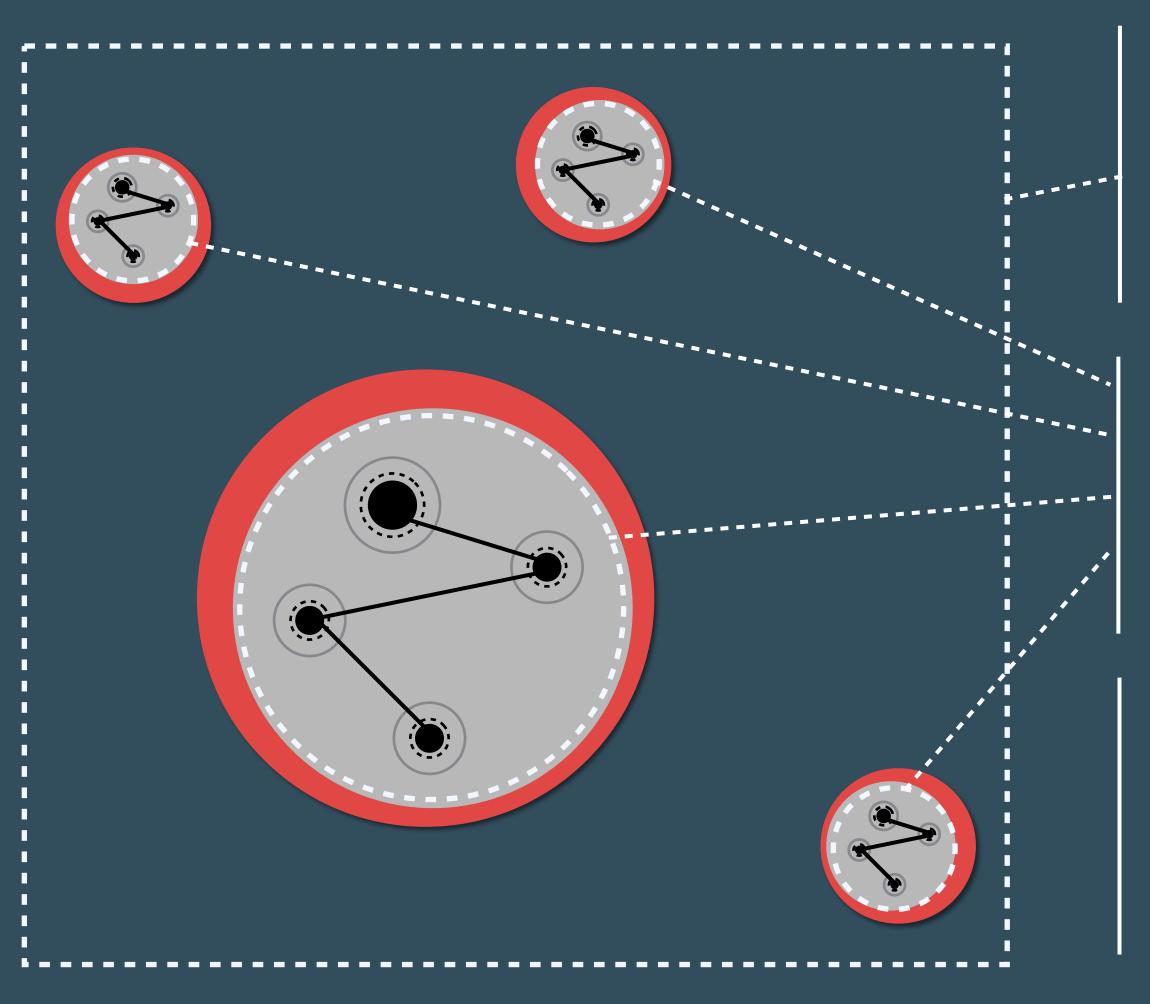
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Domain Driven Design



Bounded Context Strategic Design Context Map Strategic Design consists of Publish Language

Bounded Context



Every sophisticated business domain consists of a bunch of **Bounded Contexts**

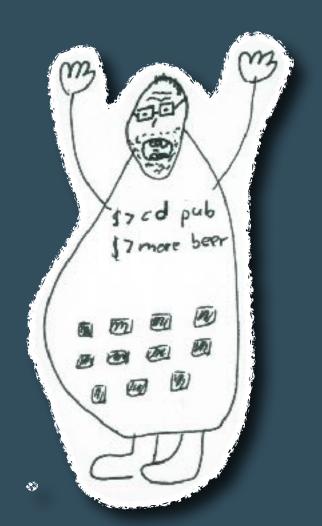
Each Bounded Context contains models and maybe other contexts

The Bounded Context is also a boundary for the meaning of a given model



Bounded Context Example





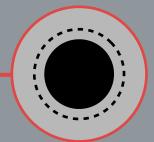
Name Payment Details Adress Company



Session Registrations Lunch Preferences



Name Job Description Twitter Handle



Bounded Context Example



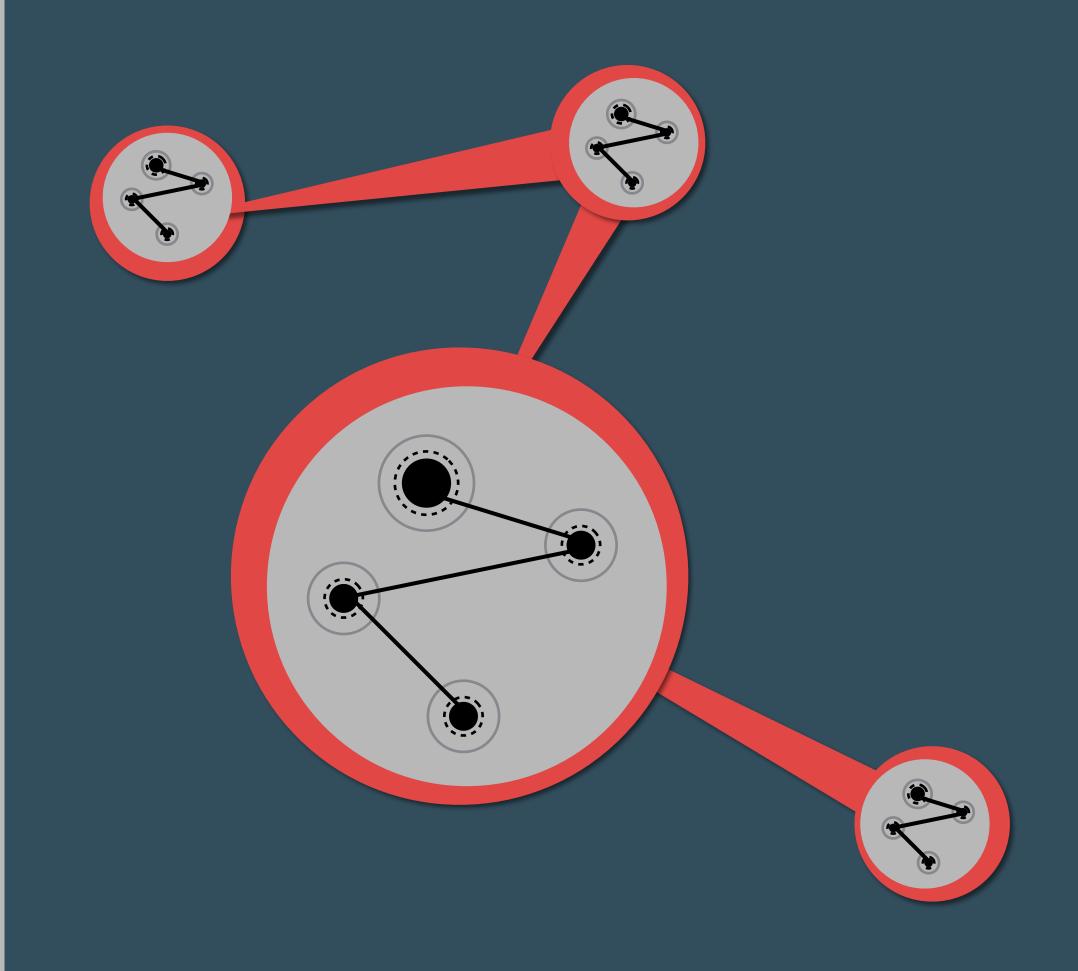
Each Bounded Context has its own model of a customer

This is a major enabler for independent Microservices

Take a look at the name of the customer? Maybe we want some shared data?

Bounded Context Strategic Design Context Map Strategic Design consists of Publish Language

Context Map

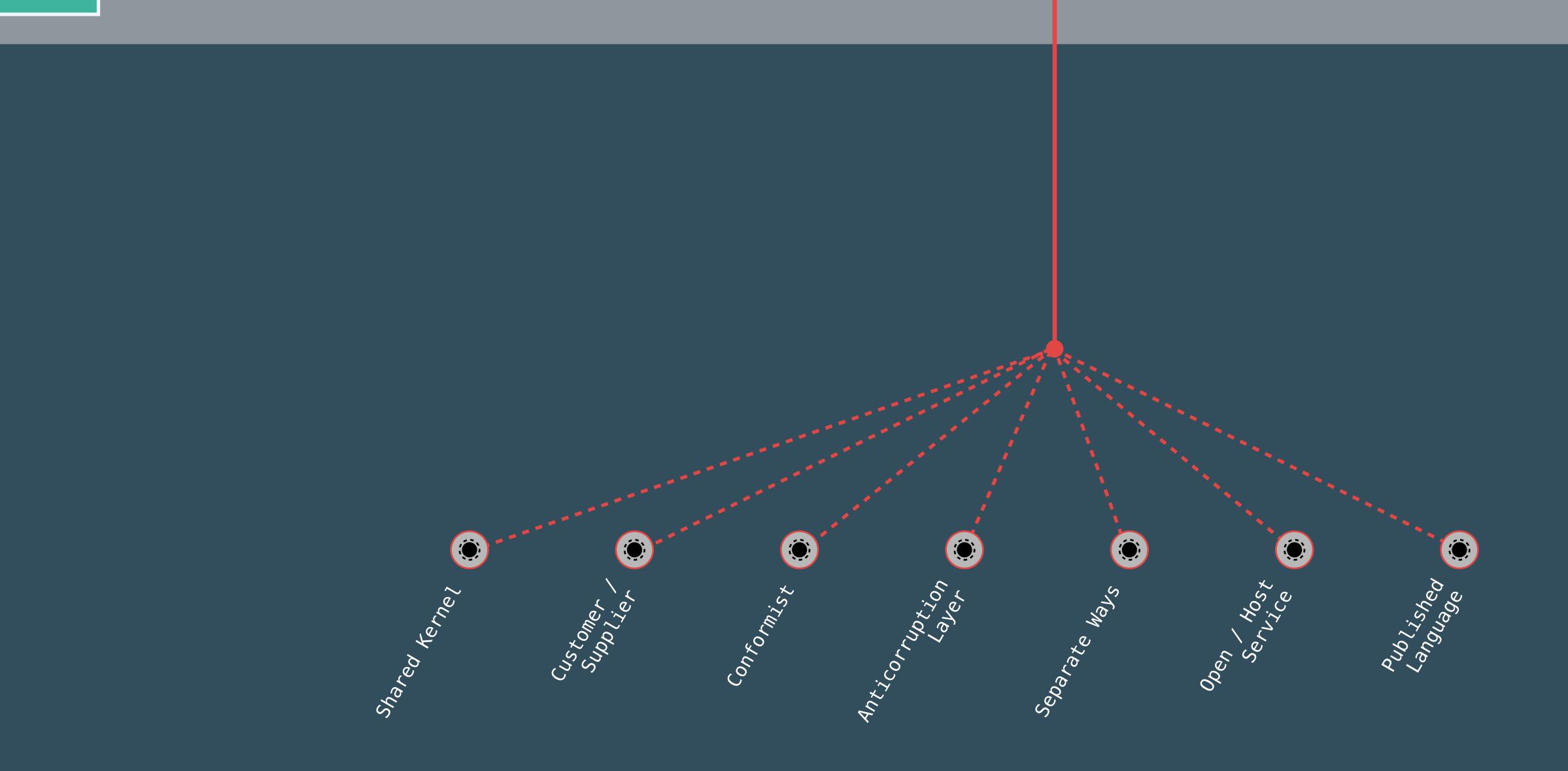


The Bounded Context by itself does not deliver an overview of the system

By introducing a **Context Map** we describe the contact between models / contexts

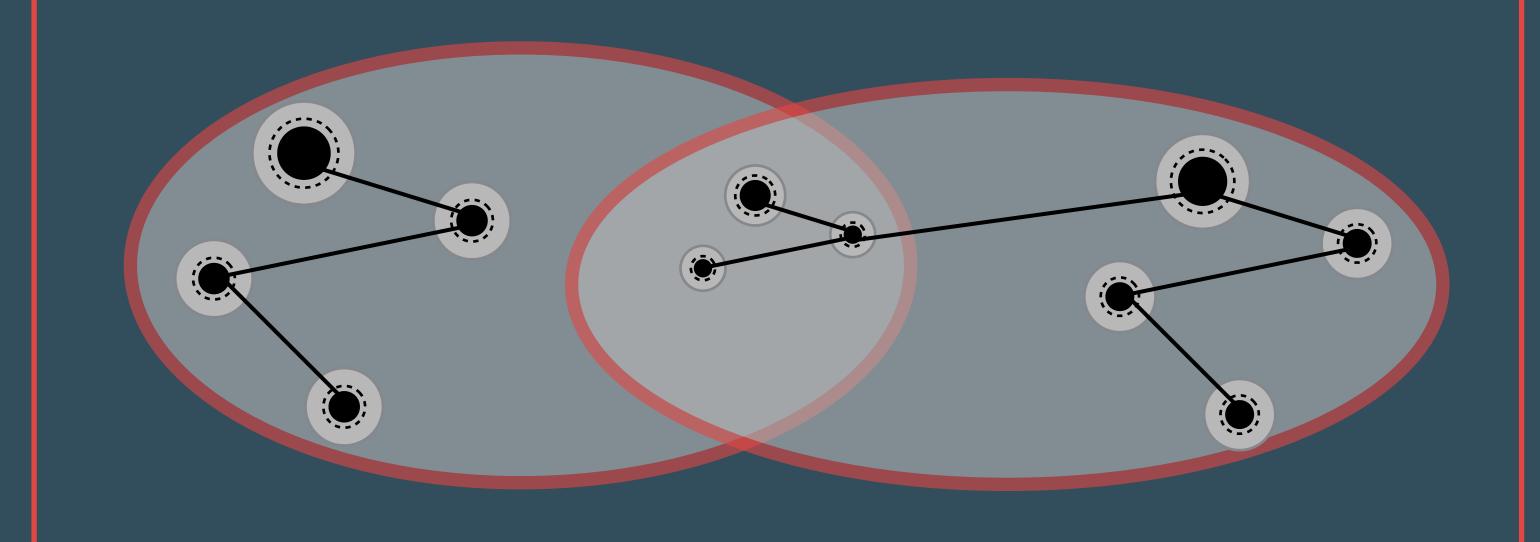
The Context Map is also a great starting point for future transformations

Context Map - Patterns



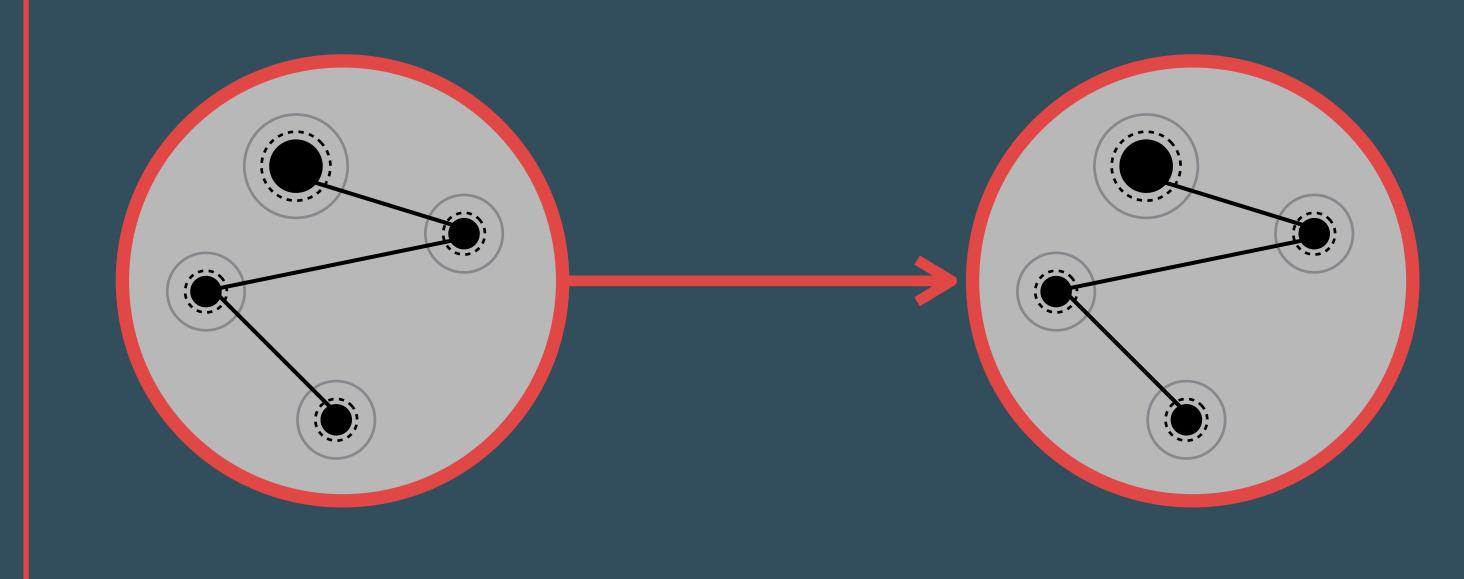
- Shared Kernel
- © Customer / Supplier
- Conformist
- Anticorruption Layer
- Separate Ways
- Open / Host Service
- Published Language

Two teams share a subset of the domain model including code and maybe the database. The shared kernel is often refered to as the core domain.



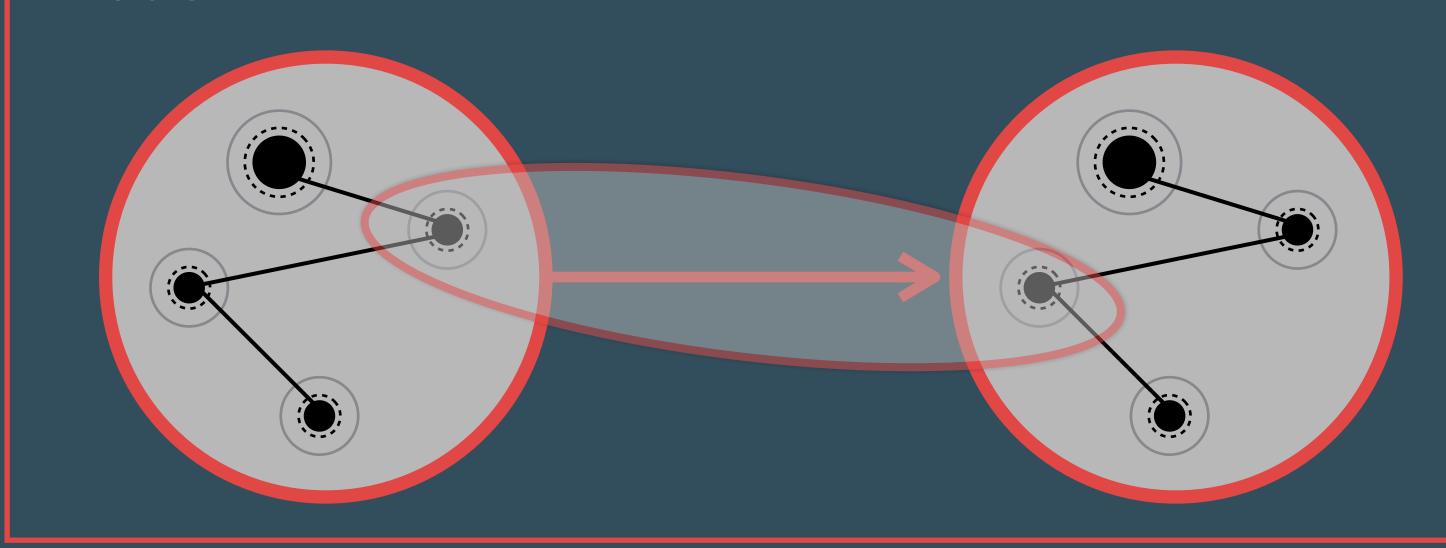
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There is a customer / supplier relation ship between two teams. The downstream team is considered to be the customer, sometimes with veto rights.



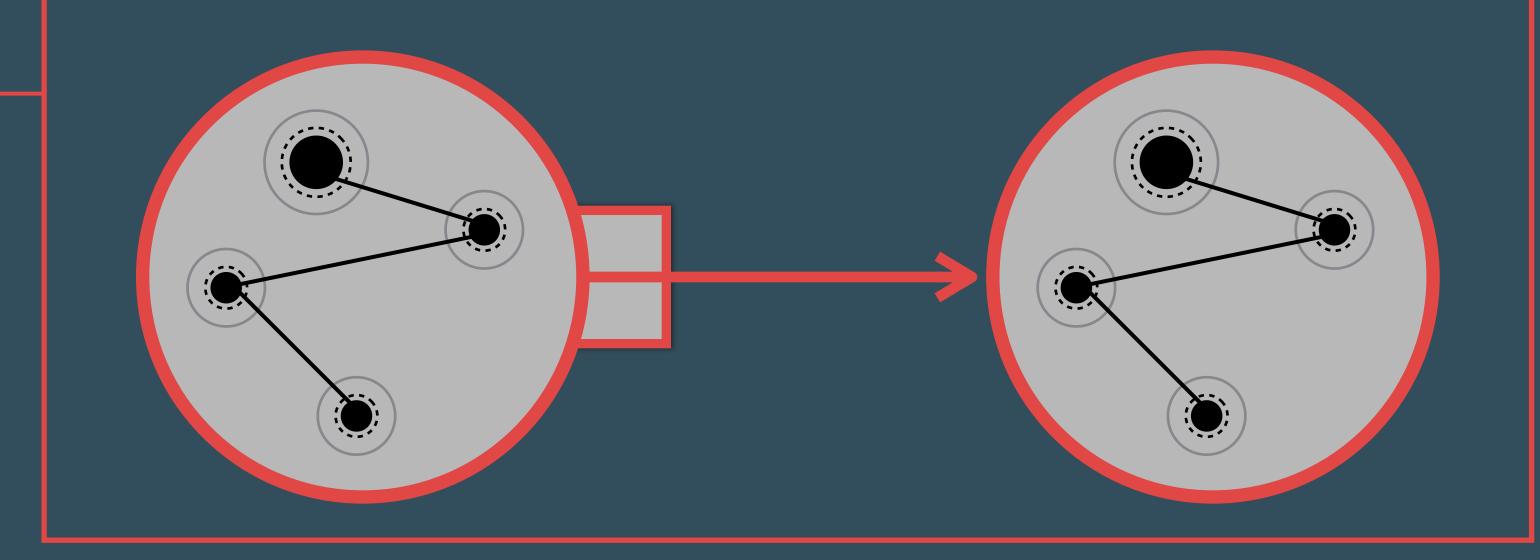
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The downstream team conforms to the model of the upstream team. There is no translation of models and no vetoing. If the upstream model is a mess, it propagates to the downstream model.



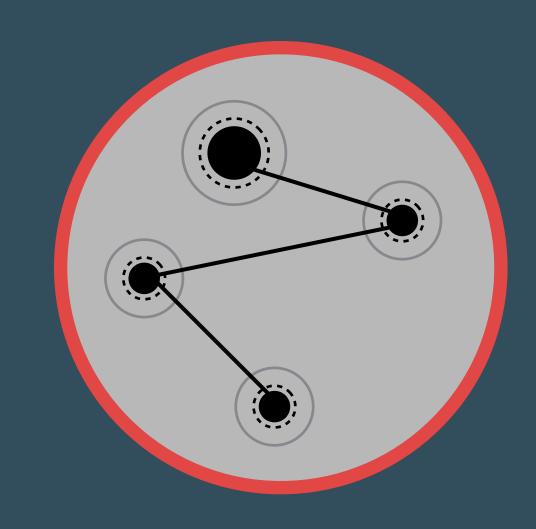
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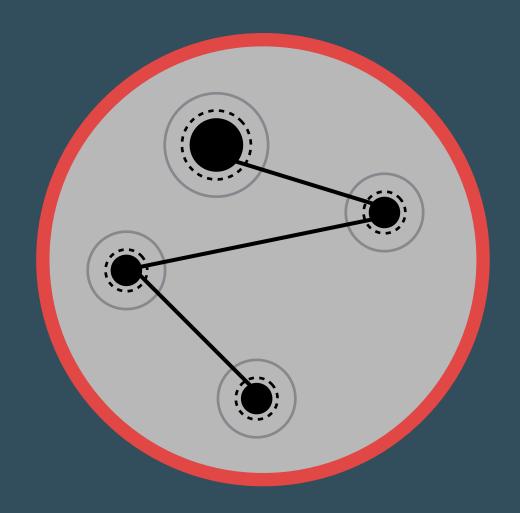
The anticorruption layer is a layer that isolates a client's model from another system's model by translation.



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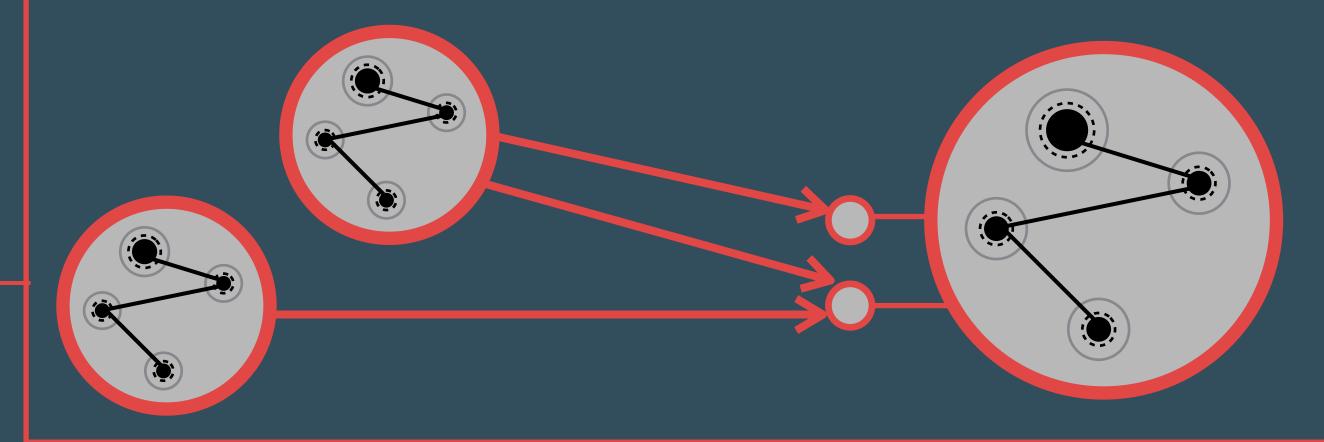
There is no connection between the bounded contexts of a system. This allows teams to find their own solutions in their domain.





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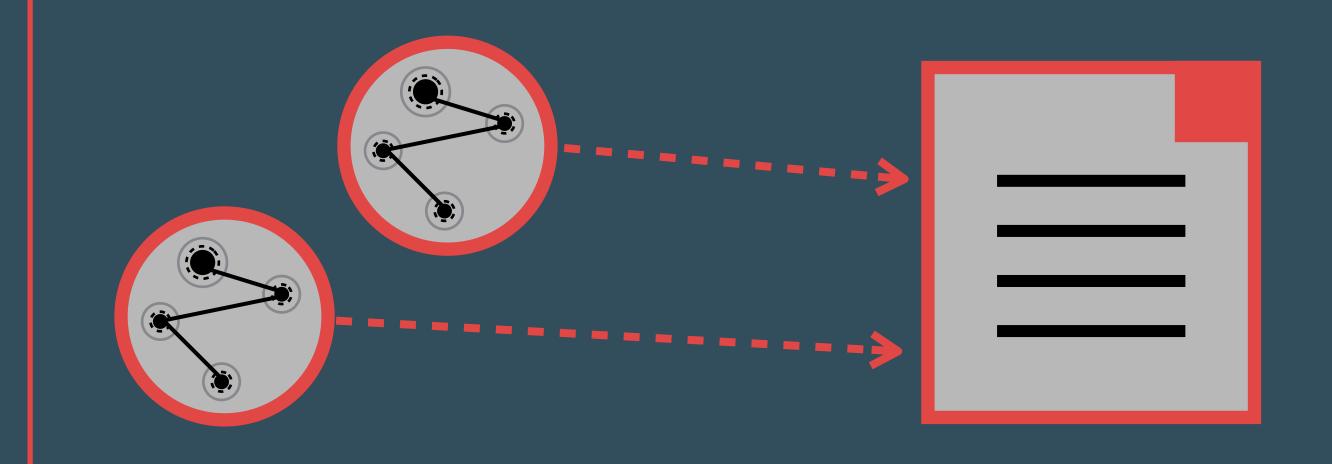
Each Bounded Context offers a defined set of services that expose functionality for other systems. Any downstream system can then implement their own integration. This is especially useful for integration requirements with many other systems.





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Published Language is quite similar to Open / Host Service. However it goes as far as to model a Domain as a common language between bounded contexts.

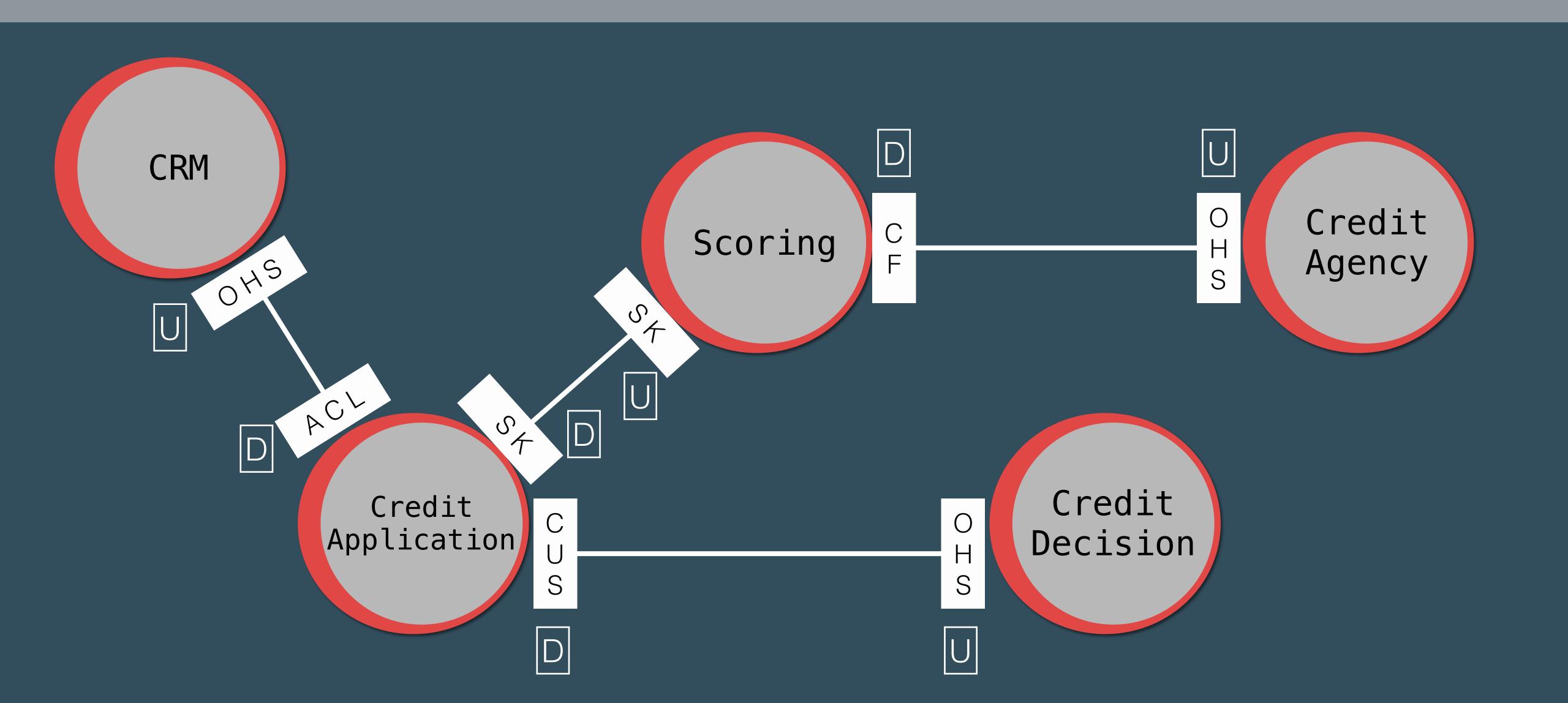




Context Map - Why?



Context Map



Example Spring Boot App



https://github.com/mploed/ddd-strategic-design-spring-boot

THANK YOU!



Michael Plöd - innoQ
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Contact me for DDD Trainings / Consulting