



Context Mapping in DDD

Bridging Teams and Systems with Strategic Insights

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Introduction to Context Mapping

- Essential tool in DDD
- Maps Relationships
- Depicts dependencies and interactions
- Assists in maintenance of existing systems
- Aids in design of new architectures
- Facilitates team collaboration and integration



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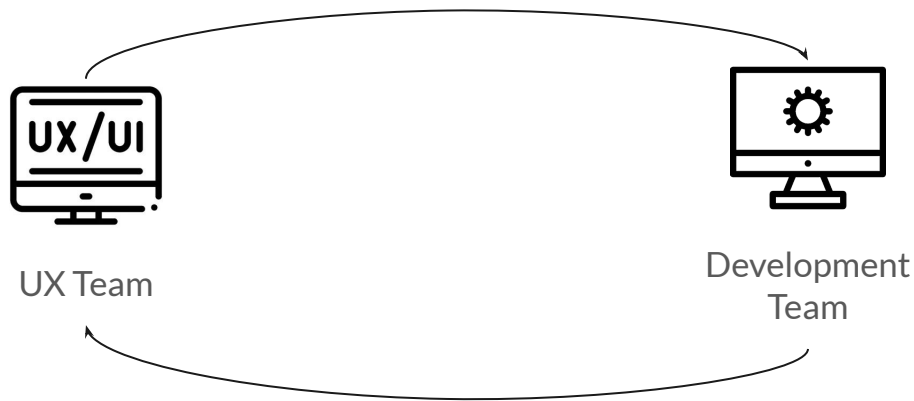
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Team Relationships: Deep Dive

Mutually Dependent

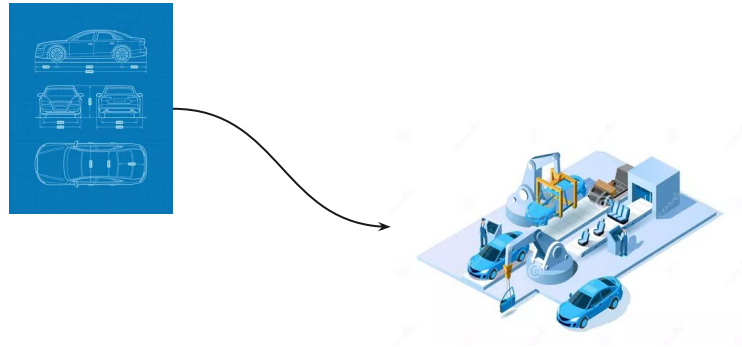
Two teams or bounded contexts are interdependent. Bilateral success is closely tied, and they often share data, functionality, and capabilities.



Team Relationships: Deep Dive

Upstream / Downstream

Actions of upstream team significantly impact the downstream team, but not vice versa.
The upstream team has more influence or control in the relationship.



Team Relationships: Deep Dive

Free

Teams or bounded contexts are independent; changes in one do not impact the other. There's no direct organizational or technical dependency.



HR
Management
Team



Trading
Platform
Team



Context Mapping: Deep Dive

Open-host Service

Offers access to your context as a set of strictly defined services.





Context Mapping: Deep Dive

Published Language

Well-documented shared language for model translation between contexts.





Context Mapping: Deep Dive

Conformist

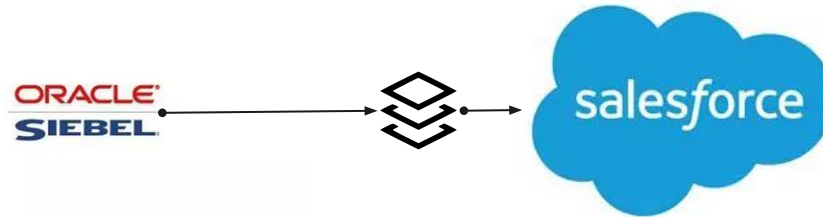
Downstream context strictly adheres to the upstream model, simplifying integration but limiting design flexibility.



Context Mapping: Deep Dive

Anticorruption Layer

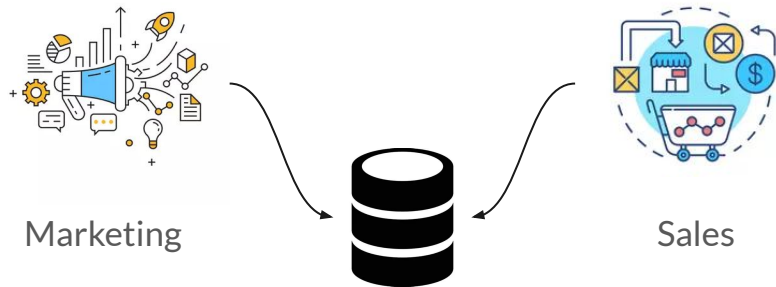
Acts as a buffer, translating between different models of upstream and downstream contexts, preserving downstream context integrity.



Context Mapping: Deep Dive

Shared Kernel

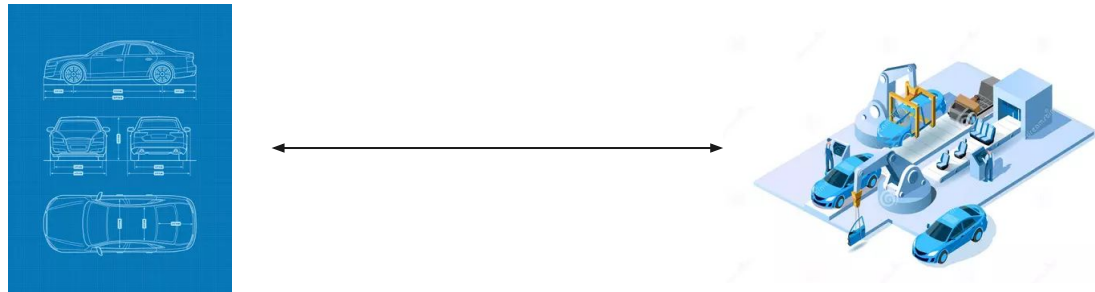
A shared part of the model and codebase between two contexts, requiring close collaboration.



Context Mapping: Deep Dive

Partnership

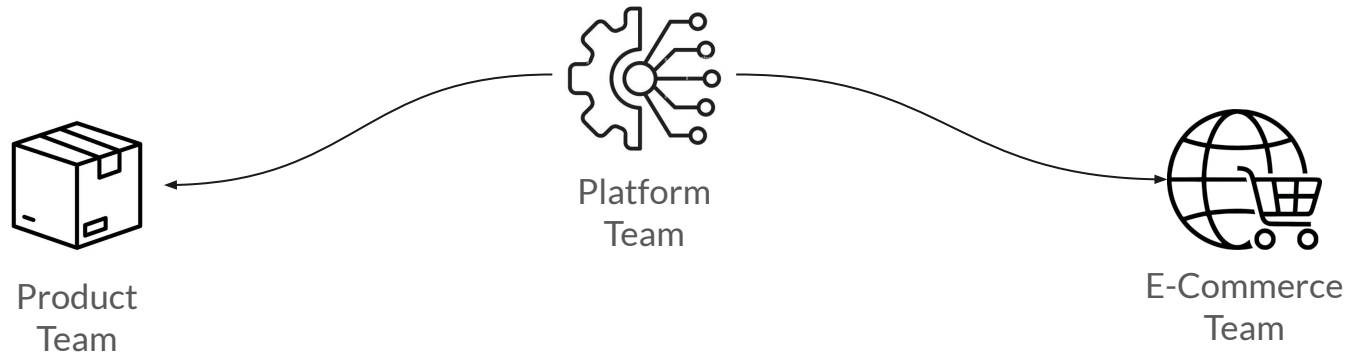
Close collaboration between contexts where each context's success is mutually dependent.



Context Mapping: Deep Dive

Customer / Supplier Development

Upstream context considers downstream context's needs in planning and development.



Context Mapping: Deep Dive

Separate Ways

Contexts operate independently with no significant relationship



HR
Management



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Platform

Context Mapping: Deep Dive

Big Ball Of Mud

Contexts operate independently with no significant relationship

The screenshot displays the 'Advanced Drilling Mud Reporting' software interface. It features a sidebar on the left with a tree view of data points. The main area contains several tables and summary sections:

- Active pits:** A table with columns for Pit, Material, Vol (m3), and Mud. It lists active pits 1 through 5.
- Active volume tracking:** A table with columns for Additions, Vol (m3), and Mud. It lists additions such as Other mud, Base fluid, Water, Products, Weight materials, Formation, and Cuttings.
- Transfer:** A table with columns for From storage, Vol (m3), and Mud. It lists transfers to storage and return.
- Summary:** A table with columns for Item (m3), Pit (m3), Outgoing vol (m3), Start vol (m3), Addition (m3), Loss (m3), From storage (m3), To storage (m3), Return (m3), End vol (m3), and Total vol (m3). It provides a summary of the drilling mud volume.
- Storage/Reserve pits:** A table with columns for Pit, Material, Vol (m3), and Mud. It lists storage/reserve pits 1 through 5.
- Reserve pit loss:** A table with columns for Loss, Vol (m3), and Mud. It lists losses such as Dump, Repositioning, and PLS cleaning.
- Transfer:** A table with columns for Loss, Vol (m3), and Mud. It lists transfers to storage and return.
- Summary:** A table with columns for Total storage vol (m3), Total on location (m3), Cum. based vol (m3), and Vol. difference (m3). It provides a summary of the drilling mud volume.



Context Mapping: Why?



Clarity



Context Mapping: Why?



Clarity



Risk Mitigation



Context Mapping: Why?



Clarity



Communication



Risk Mitigation



Context Mapping: Why?



Clarity



Communication



Risk Mitigation



Maintenance



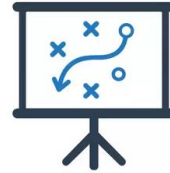
Context Mapping: Why?



Clarity



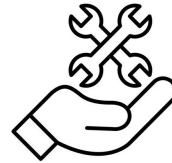
Communication



Strategy



Risk Mitigation



Maintenance



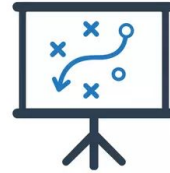
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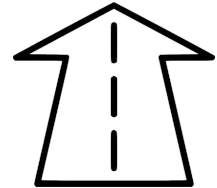
Strategy



Risk Mitigation



Maintenance



Evolution



Context Mapping: Watch out!



Time & Resources
Intensive



Context Mapping: Watch out!



Time & Resources
Intensive



Misinterpretation &
Conflict



Context Mapping: Watch out!



Time & Resources
Intensive



Complexity



Misinterpretation &
Conflict



Context Mapping: Watch out!



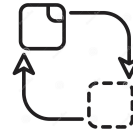
Time & Resources
Intensive



Complexity



Misinterpretation &
Conflict



Rapid changes



Context Mapping: Watch out!



Time & Resources
Intensive



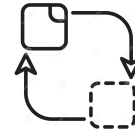
Complexity



Requires
expertise



Misinterpretation &
Conflict



Rapid changes



Q&A

Sources:
<https://github.com/ddd-crew/context-mapping/tree/master>



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