

# 限界上下文的实践意义

张逸



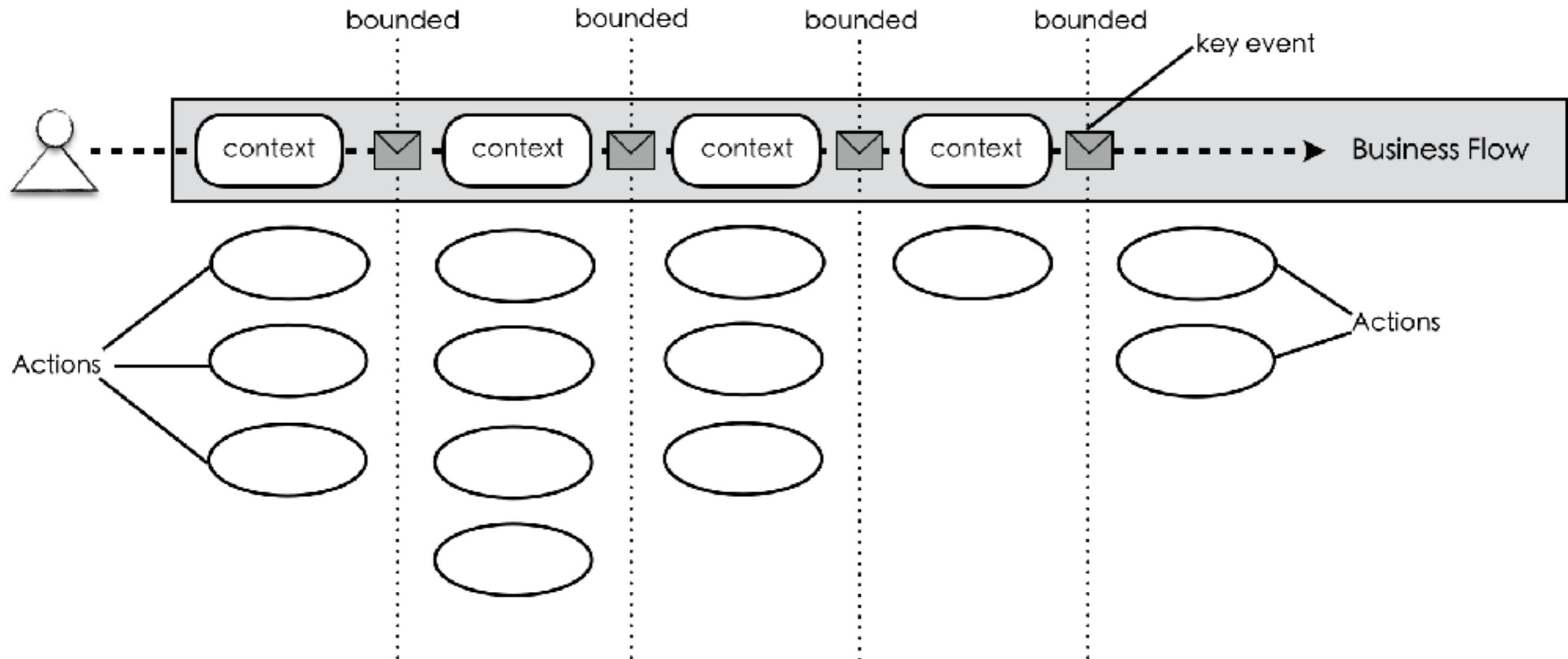
# 理解界限上下文的定义

1. the definition of a word can be easily found in a dictionary. 2. But the dictionary definition really doesn't give the true meaning of that word. 3. The Bible contains certain words that have real impact when we come to realize their true definition. 4. This definition comes to life when we begin to think, speak and act based on what these words really mean. (circa May 12 – June 16, 2013)

**de·fin·i·tive** (di-fin-i-tiv) adjective

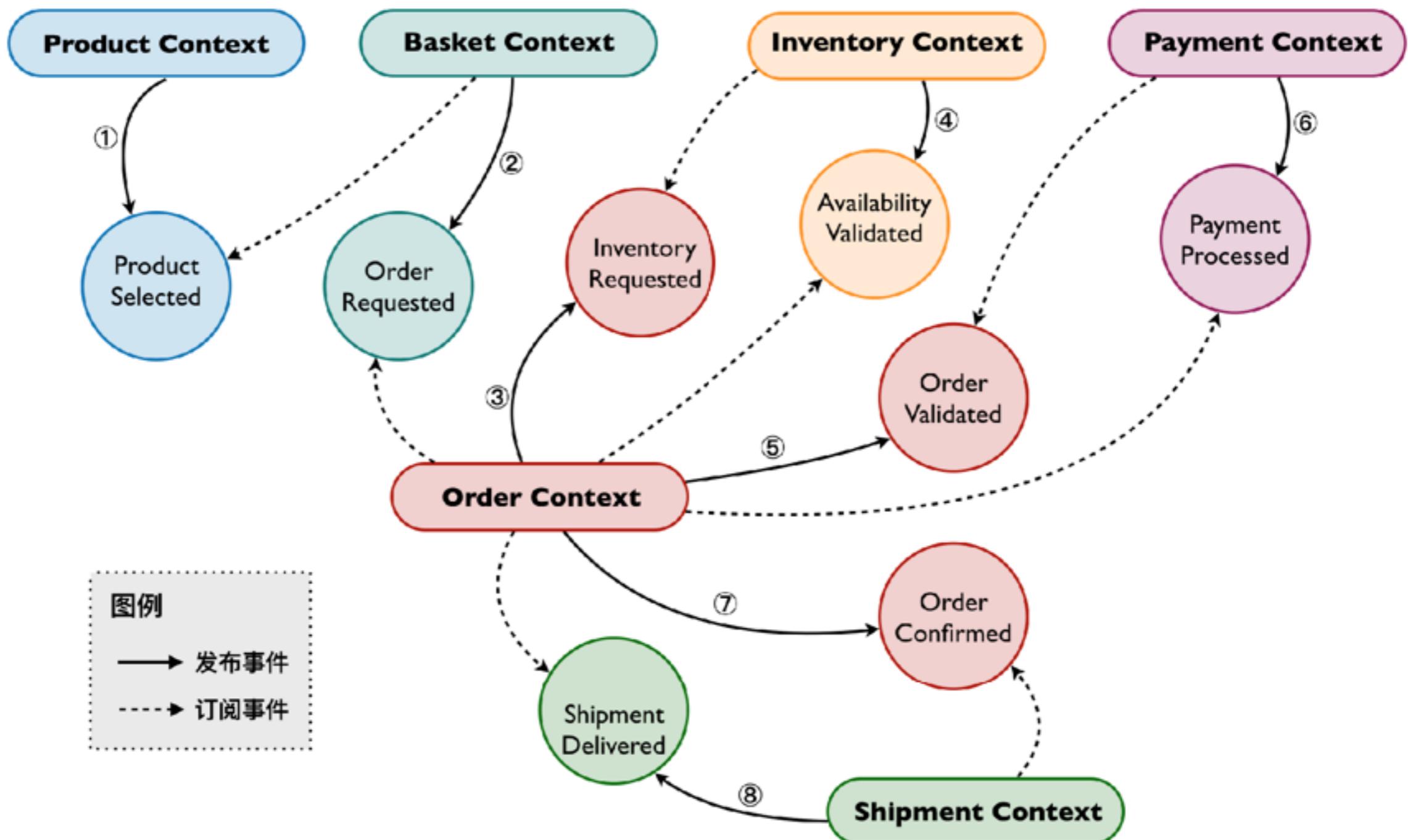
1. serving to provide a final solution or to settle a question definitely and apparently; conclusive

# 限界上下文的意义



Context是动态的业务流程被边界（Bounded）静态切分的产物

# 电商系统的购物流程

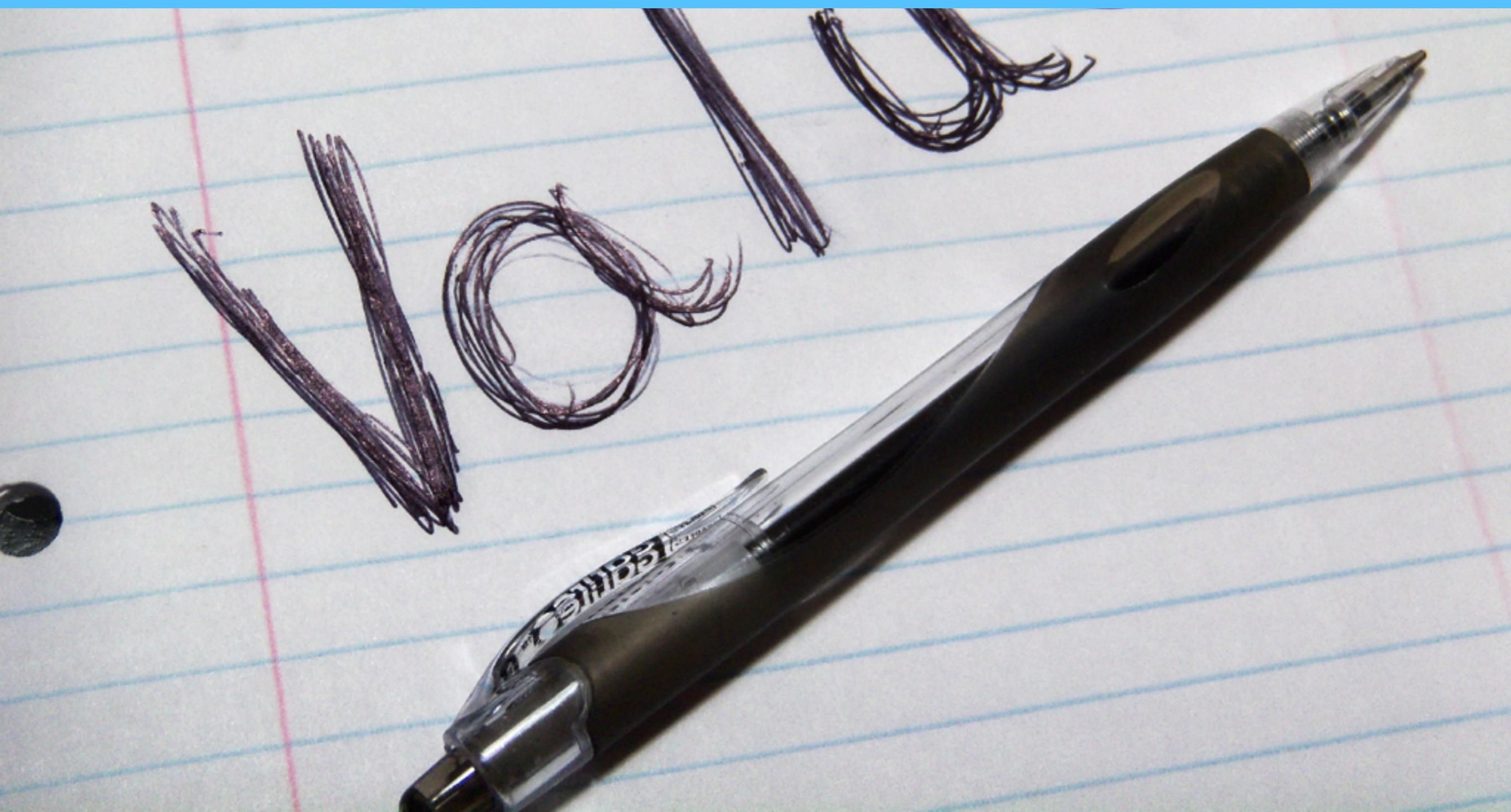


# 上下文的切换

ID	Key Event	Source Context	Target Context
1	ProductSelected	Product Context	Basket Context
2	OrderRequested	Basket Context	Order Context
3	InventoryRequested	Order Context	Inventory Context
4	AvailabilityValidated	Inventory Context	Order Context
5	OrderValidated	Order Context	Payment Context
6	PaymentProcessed	Payment Context	Order Context
7	OrderConfirmed	Order Context	Shipment Context
8	ShipmentDelivered	Shipment Context	Order Context

关键事件 (key event) 触发业务流程中上下文的切换

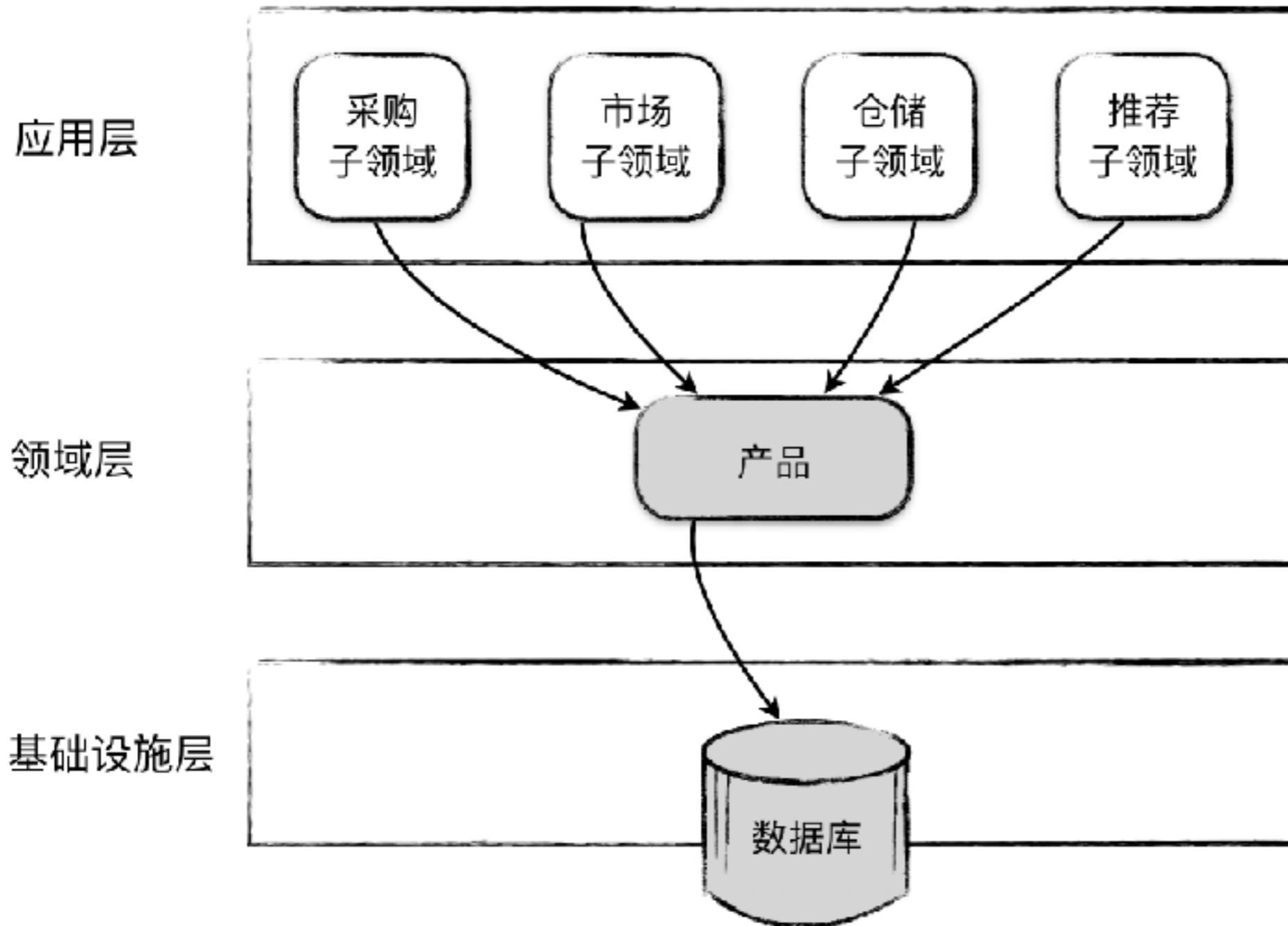
# 理解限界上下文的价值





限界上下文确定了业务边界

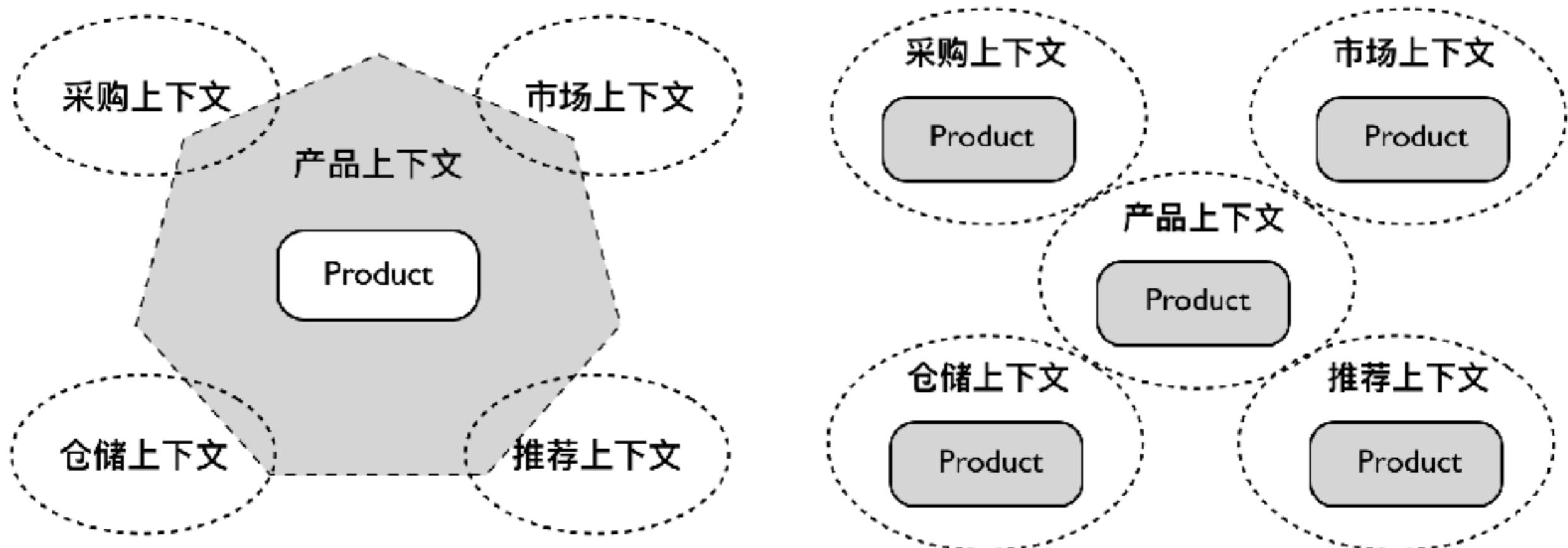
# 产品的概念



# Product上帝类

```
1 public class Product {  
2     private Identity id;  
3     private String name;  
4     private Category category;  
5     private Period leadTime;  
6     private int minimumOrderQuant;  
7     private Weight weight;  
8     private Volumn volumn;  
9     private int quantity;  
10    private long annualSales;  
11    private long favoritePoints;  
12    private long positiveComments;  
13    private long negetiveComments;  
14  
15    public Price priceFor(CustomerType customerType) {}  
16    public PurchaseOrder buyFrom(Supplier supplier) {}  
17    public Location allocate() {}  
18    public bool isFragile() {}  
19    public Image[] loadImagesFrom(String filePath) {}  
20    public Recommendations similar() {}  
21 }
```

# 限界上下文确定了业务概念

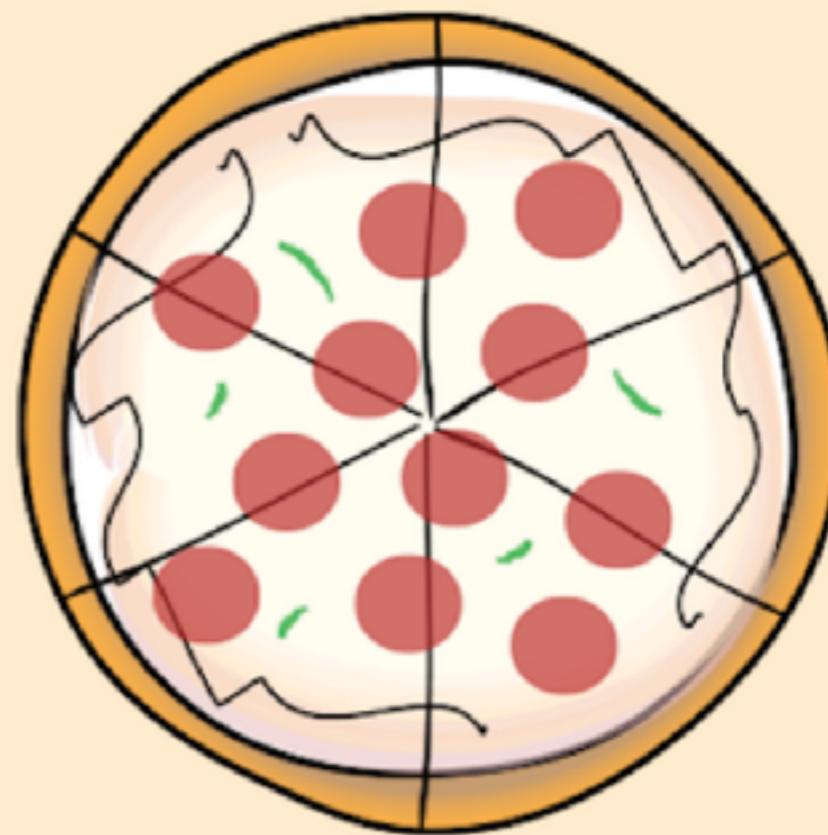
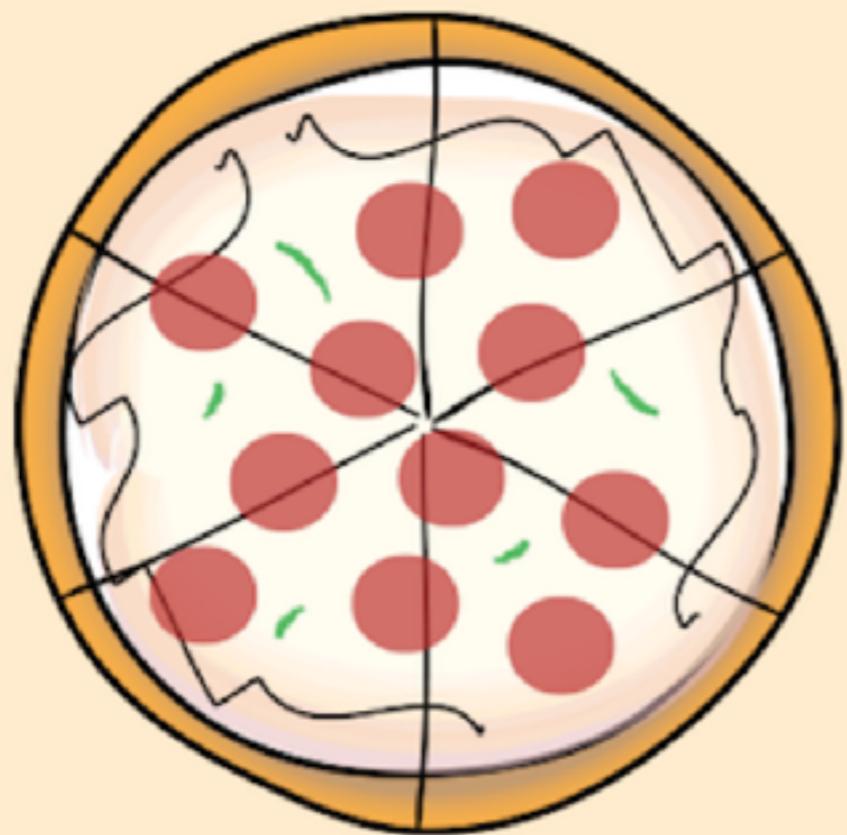




**限界上下文确定了工作边界**

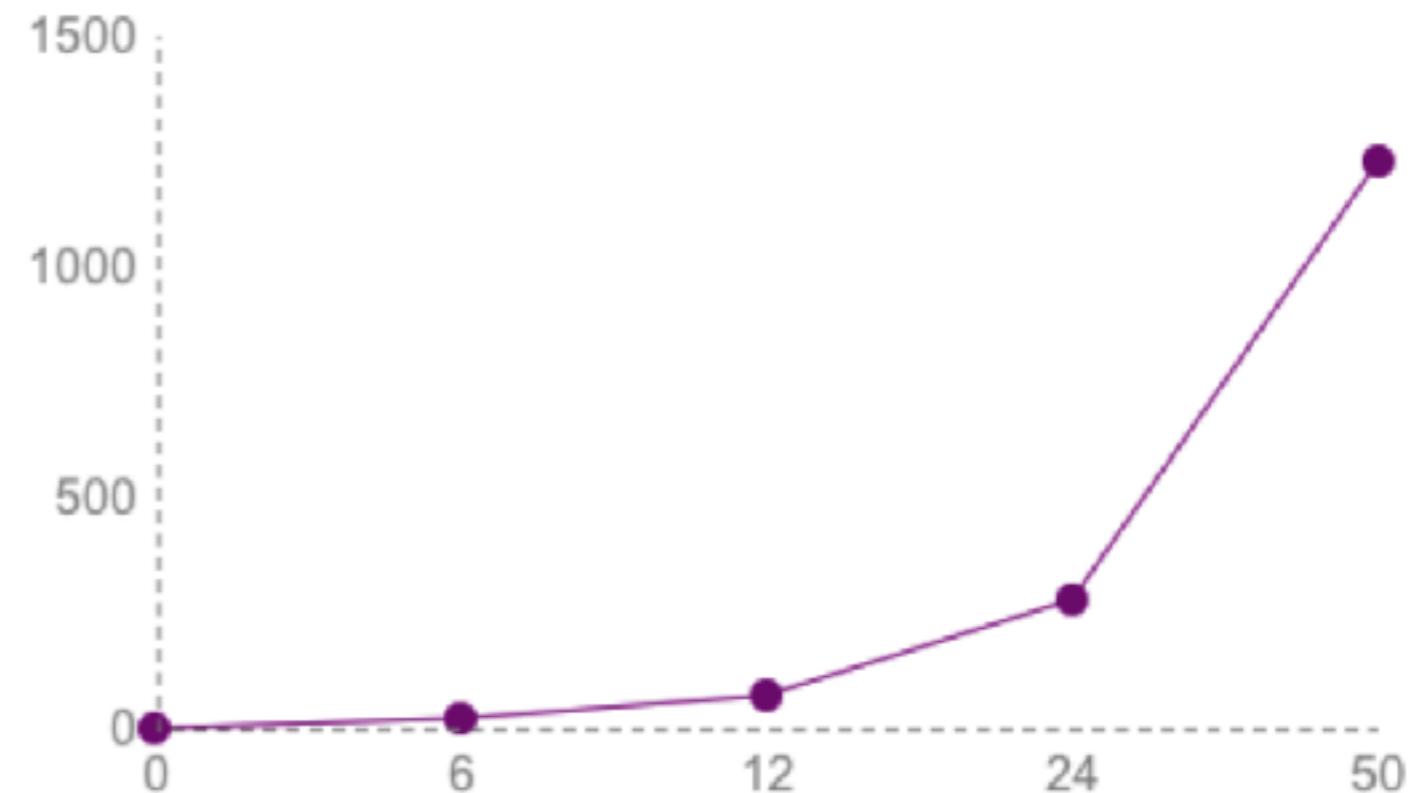
# 2PTs规则

Two Pizza Teams == Effective Communication

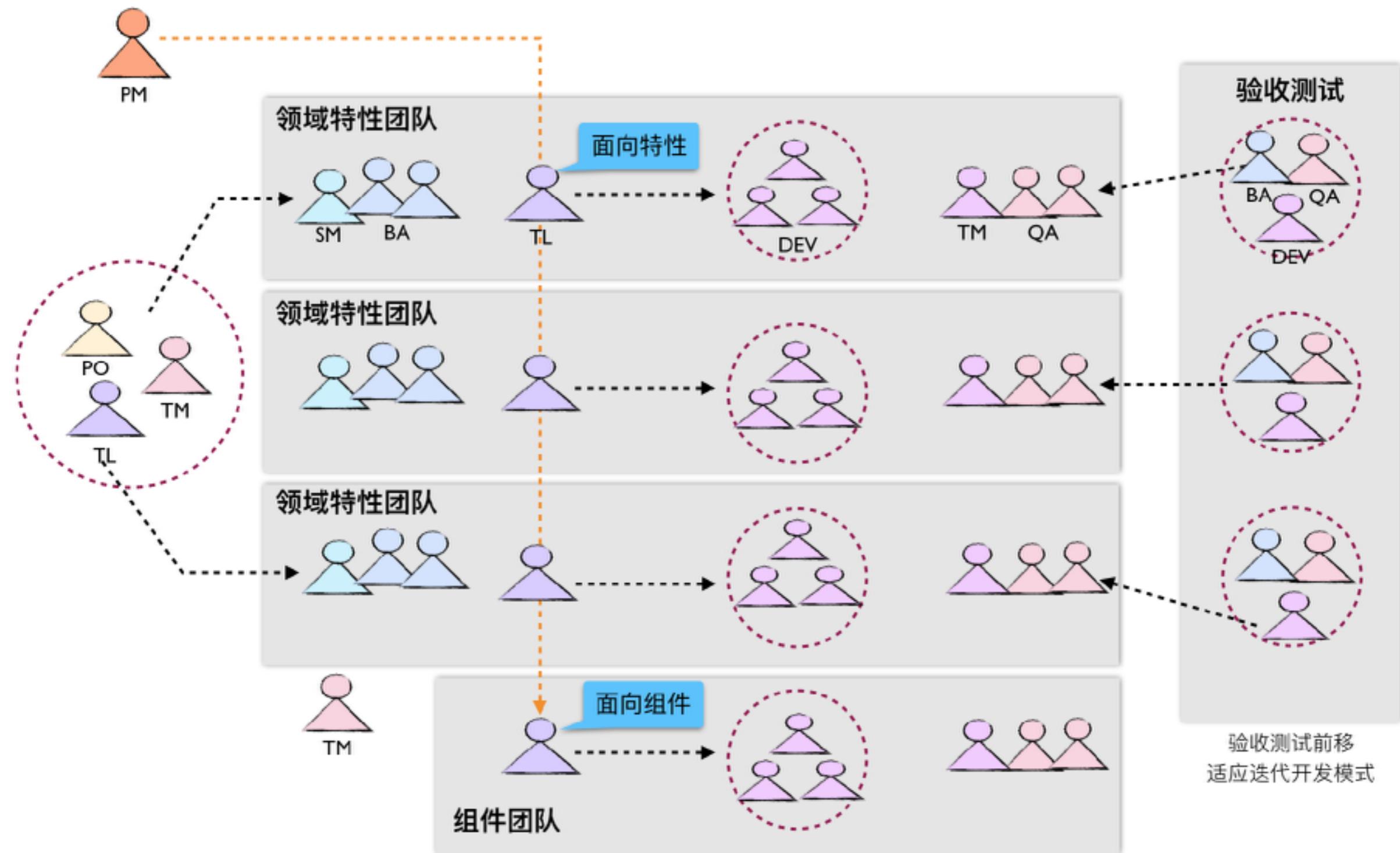


# 2PTs规则的数学依据

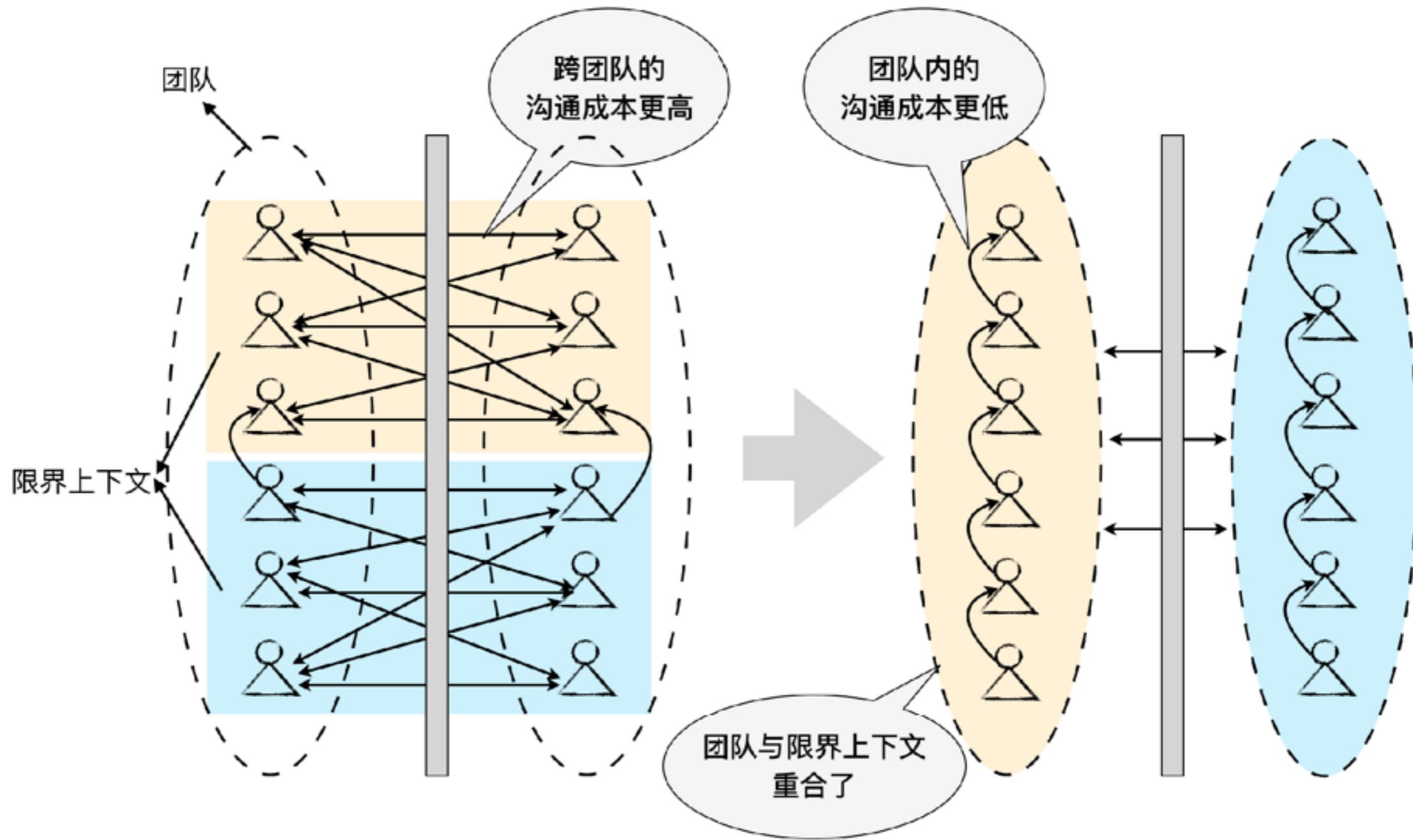
$$N(link) = \frac{n(n - 1)}{2}$$



# 特性团队



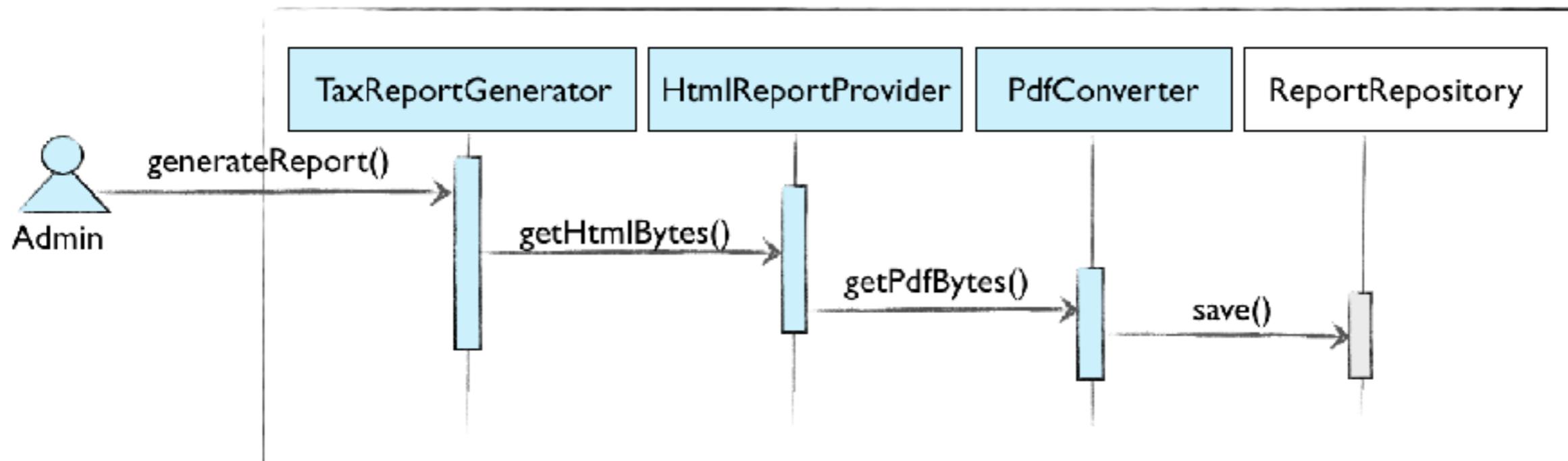
# 康威定律





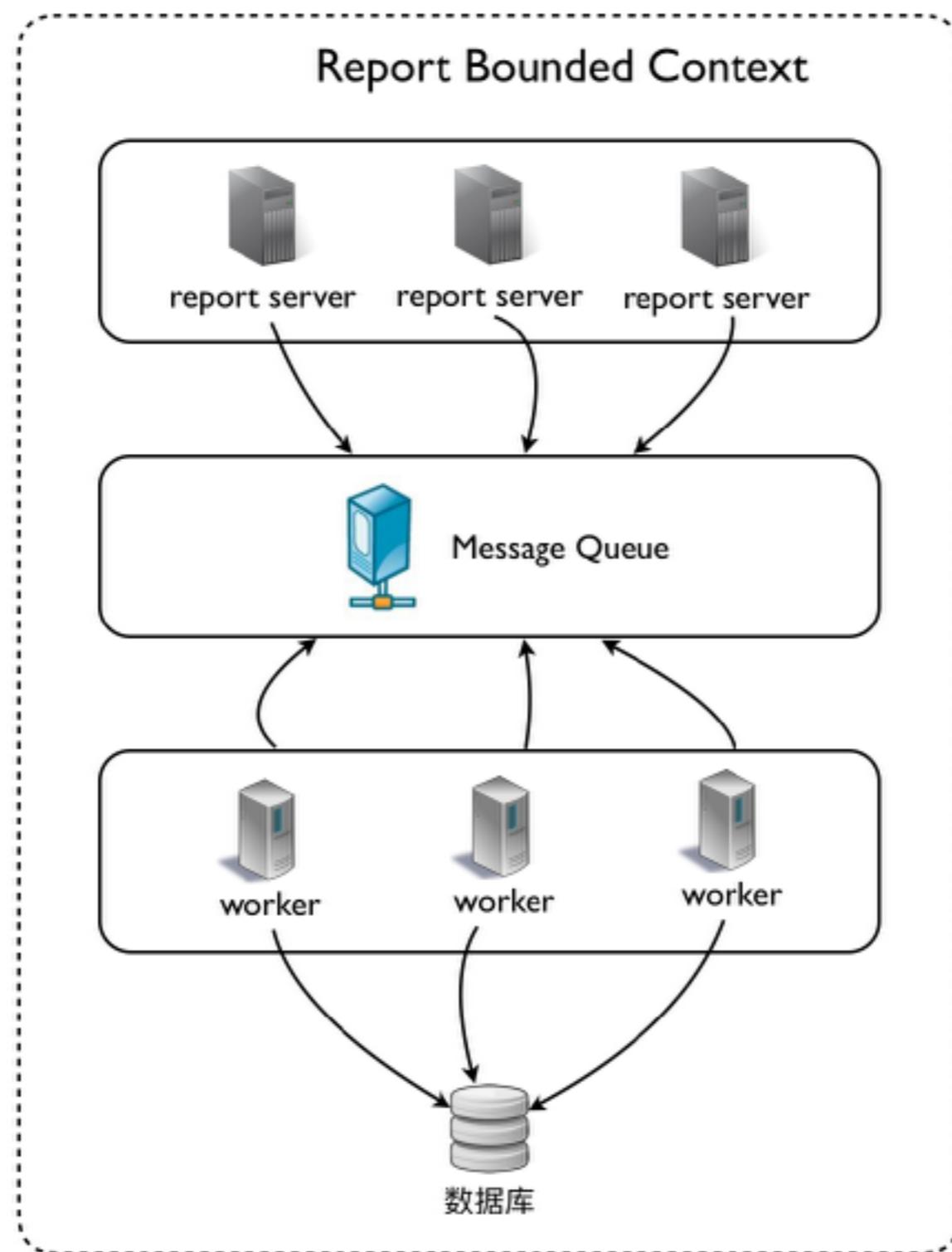
限界上下文确定了应用边界

# 生成报告文件的技术风险



```
1 public void generateReports(String calendarReportName) {
2     Byte[] bytes = provider.getHtmlBytes(calendarReportName);
3     Byte[] pdfBytes = converter.getPdfBytes(bytes, provider.getTitle());
4     repository.save(new TaxReport(pdfBytes));
5 }
```

# 定义单独的Report上下文



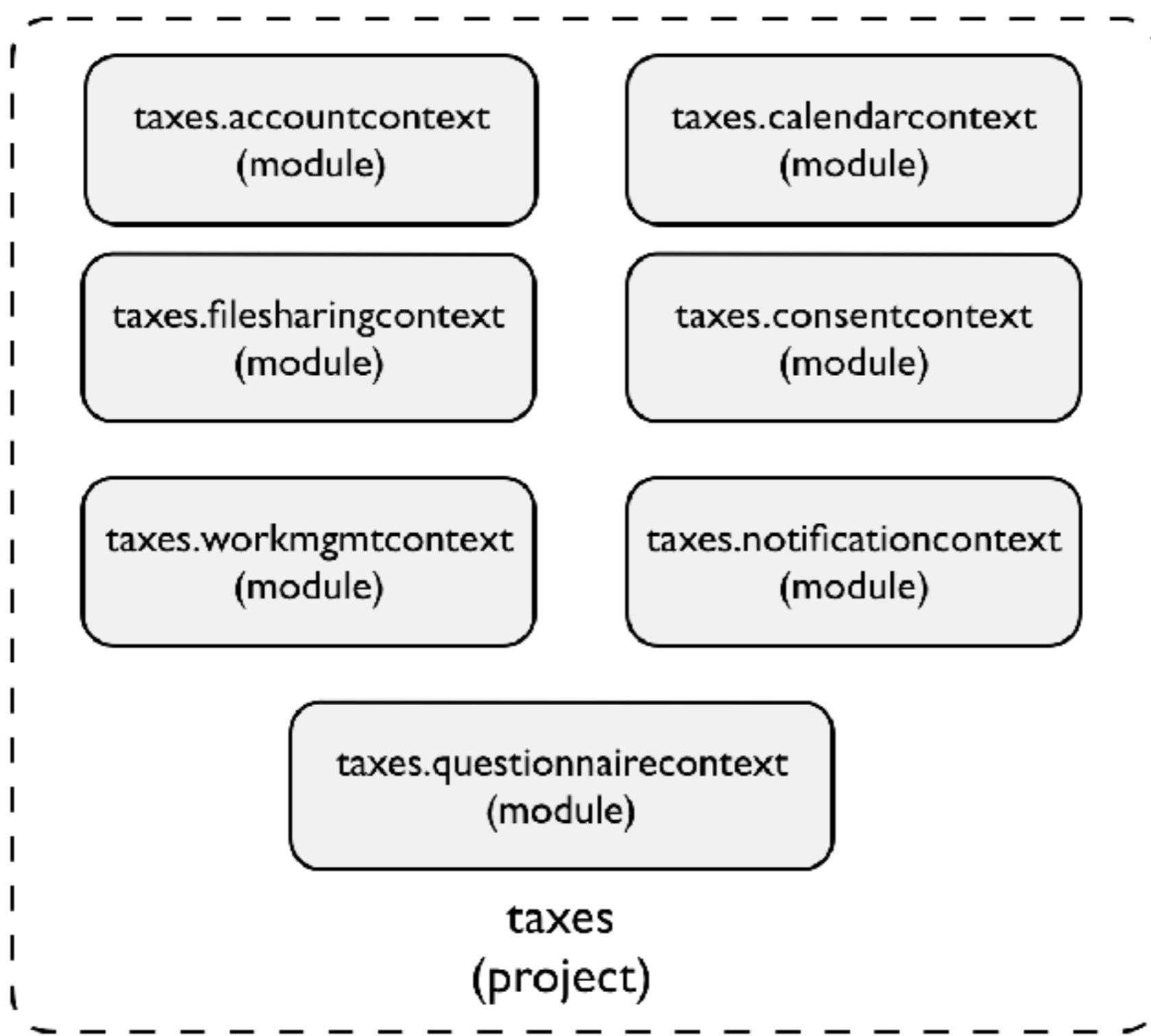
限界上下文的边界





逻辑边界

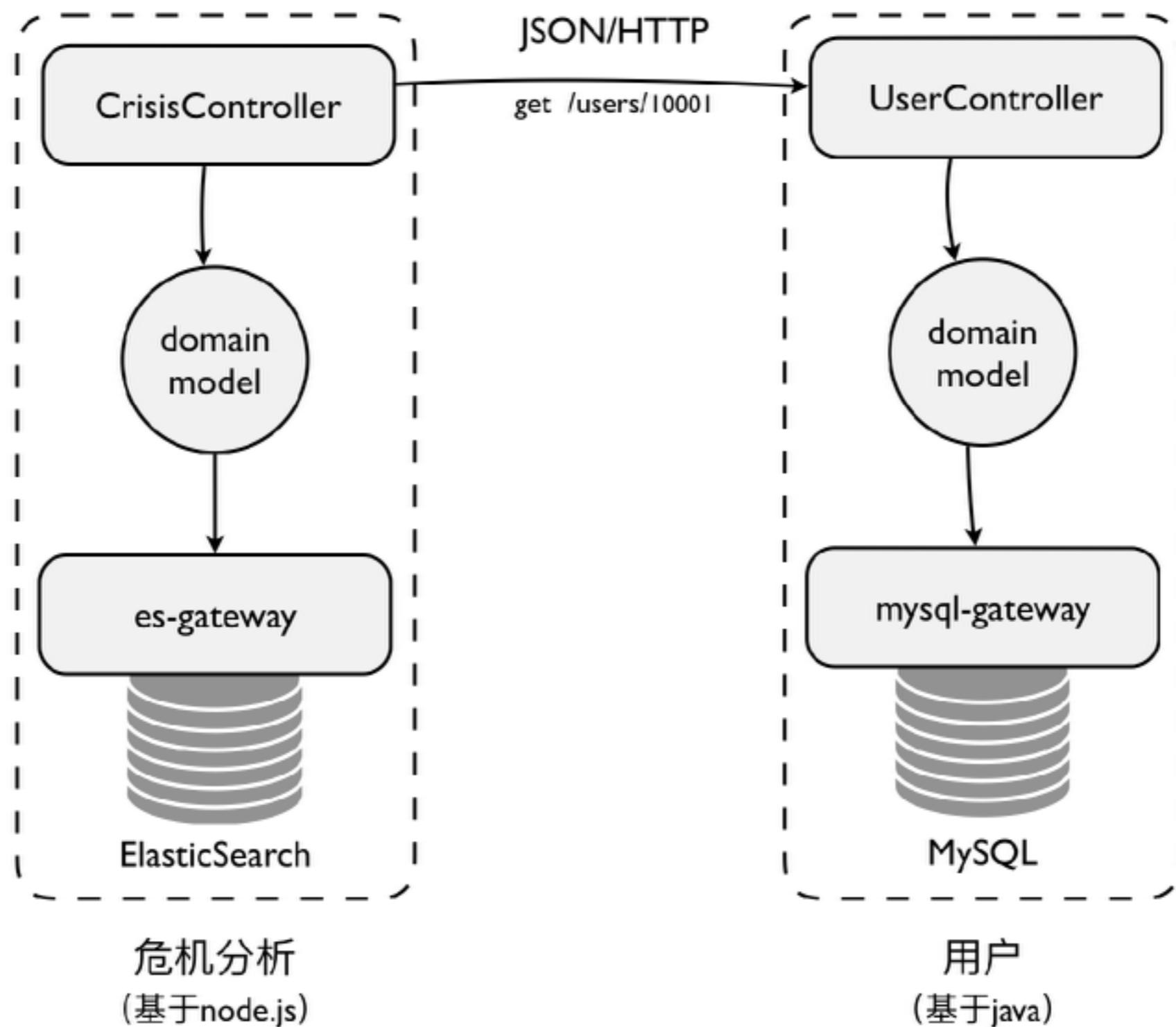
# 模块级别的逻辑边界



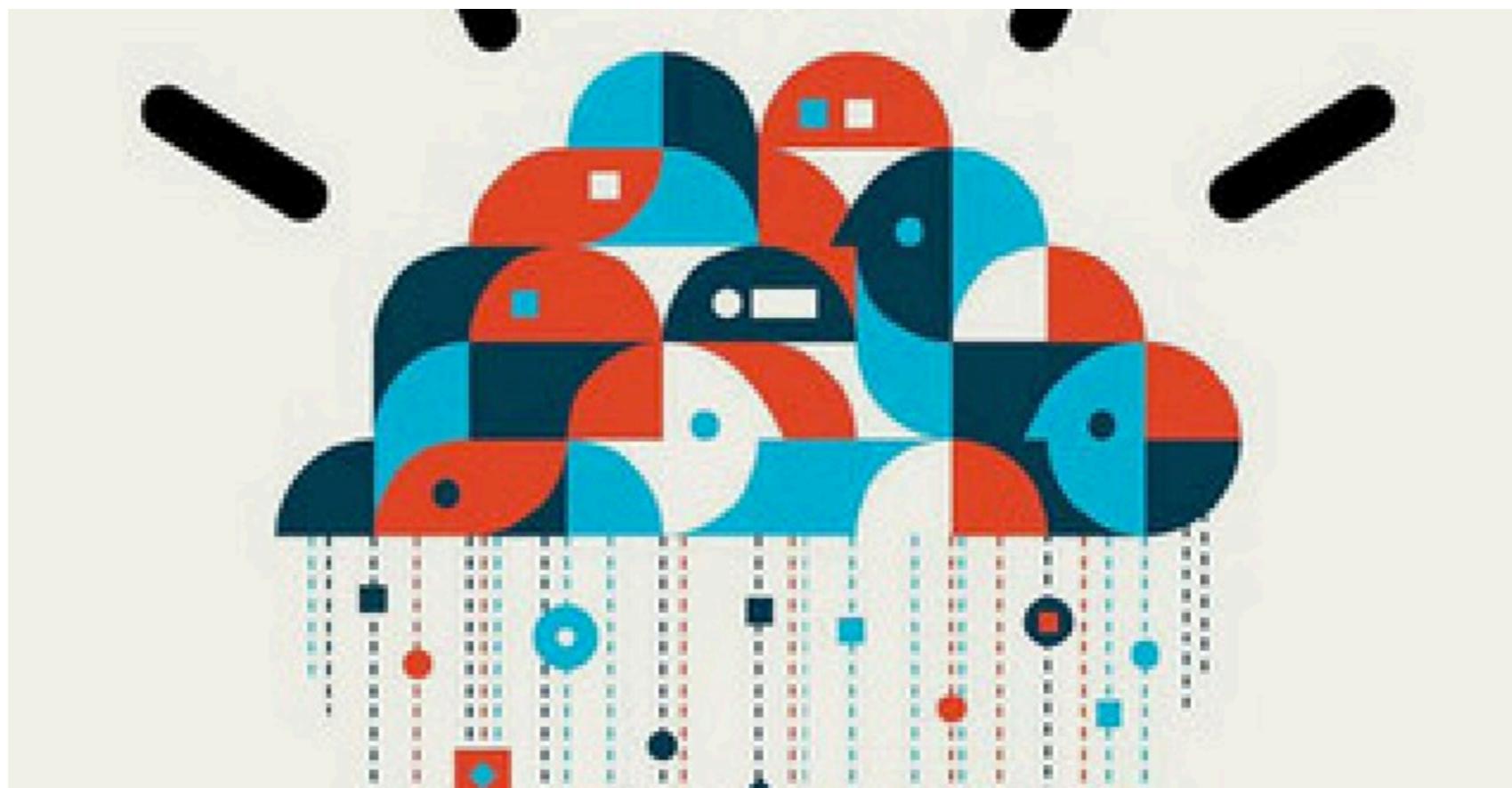


物理边界

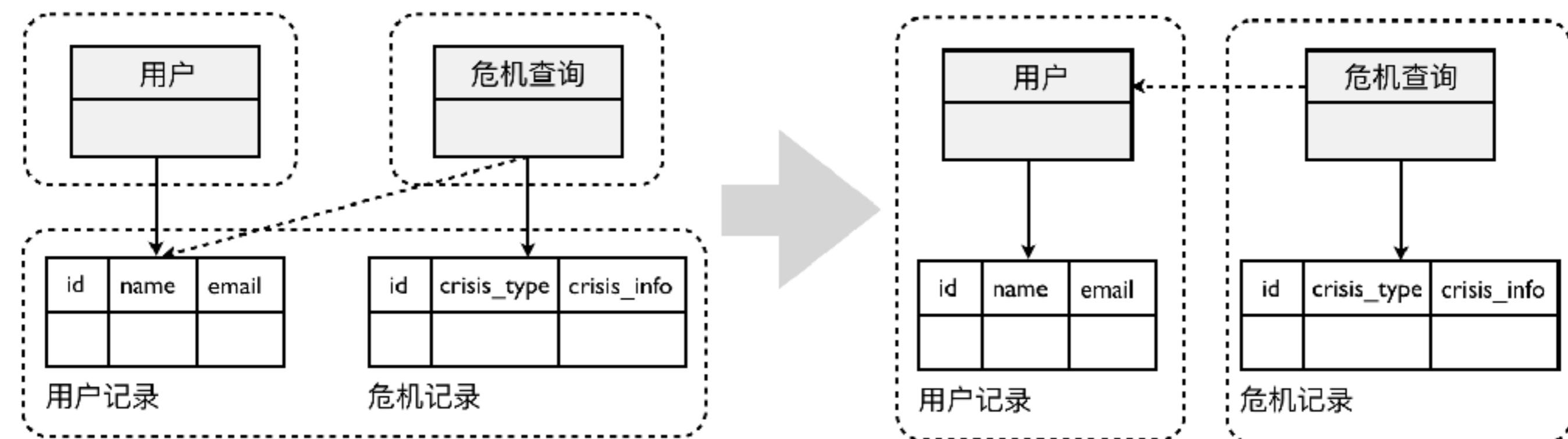
# 危机分析系统的物理边界



# 数据库共享



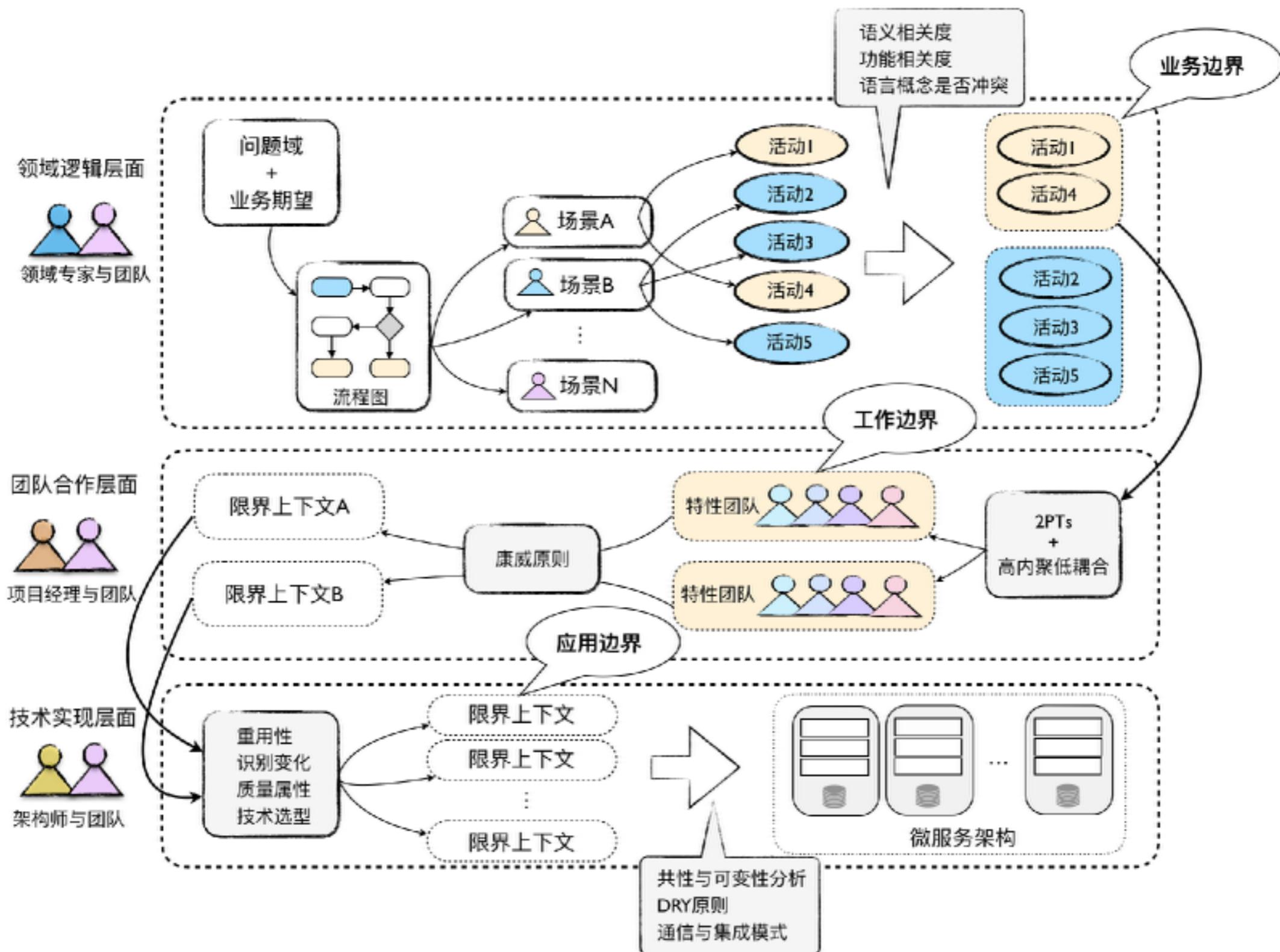
# 切断数据库的耦合



# 识别限界上下文



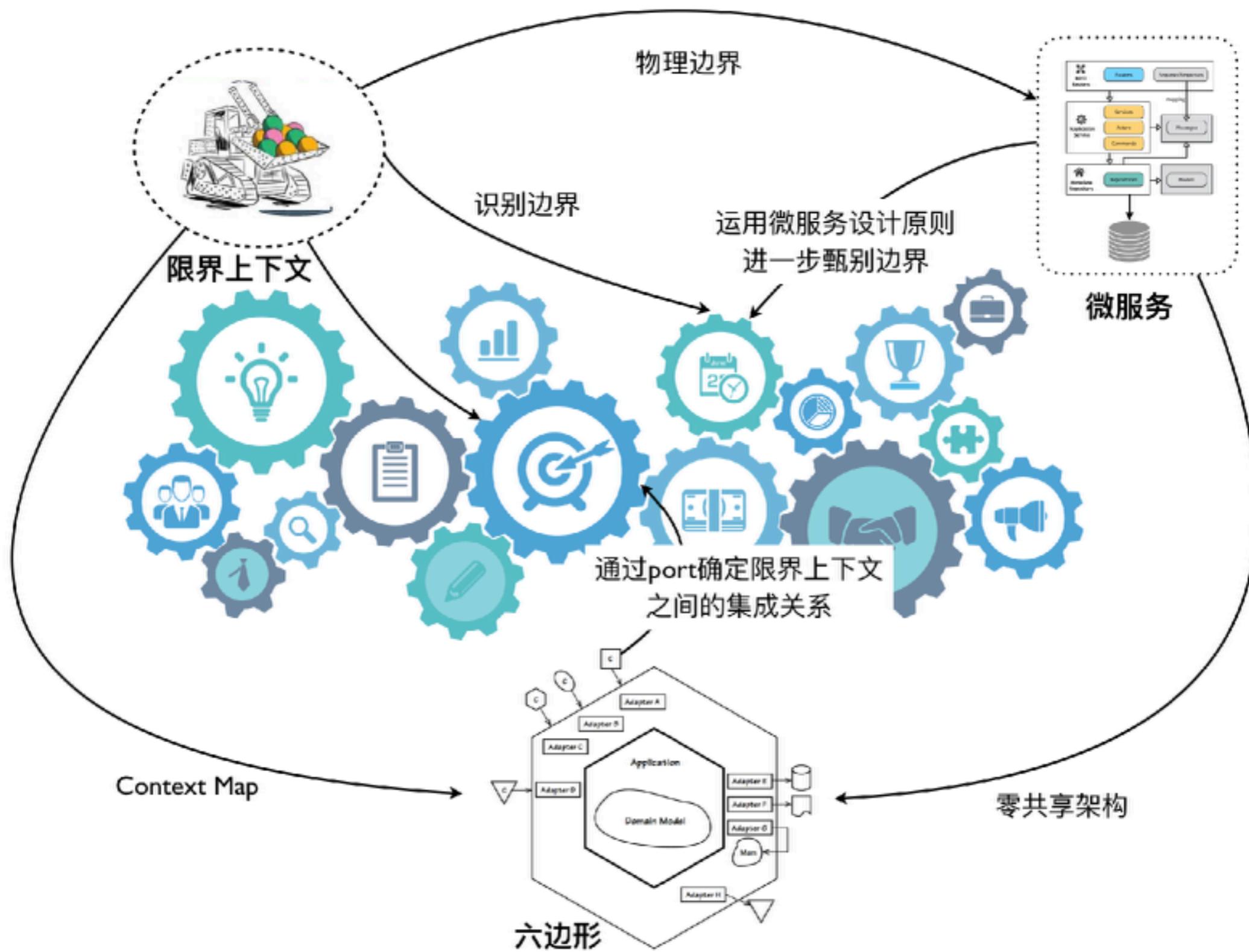
# 识别上下文的方法



# 六边形 限界上下文 微服务



# 三者之间的关系





Thanks, Bro