

THE DDD DREAM

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EVOLVING WITH THE CHANGING  
REQUIREMENTS



@indu\_alagarsamy  
Developer



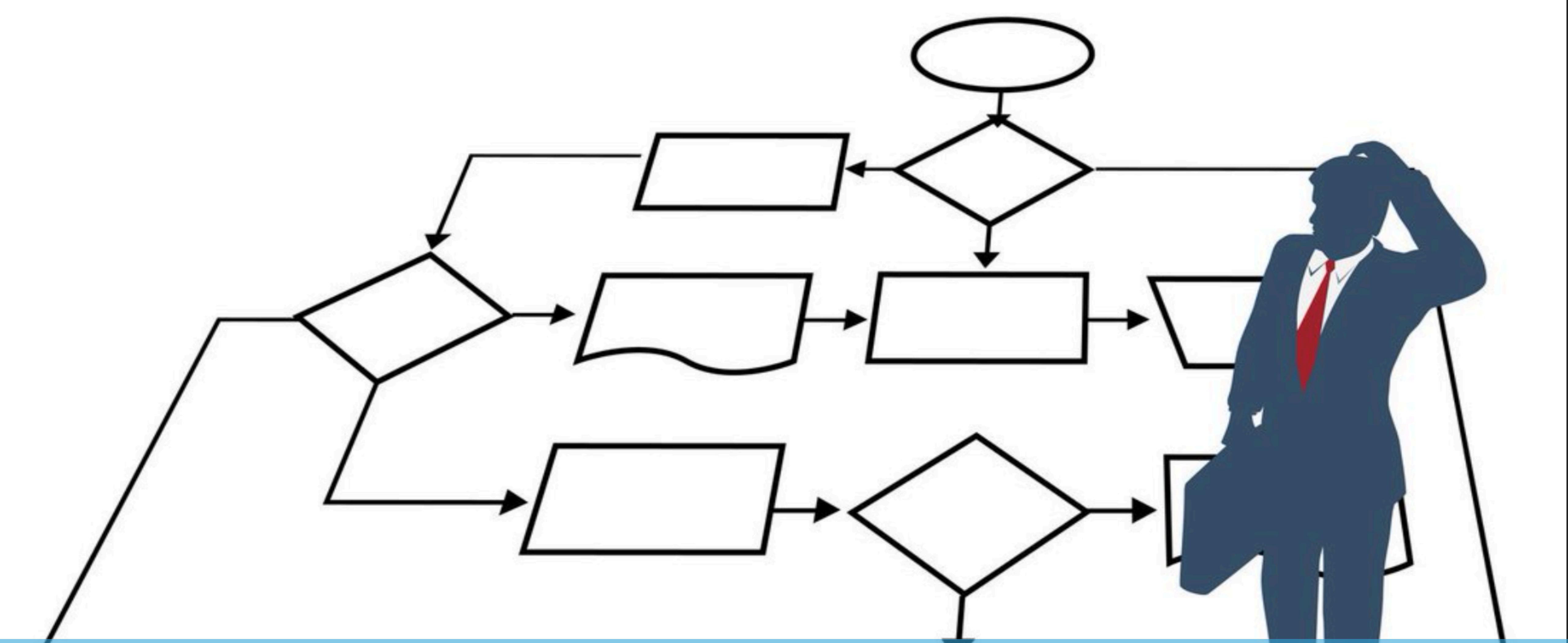


**'To improve is to change;  
To be perfect is to change often'**

**- Winston Churchill**

# Business Process

Mycenae, Greece



# Modeling a Process ?

AmericanAirlines  
**AAdvantage**



The background of the slide is a photograph of a clear blue sky with scattered white clouds, suggesting a high altitude or aerial perspective.

**GOLD**

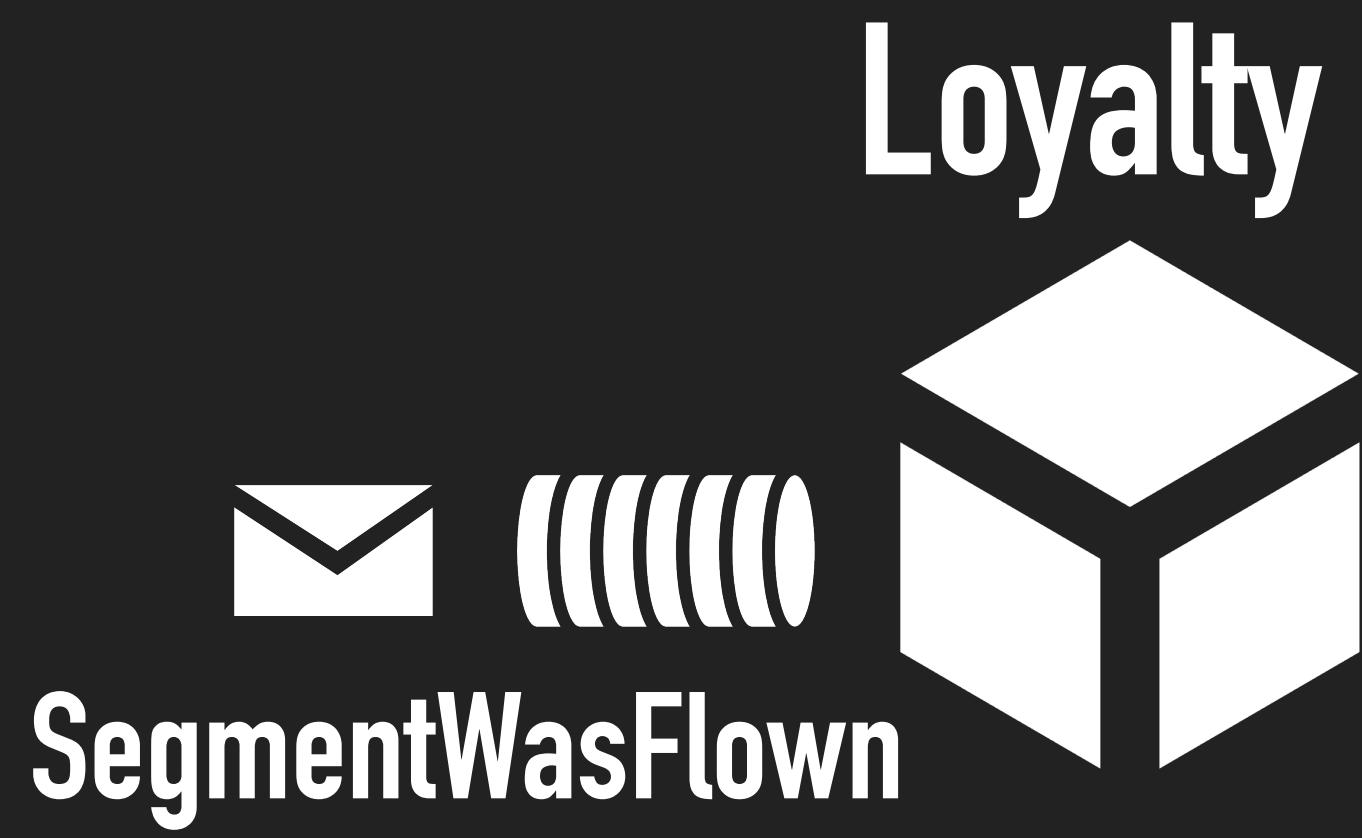
- 25000 miles or 30 Segments

**PLATINUM**

- 50000 miles or 60 Segments

**EXEC PLATINUM**

- 100000 miles or 120 Segments



```
class FlightPlanWasAddedHandler :  
    IHandleMessages <SegmentWasFlown>  
{  
    public void Handle (SegmentWasFlown msg)  
    {  
        if (CustomerQualifies (msg.CustomerId))  
        {  
            context.Publish (CustomerWasPromotedToGold);  
        }  
    }  
}
```

GOLD

- **25000 miles or 30 Segments and \$3,000**

PLATINUM

- **50000 miles or 60 Segments and \$6,000**

PLATINUM PRO

- **75000 miles or 90 Segments and \$9,000**

EXEC PLATINUM

- **100000 miles or 120 Segments and \$12,000**

**BOOKING**  
BOUNDED CONTEXT

**LOYALTY**  
BOUNDED CONTEXT

**PAYMENTS**  
BOUNDED CONTEXT

A Business Process may need to coordinate  
different steps that happen in multiple contexts

# Commands & Events

[http://images.fanpop.com/images/image\\_uploads/300-Movie-Publicity-Still-300-222345\\_1500\\_790.jpg](http://images.fanpop.com/images/image_uploads/300-Movie-Publicity-Still-300-222345_1500_790.jpg)

# Ubiquitous Language

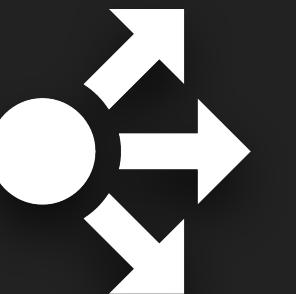


## BOOKING BOUNDED CONTEXT



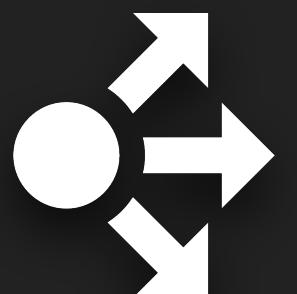
ReservationWasConfirmed

## LOYALTY BOUNDED CONTEXT



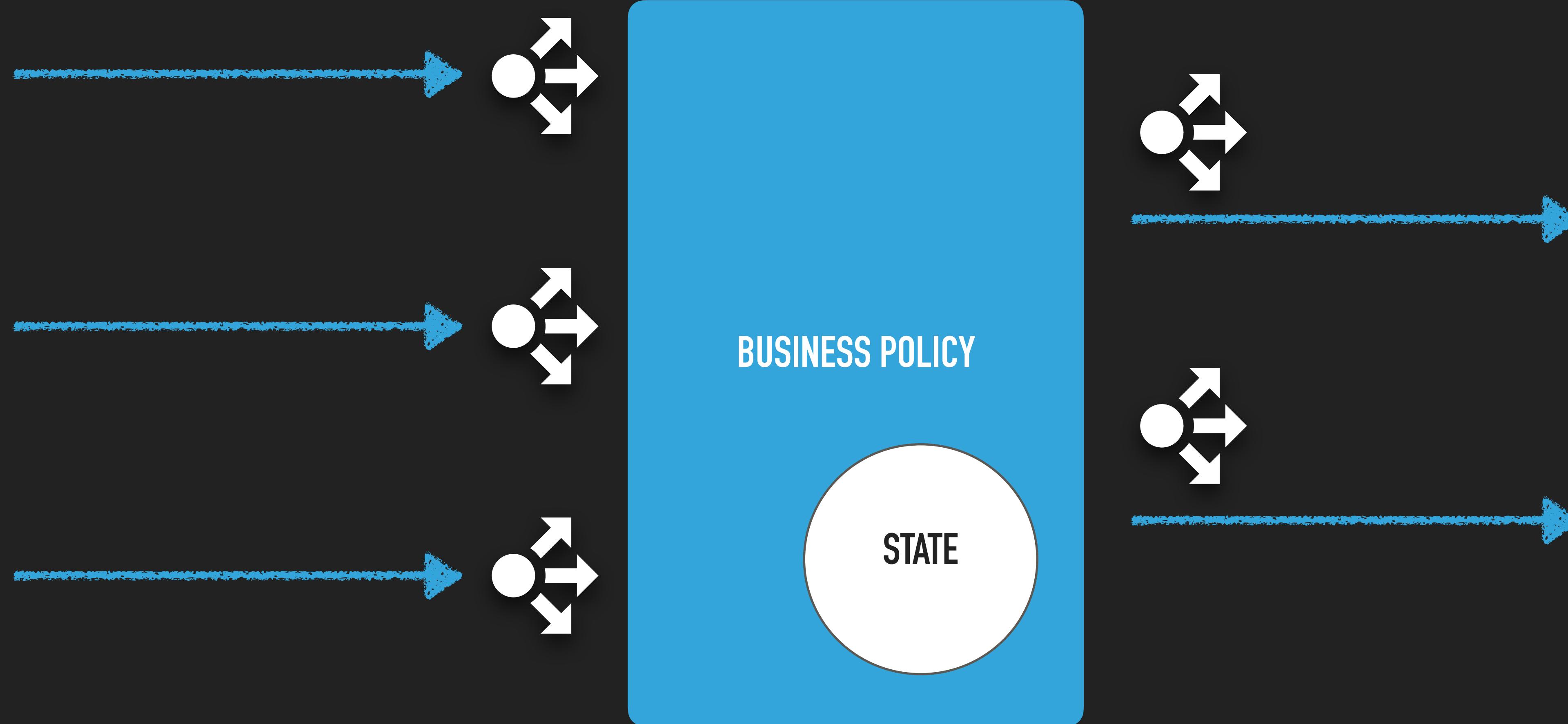
SegmentWasFlown

## PAYMENTS BOUNDED CONTEXT

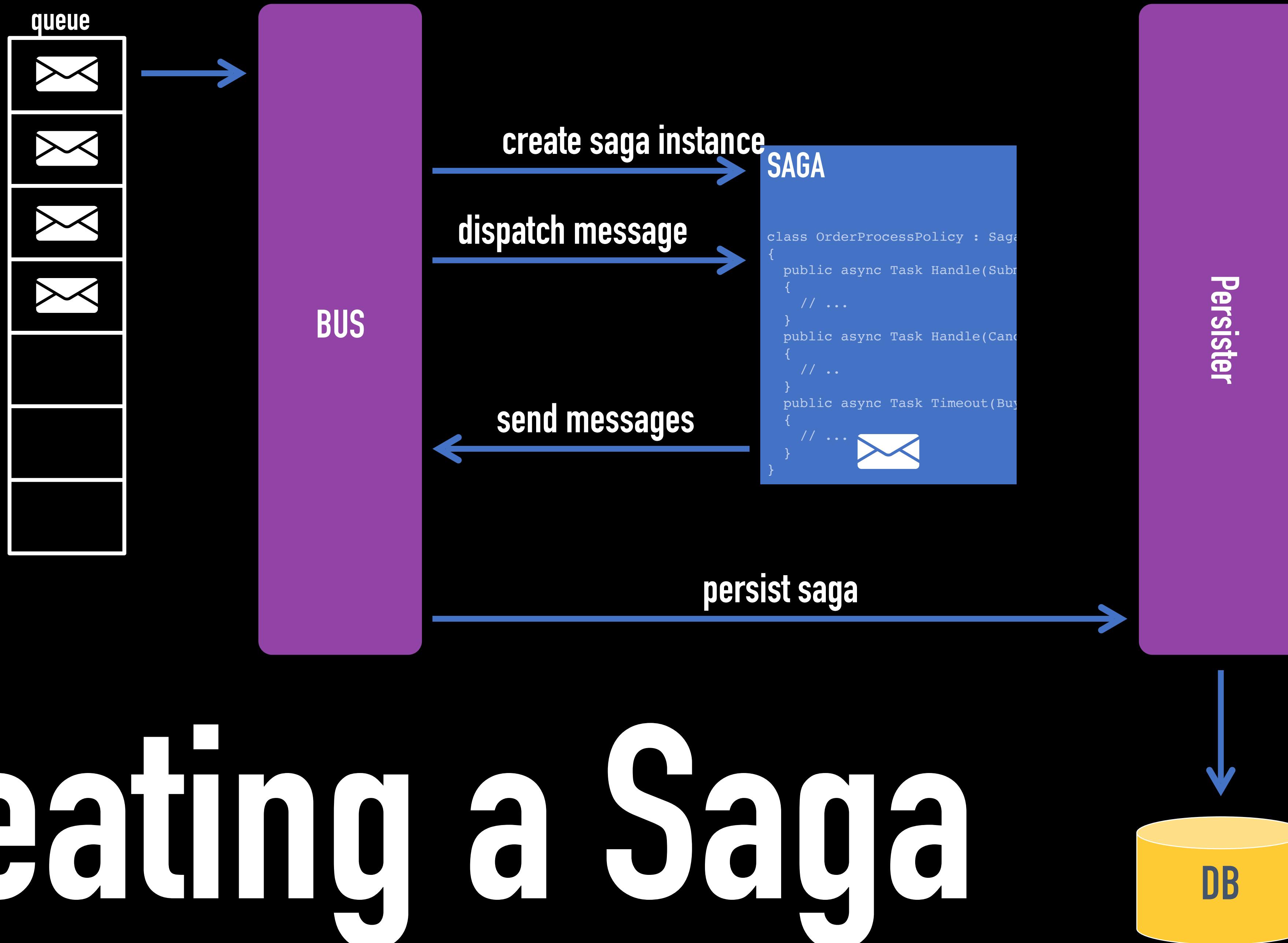


CustomerHasPaid

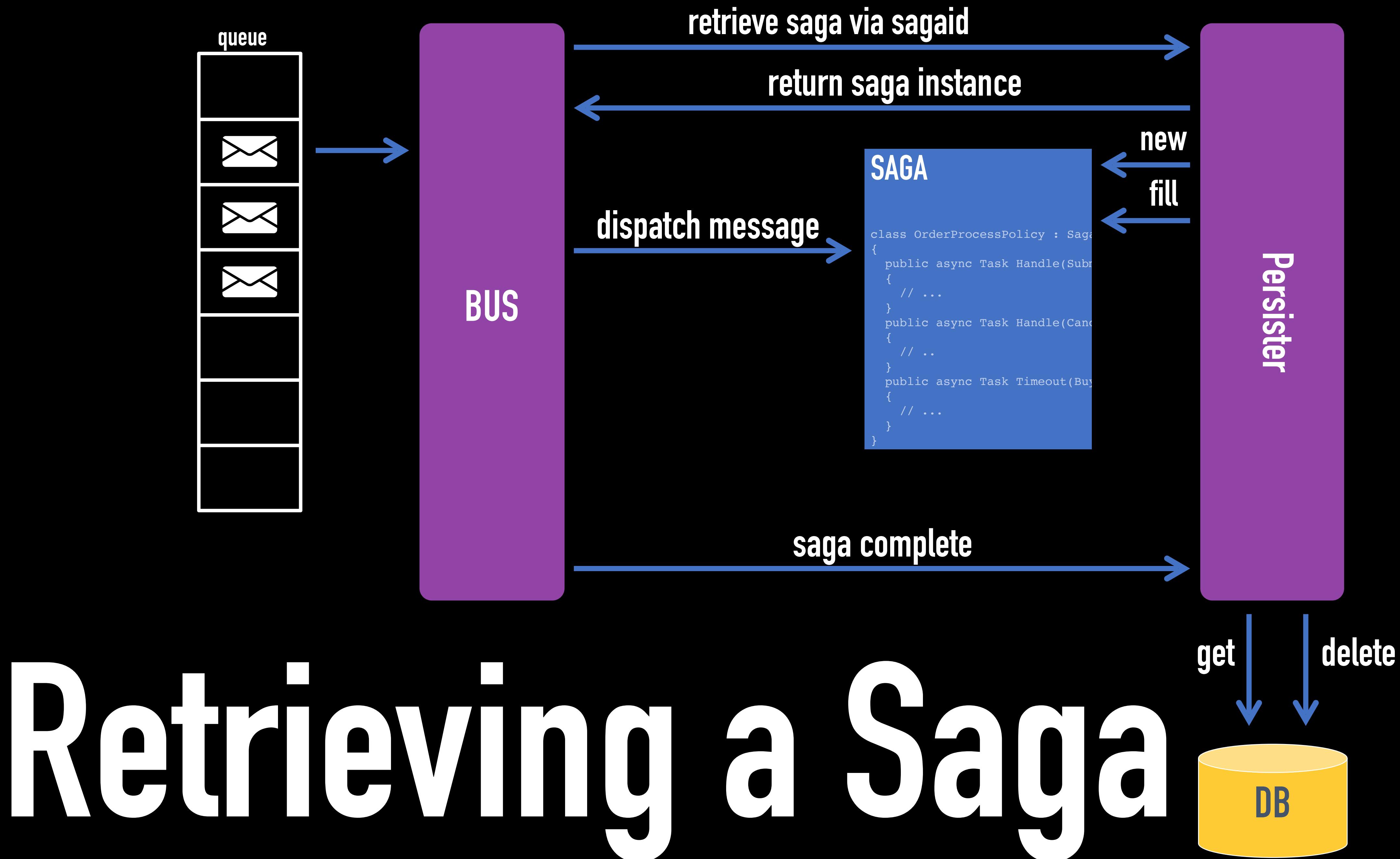
A Business Process will need to coordinate  
different steps that happen in multiple contexts



# Saga Pattern



# Creating a Saga



A black and white aerial photograph of a massive concrete dam. The dam is a thick, curved wall that slopes down to a flat base. A narrow walkway runs along the top edge of the wall. Two small figures of people are visible on the walkway, one near the center and another further up towards the right. The surrounding area is dark and appears to be water or a very dark landscape.

# DEMO

# Time as a durable concept



GOLD

- **25000 miles or 30 Segments and \$3,000**  
**starting in the next calendar year**

PLATINUM

- **50000 miles or 60 Segments and \$6,000**  
**starting in the next calendar year**

PLATINUM PRO

- **75000 miles or 90 Segments and \$9,000**  
**starting in the next calendar year**

EXEC PLATINUM

- **100000 miles or 120 Segments and \$12,000**  
**starting in the next calendar year**

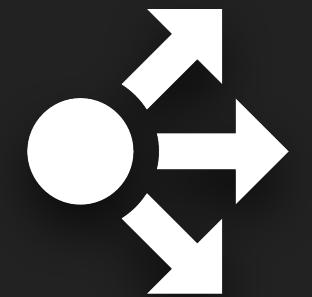
A black and white aerial photograph of a massive concrete dam. The dam is a thick, curved wall that slopes down to a flat base. A narrow walkway runs along the top edge of the wall. Two small figures of people are visible on the walkway, emphasizing the enormous scale of the structure. The surrounding landscape is dark and appears to be water or a very dark forest.

**DEMO**

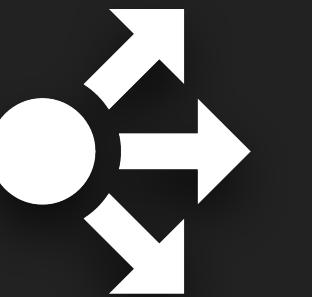
**BOOKING**  
BOUNDED CONTEXT

**LOYALTY**  
BOUNDED CONTEXT

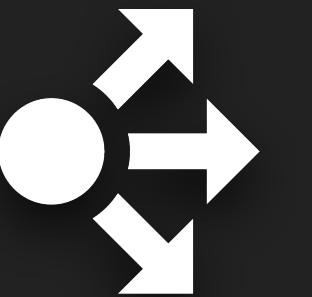
**PAYMENTS**  
BOUNDED CONTEXT



ReservationWasConfirmed



FlightPlanWasAdded



CustomerHasPaid

**Expanding the domain rules?**

# Learn More

<http://go.particular.net/ExploreDDD-Sagas>

# THANK YOU

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