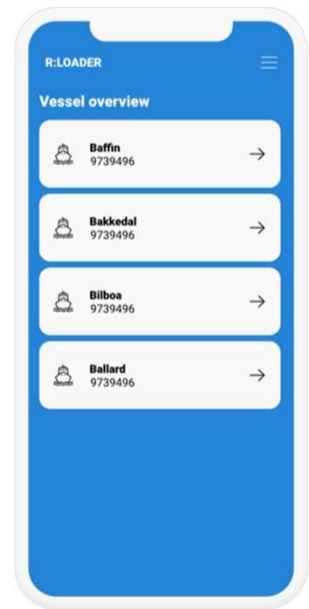
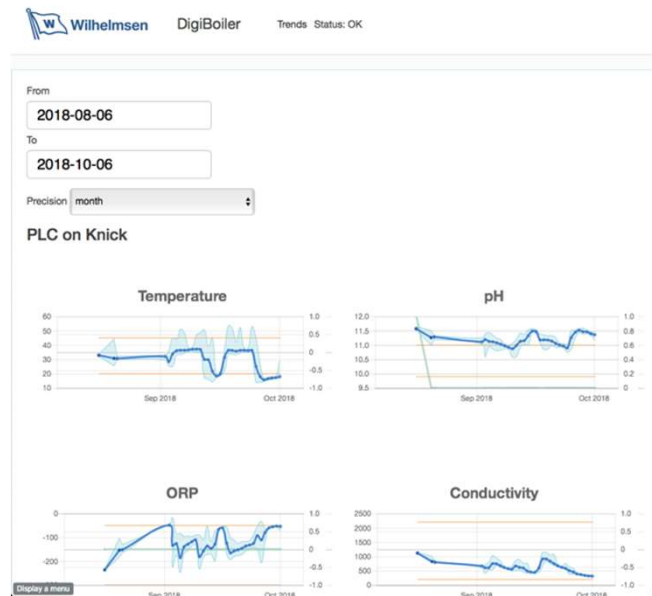
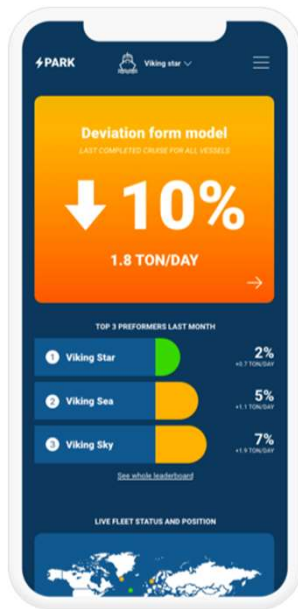


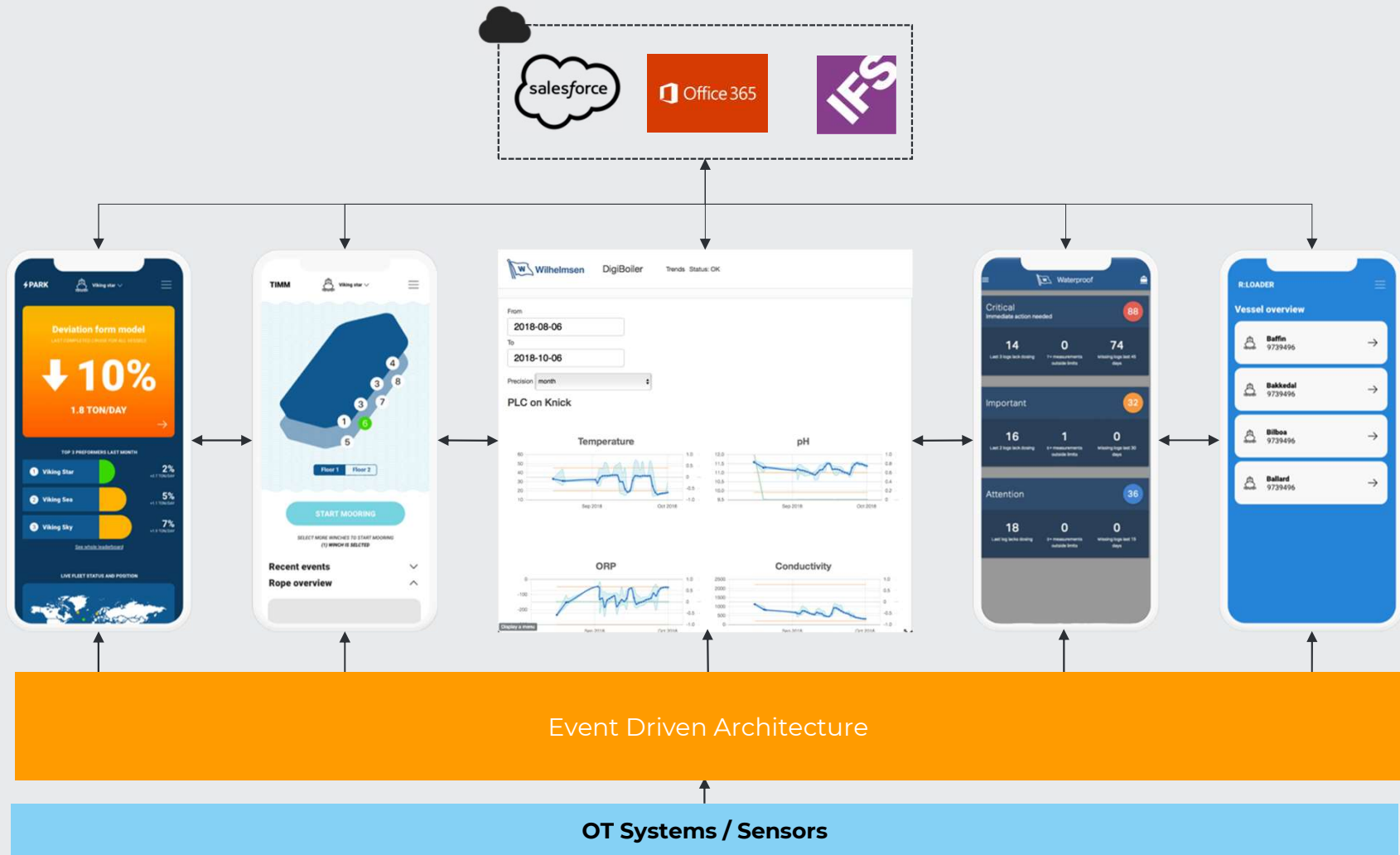


Technically



New digital business models





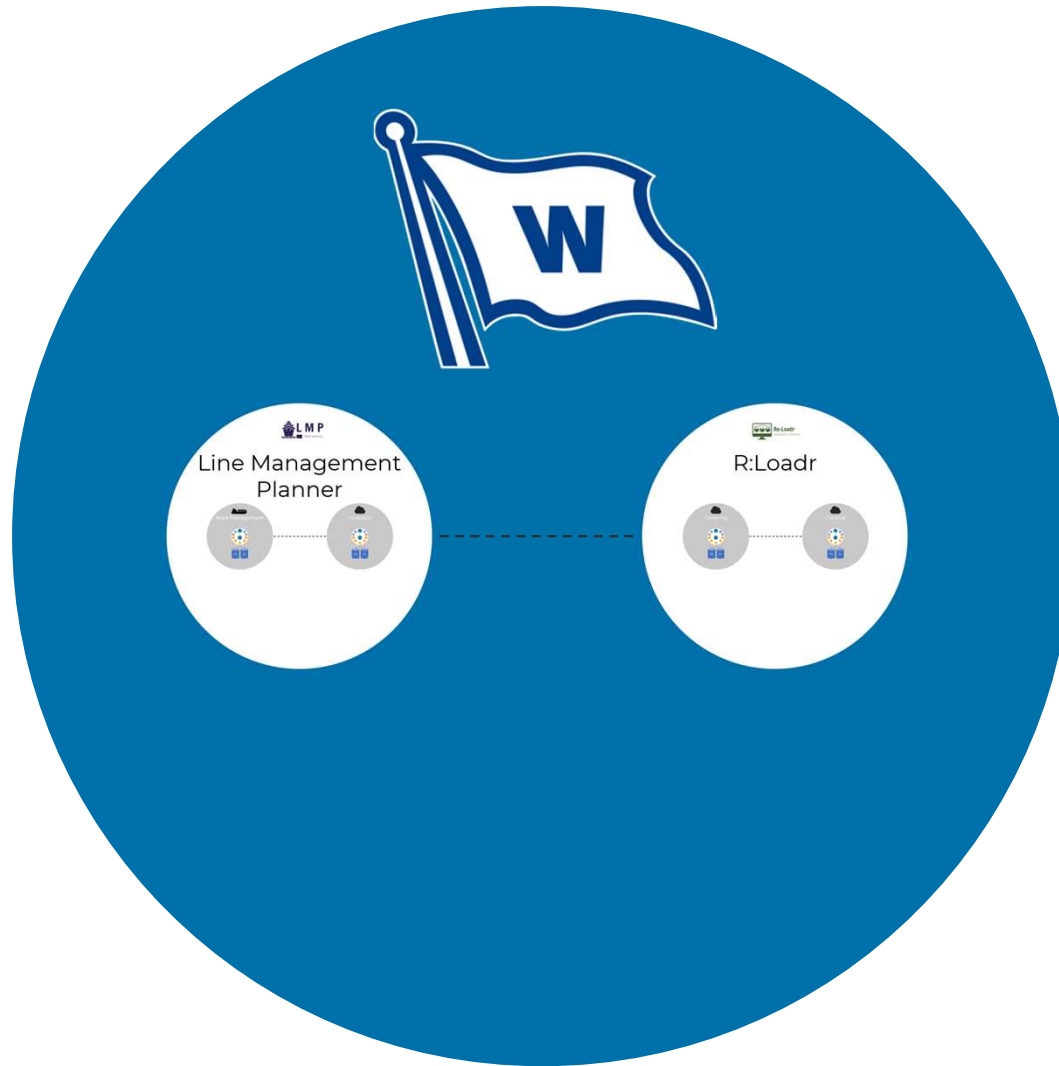
Events

Business

- Truth of the system
- Represents the domain language
- Streaming

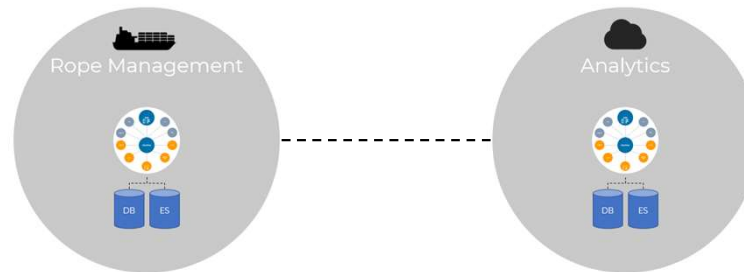
TimeSeries / Discreet

- DataPoints
- Measurements
- Consumer decides frequency
- Streaming consumer



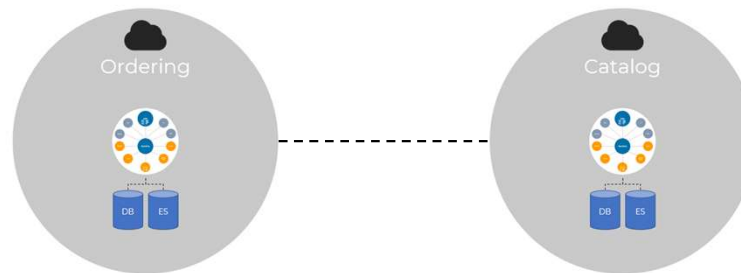


Line Management Planner



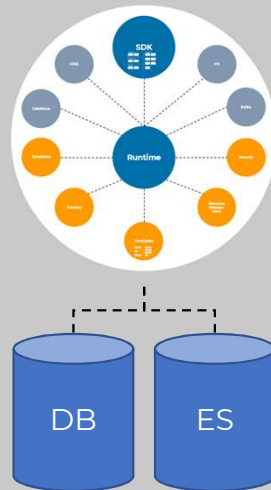


R:Loadr



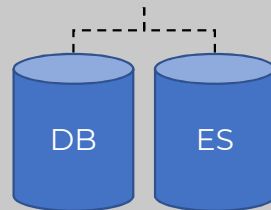
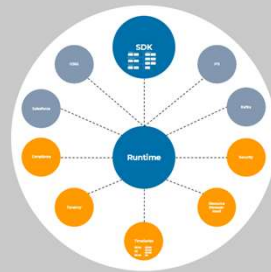


Rope Management



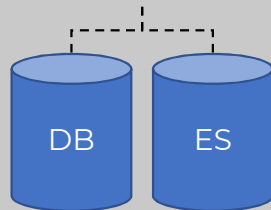
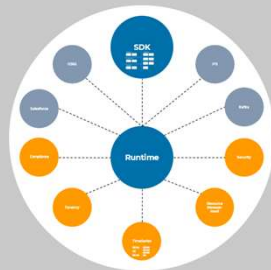


Analytics



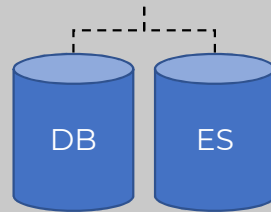
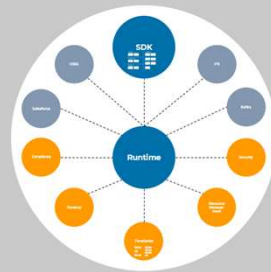


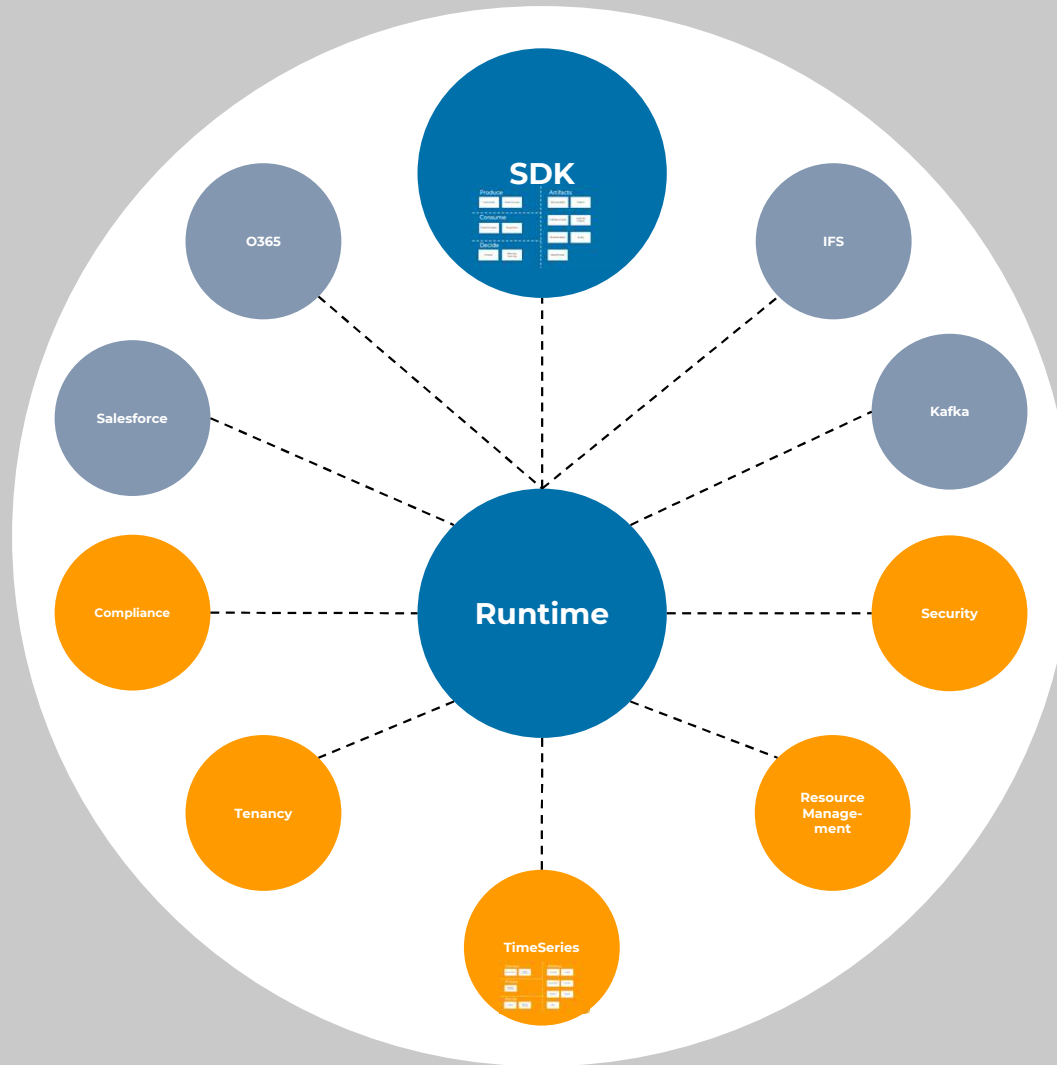
Ordering





Catalog





Produce

Commands

Event Sources

Consume

Event Processor

Projections

Decide

Policies

Machine
Learning

Artifacts

Security Rules

Events

Validation Rules

External
Events

Business Rules

Query

Read Models

Connect

Pull Connectors

Stream
Connectors

Artifacts

Primitives

Identity

Process

DataPoint
Processors

Measurement

Prioritizer

Decide

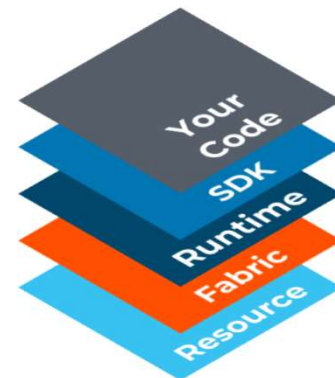
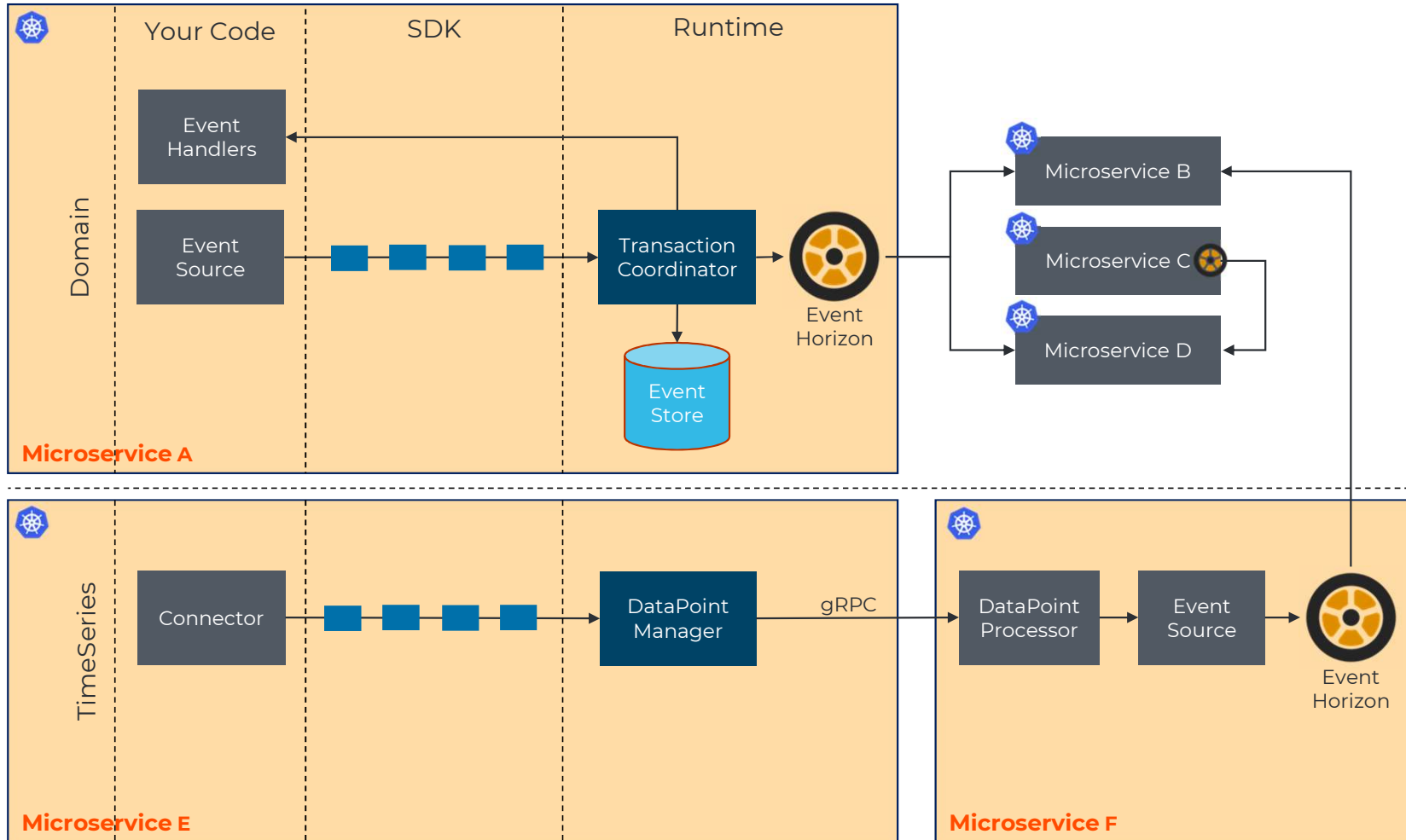
Policies

Machine
Learning

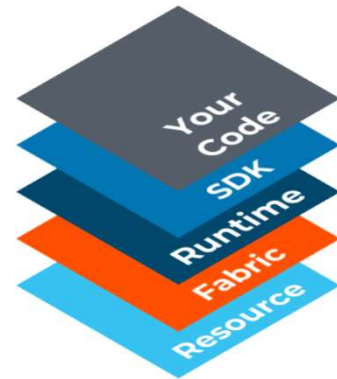
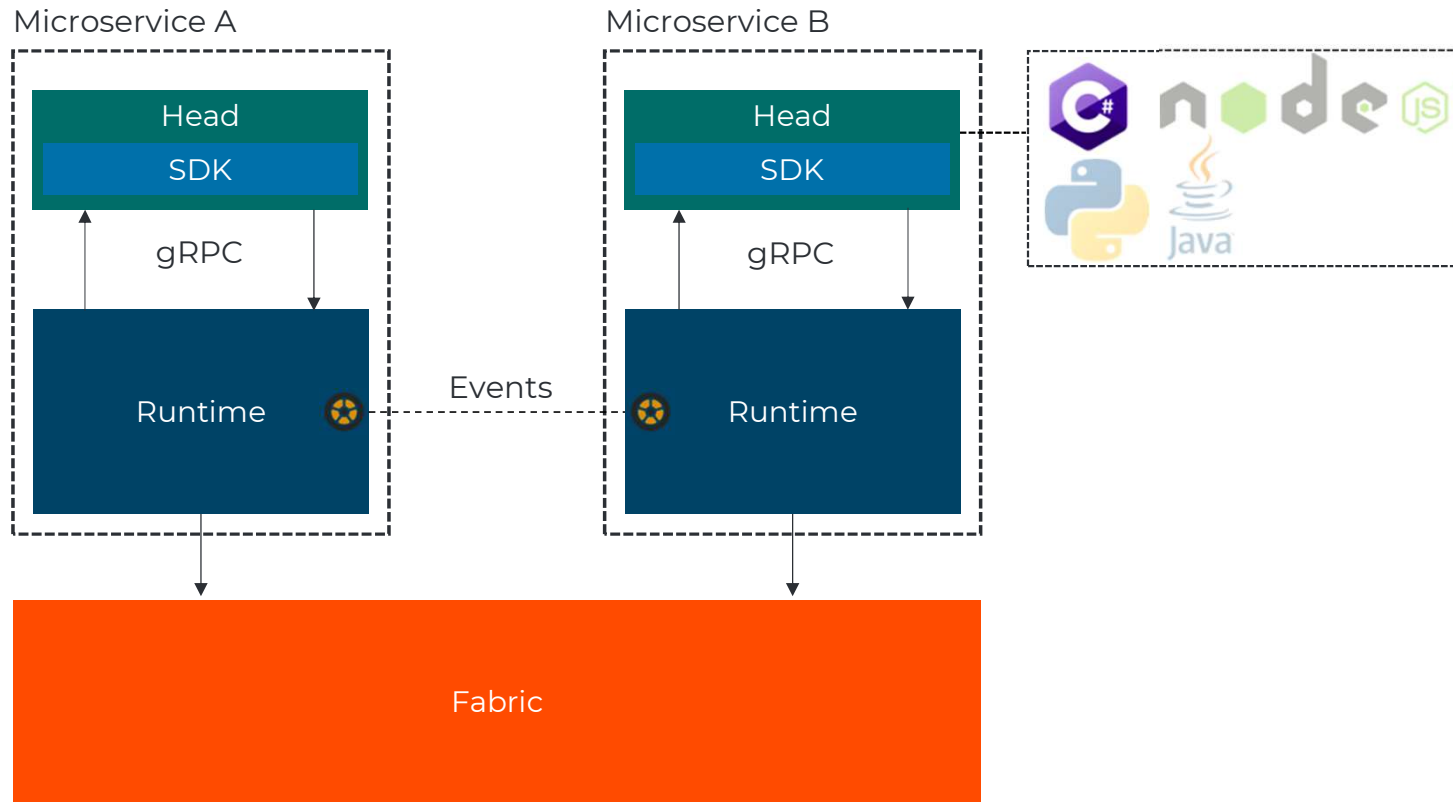
DataPoint

Historian

Filters



Microservice Runtime Layer



Runtime

Events

Event Store

Event Horizon

Event Schemas

Event Sourcing

Migrations

Projections

Replaying

Fault Handling

Processor Mgmt.

CQRS

Command

Query

Authorization

Validation

Business Rules

Decisions

Reactions

DDD

AggregateRoot

Repositories

Context Map

Domain Event

Value Object

Entity

TimeSeries

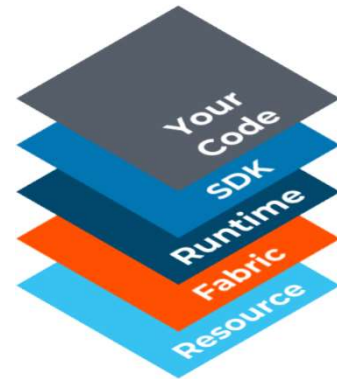
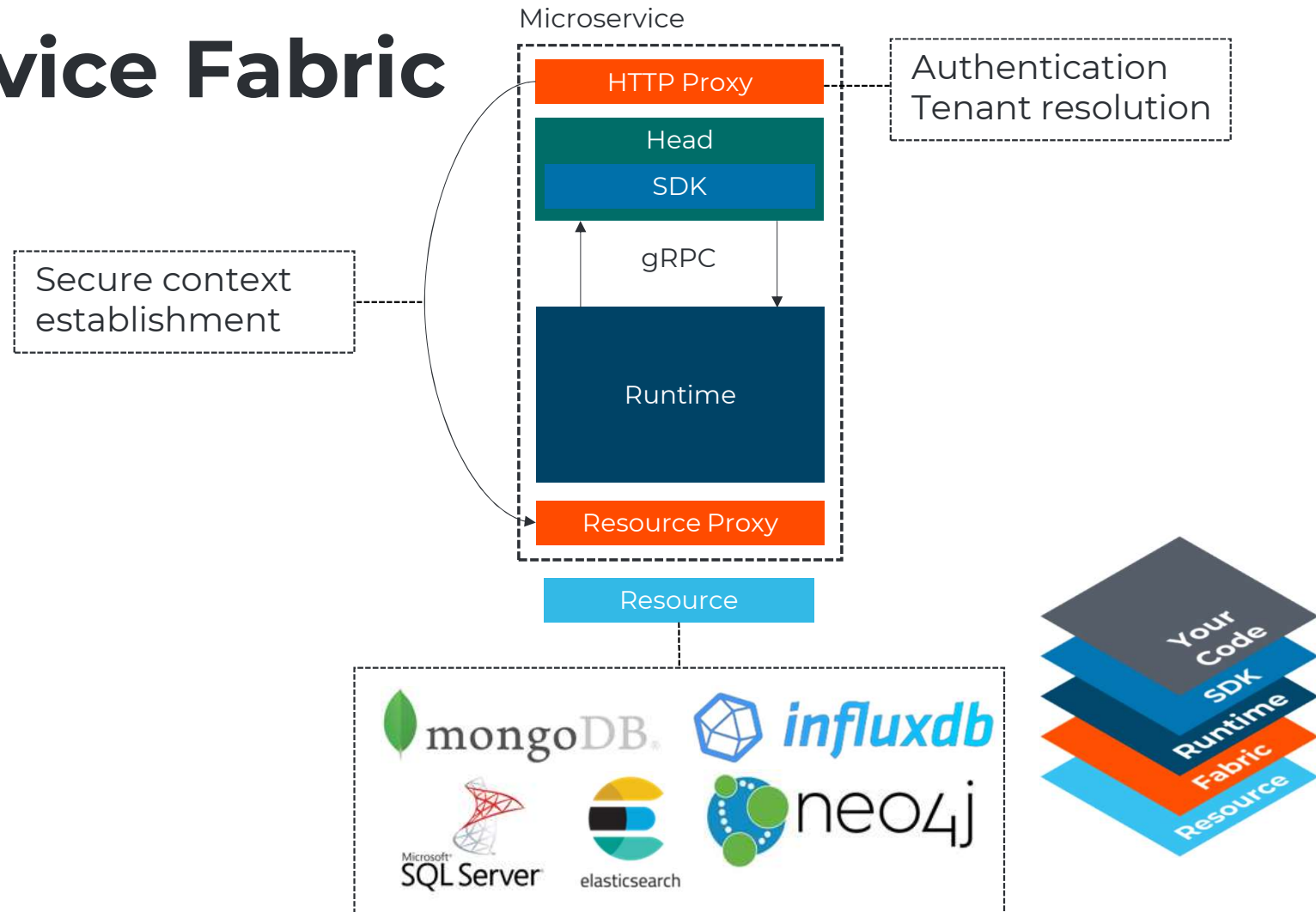
Connector

Processor

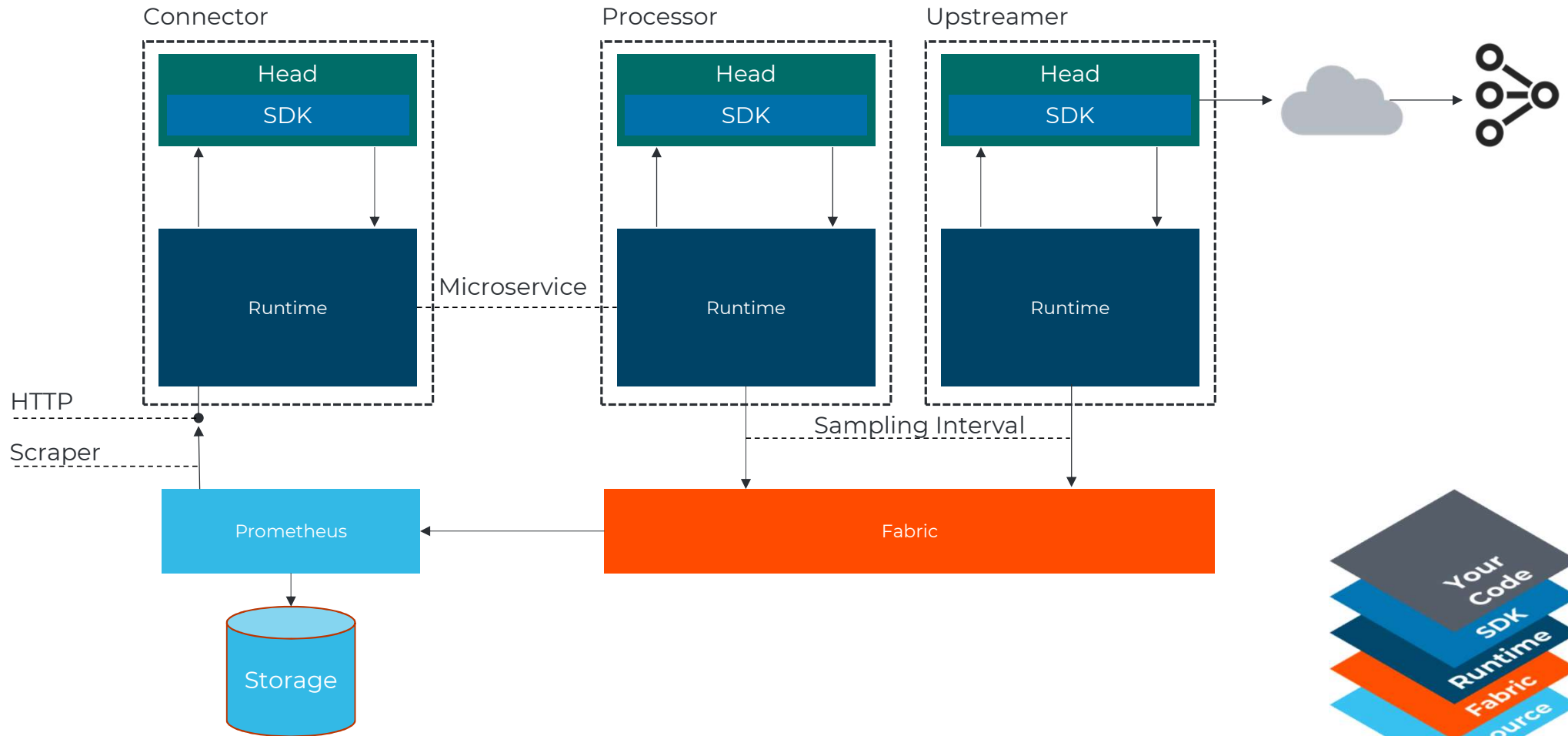
DataPoints

Windowing

Microservice Fabric



TimeSeries



Event Sourcing

The background of the slide is a solid dark blue. In the bottom right corner, there are two overlapping geometric shapes: a smaller, lighter blue trapezoid and a larger, slightly darker blue parallelogram, both pointing towards the top right.

Traditional Database

BankAccount
Id: 123
Owner: Jane Doe
Balance: \$10

Event Sourcing



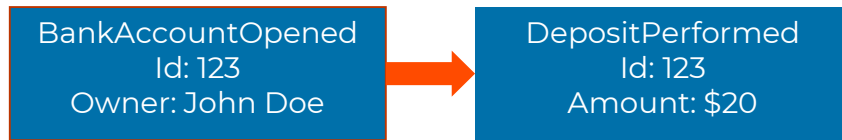
Restoring Objects

BankAccountOpened
Id: 123
Owner: John Doe

Projects to

BankAccount
Id: 123
Owner: John Doe
Balance: \$0

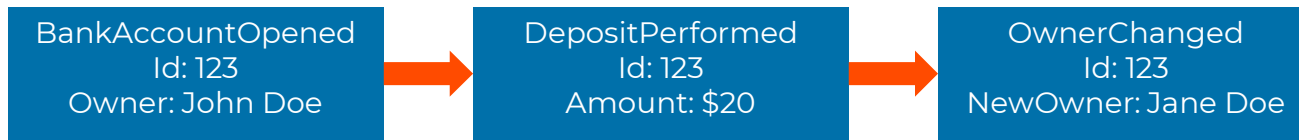
Restoring Objects



Projects to

BankAccount
Id: 123
Owner: John Doe
Balance: \$20

Restoring Objects



Projects to



Restoring Objects



Projects to

BankAccount
Id: 123
Owner: Jane Doe
Balance: \$10



In comparison

	Traditional Messaging	Event Driven	CQRS	DDD
Pub / Sub	X	X	X	X
Queues	X			
Versionable		X	X	X
Projections		X	X	X
Resilience		X	X	X
Decentralized		X	X	X
Distributed		X	X	X
Streaming		X	X	X
Competing consumers		X	X	X
Event Sourced		X	X	X
Microservice oriented		X	X	X
Streaming state			X	X
Formalized concerns			X	X
Formalized queries			X	X
Intent modelling			X	X
Domain Centric				X
Invariant modelling				X

Dolittle Ecosystem

Runtime



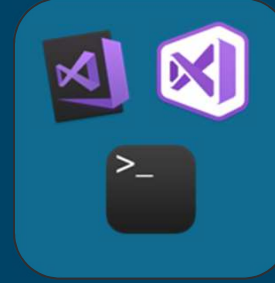
SDK



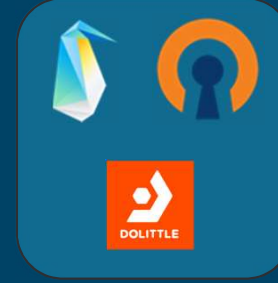
Interaction



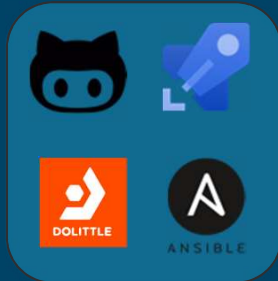
Tools



Edge



DevOps



Hosting



Monitoring



Web



TimeSeries











Getting started

 <https://dolittle.io>




AspNet.NET Core

-  <https://dolittle.io/interaction/aspnetcore>
-  <https://www.nuget.org/packages/Dolittle.AspNetCore>
-  <https://github.com/dolittle-interaction/AspNetCore>




Edge Solutions

-  <https://dolittle.io/fundamentals>
-  <https://hub.docker.com/u/dolittle>
-  <https://github.com/dolittle-edge>




.NET SDK

-  <https://dolittle.io/runtime/dotnet.sdk>
-  <https://www.nuget.org/packages/Dolittle.SDK>
-  <https://github.com/dolittle-runtime/DotNET.SDK>




TimeSeries

-  <https://dolittle.io/timeseries>
-  <https://hub.docker.com/u/dolittle>
-  <https://github.com/dolittle-timeseries>

.NET Fundamentals

-  <https://dolittle.io/fundamentals>
-  <https://www.nuget.org/packages/Dolittle.Fundamentals>
-  <https://github.com/dolittle-fundamentals/DotNET.Fundamentals>

Runtime

-  <https://dolittle.io/runtime>
-  <https://hub.docker.com/r/dolittle/runtime>
-  <https://github.com/dolittle-runtime>



Getting started



<https://dolittle.io/tooling>

CLI



<https://www.npmjs.com/package/@dolittle/cli>



<https://github.com/dolittle-tools/cli>

VSCode Extension



<https://marketplace.visualstudio.com/items?itemName=Dolittle.dolittle-vscode>



<https://github.com/dolittle-tools/vscode>

Azure DevOps Pipelines



<https://github.com/dolittle-tools/AzureDevOps>

MSBuild Extension



<https://www.nuget.org/packages?q=dolittle.sdk.build>



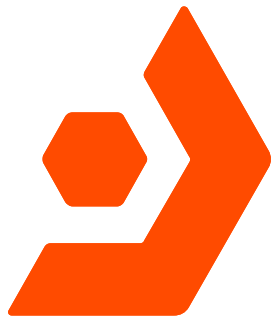
<https://github.com/dolittle-runtime/DotNET.SDK>



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