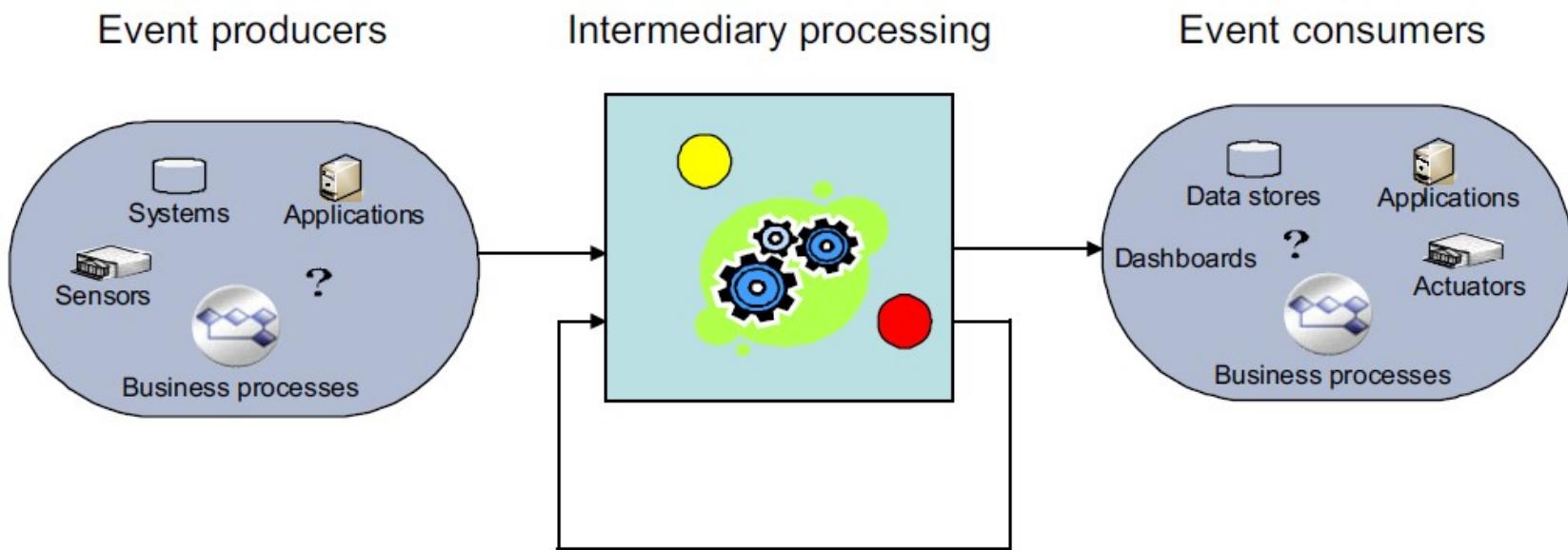


Implementing event processing

PV226 LaSArIS

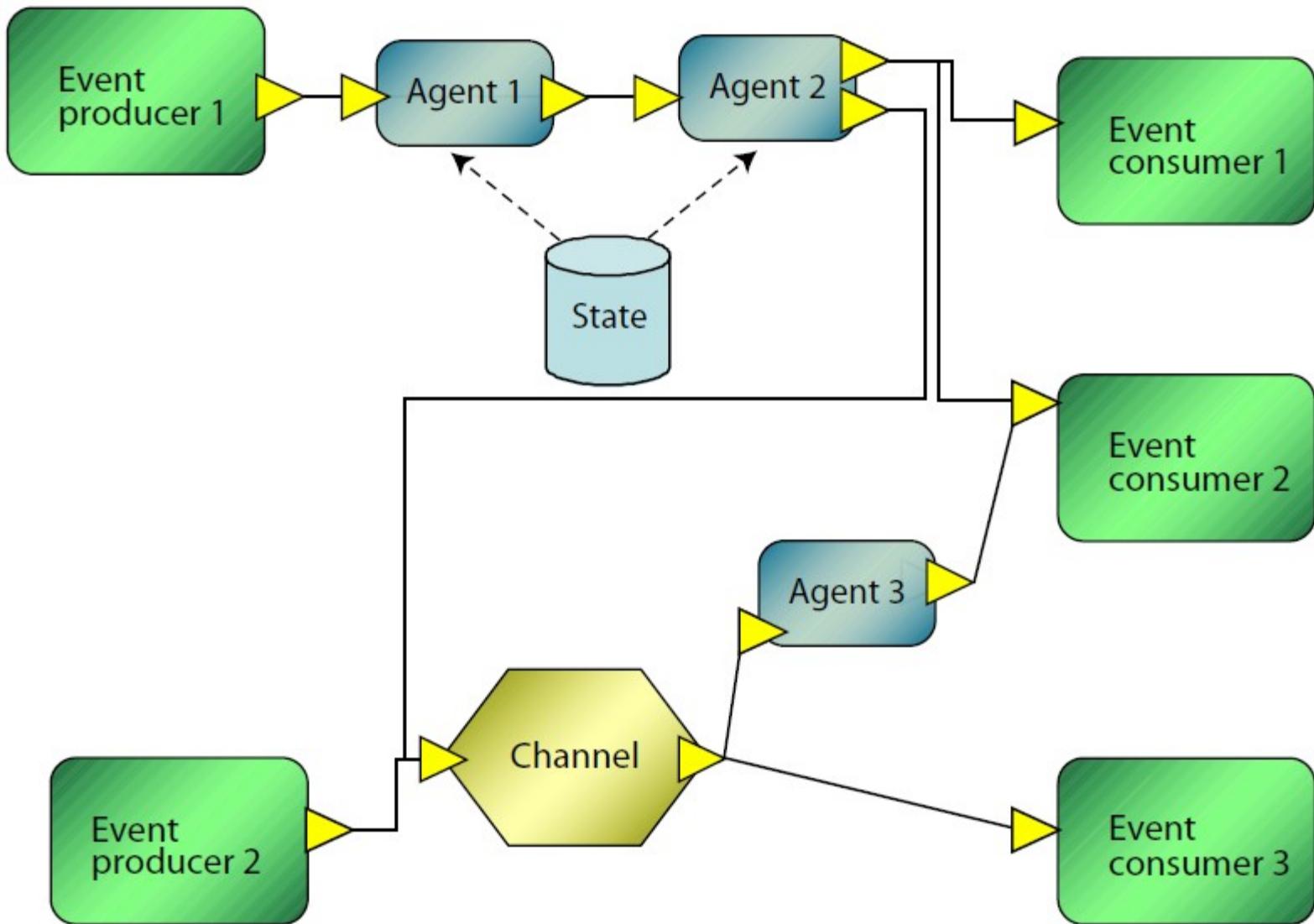
Event Drive Architecture

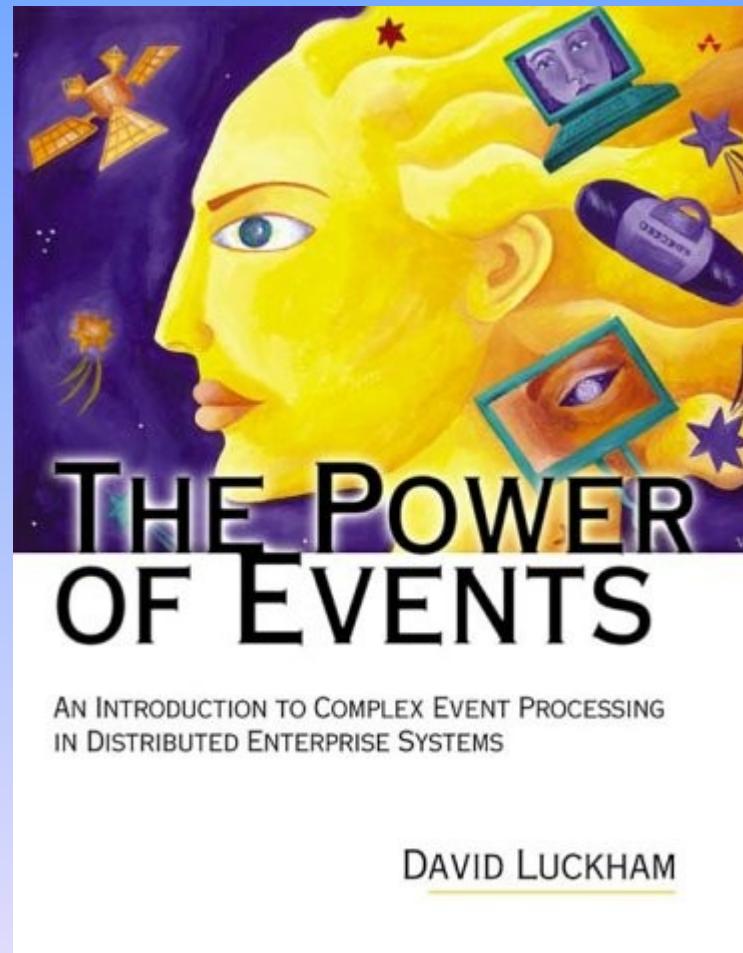
Event-Based Programming





Microsoft®
.net™

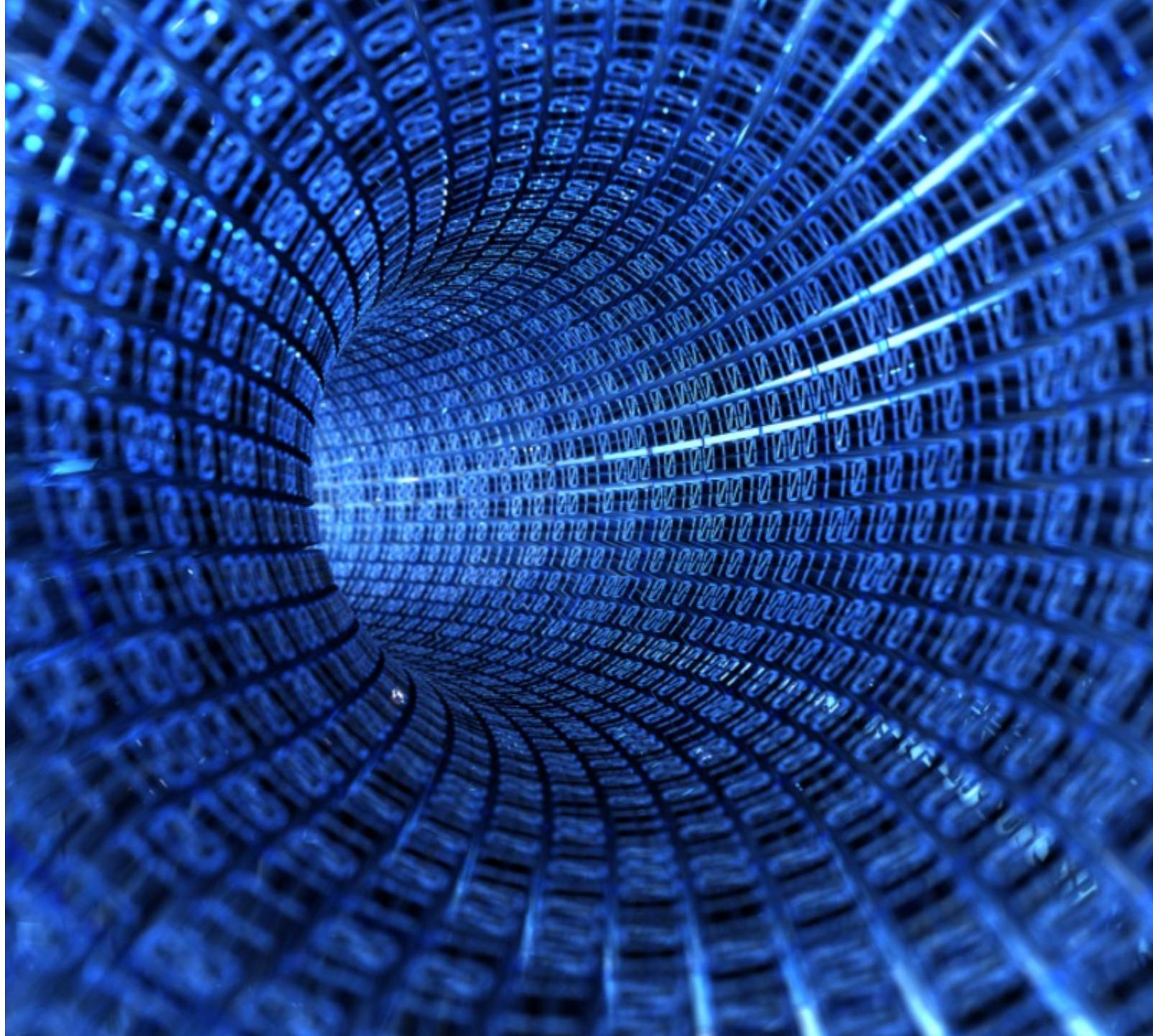




Reactive Programming

```
int a = 10;  
int b = a + 1;  
a = 20;  
b = ?
```

Declarative



Escriba una pregunta

Seguridad...

K L
W R
S WR

DISTRIBUCION CARTAS

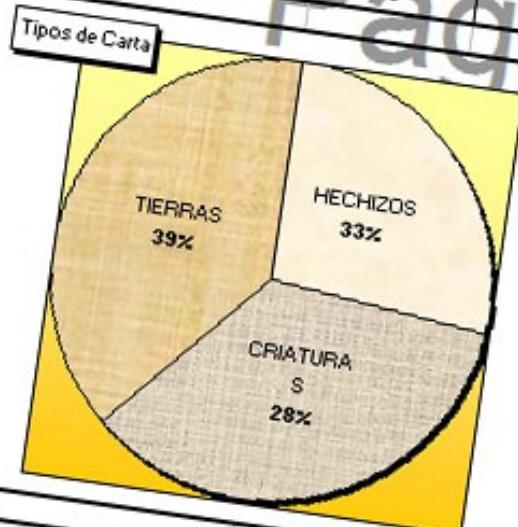
CRÍATURAS	16
HECHIZOS	21
TIERRAS	23
TOTAL	60

COSTE MEDIO

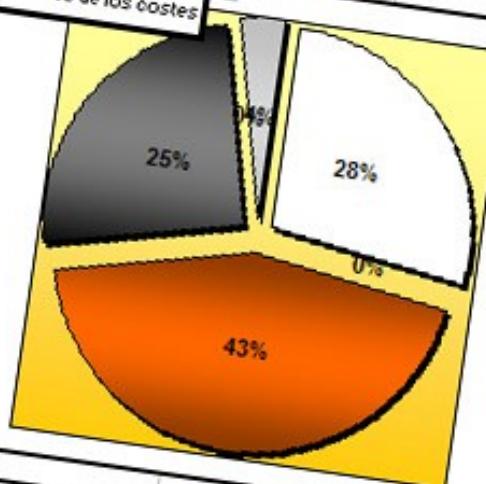
V	3,40
G	0,00
R	1,90
B	3,20
U	0,00
INCOLORO	1,90
TODOS	2,60

**COSTE DE
MANA
CONVERSIÓN**

COSTE DE MANA CONVERTIDO	CANTIDAD
0	0,0
1	7,0
2	11,5
3	8,5
4	8,0
5	2,0
6	0,0
7	0,0
8	0,0
9	0,0
10	0,0
11	0,0
12	0,0



Nº de hechizos VS coste

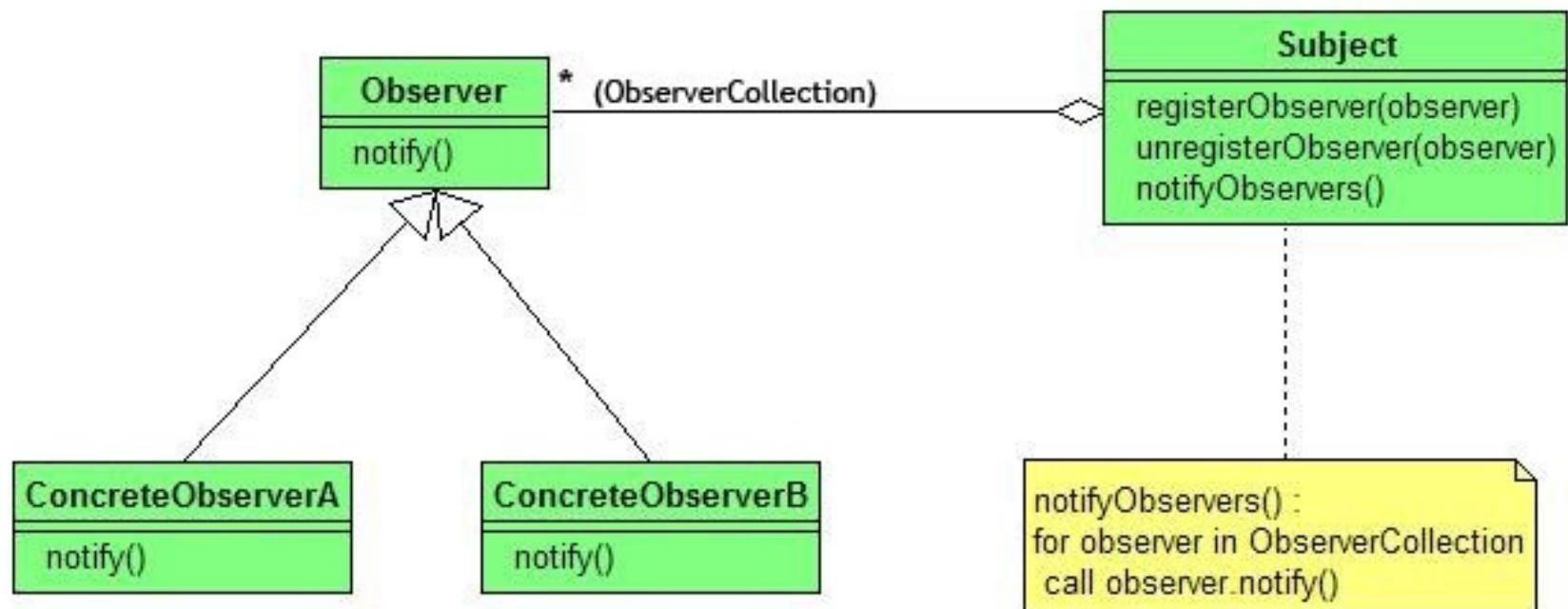


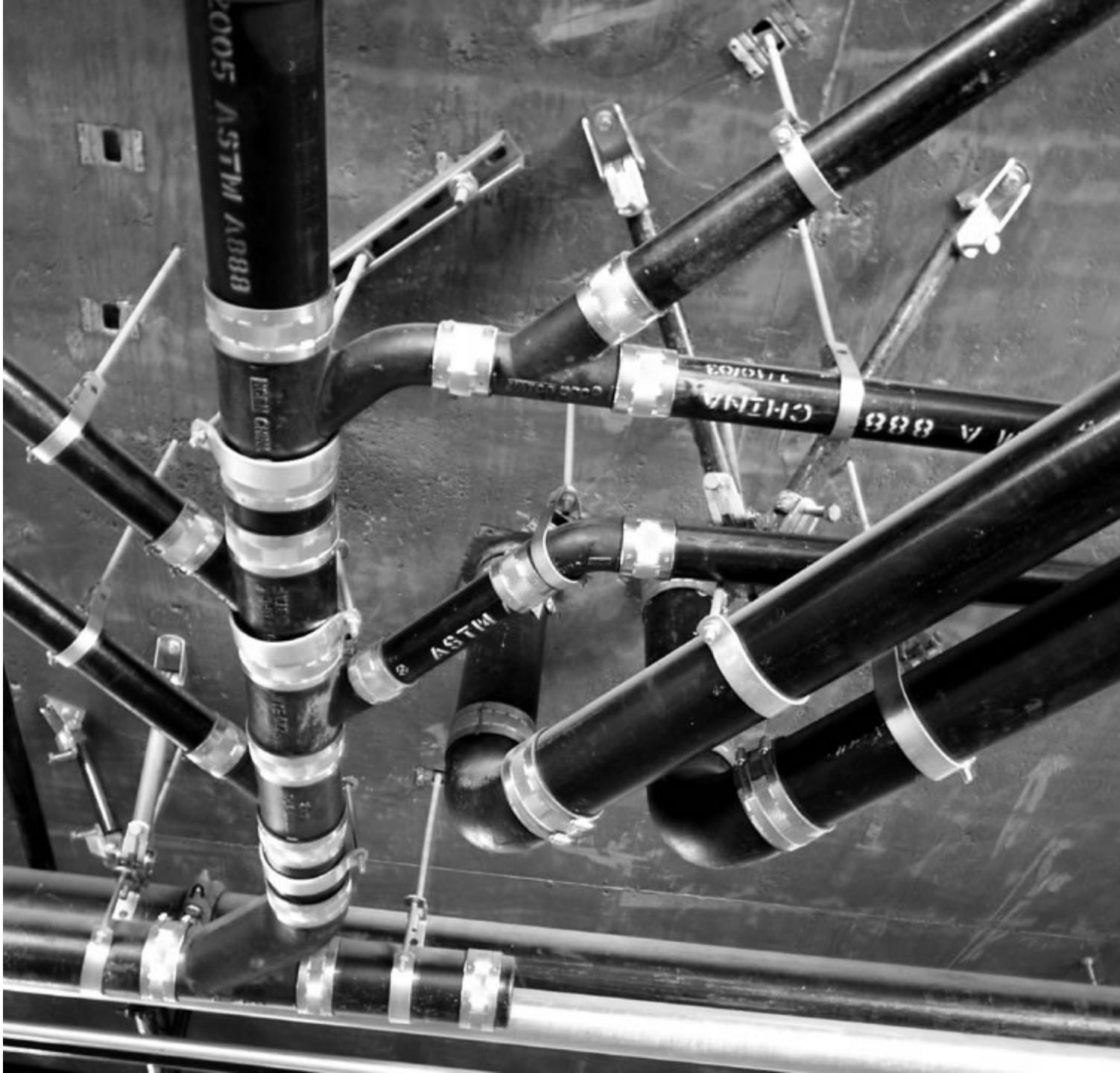
DISTRIBUCIÓN DEL COLOR DE LOS COSTES



OBSERVER







LINQ

Language INtegrated Query



Reactive Extensions



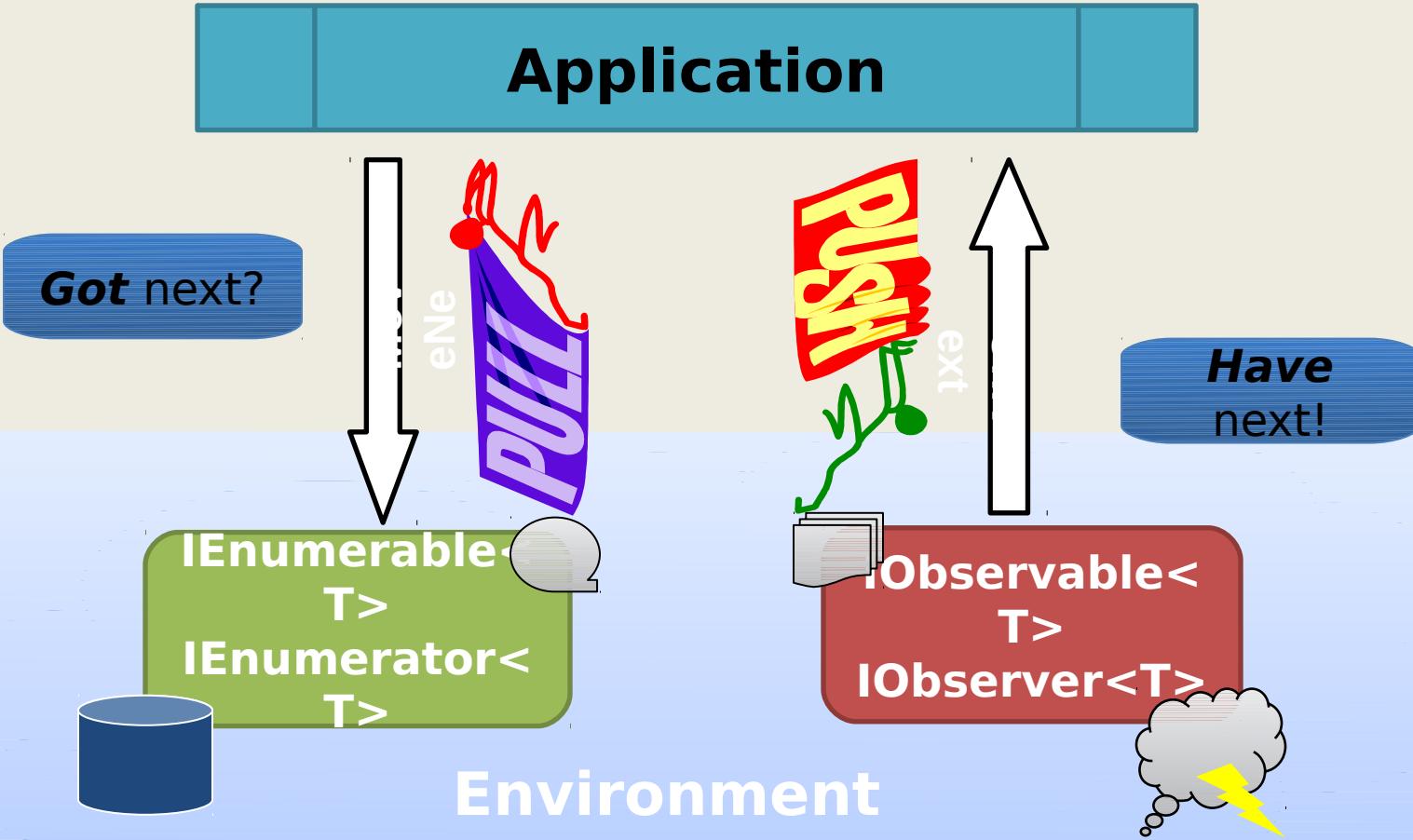
Too hard today...

**I Rx is a library for composing
asynchronous and event-based
programs using observable
collections.**

Queries? LINQ?

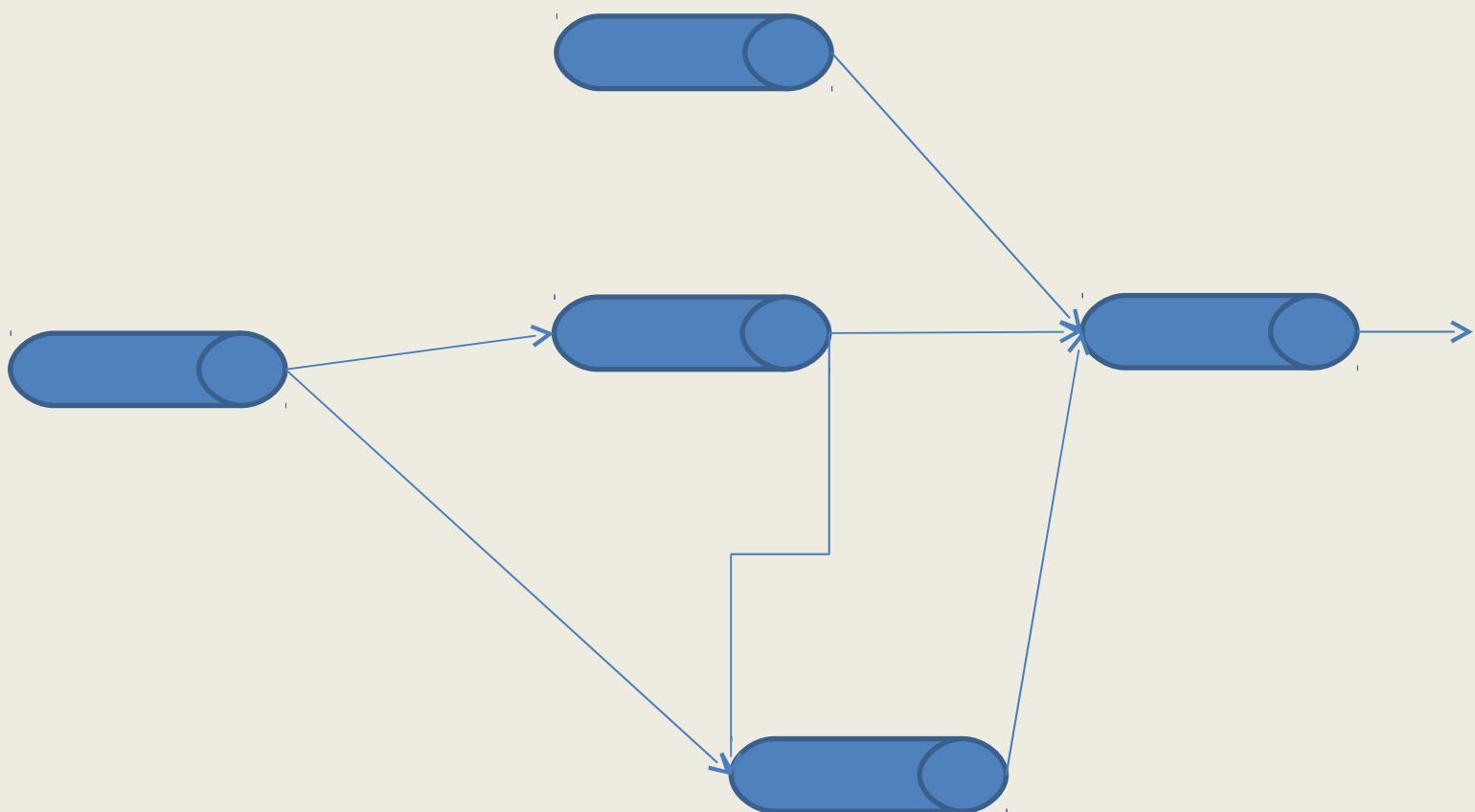
Push versus Pull

Interactive



Reactive

Composing



**Rx = Observables + LINQ +
Schedulers**



StreamInsight

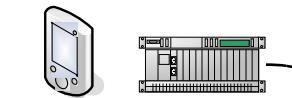


Overview: Microsoft StreamInsight

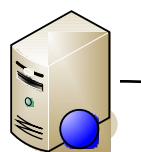


.NET
C#
LINQ

Event sources



Devices, Sensors



Web servers



Event stores & Databases



Stock tickers & News feeds

Input Adapters

CEP Engine

Standing Queries

Event

Event

Event

Event

Event

Event

Event

Event

C_ID

C_NAM

C_ZI

P

Output Adapters

Event

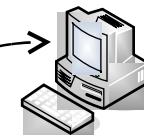
Event

Event

Event targets



Pagers & Monitoring device



KPI Dashboards,
SharePoint UI



Trading stations

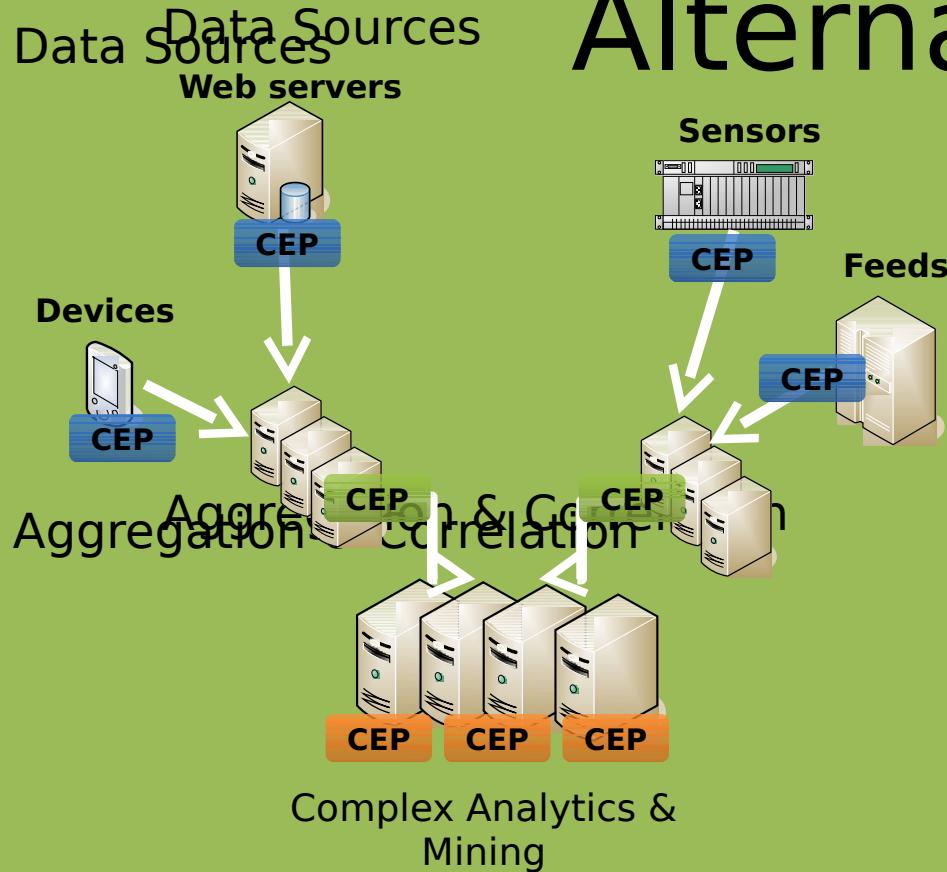


Event stores & Databases



Static reference data

CEP Deployment Alternatives



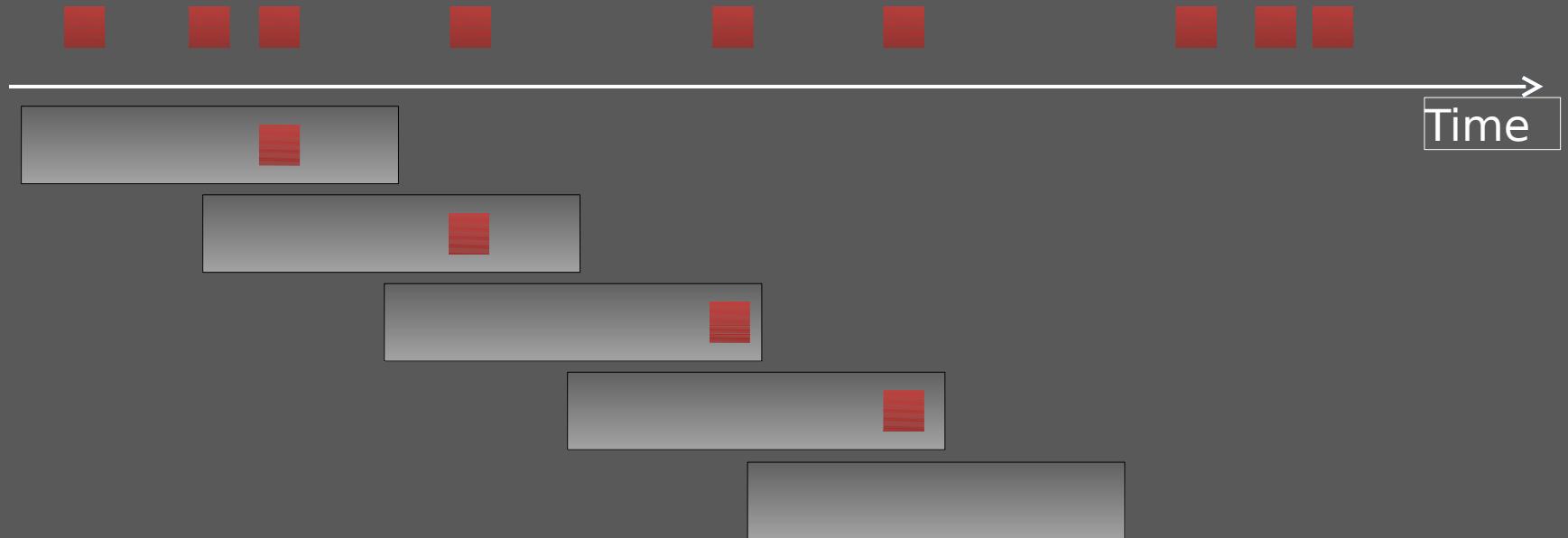


© ZAMANI



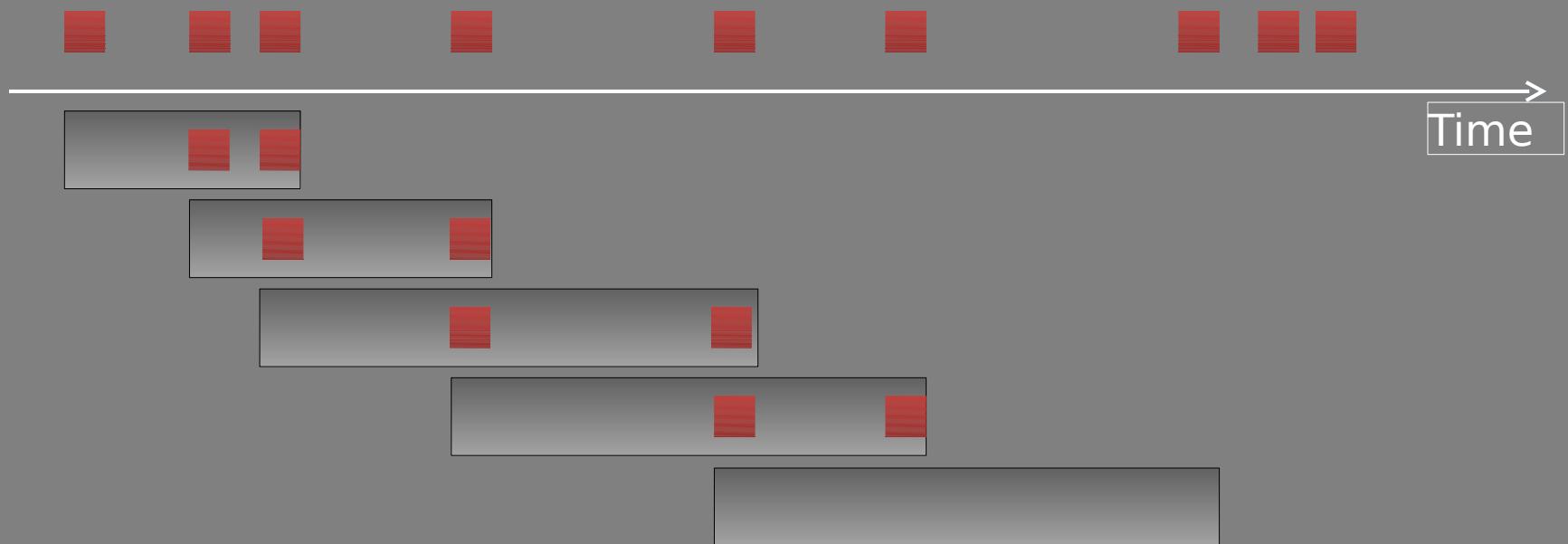
Windows

Hopping Window



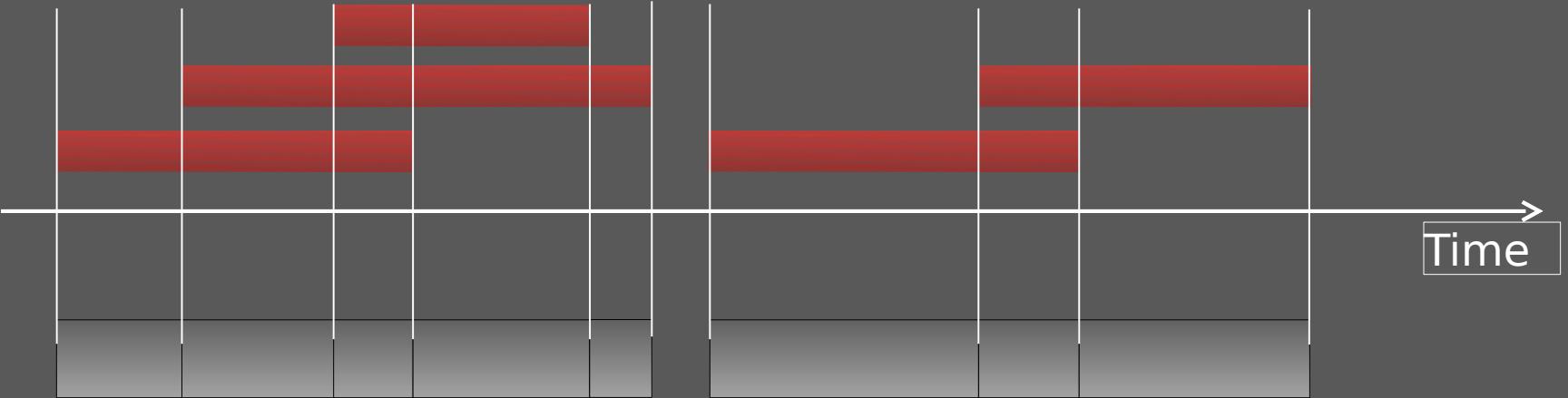
Windows

Count Window (N=3)



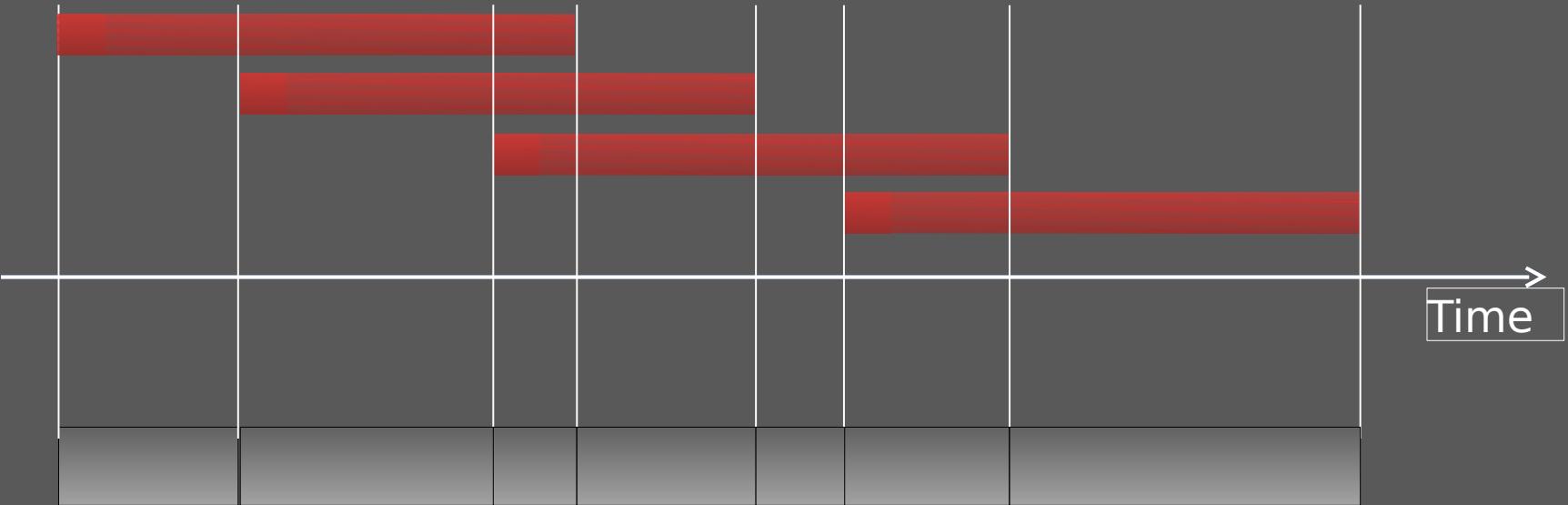
Windows

Snapshot Window



Windows

Snapshot Window



Summary

Implementing Event Processing Agent

Use Observer Pattern

Do It Declaratively

Rx Framework is good tool

StreamInsight for temporal queries

GRACIAS **THANK**
ARIGATO **YOU**
SHUKURIA **BOLZİN MERCI**
JUSPAXAR

DANKSCHEEN
SPASSIBO NUHUN CHALTU YAQHANYELAY HUI
SNACHALHYA TASHAKKUR ATU WABEEJR MAITEKA YUSPAGABATAM
DHARYABAD ANNA SUKSAMA EKHMET HATUR GUI
MAAKE ATTO DENKAUJA UNALCHEESH EKOJU SIKOMO
KOMAPSUMNIDA SANCO HEMERSI MANETAI
GOZAIMASHITA GAEJTHO FAKAAUE MINMONCHAR
EFCHARISTO AGUYJE