

# Discussion of Paper: **ACTrESS – Automatic Context Transformations in Event-Based Software Systems**



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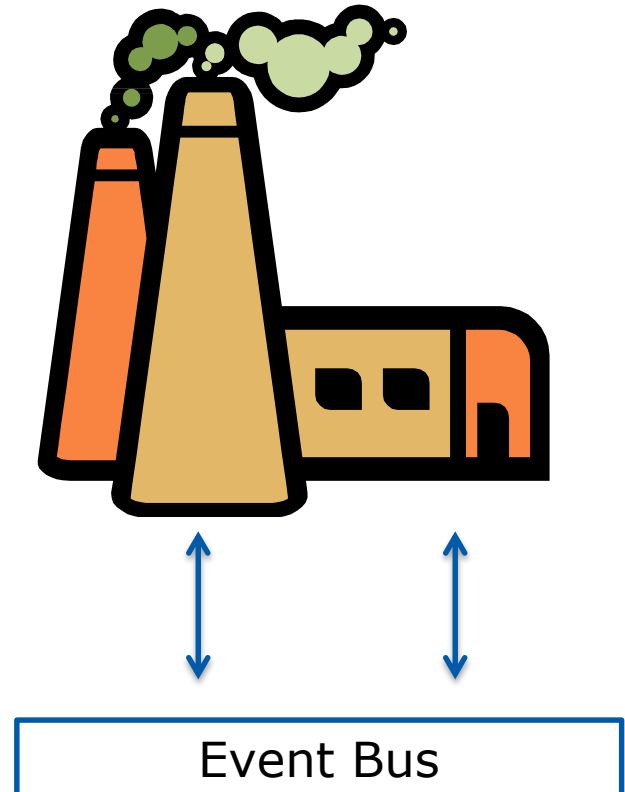
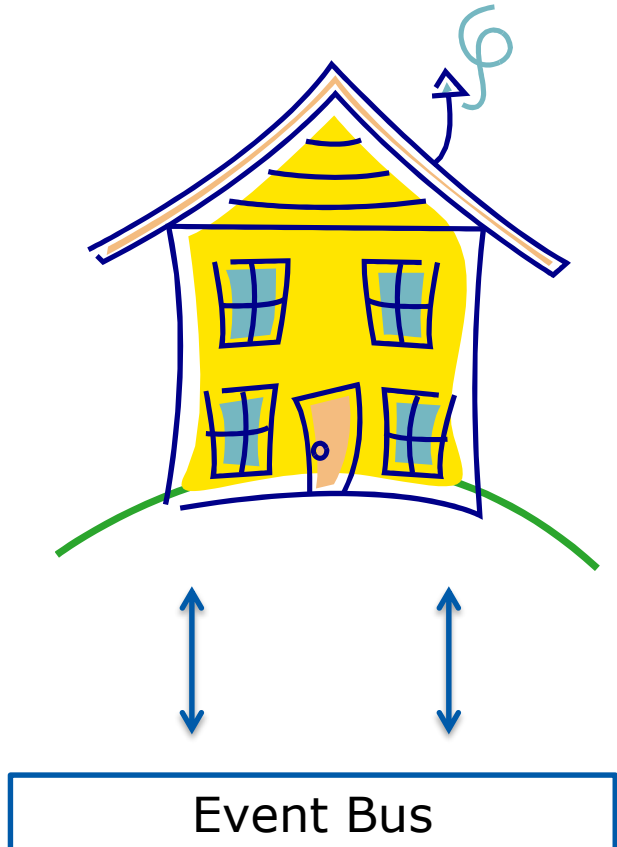
**Winter Term 2014/2015**



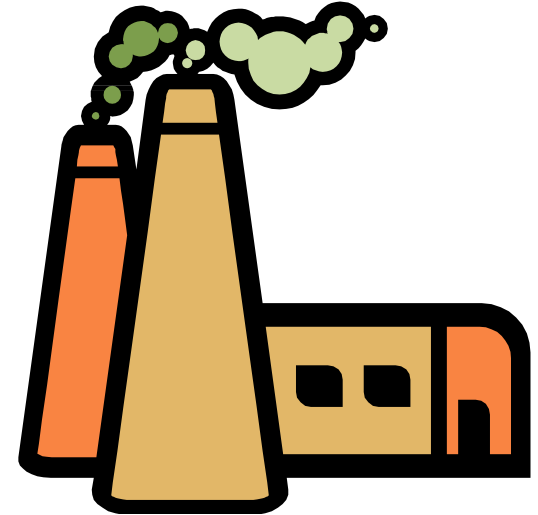
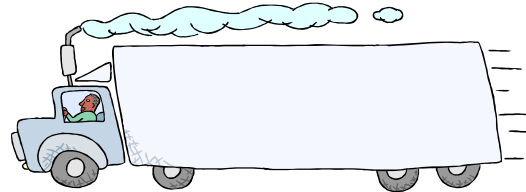
**DVS**



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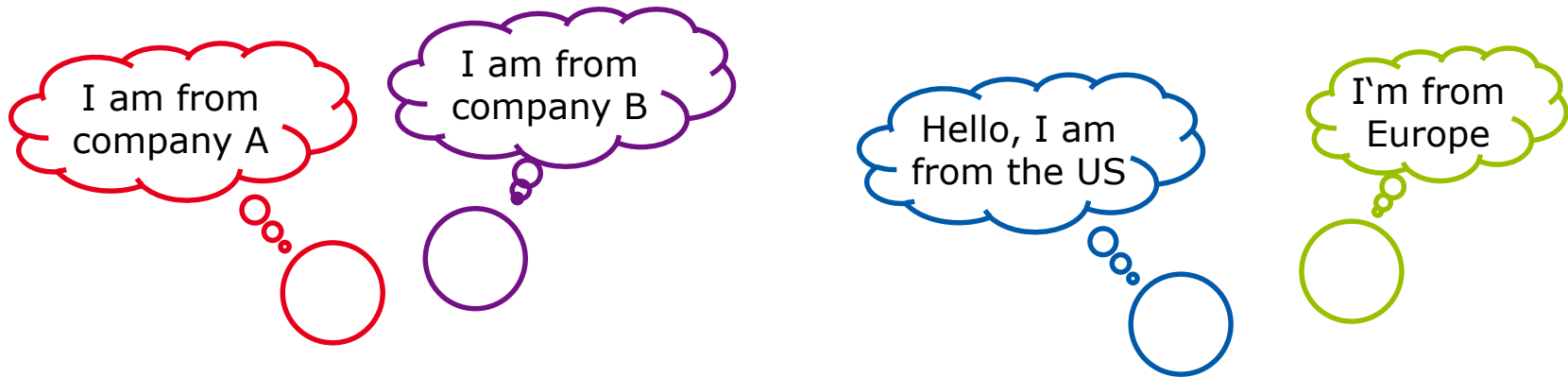
# Paper discussion



Event Bus

# What is the problem with that?

Event producers and consumers are all over the place



What does it mean if an event notification reads

**weight = 25**

**Interpretation** adds meaning to data!

# Why this is more than data integration

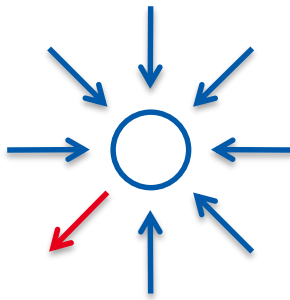
There are commercial products for data integration in databases

**But:** EBS have some key additional challenges

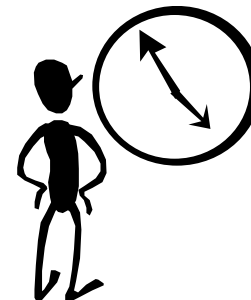


Source: [www.ingenesisist.com](http://www.ingenesisist.com)

anonymity



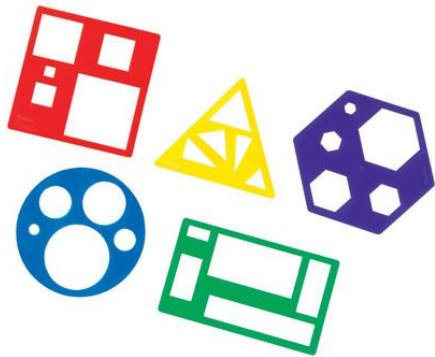
dynamics



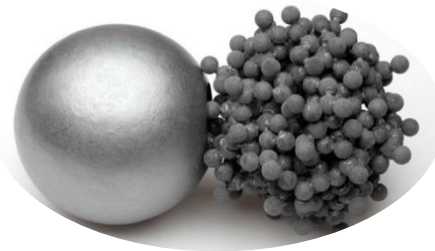
latencies important

# ACTrESS uses interpretation contexts

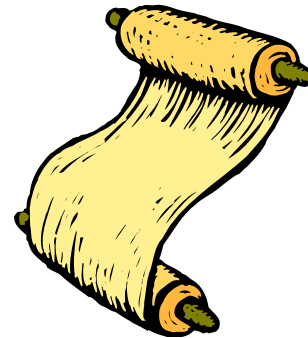
Producers and consumers pass their **interpretation context** to the broker network



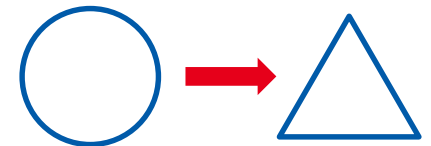
data types



unit  
assignments

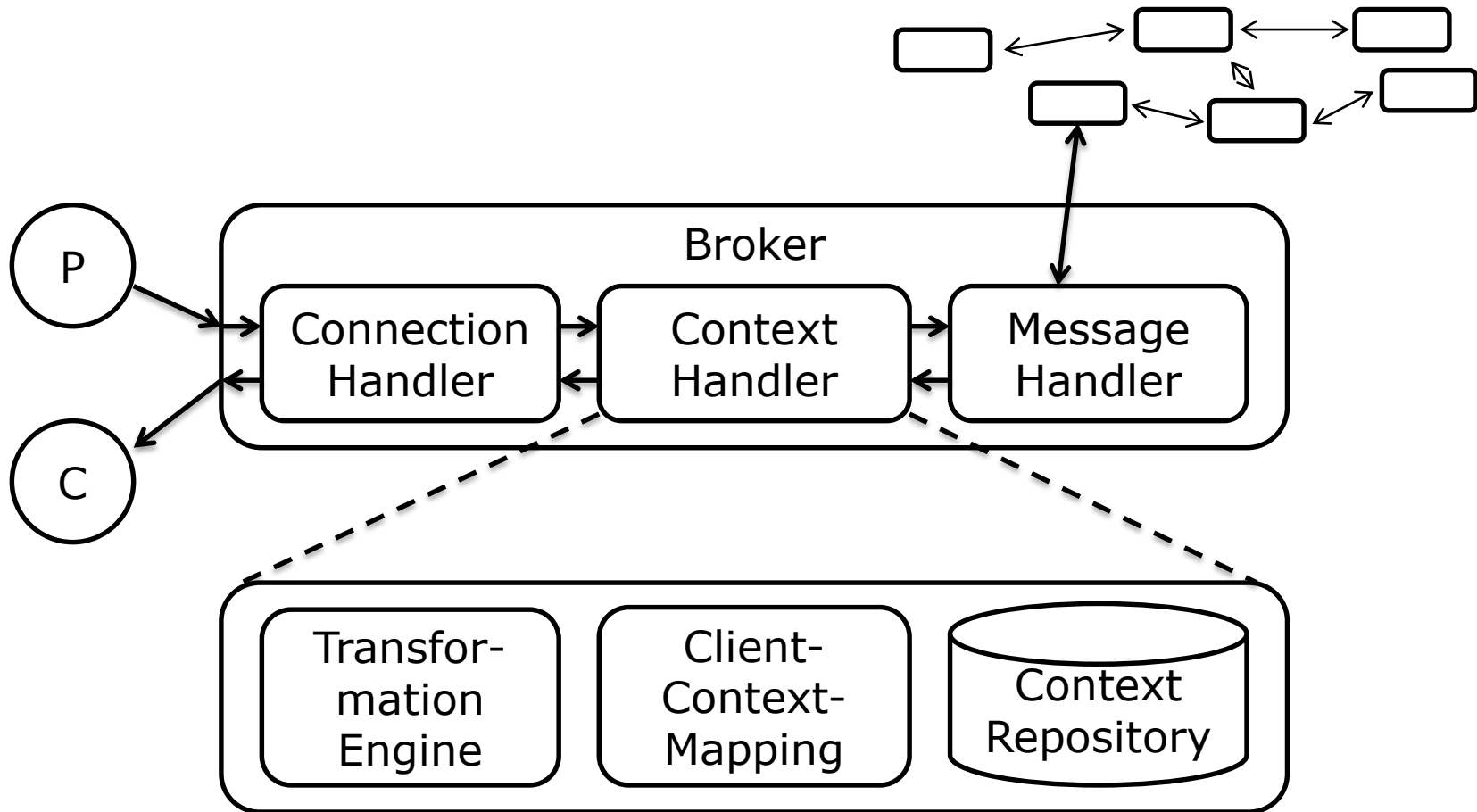


transformation  
rules

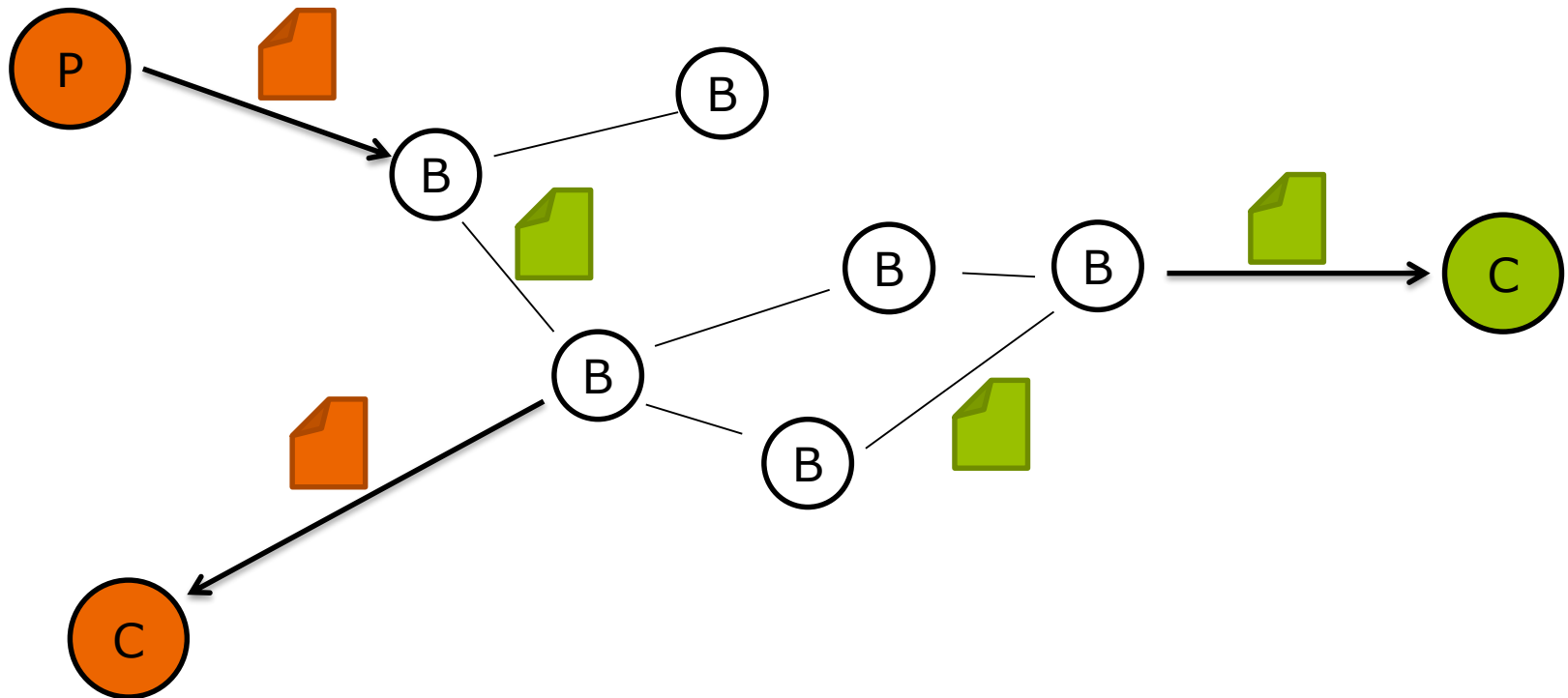


conversion  
functions

# The architecture of ACTrESS



# Paper discussion





# Questions

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