

In this demo we present DYNAMOS

“Dynamically Adaptive microservice-OS”

Dynamic microservices for data-exchange systems

DYNAMOS was built to experiment with  
'data-exchange' scenarios

For example, distributed machine learning on  
airplane engine data

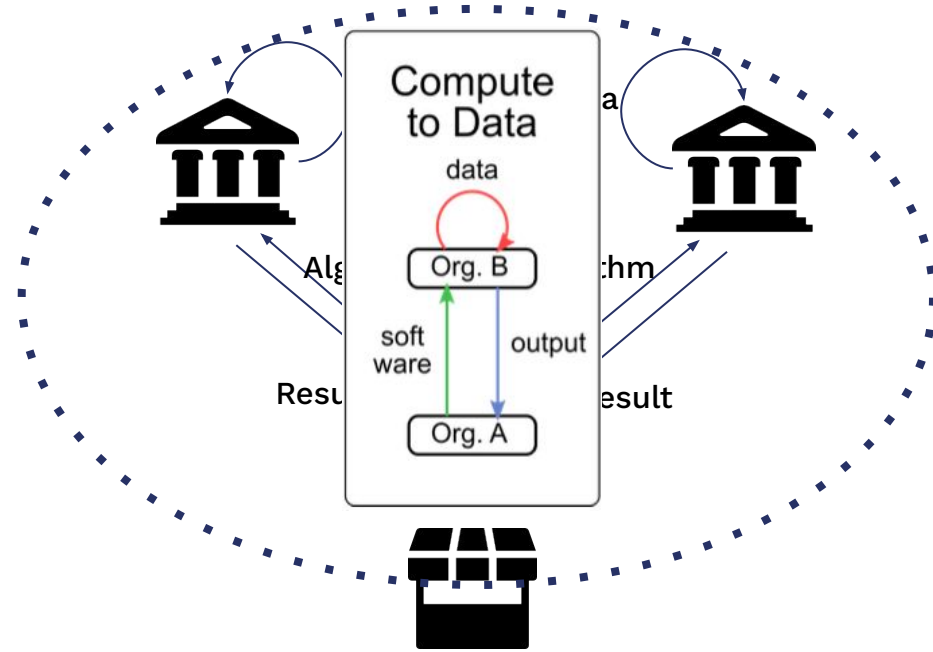
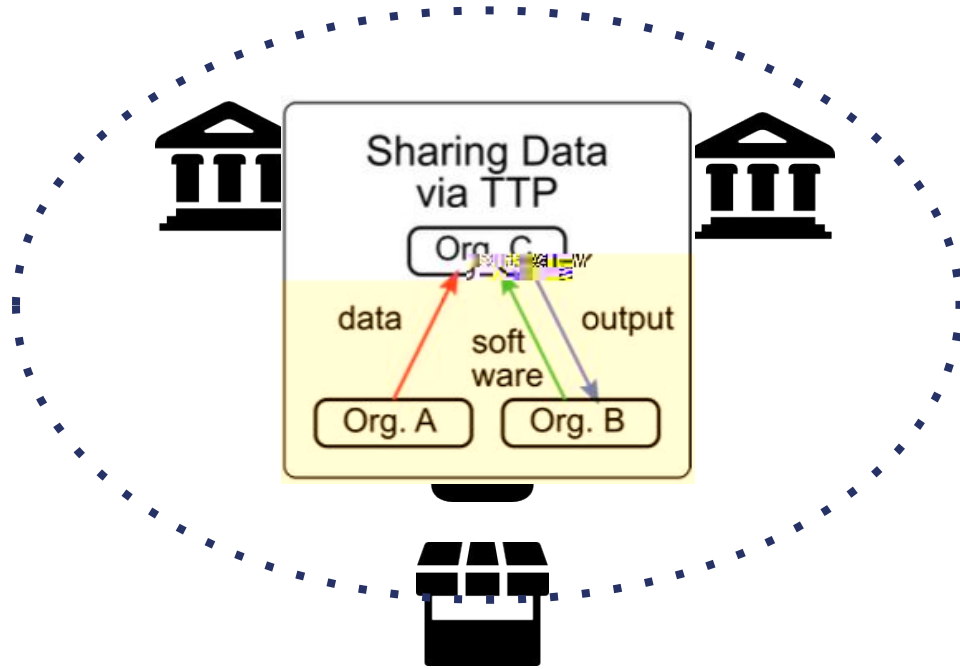
All actions enforced by programmable *policy*

In this demo we will show how DYNAMOS  
picks an archetype based on user input and on  
policy

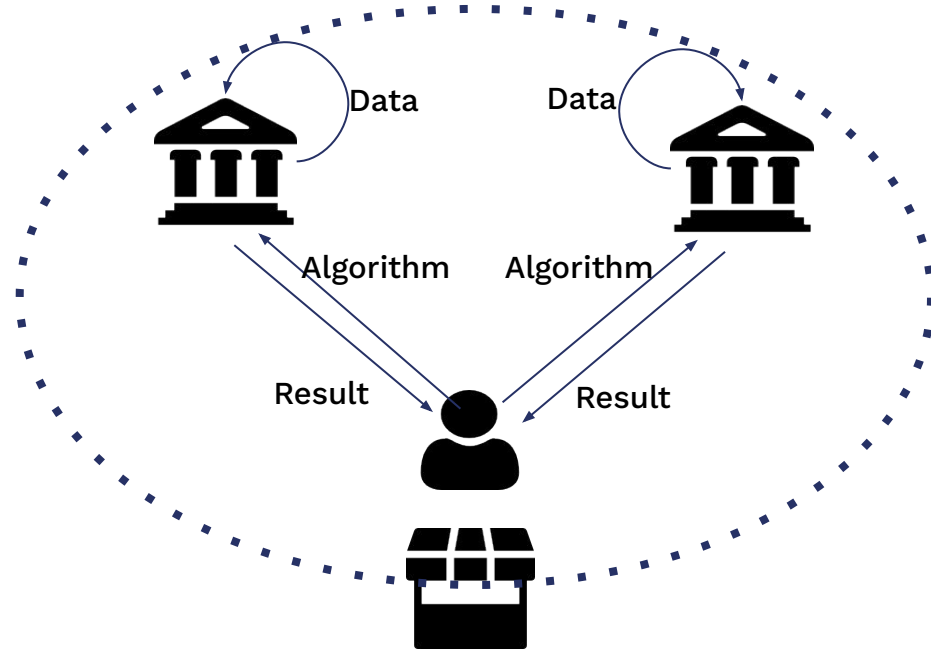
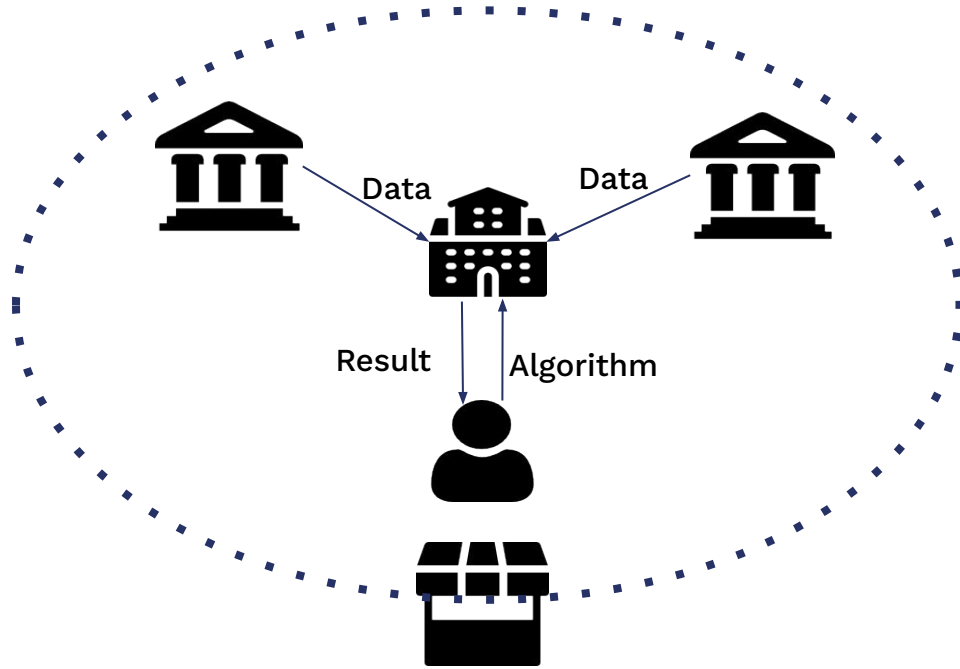
The microservices are composed by generating a  
'Microservice Chain' which is checked with a  
policy engine

Now we will show the 'data through a trusted  
third party' archetype

# DEMO



# DEMO



We will send our algorithm request to a trusted  
third party

There, university wage information data will be  
collected, aggregated and returned



Next we will show that a this single request spins  
up containers on three different nodes

The single-use job will be deleted after  
completion

Now we will do the same request, but with the  
'compute to data' archetype

Afterwards it shows how now different services  
will be created only on each data provider

The results will be send back one by one