

NDS Labs

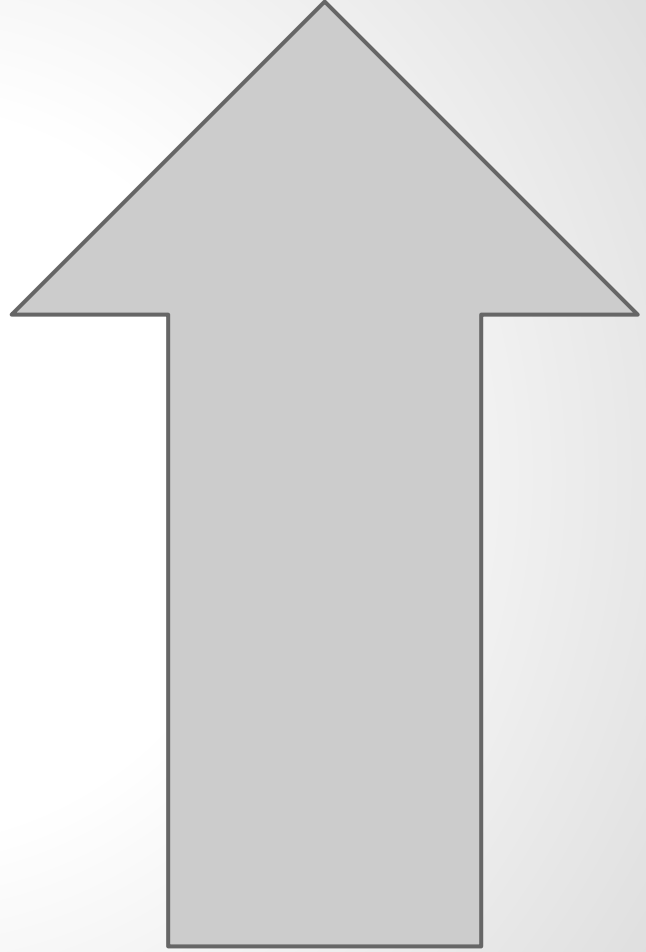
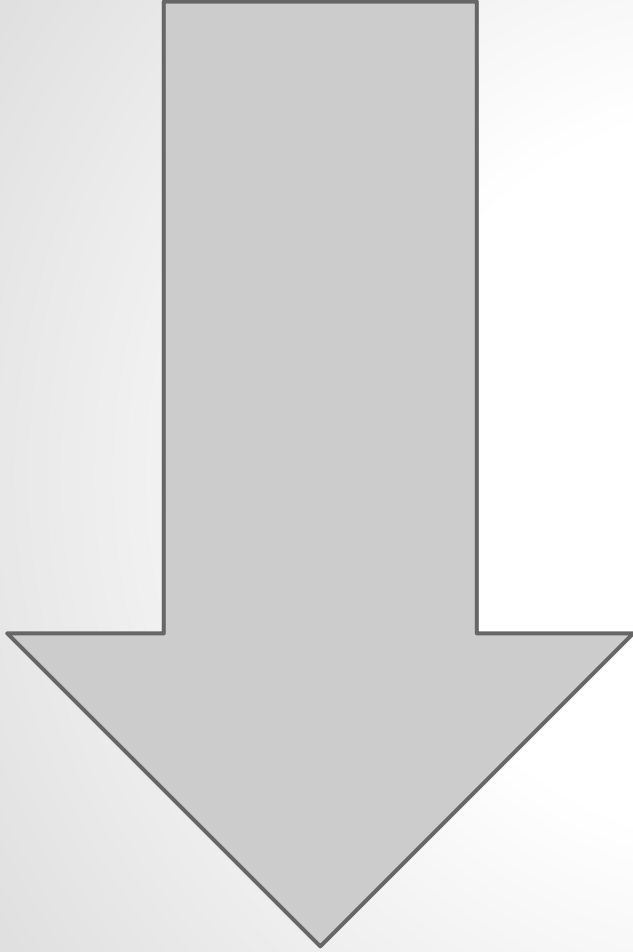
Matt Turk, on behalf of the NDS Labs team

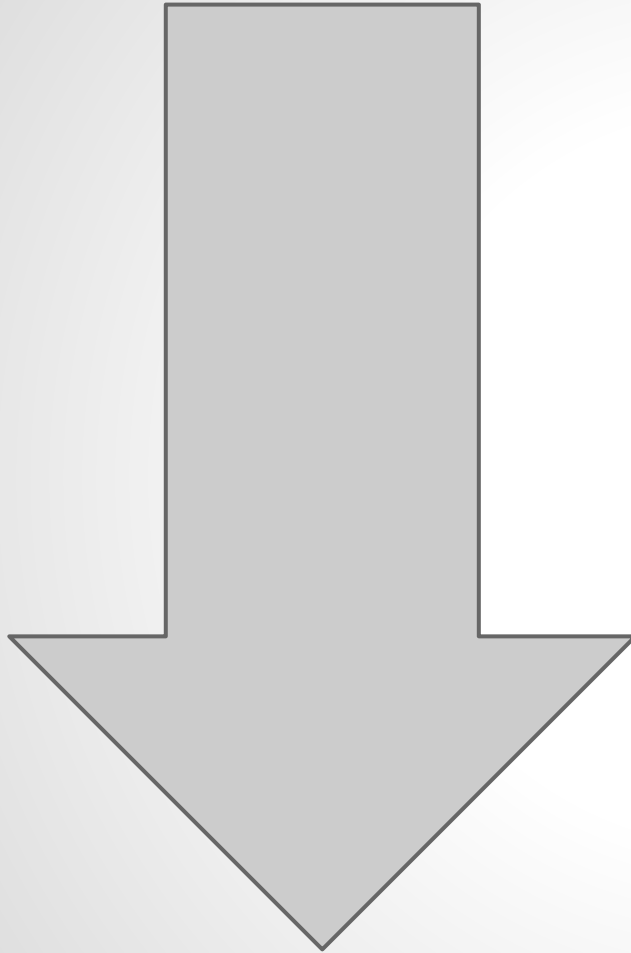
Kieran Evans
Mario Felarca
Mike Freemon
Jason Kastner
Kacper Kowalik
Dan LaPine
Ray Plante
Ian Taylor
Kandace Turner-Jones

I have a confession.

I am a domain scientist.

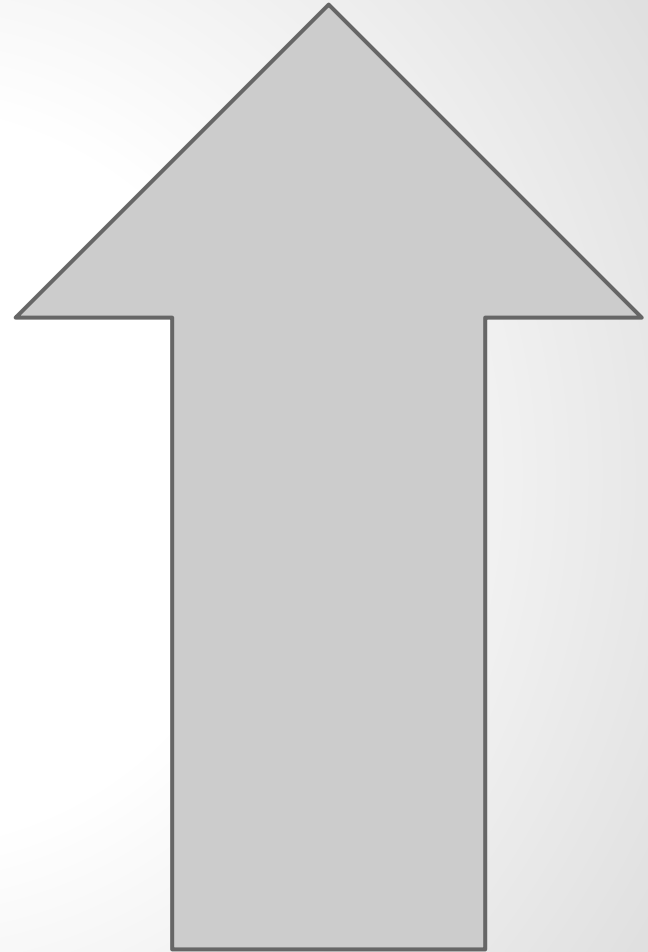
Data presents an existential crisis.



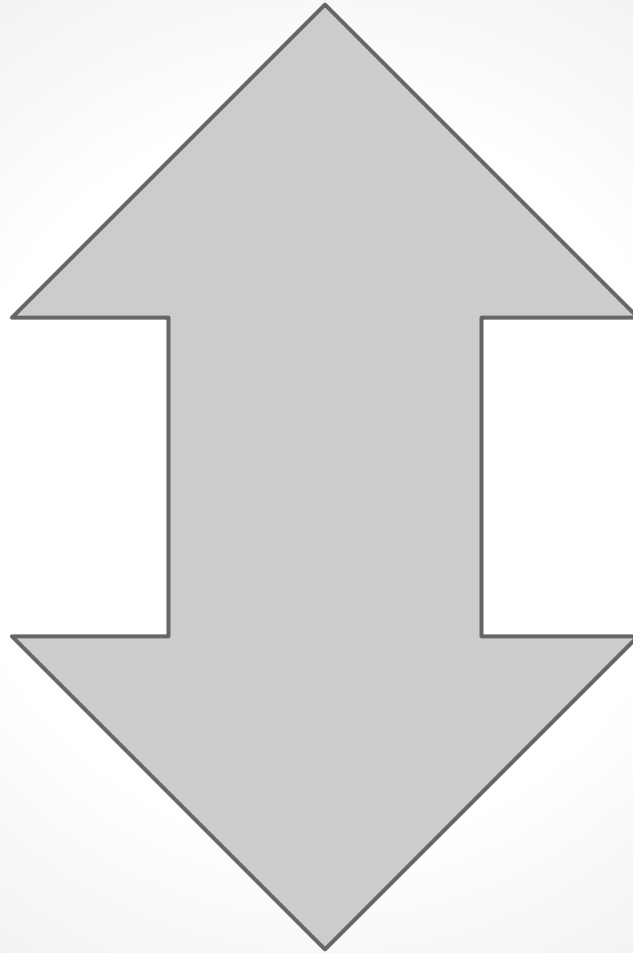


Top down model is disconnected and disempowering.

Bottom up model
requires resources
and experiences.



Synthesize and empower.

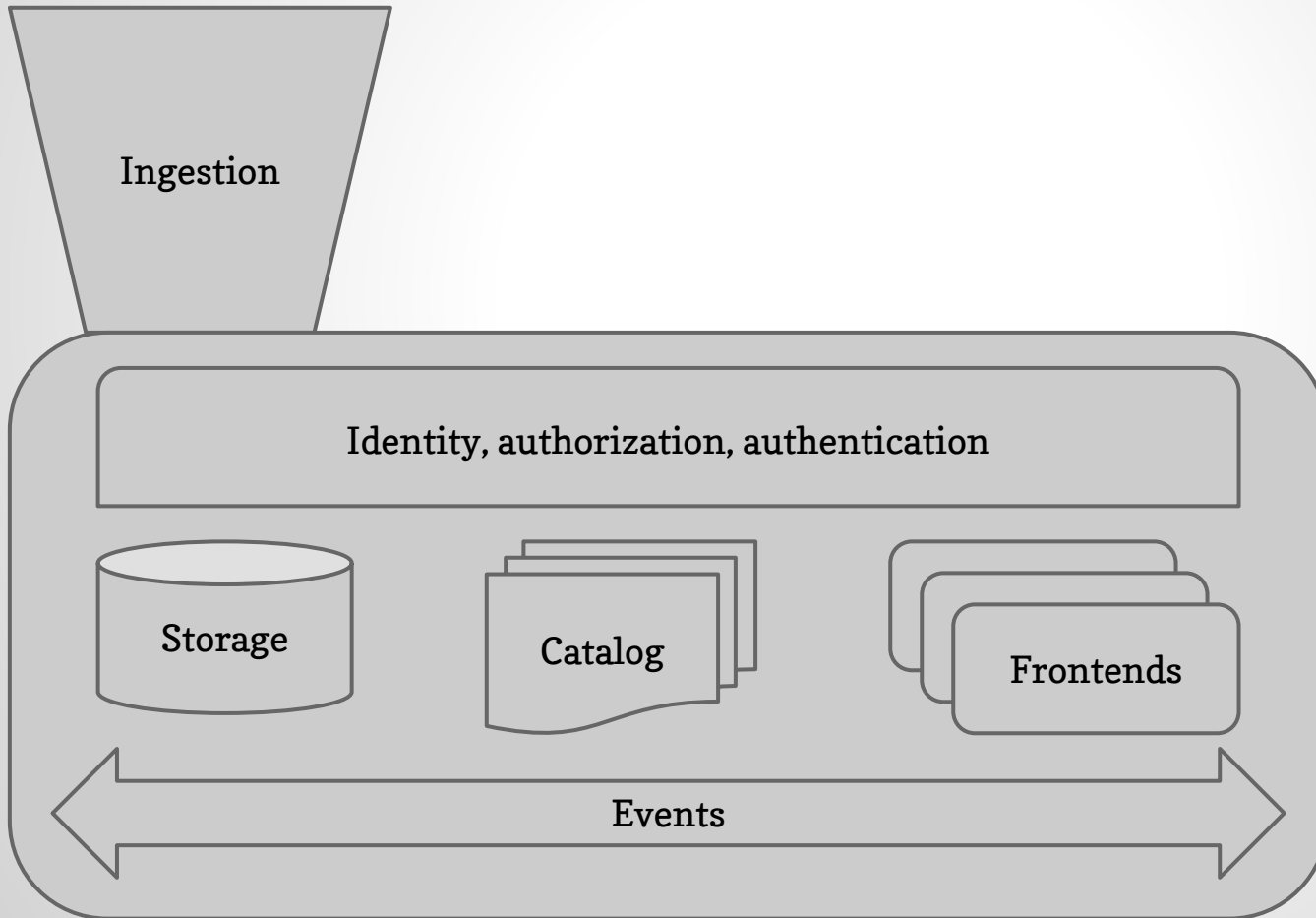


Components

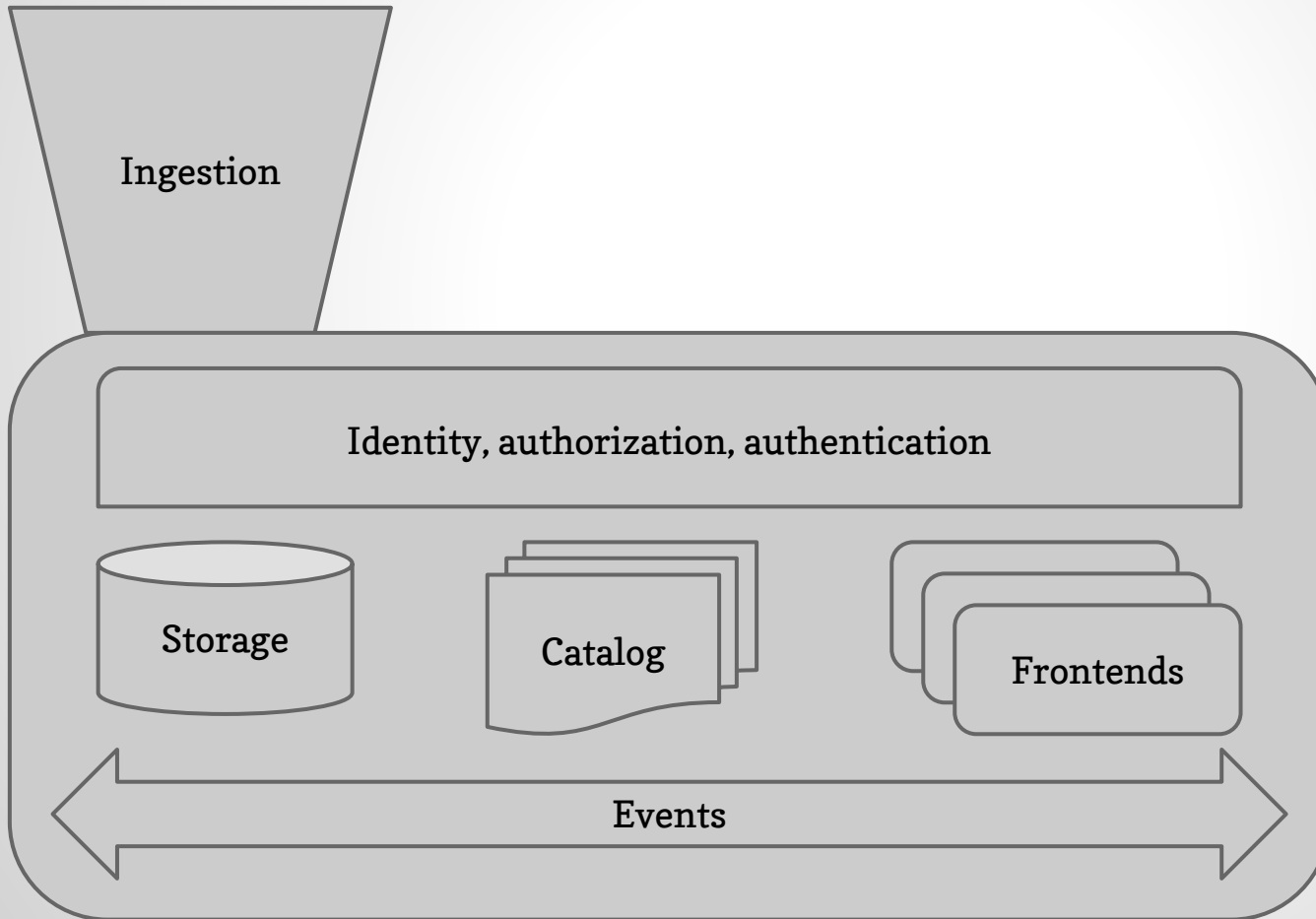
Process

Network

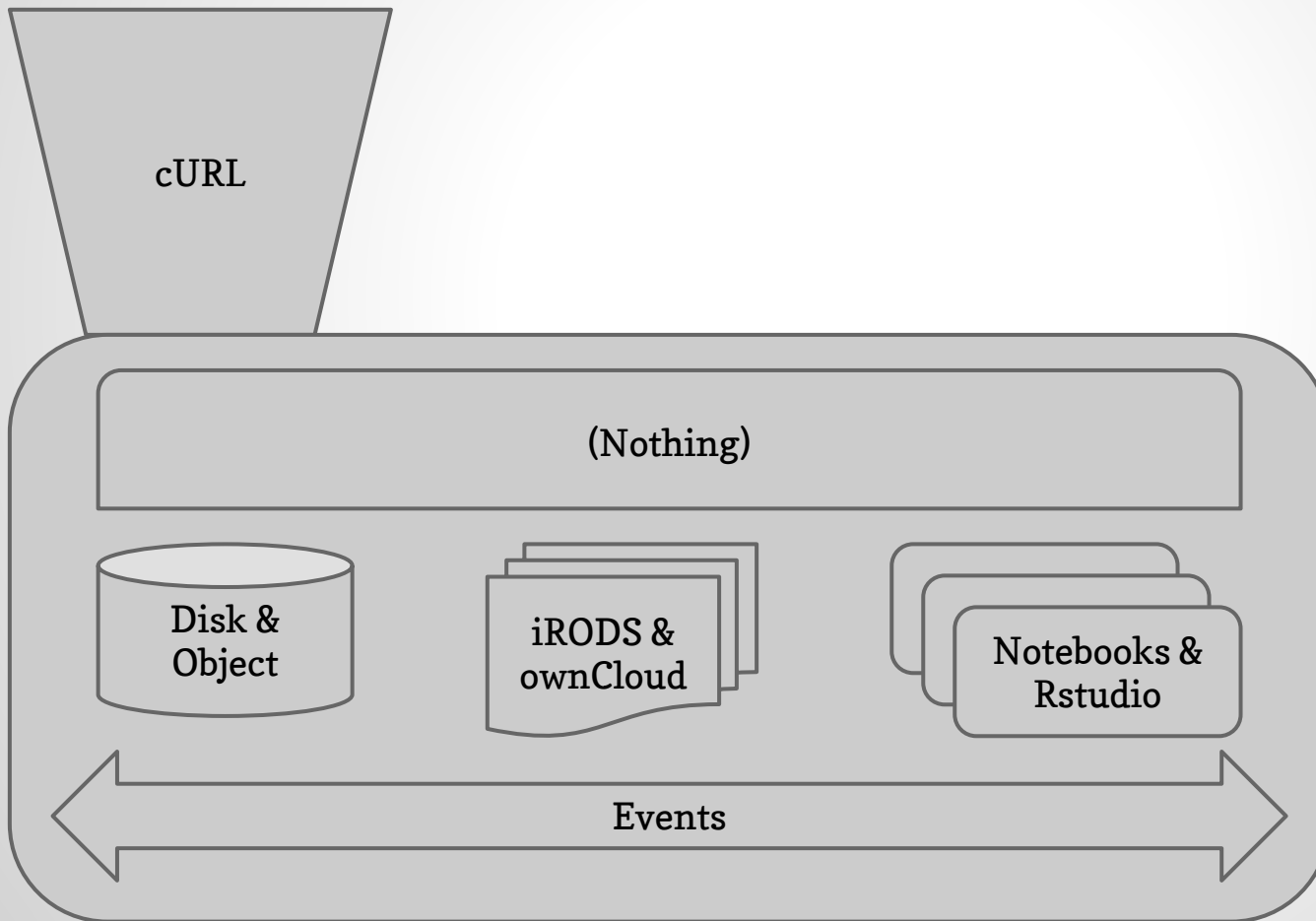
Experimental environment



Deliberately No Names



“Reference” Implementation



<http://bitbucket.org/nds-org/>

<http://bitbucket.org/nds-org/nds-labs/>

<http://github.com/nds-org/>

Container Recipes
Cluster Orchestration System
Container Orchestration System



Container



Container

Environment Variables

Volumes

Container Links

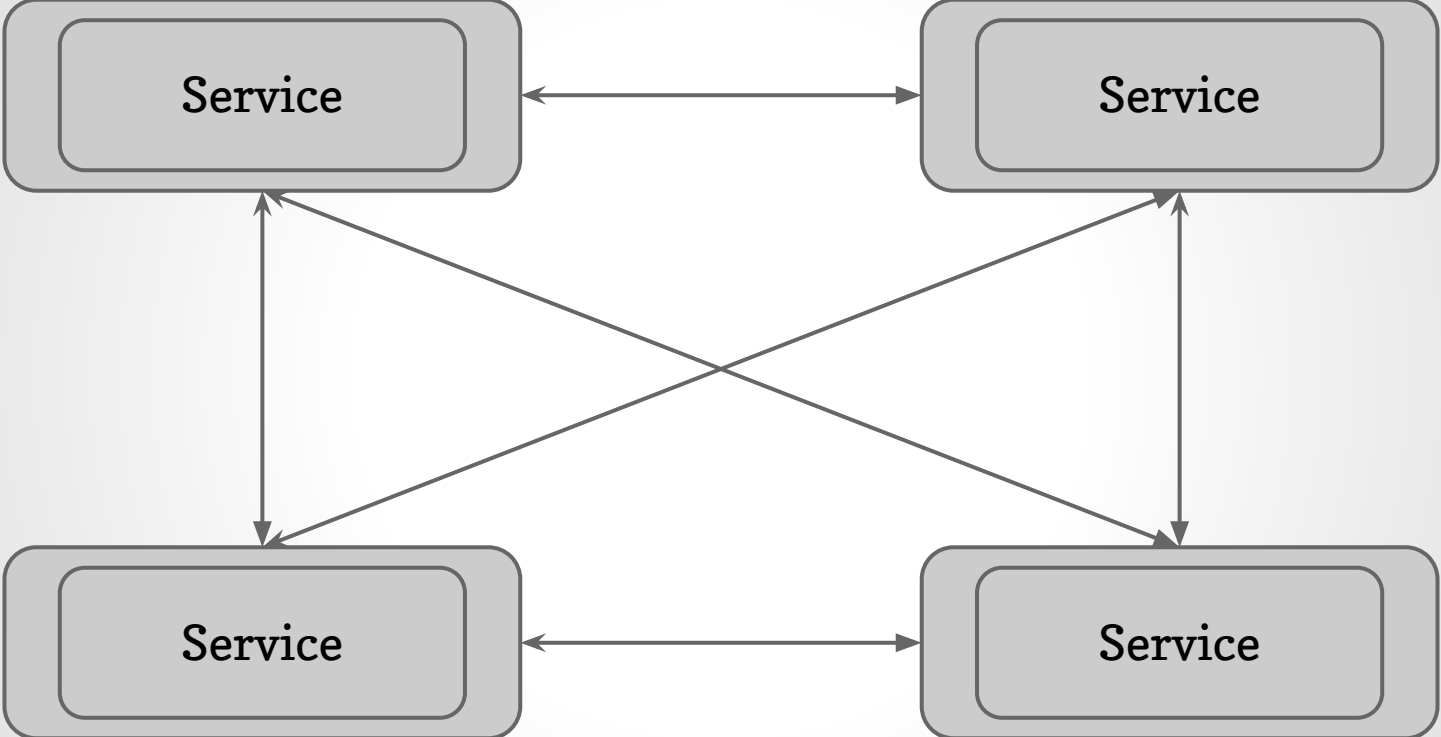
Container

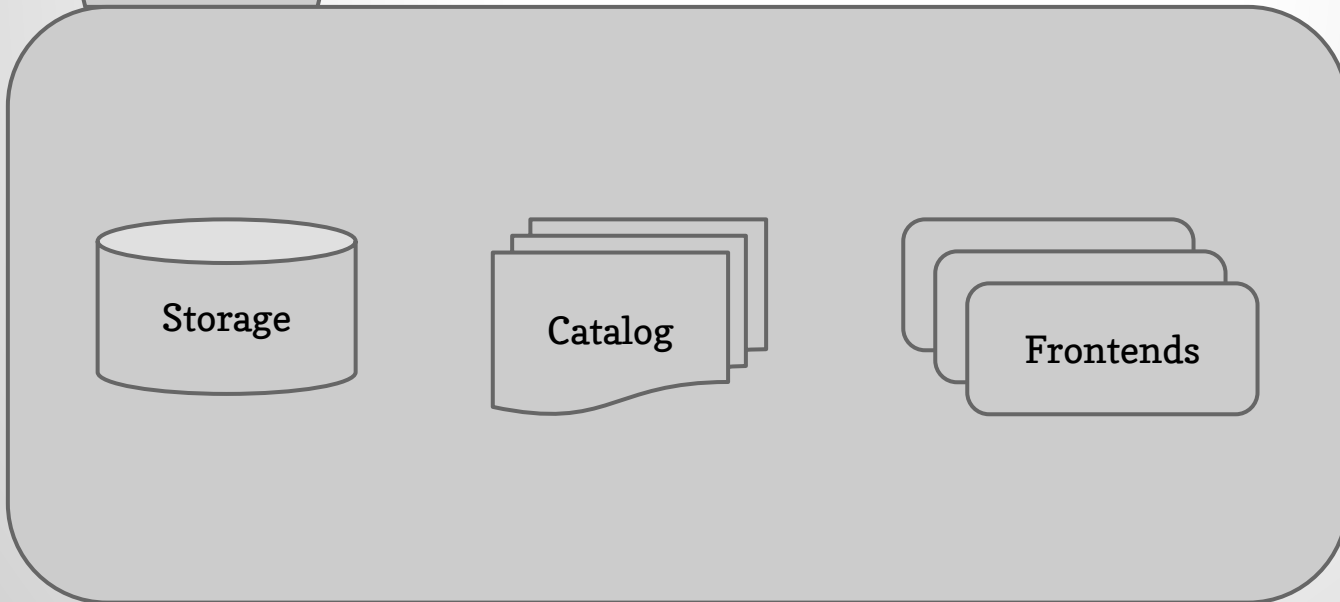
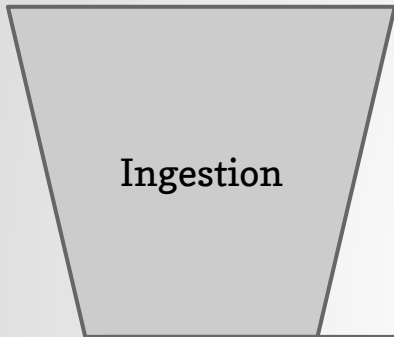
Environment Variables	Dataset information, federation information
Volumes	Persistent storage volumes and ephemeral storage volumes
Container Links	Databases, transformers, extractors, services



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“Application”
Credentials
Deployment
Interaction
“Reporting”

**Interoperability does not arise
naturally in a vacuum.**

`discuss@nationaldataservice.org`

1. Components
2. Process
3. Network

1. Critical services are not yet in place.
2. The barrier to entry is too high.
3. Network is still sparking to life.

Thank you.

labsportal.nationaldataservice.org

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