

# Protect

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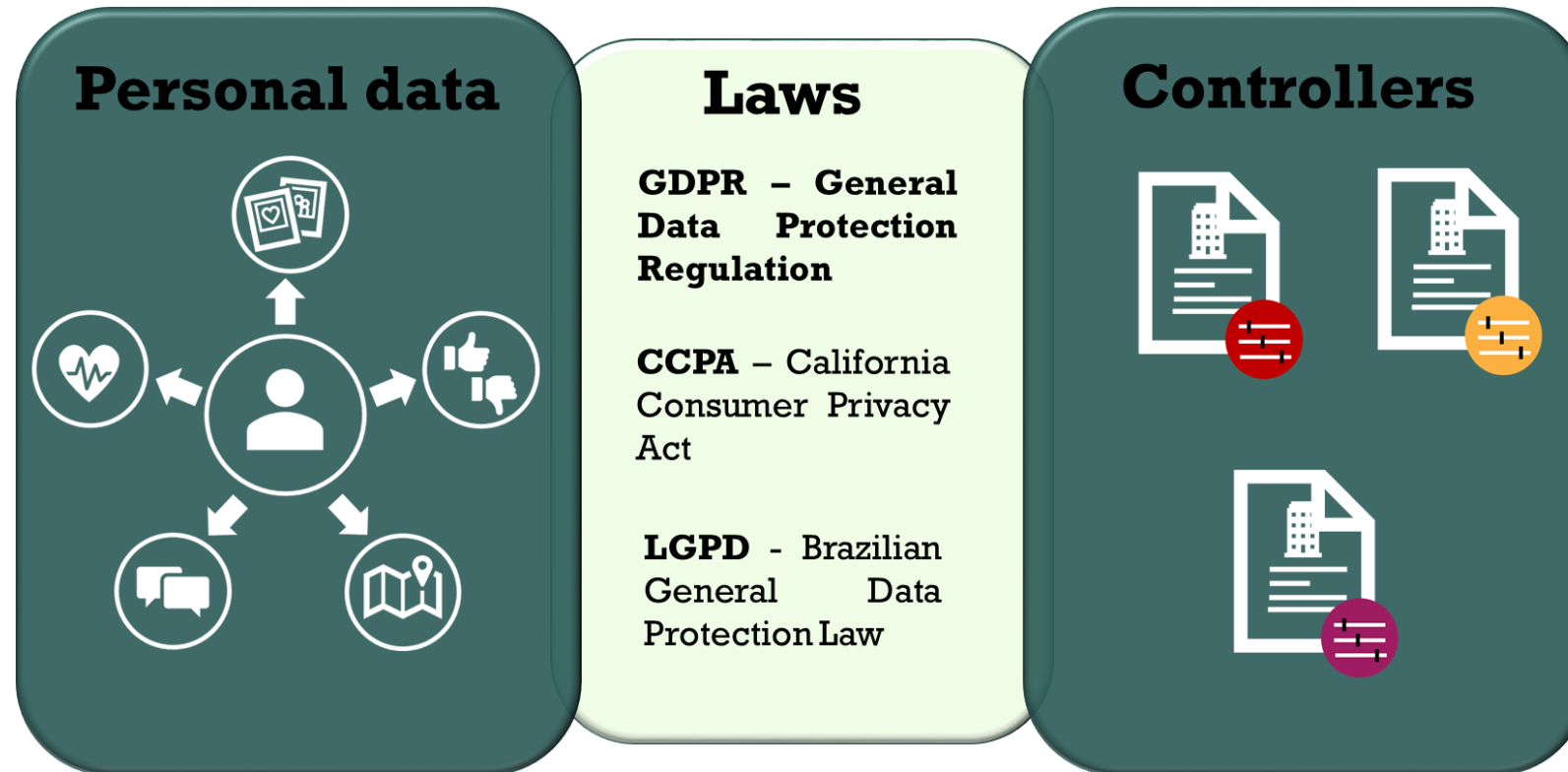
Can privacy terms be negotiated  
in Solid's personal datastores?

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# Privacy and the impact of data protection laws

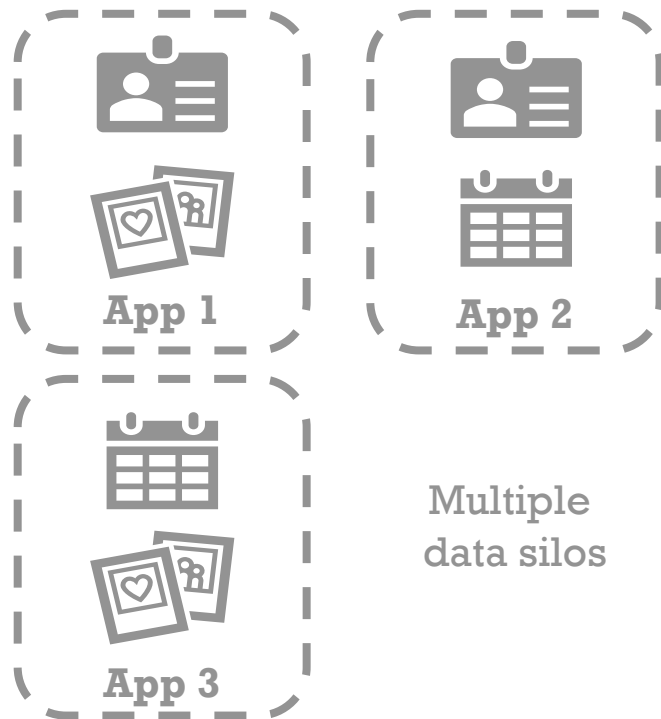


**Privacy Term:** items of information that need to be specified to represent concepts related to the preferences and rights of data subjects and to the policies and obligations of data controllers regarding privacy and personal data protection.

# Centralized / decentralized systems



## Centralized Web services



Examples: Facebook, LinkedIn, Twitter, ...

## Decentralized Web services



Examples: Solid, Hub of All Things, Meeco

# Solid – Access Control Authorizations



**Solid**

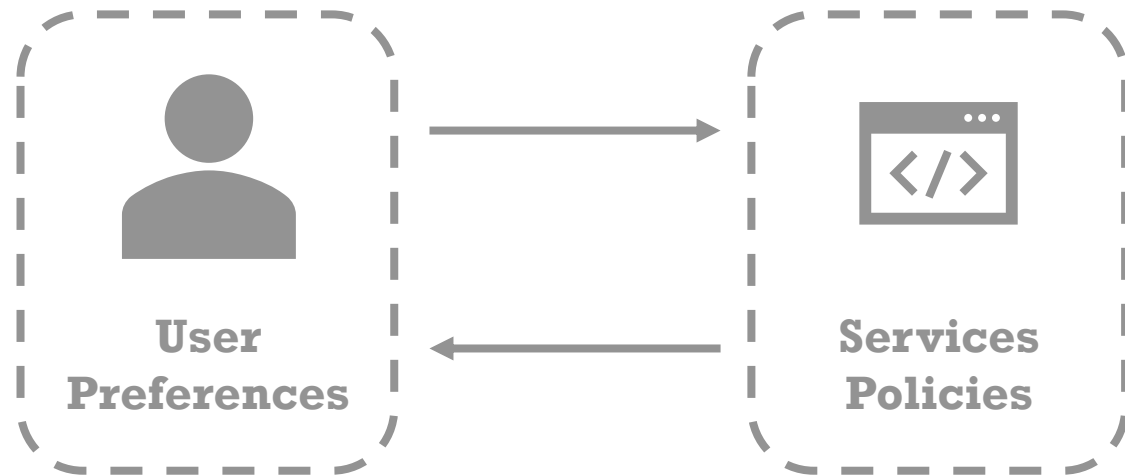
Beatriz has full access to one of her web resources,  
located at [https:// beatriz.databox.me/docs/file1](https://beatriz.databox.me/docs/file1).

```
<#authorization1>  
  a acl:Authorization;  
  acl:agent <https://beatriz.databox.me/profile/card#me>;  
  acl:accessTo <https://beatriz.databox.me/docs/file1>;  
  acl:mode acl:Read, acl:Write, acl:Control.
```

```
:policy-1 a odrl:Policy ;  
  odrl:permission [  
    a odrl:Permission ;  
    odrl:assigner <https://beatriz.databox.me/profile/card#me>;  
    odrl:target dpv:Contact ;  
    odrl:action acl:Read ;  
    odrl:constraint [  
      odrl:leftOperand dpv:Purpose ;  
      odrl:operator odrl:isA ;  
      odrl:rightOperand dpv:ResearchAndDevelopment  
    ]  
  ].
```

Beatriz gives read-only permission to  
her Contact information for R&D

# Negotiation of privacy terms



Automation: Reasoning / inferences over machine readable policies

There are cases where human intervention is needed:

- i. I want to be notified every time a service wants my data for research;
- ii. I want to be notified if someone wants access to my financial data;
- iii. The service needs explicit consent from the user.



Complexity of ODRL policies

Correctness and validity

Global and jurisdictional components

Consent



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## Thank you!

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