

Protect

Altruistic (Re-)Use of Health Data through Semantic Policies

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2nd DPSN International Data Protection Day

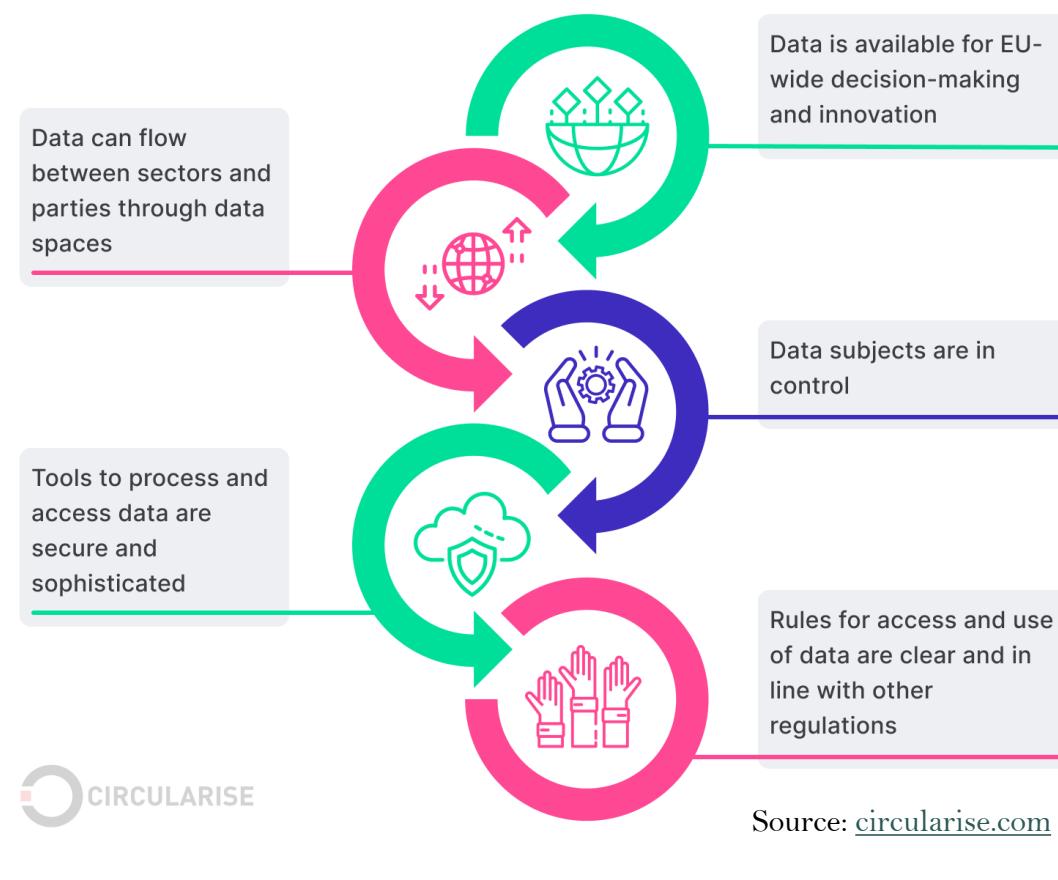
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Motivation

European strategy for data



Sharing data for altruistic purposes



Data Holder

Government
Individuals
Business

Intermediary

Data User

Business
Research

European Data Spaces

Manufacturing
Green Deal
Mobility

Finance
Health (highlighted)
Public administration

Agriculture
Open Science Cloud
Energy
Skills



Extending DUO with ODRL and DPV for Health Data Sharing



<https://w3id.org/duodrl/repo>

H. J. Pandit, B. Esteves (2022). Enhancing Data Use Ontology (DUO) for Health-Data Sharing by Extending it with ODRL and DPV. Under review in the Semantic Web Journal.
<http://www.semantic-web-journal.net/system/files/swj3127.pdf>

```
:Offer2 a odrl:Offer ;
  rdfs:label "Offer to use dataset using GDPR's Explicit Consent, and requiring a DPIA" ;
  odrl:target <https://example.com/Dataset> ;
  odrl:action dpv:Use ;
  dpv:hasApplicableLaw dpv-geo:GDPR ;
  odrl:permission [
    odrl:constraint [
      odrl:leftOperand dpv:hasLegalBasis ;
      odrl:operator odrl:isA ;
      odrl:rightOperand dpv-gdpr:A6-1-a-explicit-consent ] ] ;
  odrl:permission [
    odrl:constraint [
      odrl:leftOperand dpv:hasOrganisationalMeasure ;
      odrl:operator odrl:isA ;
      odrl:rightOperand dpv:DPIA ] ] ;
```

Future Work

- Extend DPV with concepts from the Data Governance Act, Data Act, AI Act, ePrivacy, Data Spaces, ...
- Extend Proof-of-Concept implementation to determine access to health data stored in personal data vaults such as Solid, OwnYourData, ...