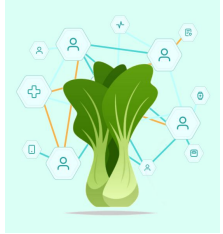

Paving the Way from Privacy to Trust

Beatriz Esteves, UGent – imec, BE

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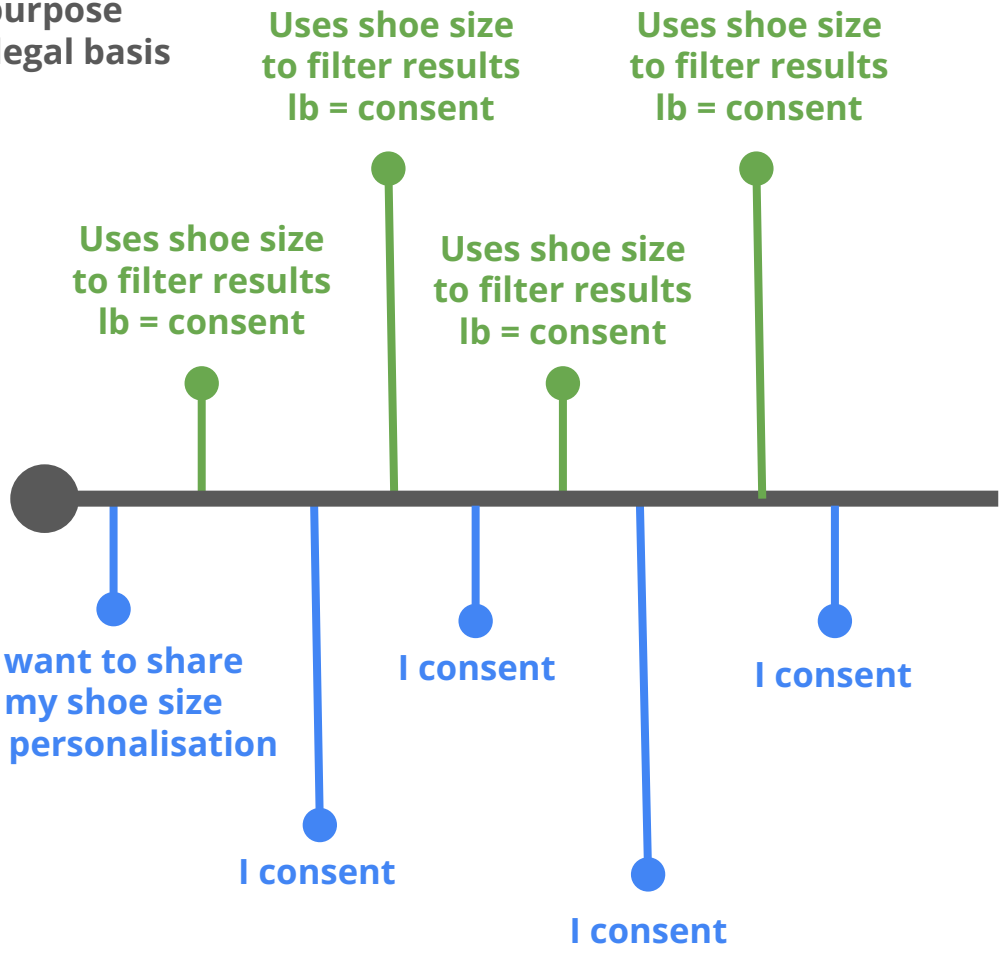
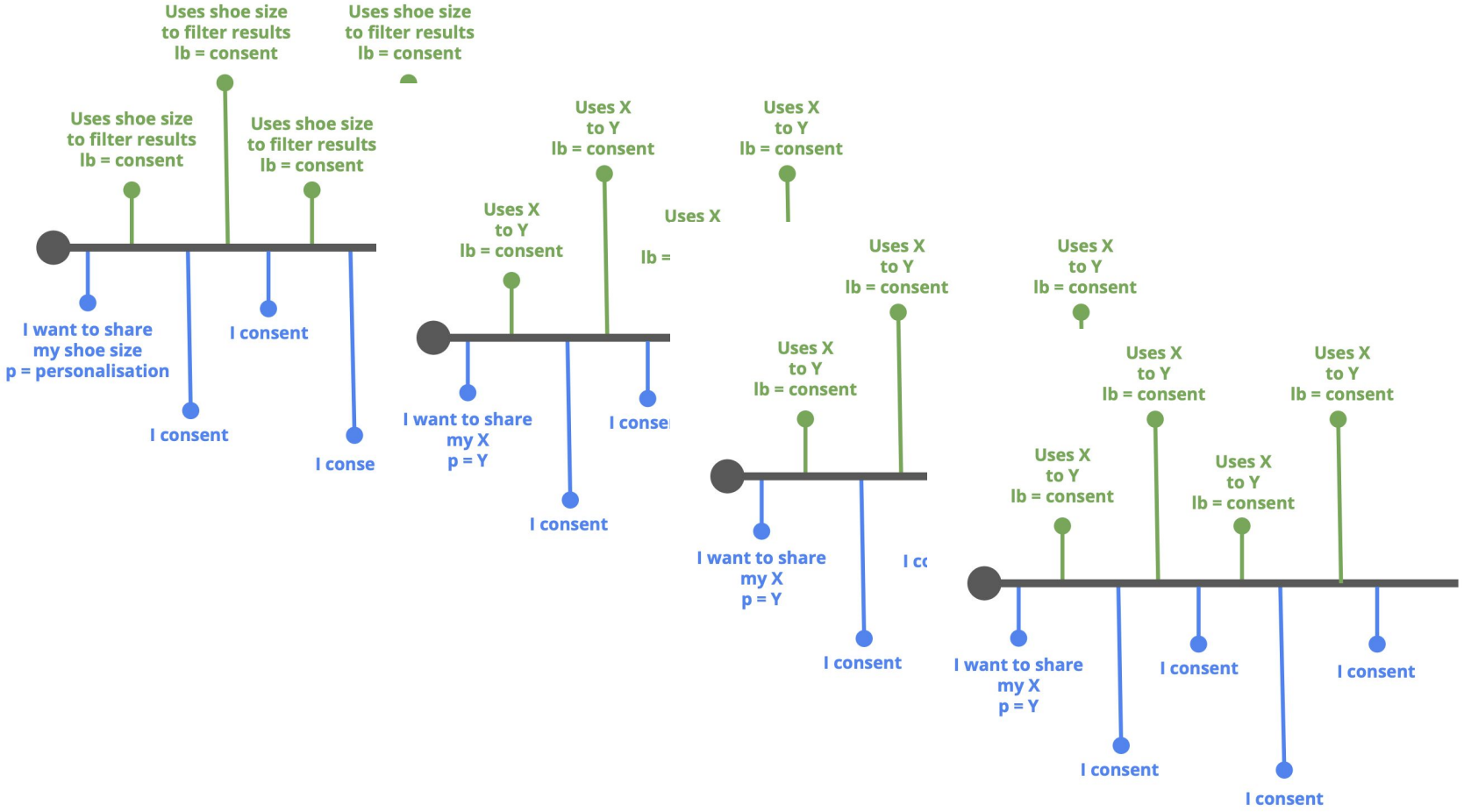
p→purpose
lb→legal basis

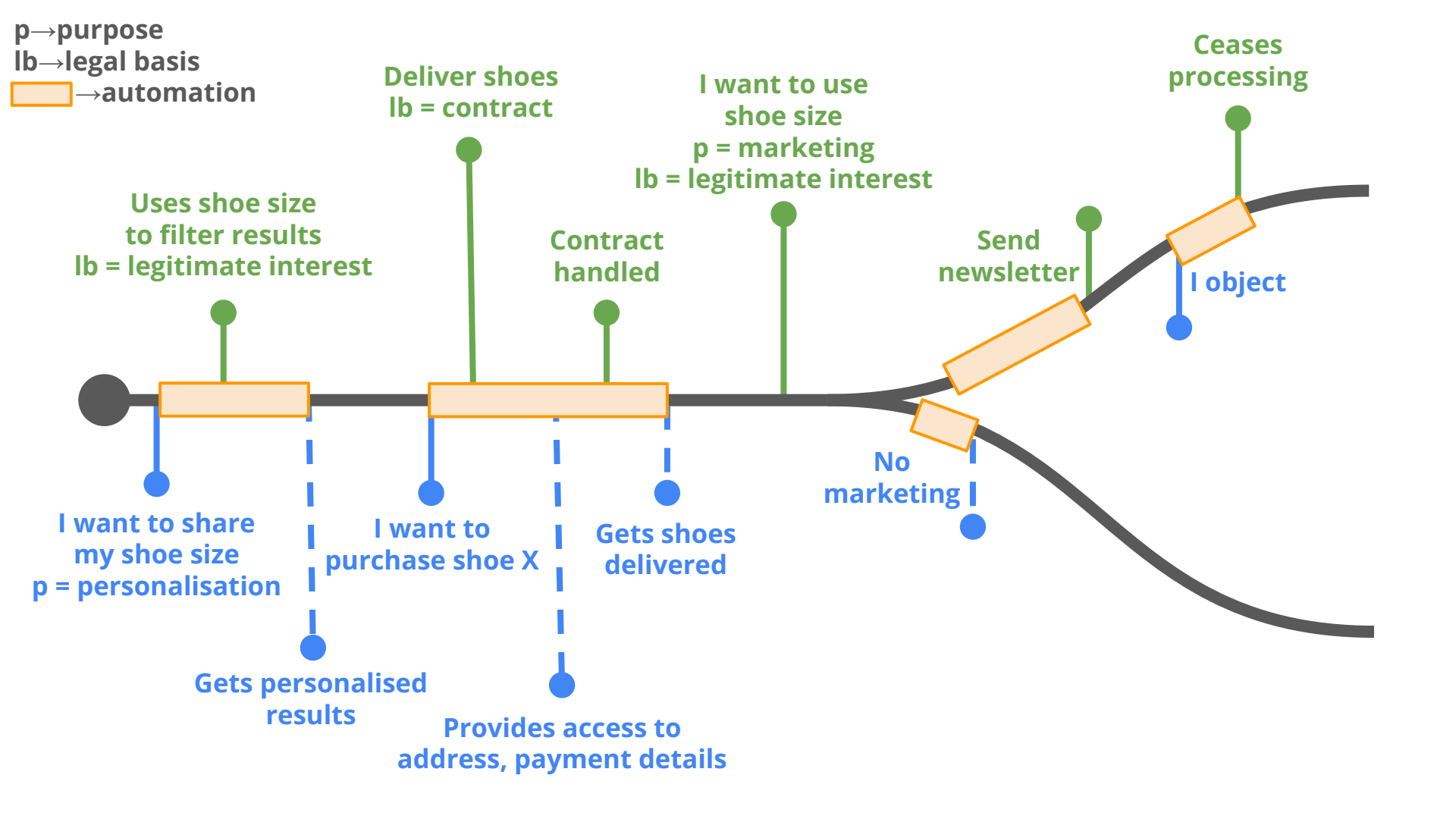



Uses shoe size to filter results lb = consent
Uses shoe size to filter results lb = consent
Uses shoe size to filter results lb = consent
Uses shoe size to filter results lb = consent
I want to share my shoe size p = personalisation
I consent
I consent
I conse
Uses X to Y lb = consent
Uses X to Y lb = consent
Uses X
lb =
I want to share my X p = Y
I consent
I conse
Uses X to Y lb = consent
Uses X to Y lb = consent
Uses X to Y lb = consent
I want to share my X p = Y
I consent
I cc
Uses X to Y lb = consent
Uses X to Y lb = consent
Uses X to Y lb = consent
Uses X to Y lb = consent
Uses X to Y lb = consent
I want to share my X p = Y
I consent
I consent
I consent

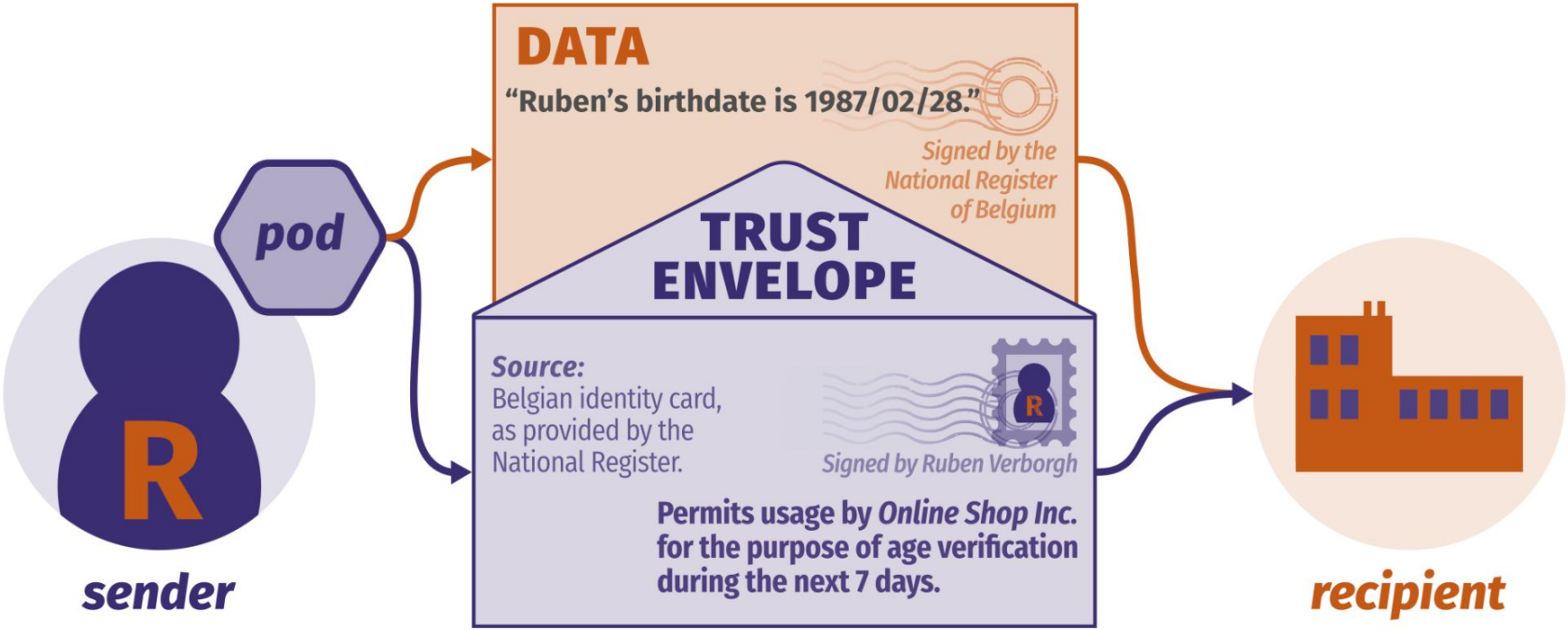
wants to be

Dobby ~~is~~

a Free Elf


p→purpose
lb→legal basis
→automation
Deliver shoes
lb = contract
I want to use
shoe size
p = marketing
lb = legitimate interest
Ceases
processing
Uses shoe size
to filter results
lb = legitimate interest
Contract
handled
Send
newsletter
I object
No
marketing
I want to share
my shoe size
p = personalisation
I want to
purchase shoe X
Gets shoes
delivered
Gets personalised
results
Provides access to
address, payment details

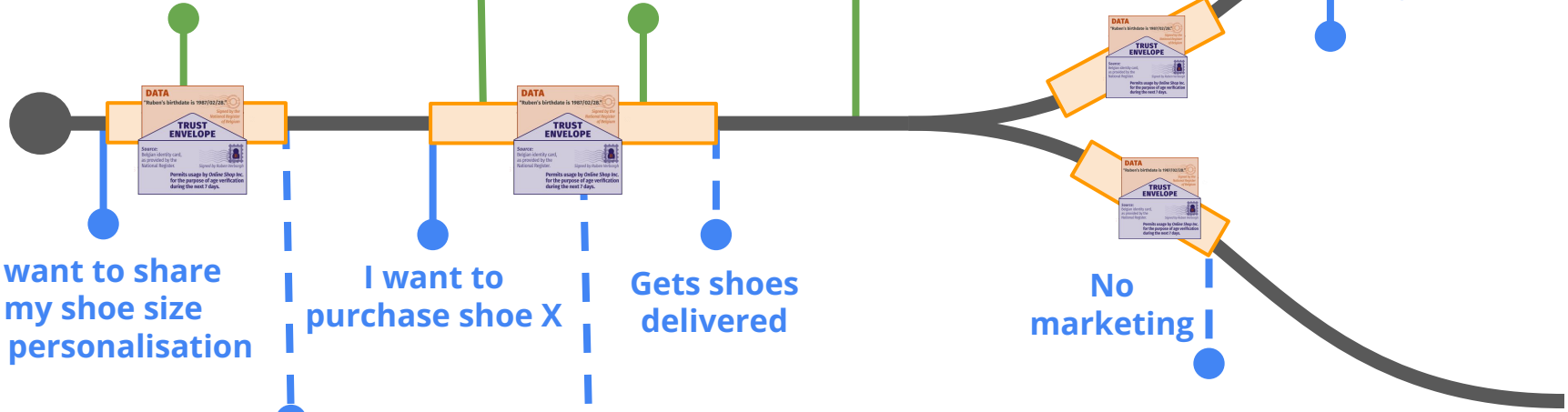
Trust envelopes as vehicles of history & destiny



CC BY

Ruben Verborgh
https://ruben.verborgh.org

p→purpose
lb→legal basis
→automation



Uses shoe size to filter results
lb = legitimate interest

Deliver shoes
lb = contract

Contract handled

I want to use shoe size
p = marketing
lb = legitimate interest

Send newsletter

Ceases processing

I object

I want to share my shoe size
p = personalisation

Gets personalised results

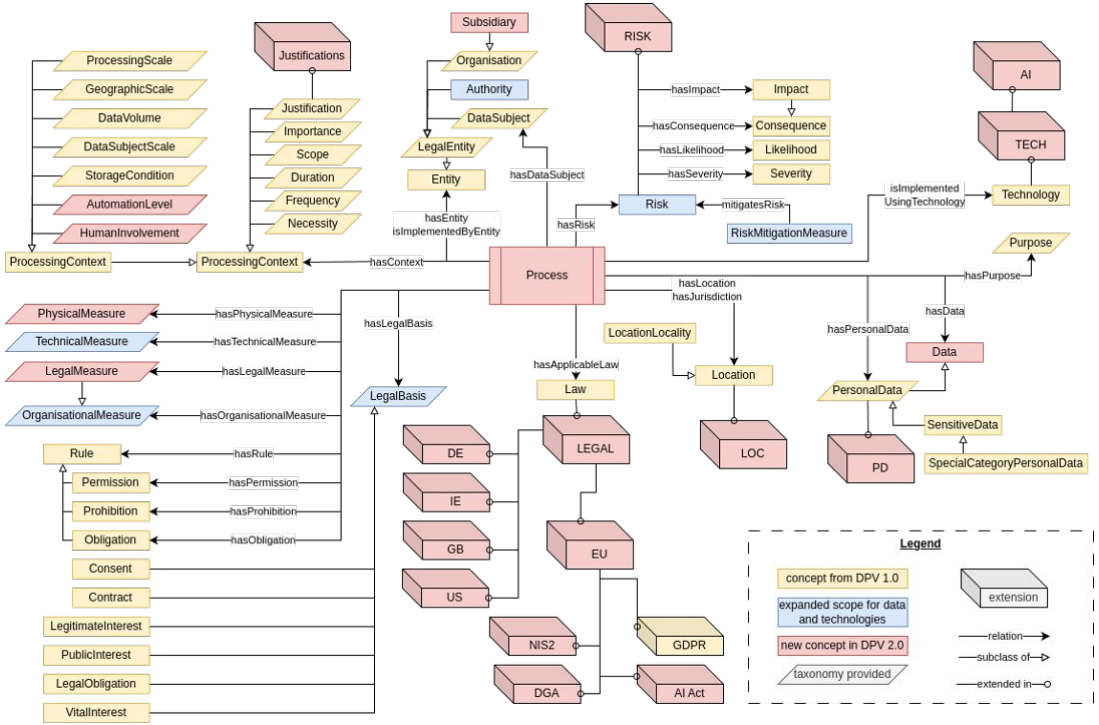
I want to purchase shoe X

Provides access to address, payment details

Gets shoes delivered

No marketing

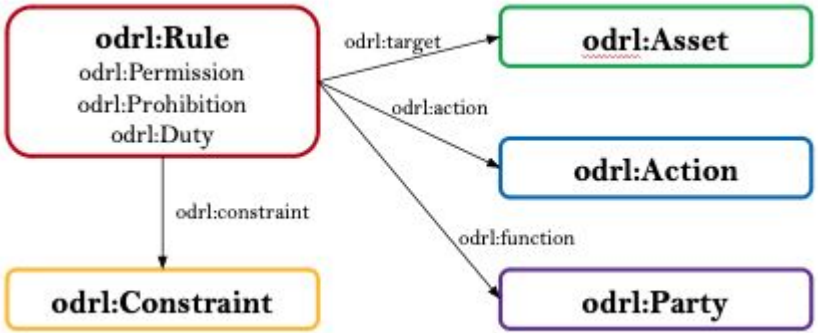
Data Privacy Vocabulary (DPV)



https://w3id.org/dpv

- Developed by the **W3C** Data Privacy Vocabularies and Controls Community Group (**DPVCG**)
- Defines a **jurisdiction-agnostic** ontology for expressing metadata about the processing of personal data
- Provides **hierarchical taxonomies**, from abstract to more specific concepts, to instantiate specific concepts in practical use-cases
- Has **law-specific extensions**

Other semantic standards



W3C Open Digital Rights Language (ODRL)

https://www.w3.org/TR/odrl-model/

Data Catalog Vocabulary (DCAT) - Version 3

W3C Recommendation 22 August 2024

https://www.w3.org/TR/vocab-dcat-3/

PROV-O: The PROV Ontology

W3C Recommendation 30 April 2013

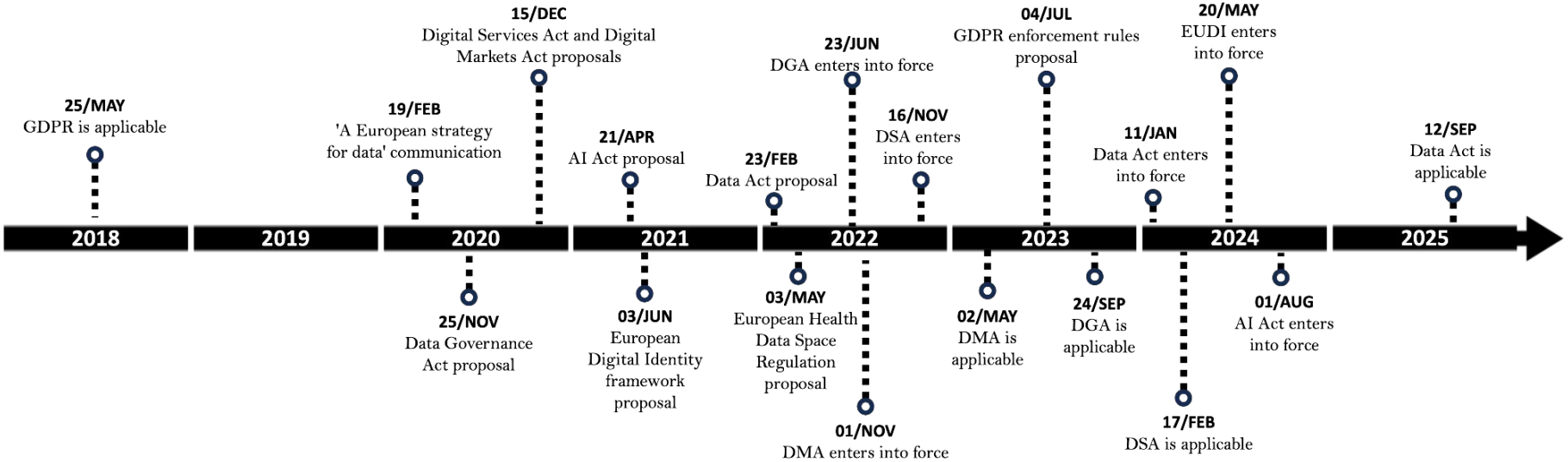
http://www.w3.org/TR/prov-o/

DublinCore

DCMI Metadata Terms

http://purl.org/dc/terms/

Advancing legal compliance in the Solid ecosystem with DPV



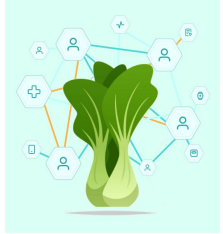
Session: From concept to reality: becoming a pod provider (Friday 25 April, 14h - 17h; room BW0.19)

~ NXDG 2025 ~

NeXt-generation Data Governance workshop 2025

co-located with 21st SEMANTiCS
3-5 September 2025
Vienna, Austria

https://w3id.org/nxdg/2025



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