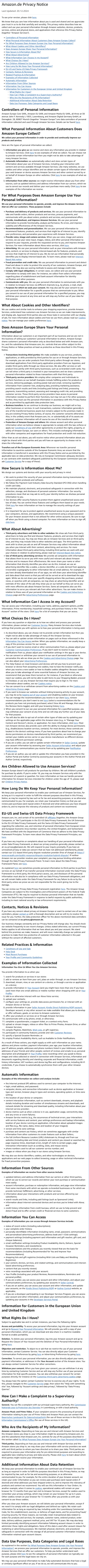


PriPoCoG¹: Empowering End-Users' Data Protection Decisions

Issue

lengthy textual
privacy policies:



Customizable Privacy Policies in new Privacy Policy Interface

Basic Information (required by GDPR):

- Data Controller
- Data Protection Officer
- Data Subject Rights:
 - Access
 - Rectification
 - Restriction
 - Objection
 - Human Intervention
 - Portability
 - Erasure
- Supervisory Authority

Compact Processing Overview:

- Which data for which purpose:
e.g., Behavioral Data is processed for Personalization
- columns = purpose categories:
e.g., Legal Compliance
- rows = data categories:
e.g., Identifying
- cells = processing locations:
e.g., Internally or Outside of EU
- colors = acceptance status:
e.g., purpose completely accepted
- mouse-over = additional information

World Map:

- visualizes destinations of data transfers (cf. *Data Recipients in Purpose Details*)
- destinations highlighted in red
- other countries gray
- no specific country is provided:
 - ↳ map turns orange
 - ↳ question mark as flag
- flags of destinations listed below map
- zoomable & navigatable

Main Controls:

- status of policy: compatible incompatible
- quick menu
- similar to cookie-banners

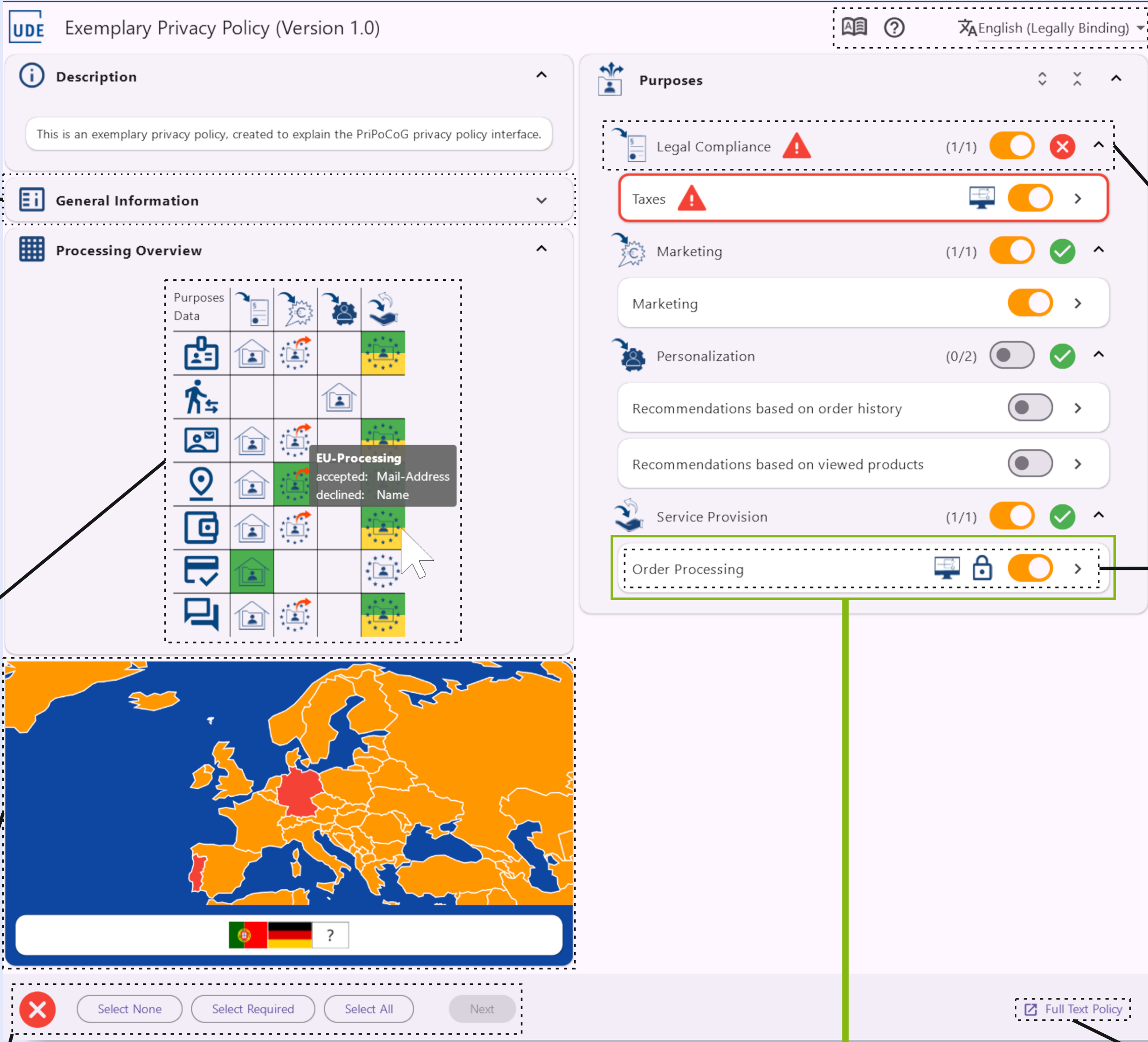
Legal Bases of the Purpose:

- consent
- legitimate interest
- contract
- public task
- legal obligation
- vital interest

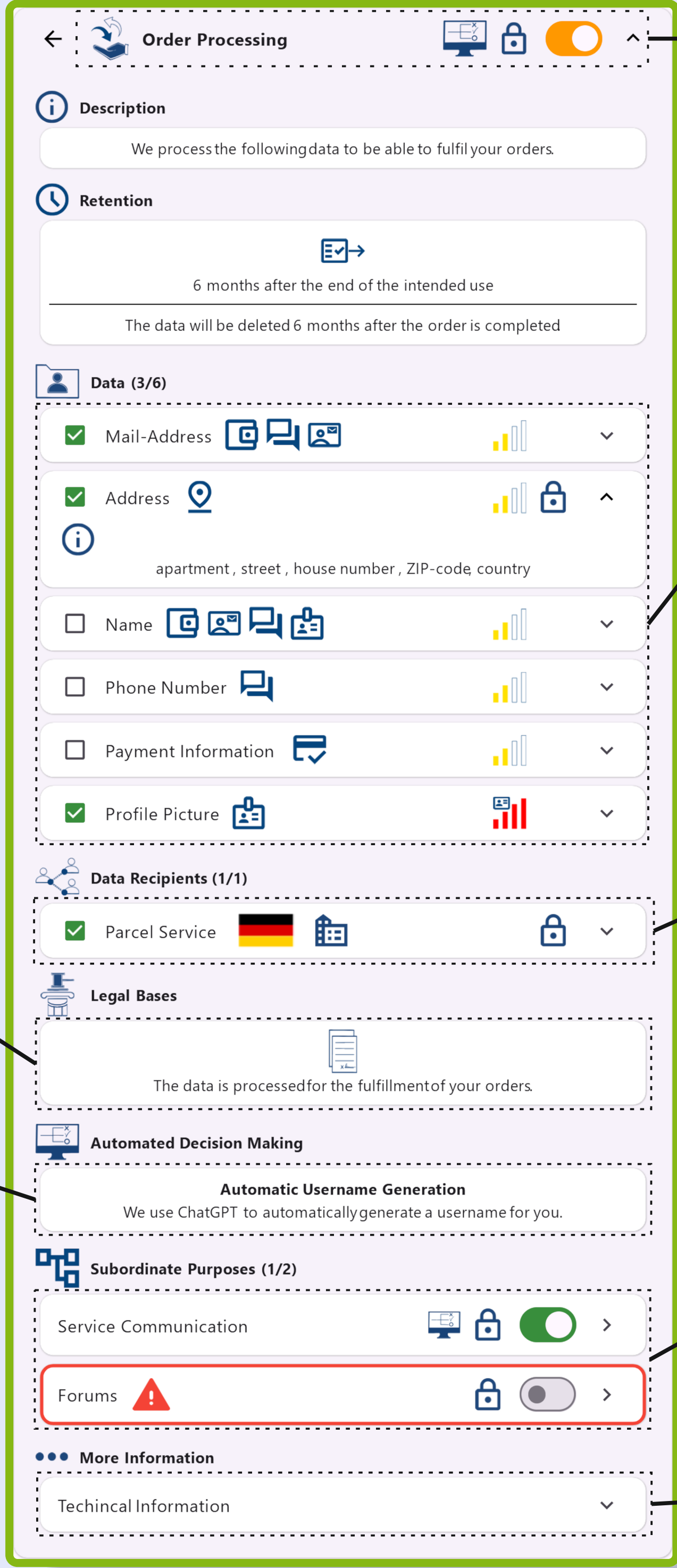
Explains how automated decision-making is used, when it is used.



TRY
THE
DEMO
YOURSELF



Purpose Details:



List of Data:

- collected and processed for the current purpose *Order Processing*
- customizable via checkbox
- icons for data categories, e.g.:
 - Identifying
 - Communication
- severity indicator (How sensitive is this datum?)
- required for policy compatibility
- expandable for more information

List of Data Recipients:

- external data processors
- empty for internal-only purposes
- customizable via checkbox
- country flag of data recipient
- type of entity:
 - person
 - legal entity
 - public authority
- required for policy compatibility
- expandable for more information

Subordinate Purposes:

- purpose can be arranged hierarchically
- customizable using switches
- clicking opens *Purpose Details* of selected purpose

Additional Technical Information:

- what privacy models are applied to data (e.g., k-anonymity)
- how is data pseudonymized

- glossary
- help
- language selection
- one policy file, many languages

Purpose Categories:

- icon
- name: *Legal Compliance*
- compatibility issue detected
- number of purposes
- switch (partially accepted)
- compatibility status of category: incompatible

Purpose "Order Processing":

- automated decision-making
- required for policy compatibility
- switch (partially accepted)

link to textual privacy policy
(required as long as EU has no standardized policy UI)

Methodology

Literature Review:

- searched for:
 - policy interfaces
 - representations
 - customizable privacy policies
- 165 papers reviewed
- identifying valuable concepts

Group Interview:

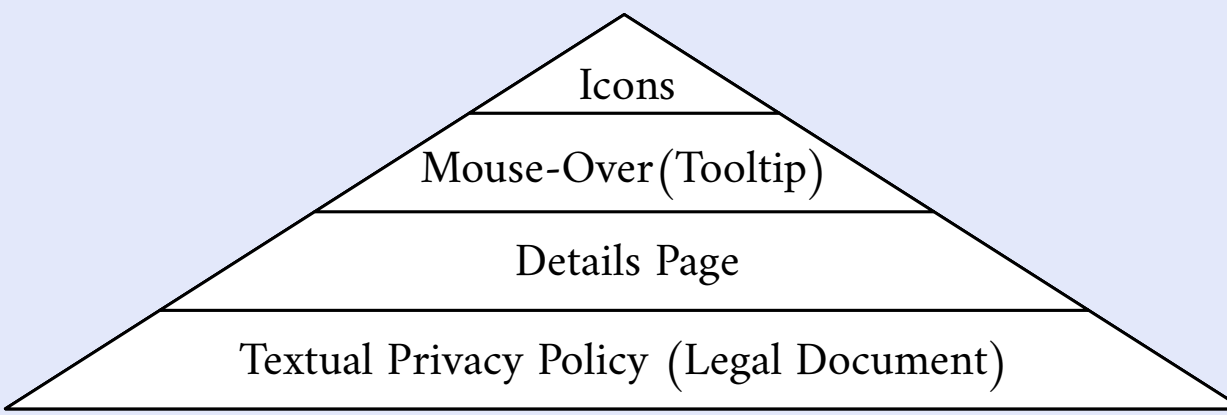
- 15 participants
- 30 minutes
- 6 guiding questions
- open discussion

⇒ 10 requirements + diverse concepts

Summary

Contribution:

- literature review
- group interview
- 4 levels of detail
- processing overview
- map for data transfers
- extension of DaPIS icon set [2]
- 15 concepts in total
- prototypical implementation



different levels of detail target different levels of interest in privacy protection:

- Pragmatists: quick decision using icons in *Processing Overview*
- Enthusiasts/Experts: scroll through details pages of purposes

Benefits:

- more details (e.g., mapping data to purposes)
- less legalese
- quick processing overview
- privacy enthusiast can go into detail
- varying levels of detail

Limitations:

- acceptance by policy authors
- lacking standardization by EU
- not yet thoroughly evaluated