Consent: Where are we going?

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Currently working on: Semantics x Privacy Risks x GDPR x Consent
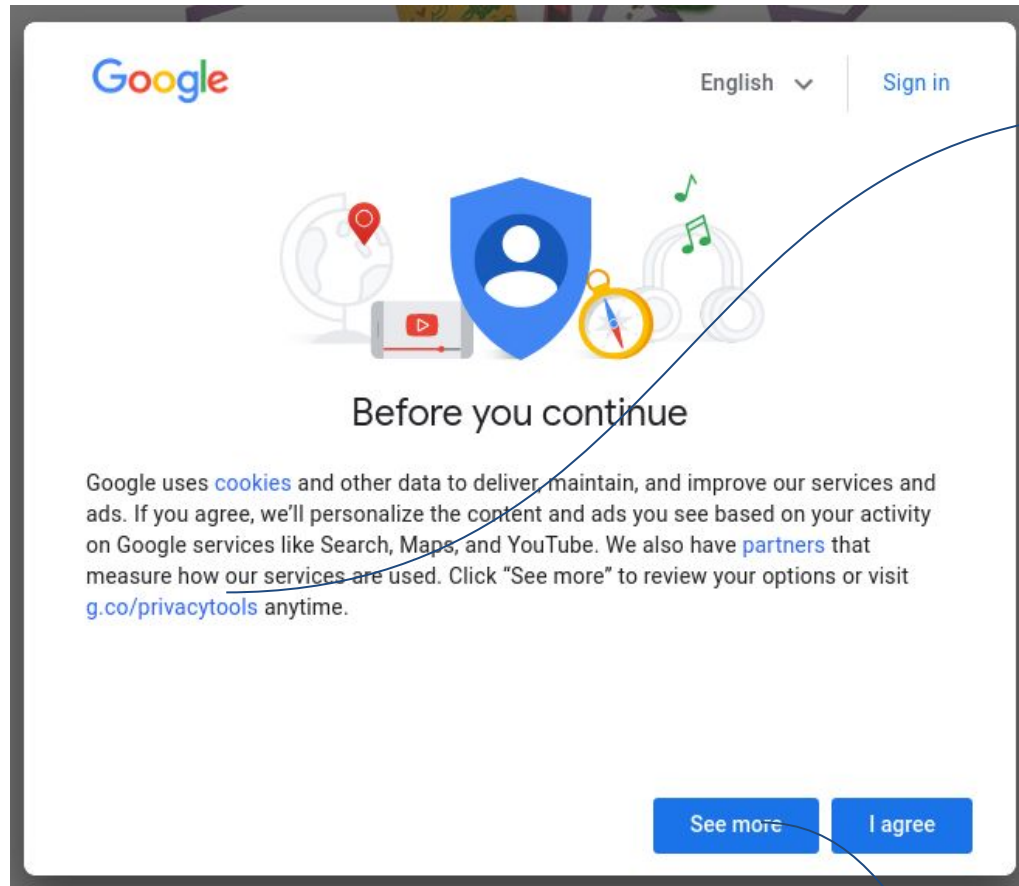
PhD: 2016-2020 Computer Science, Trinity College Dublin

Representing Activities associated with Processing of Personal Data and Consent using Semantic Web for GDPR Compliance
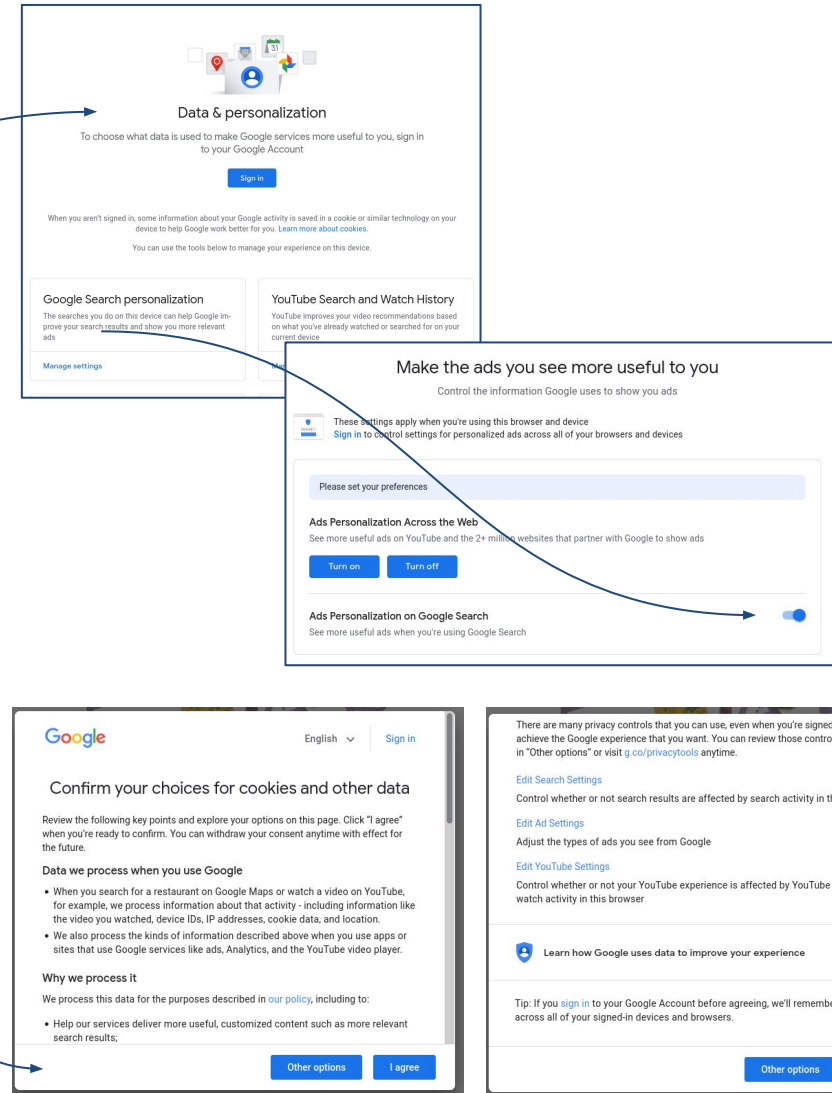
"consent" is not an optional choice

Consent dialogue on https://google.ie MAR-14 2021

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GDPR says...

Consent should be:

1. Freely given → without coercion, no obligation

2. Specific → exact and limited in scope

3. Informed → prior knowledge of consent and consequences

4. Un-ambigious → clear indication of consenting

5. Revocable / Can be Withdrawn → once given, can be cancelled

- GDPR Art. 4-11 (2016)

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GDPR also says...

GDPR Art 4, 7, 13, 14

Identity of Controller
Purpose
Processing Categories
Personal Data Categories
Right to Withdraw Consent
Data Storage Periods
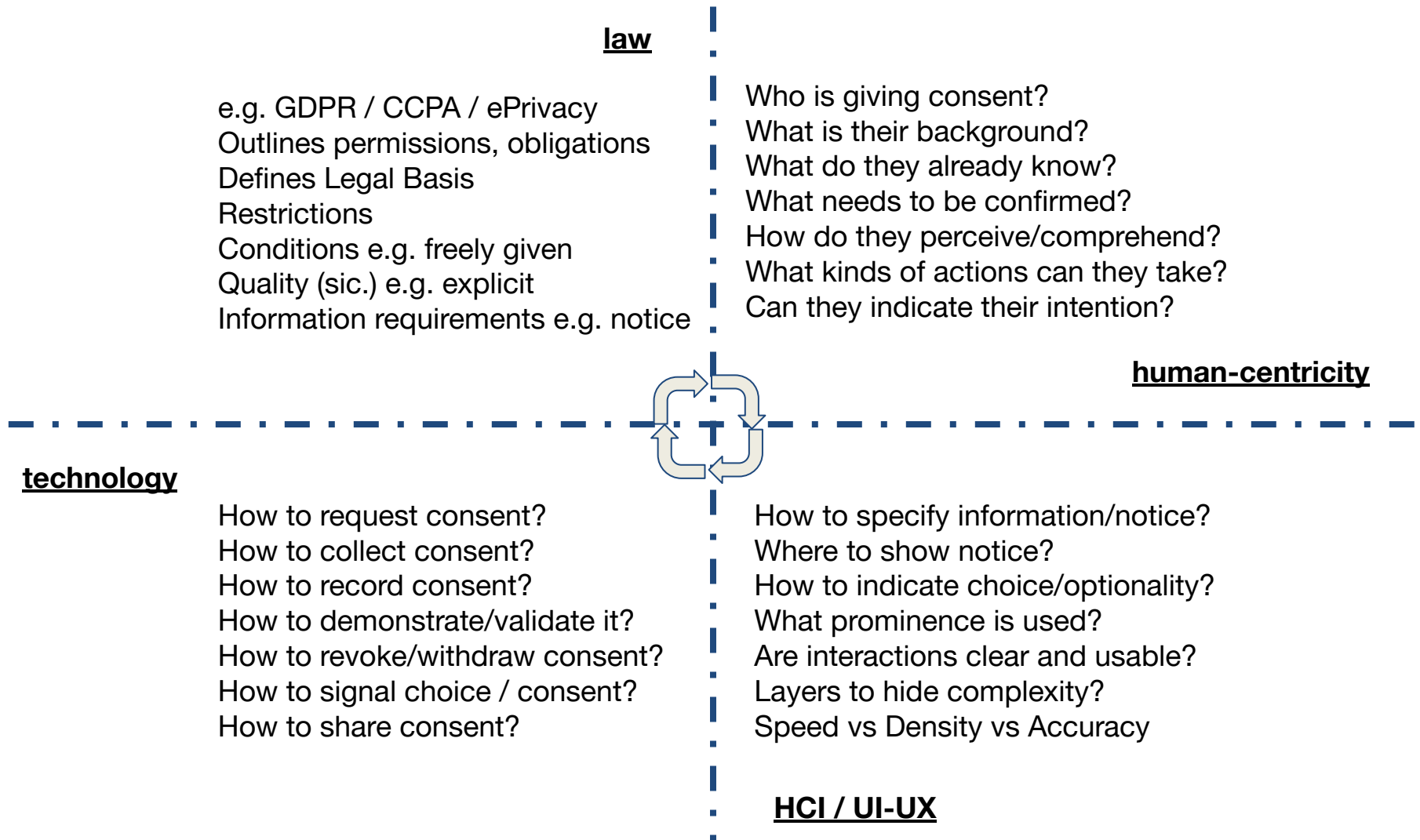Data Sharing / Recipients
Trans-border data flows
Technical and Org. Measures
Risks envisioned (sic.)
Automated Decision Making
Novel technologies
Profiling / Surveillance (sic.)

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Process of Consent - Dimensions and Domains

law

e.g. GDPR / CCPA / ePrivacy
Outlines permissions, obligations
Defines Legal Basis
Restrictions
Conditions e.g. freely given
Quality (sic.) e.g. explicit
Information requirements e.g. notice

Who is giving consent?
What is their background?
What do they already know?
What needs to be confirmed?
How do they perceive/comprehend?
What kinds of actions can they take?
Can they indicate their intention?

human-centricity

technology

How to request consent?
How to collect consent?
How to record consent?
How to demonstrate/validate it?
How to revoke/withdraw consent?
How to signal choice / consent?
How to share consent?

How to specify information/notice?
Where to show notice?
How to indicate choice/optionality?
What prominence is used?
Are interactions clear and usable?
Layers to hide complexity?
Speed vs Density vs Accuracy

HCI / UI-UX

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Comprehension - Dark Patterns

Dark Patterns (https://www.darkpatterns.org/)

Dark Patterns are tricks used in websites and apps that make you do things that you didn't mean to, like buying or signing up for something.

- Nouwens et al. (2020) scraped five most popular consent dialogue providers on top 10,000 UK websites and found that **dark patterns and implied consent are the norm** – while only 11.8% of the website analysed were GDPR compliant.
- Human and Cech (2020) investigated sociological dimensions of consent and found GAFAM policies contained several **variations of dark patterns in interaction design, visual design and textual descriptions** of notices / requests for consent.
- Matte et al. (2020) list dark patterns within the IAB framework – largest ad networks on the internet – and showed that **websites do not respect consent choices and collect data anyway** regardless of what the users chose / indicated.
- Santos et al. (2020) expand on the above work and show (opine) "it's **not possible to fully assess compliance with the law for the majority of requirements** because of the current architecture of the Web"

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Consent → Technological Solutions?

Do Not Track (DNT) → boolean (set on / off) browser signal to indicate user does not want to be 'tracked' across the websites. Last standardisation via W3C in 2019. All browsers implement it. No websites it. Spectacular failure.
https://www.w3.org/TR/tracking-dnt/

Global Privacy Control (GPC) → boolean (set on / off) browser signal to indicate user does not want their data to be 'shared' beyond the website/controller. Last specification Jan 2021. Only 1 browser currently implements it - Brave. Some websites support it. Legally enforceable under CCPA. Uncertain regarding GDPR[1].
https://globalprivacycontrol.github.io/gpc-spec/

Privacy Labels → Apple introduced notices for its App Store which requires developers to post information about data collected and used for tracking of individuals, in addition to requiring them to ask consent for tracking - and provides a global setting to prohibit such requests. The company dogfoods: https://www.apple.com/privacy/labels/

1 GPC + GDPR: will it work?. Harshvardhan J. Pandit. 2021. https://harshp.com/research/blog/gpc-gdpr-can-it-work

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Standardisation Efforts

Kantara published **Consent Receipt** (2018) specification outlining a schema for issuing 'receipts' for given consent. Barebones spec, does not meet (any? most?) legal requirements.

ISO/IEC published **29184** (2020-06) standard for online privacy notices for consent which involves requirements for consent dialogues and mentions possibility of machine-readable metadata.

Re:29184 - it requires asking explicit consent for some cases. But its definition of 'explicit consent' does not meet GDPR's requirements[1].

ISO/IEC announced **27560** (likely publication >2023) as an upcoming standardisation effort for consent receipts. Data Protection Authorities involved via national standardisation bodies.

1 Comparison of notice requirements for consent between ISO/IEC 29184:2020 and GDPR (Forthcoming). Harshvardhan J. Pandit*, Georg Philip Krog*. Journal of Data Protection & Privacy. 2021. https://doi.org/10.5281/zenodo.4444925

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Data Privacy Vocabulary[1] (DPV), v0.2, 2021 https://w3.org/ns/dpv
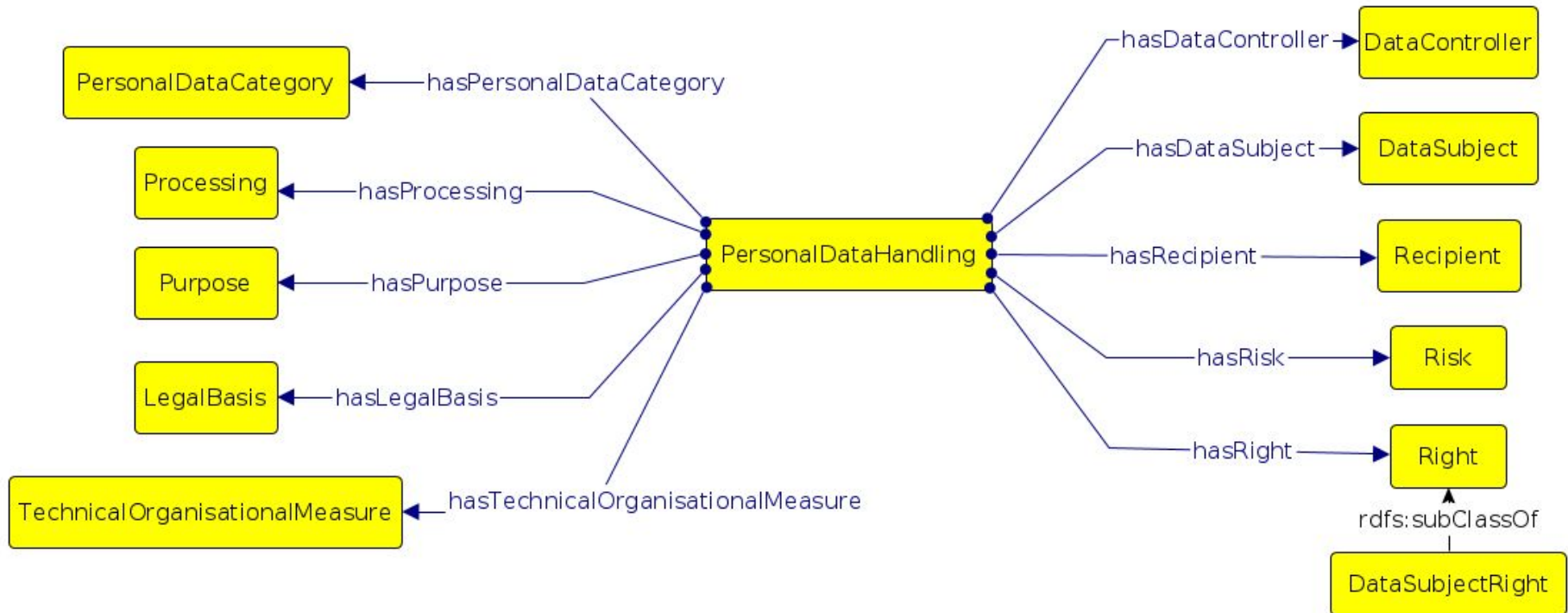
Machine-readable vocabulary for creation of technological solutions and enhancing interoperability
(A) Existing information → DPV
  e.g. NLP[2] to analyse privacy policies → extract terms → perform legal analysis
(B) DPV → Generate Information
  e.g. Utilise DPV to generate common ROPA[3] documentation for GDPR compliance

1 Creating A Vocabulary for Data Privacy (alt: Data Privacy Vocabulary (DPV)). Pandit, Polleres et al. 2019. https://zenodo.org/record/3934476
2 The Role of Vocabulary Mediation to Discover and Represent Relevant Information in Privacy Policies. Leone et al. 2020 https://ebooks.iospress.nl/volumearticle/56164
3 A Common Semantic Model of the GDPR Register of Processing Activities. Ryan et al. 2020 https://doi.org/10.3233/FAIA200876

III. METHODS & POTENTIAL APPROACHES

Sources of Information: cookie/consent notices, privacy/other policies, reports, publications, opinions of domain-experts;

Methodologies: surveys, interviews, focus groups, controlled and in-wild experiments, engagement with service providers, auditing, document analysis, data collection, data analysis;

Technological aspects: technological and algorithmic evaluation of benefits and their provision in services;

Legal compliance: conformance with legal frameworks;

Legal rights: rights provided by existing laws regarding benefits and information, e.g. Right to Access (GDPR A.15);

Information transparency: accessibility, availability, comprehensibility of information about benefits and its applicability;

Benefits within/across domains: benefits in the context of their respective domains, e.g. personalisation for retail and for medicine can have different consequences;

Linguistic aspects: quality, formulation, sentiment, readability, and vocabulary used in descriptions;

Users' perspective towards benefits: knowledge, attitude, preferences in general and specific to domains/services;

Users' perception when consenting: assess comprehension of benefits when interacting with consent requests, e.g. if a purpose is a benefit, to whom, and in what context;

Users' perception after consenting: assess (immediate and long-term) comprehension of promised and received benefits;

Service Provider perspective: knowledge, attitude, perception, framing of service providers regarding benefits;

Actors involved: different parties involved and their relations;

Representation: UI/UX aspects, nudging, dark; patterns

Other human-centric aspects: heterogeneity, cognitive, collective, and contextual aspects [5] in relation to benefits.

[How] Do Users Benefit From Giving Consent?

Harshvardhan J. Pandit*, Soheil Human*, Mandan Kazzazi*

Projects I'm working on

- RISKY: Exploring Privacy Risks of Technologies using Knowledge Graphs
  - https://harshp.com/research/projects/risky
  - Funded by Irish Research Council for 2 years
  - Create a vocabulary of known risks (using DPV)
  - Associate risks with scenarios, technologies, concepts
  - For 'new' situation, discover risks from existing knowledge

- Privacy as Expected: Consent Gateway (PaE:CG)
  - https://privacy-as-expected.org/
  - Funded by EU H2020 NGI Trust grant for 9 months
  - Update Consent Receipt to GDPR / CCPA requirements
  - Browser extension + server component to generate receipts
  - Gateway: third-party notary 'signs' receipt as a witness

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Consent Community Group
https://www.w3.org/community/consent/

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Consent: Where are we going?

★ Legal Requirements
★ Notices and Information
★ UI / UX → Dark Patterns
★ Multidisciplinary approach
★ Existing research and State of the Art
★ Technological signalling of choice/preference
★ Standardisation
★ Metadata / Data Privacy Vocabulary
★ Consumer Protection
★ Consent Receipts
★ Community Groups

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