

Digital rights management and standard setting



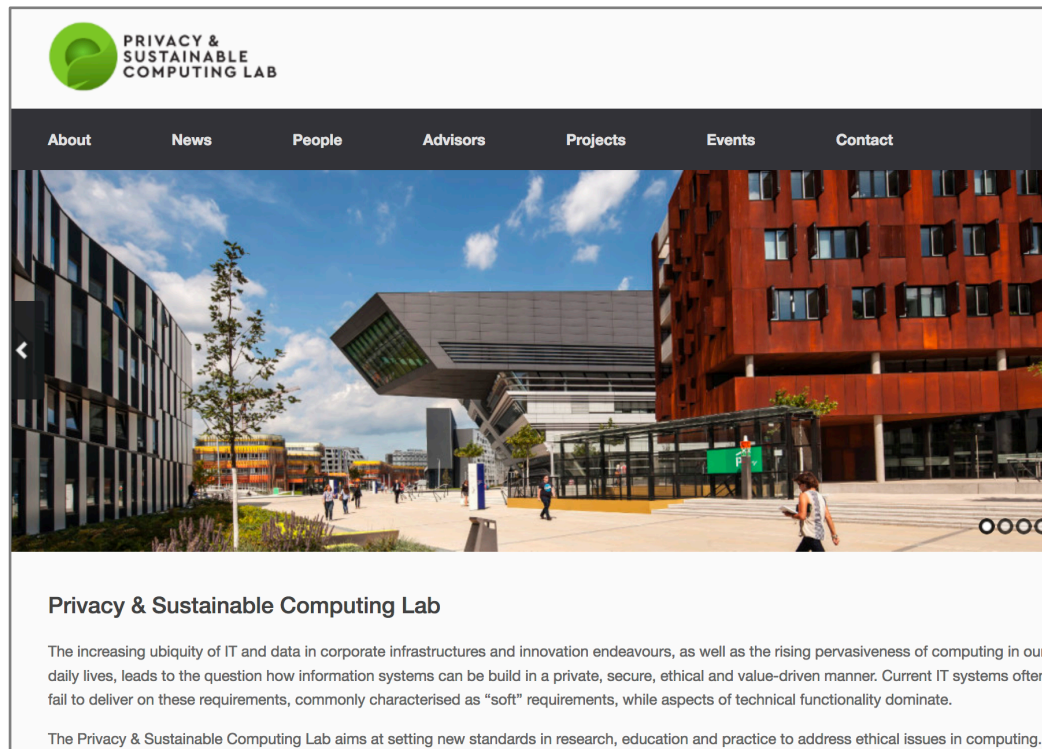
Sabrina Kirrane
Vienna University of Economics &
Business



Digital Rights Management

A multidisciplinary perspective...

- **Privacy & Sustainable Computing Lab**
- Launched September 2016: launch event with various important stakeholders: technologists, standardization, activists...
- Mission: Developing sustainable and privacy-preserving computer systems by bringing together computer science & human-centric behavioral science



<http://www.privacylab.at/>



**Dr. Sabrina
Kirrane
(Director)**



**Dr. Ben
Wagner
(Director)**



**Prof. Sarah
Spiekermann
(Founder)**



**Prof. Axel
Polleres
(Founder)**

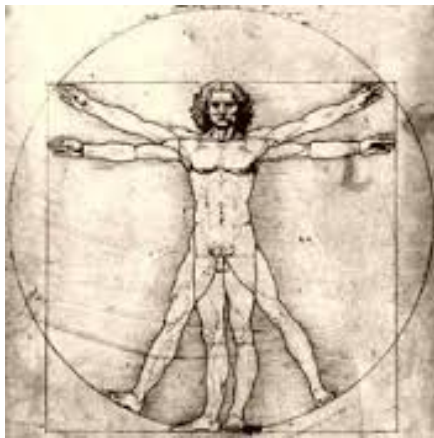
Digital Rights Management

A multidisciplinary perspective...

Online Privacy

Public Policy and Legislation

Ethical Design



Humanities

MISSION

Developing sustainable and privacy-preserving computer systems by bringing together computer science & human-centric behavioral science.



Computer Science

Net Neutrality
Fragmentation
Open Data
Open Standards



Legal

Big Data Analytics
Artificial Intelligence
Data Science

Digital Rights Management

A Data Licensing Perspective...



PIRATES HOOKED Bought a Kodi box? You're probably under investigation, UK's official copyright protectors warn

As UK officials try to tackle copyright infringement, people who buy illegal IPTV boxes 'may be investigated'

EXCLUSIVE By Margi Murphy
4th May 2017, 11:05 am | Updated: 4th May 2017, 11:06 am



COMMENT NOW

KODI box owners "may be investigated" as part of a crackdown on copyright material across the UK.

That's according to the chief executive of FACT, the federation against copyright theft, who warned that soon "some poor, unfortunate person may be the first that is made an example of".



Recent European Court of Justice ruling means:

Anyone caught streaming TV shows, films and sports events illegally using websites, torrents and Kodi add-ons could technically face a decade behind bars.



Amazon and the Premier League are also cracking down on illegal streams fed to media players running Kodi / REUTERS/Tobias Schwarz

Authorities are becoming increasingly concerned about media players loaded with the open-source software and a variety of third-party add-ons

<http://www.independent.co.uk/life-style/gadgets-and-tech/news/digital-economy-act-kodi-stream-illegal-users-prison-10-years-sentence-copyright-data-sharing-a7716131.html>

<https://www.thesun.co.uk/tech/3478956/bought-a-kodi-box-youre-probably-under-investigation-uks-official-copyright-protectors-warn/>

Digital Rights Management

A Data Licensing Perspective...



<https://pixabay.com/en/data-computer-businessmen-monitor-2899902/>

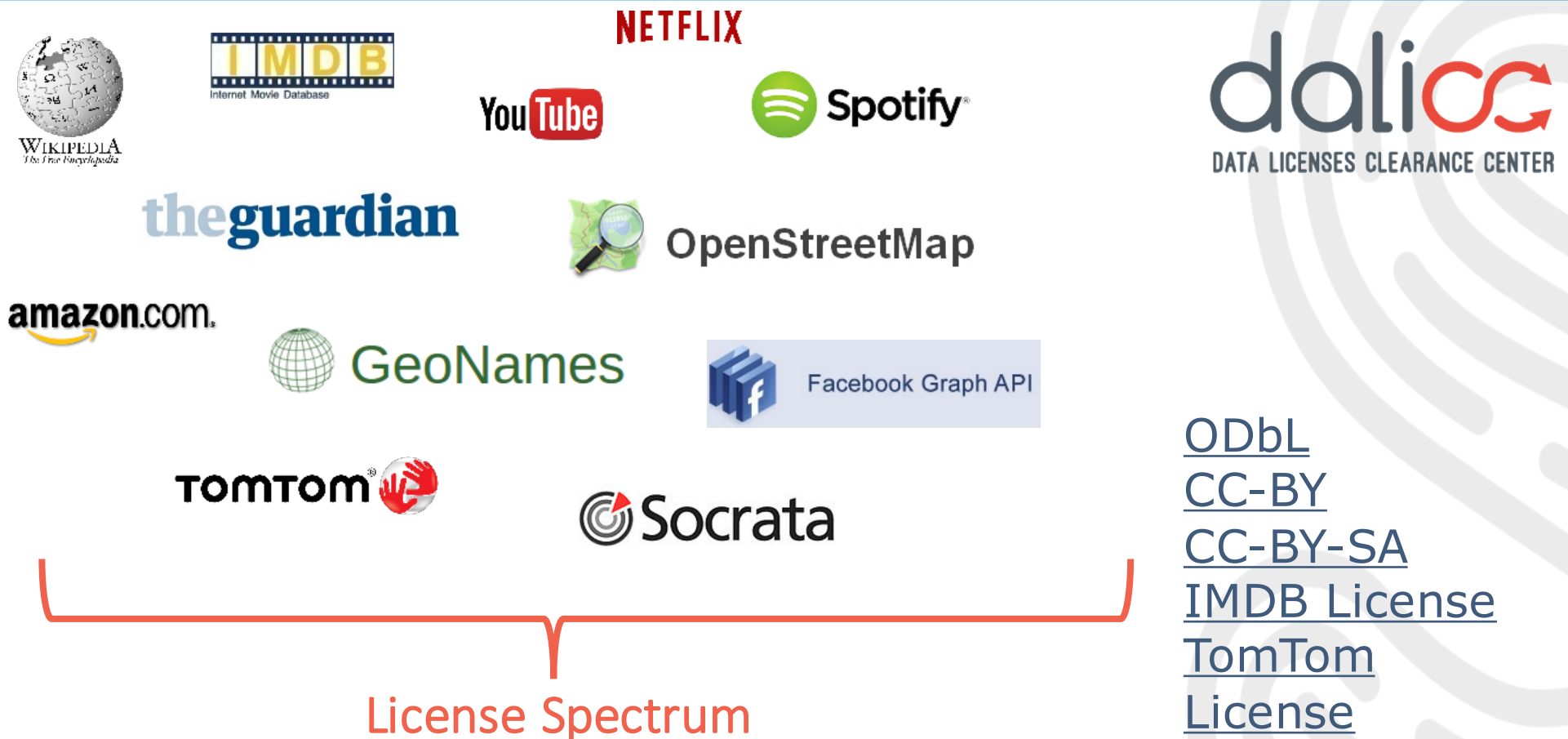
dalicc
DATA LICENSES CLEARANCE CENTER

<https://www.dalicc.net/>

DALICC is funded by the Austrian Federal Ministry of Transport, Innovation and Technology (BMVIT) under the program "ICT of the Future" between November 2016 - October 2018. More information <https://iktderzukunft.at/en/>

Digital Rights Management

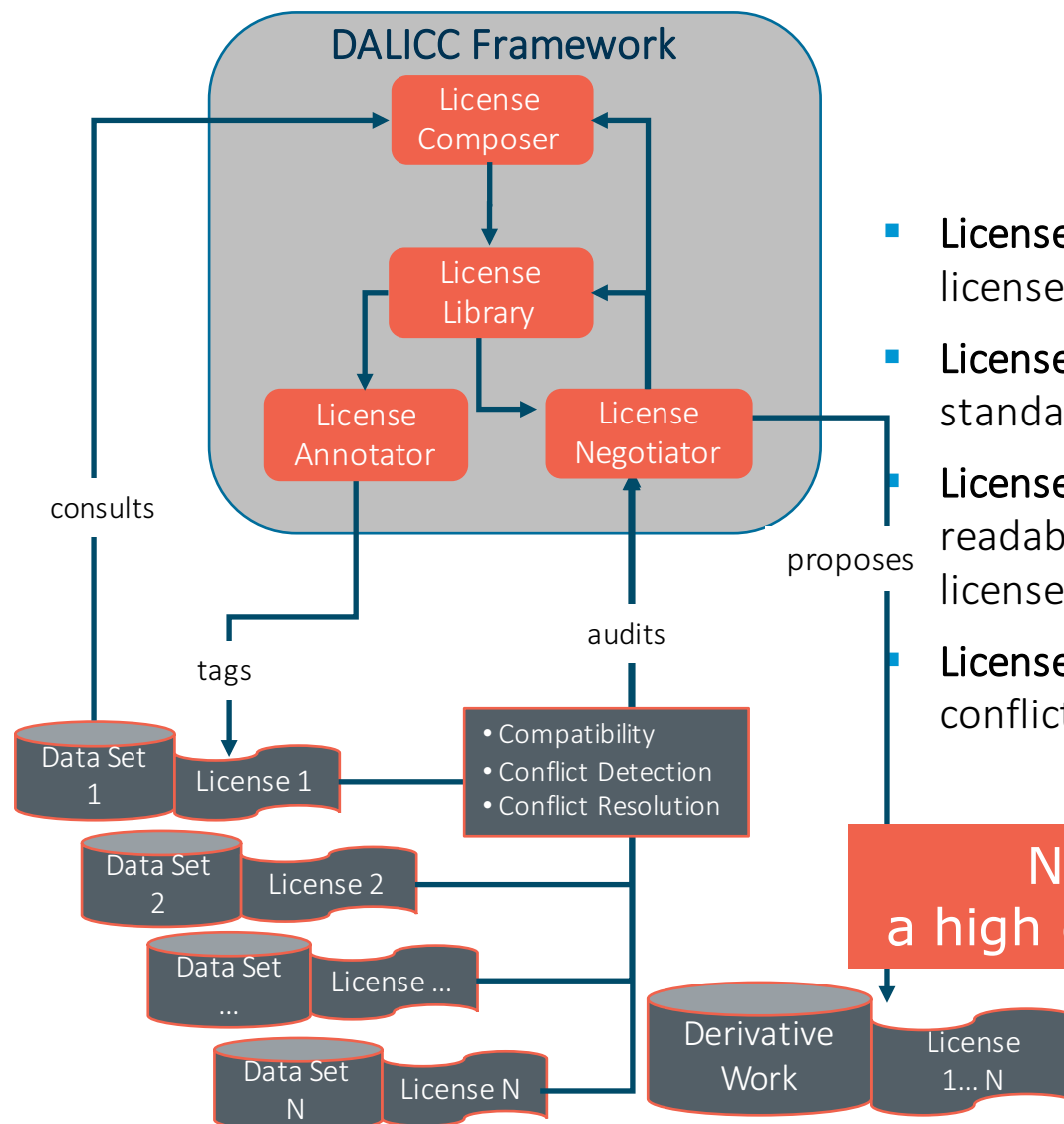
A Data Licensing Perspective...



No rights reserved ----- Some rights reserved ----- All rights reserved

Digital Rights Management

A Data Licensing Perspective...



- **License Composer:** Lets you create customised licenses
- **License Library:** Lets you choose from a set of standard licenses
- **License Annotator:** Provides you with a machine-readable and human-readable version of your license
- **License Negotiator:** Checks compatibility, detects conflicts and supports conflict resolution

N.B Very little transparency & a high dependency on legal enforcement

Digital Rights Management

A Data Protection Perspective...



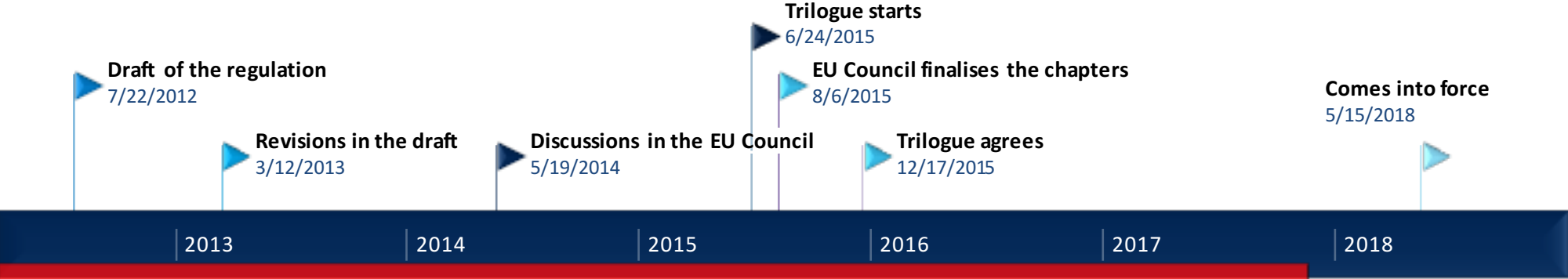
What does GDPR mean for your business?



The General Data Protection Regulation (GDPR) is a new EU data protection regulation that will come into force on 25 May 2018.

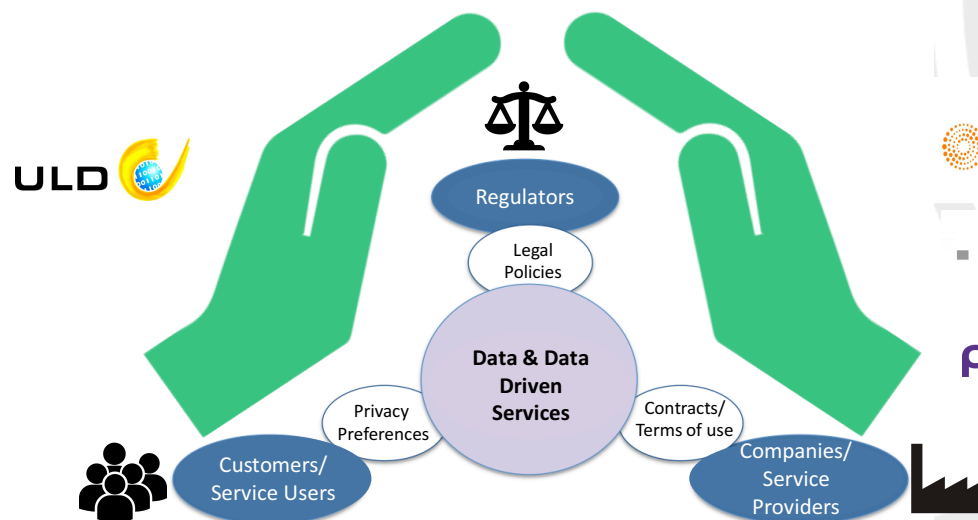
"The GDPR emphasises transparency, security and accountability by data controllers and processors, while at the same time standardising and strengthening the right of European citizens to data privacy."

[Source: Dataprotection.ie]



Digital Rights Management

A Data Protection Perspective...



Horizon 2020
 European Union funding
 for Research & Innovation

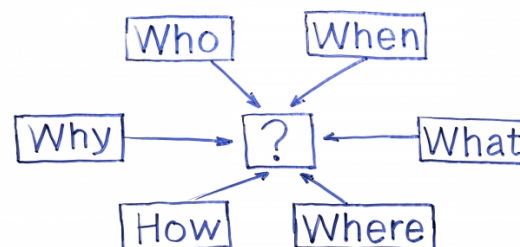
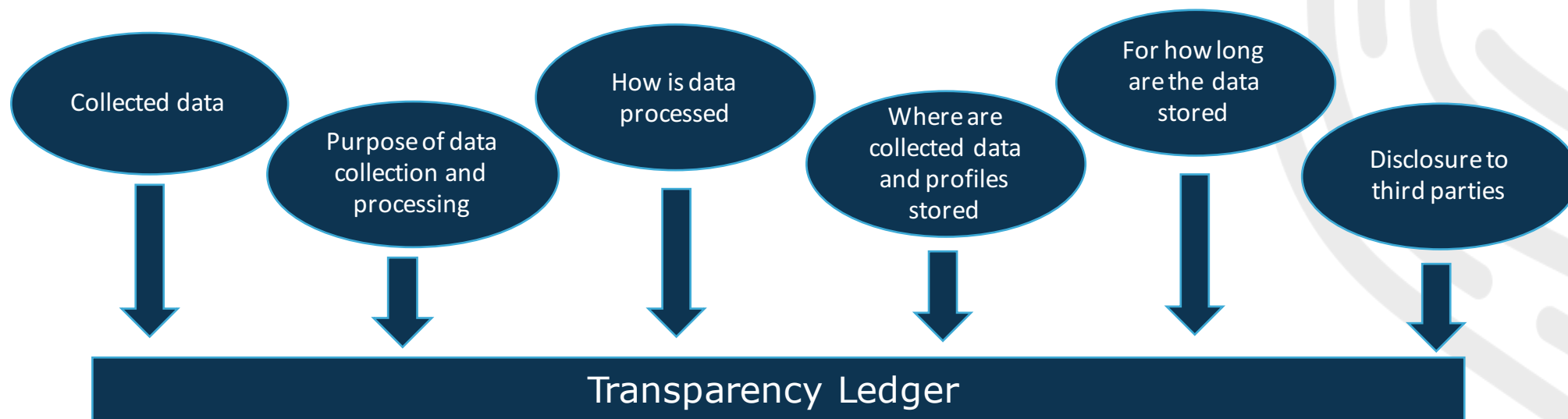
This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 731601

<https://www.specialprivacy.eu/>



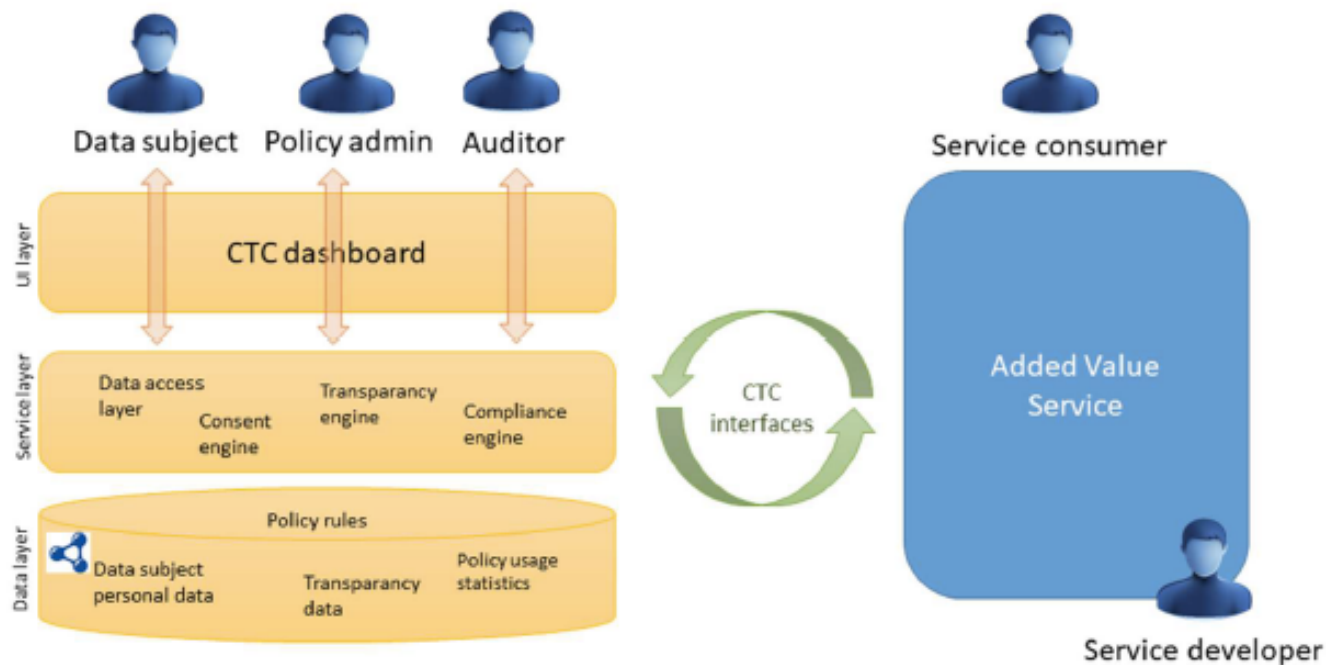
Digital Rights Management

A Data Protection Perspective...



Digital Rights Management

A Data Protection Perspective...



- Enable the acquisition of **user consent** at in a dynamic fashion
- Provide **transparency** on how data is processed and with whom it is shared
- Automatically verify **compliance** with usage control policies specified by data subjects, and legal obligations specified in the GDPR

N.B. More transparency
Although still a high dependency on legal enforcement

Digital Rights Management

What are we doing in terms of standardisation?

W3C[®] COMMUNITY & BUSINESS

[Home](#) / ODRL Community Group

ODRL COMMUNITY GROUP

The W3C ODRL Community Group's aim is to develop and promote an open international specification for Policy Language expressions. The ODRL Policy Language provides a flexible and interoperable model for the transparent and innovative use of digital content, applications and services. The ODRL Policy model is open, educational, government, and industry focused. We enhance the model to align to their requirements and add a semantic layer for interoperability.

Note: Community Groups are proposed and under development. Conversations, the groups do not necessarily...

info@hub4ngi.eu

HUB4NGI

ABOUT NEWS NGI MAP LINKS RESOURCES EVENTS CONTACT

WELCOME TO

HUB4NGI THE NEXT GENERATION INTERNET

IEEE STANDARDS ASSOCIATION

Contact FAQs

Find Standards Develop Standards Get Involved News & Events About Us Buy Standards

IEEE PROJECT

P7000 - Model Process for Addressing Ethical Concerns During System Design

Engineers, technologists and other project stakeholders need a methodology for identifying, analyzing and reconciling ethical concerns of end users at the beginning of systems and software life cycles. The purpose of this standard is to enable the pragmatic application of this type of Value-Based System Design methodology which demonstrates that conceptual analysis of values and an extensive feasibility analysis can help...

STATUS:
Active Project

Software life cycles. In an increasingly interconnected world, IS processes, IS methods to minimize risks for users. The and technologists stages of system development include development, design, and...

[Methodologies for Ethical Life-Cycle Concerns Working](#)

- **Policy language** for expressing permissions, prohibitions, obligations and dispensations
- The bottom-up development of core **vocabularies** to enable interoperability between systems
- **Transparent Linked Data Web** (data processing in general e.g. data protection, public procurement, media, and political transparency)
 - Support both **open** (publicly accessible) and **closed** (access controlled) data sources
 - **Web Protocols** are necessary to support transparent data processing
 - Plug and play framework for **mashups**, including standard **templates** and interfaces especially in terms of generic policies, events, transparency and compliance controls

Thank you / contact details



VIENNA UNIVERSITY OF
ECONOMICS AND BUSINESS

Department of Information Systems & Operations

Institute for Information Business
Welthandelsplatz 1, 1020 Vienna, Austria

Dr. Sabrina Kirrane

T +43-1-313 36-4494
F +43-1-313 36-90 4494
sabrina.kirrane@wu.ac.at
www.wu.ac.at

www.sabrinakirrane.com

[@SabrinaKirrane](#)

