

A SPECIAL vision for enabling privacy through Linked Data

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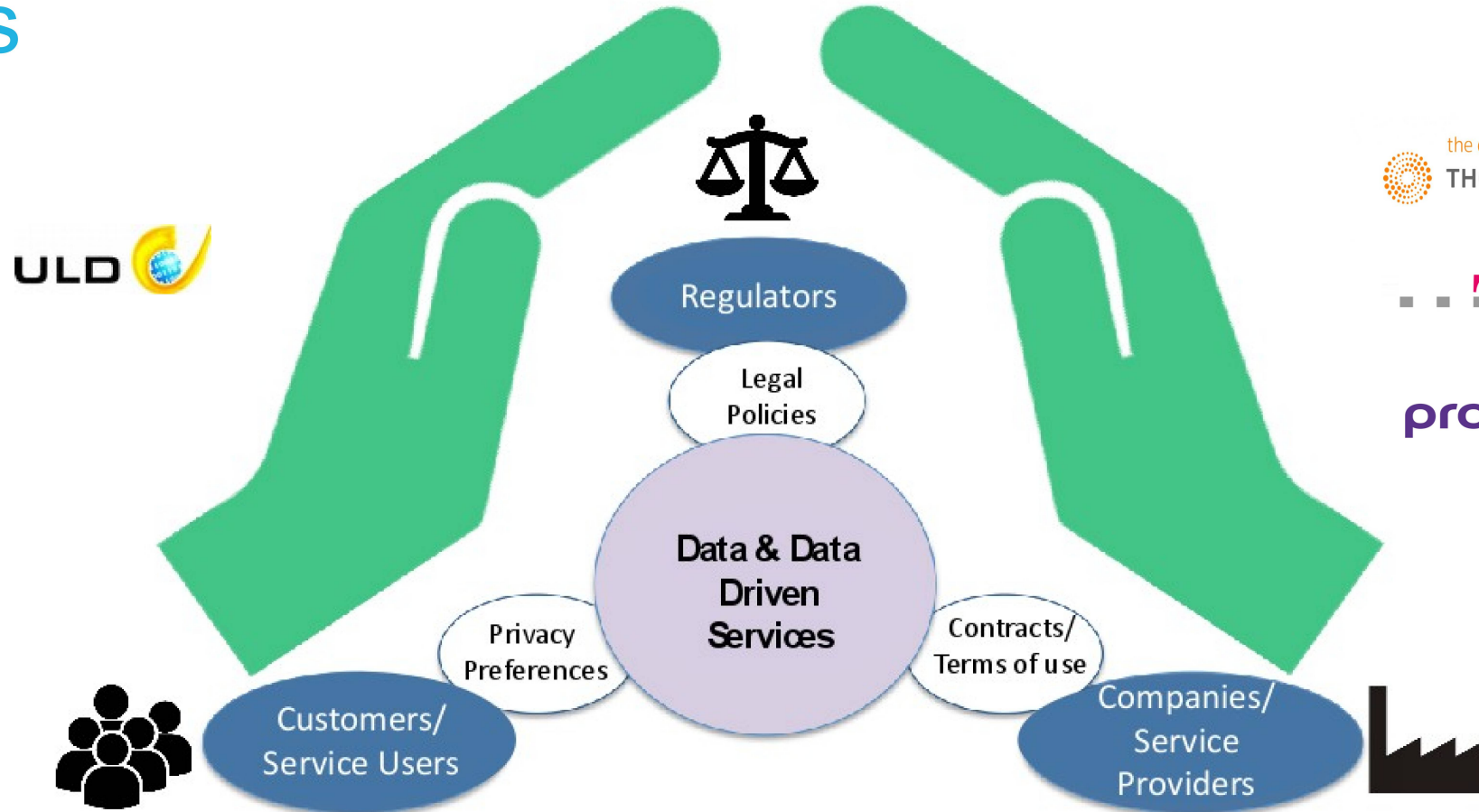


Horizon 2020
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SPECIAL Overview

Aims



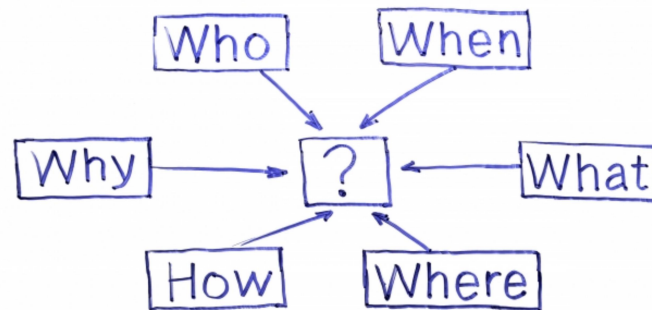
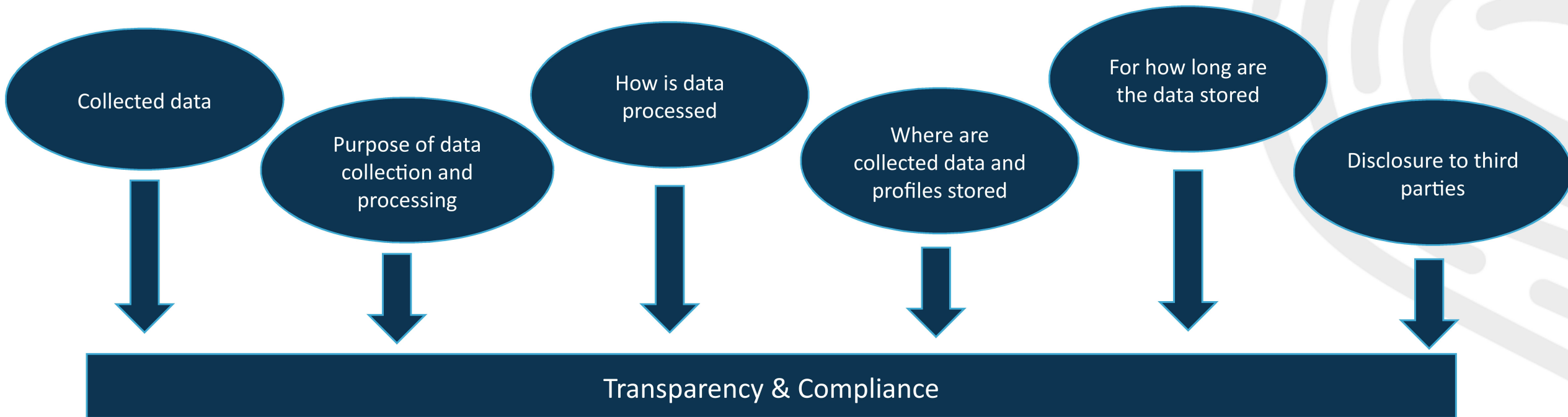
SPECIAL Overview

Objectives

- Policy management framework
 - ❖ Gives **users control** of their personal data
 - ❖ Represents **access/usage policies** and **legislative requirements** in a **machine readable format**
- Transparency and compliance framework
 - ❖ Provides information on how data is **processed** and with whom it is **shared**
 - ❖ Allows data subjects to take **corrective action**
- Scalable policy-aware Linked Data architecture
 - ❖ Build on top of the Big Data Europe (BDE) platform **scalability and elasticity mechanisms**
 - ❖ Extended BDE with **robust policy, transparency** and **compliance protocols**

The SPECIAL Policy Language

Starting Points



The SPECIAL Policy Language

Existing Vocabularies

- **FOAF**, **vCard** and **schema.org** offer vocabularies for modeling static personal data to describe persons, agents
- **DICOM** for healthcare metadata has dynamic attributes relevant to fitness and health, such as heart rate
- **NeoGeo** vocabulary, the **GeoSPARQL** vocabulary or the **WGS84 Geo Positioning** vocabulary can be used for location data
- **P3P** working group published an RDF vocabulary for expressing the concepts of **P3P** including a categorization of personal data and purposes
- **ODRL** provides means to model actions, prohibitions, and obligation to describe policies and consent
- **OWL Time** provides means to describe the time and duration of processing, duration of consent, logging events
- **PROV** provides an excellent starting point for modeling the provenance of consent and data processing actions

The SPECIAL Policy Language

More Details

Unofficial Draft

TABLE OF CONTENTS

1. Introduction
 - 1.1 What is a Usage Policy?
 - 1.2 Audience and scope
 - 1.3 Document conventions and namespaces
2. Conformance
3. The SPECIAL's Usage Policy Language
 - 3.1 Basic Usage Policies
 - 3.2 General Usage Policies
 - 3.3 Storage Expressions
4. Compliance Checking
5. SPECIAL's Usage Policy Language Grammar
6. Acknowledgements
- A. References
 - A.1 Normative references
 - A.2 Informative references

The SPECIAL Usage Policy Language

version 0.1

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Abstract

This document specifies usage policy language of SPECIAL. The usage policy language is meant to express both the data subjects' consent and the data usage policies of data controllers in formal terms, understandable by a computer, so as to automatically verify that the usage of personal data complies with data subjects' consent.

The ontology defined in this document is publicly available at <http://www.specialprivacy.eu/langs/usage-policy>.

ReSpec



Project deliverables

by Linh Nguyen · Last Updated: 26 March 2018

Deliverable 6.1 - SPECIAL website set up (M3)

[Deliverable 6.1](#)

This document provides an overview of the initial SPECIAL project website as it stands at Project Month 3.

Deliverable 1.2 - Legal requirements for a privacy enhancing Big Data V1 (M6)

[Deliverable 1.2](#)

This is the report providing details of all legal and ethical considerations, as a main input for the SPECIAL privacyaware platform.

Deliverable 3.1 - Initial setup of policy aware Linked Data architecture and engine (M6)



Project deliverables

Papers & presentations

Press releases and newsletters

Studies & essays

Dissemination material