# Scalable Policy-awarE Linked Data arChitecture for prIvacy, trAnsparency and compLiance

Sabrina Kirrane and Piero Bonatti

26/06/2017
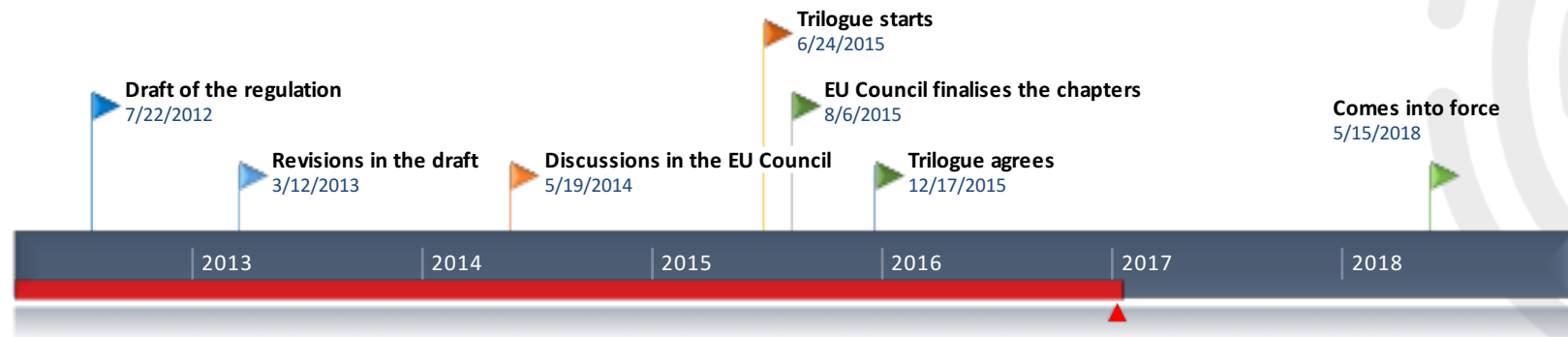
SPECIAL

European Commission

# SPECIAL Aims

**Trilogue starts**
6/24/2015

**Draft of the regulation**
7/22/2012

**EU Council finalises the chapters**
8/6/2015

**Comes into force**
5/15/2018

**Revisions in the draft**
3/12/2013

**Discussions in the EU Council**
5/19/2014

**Trilogue agrees**
12/17/2015

| 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|---|---|---|---|---|

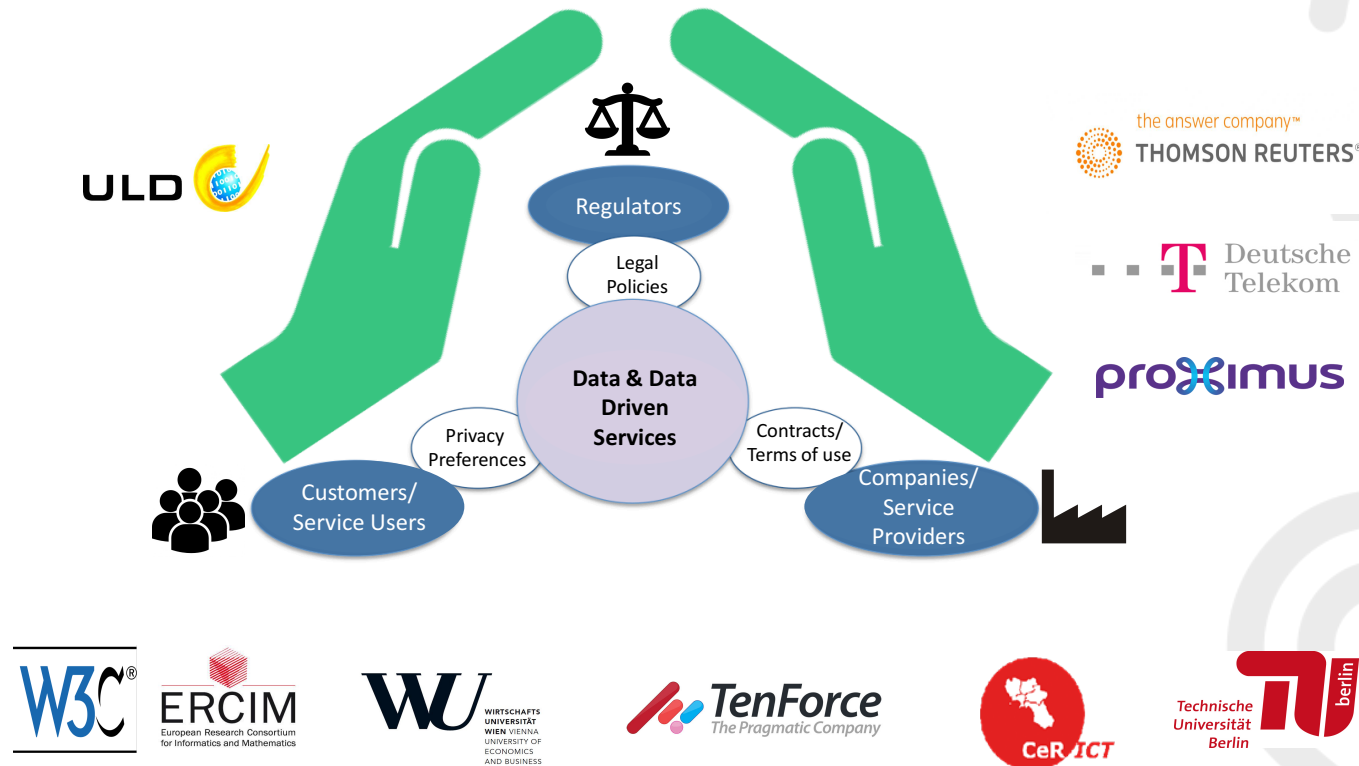**Companies** whose business models rely on personal data

**Data subjects** who would like to declare, monitor and optionally revoke their (often not explicit) preferences on data sharing

**Regulators** who can leverage technical means to check compliance with the GDPR

# SPECIAL Aims

# SPECIAL 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**
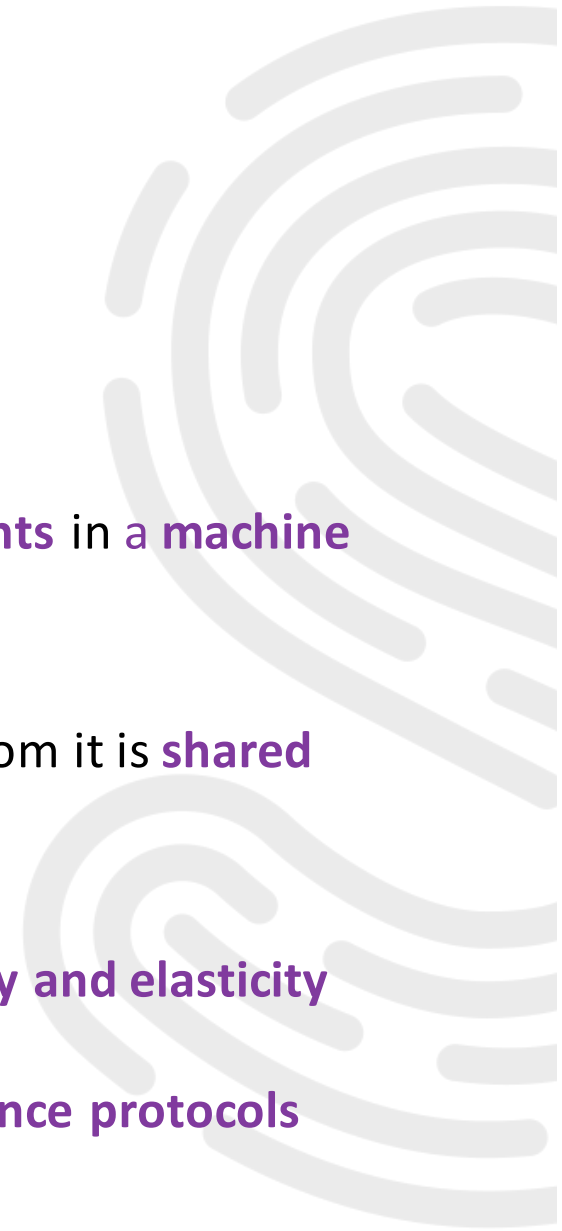
# SPECIAL Technical Foundations
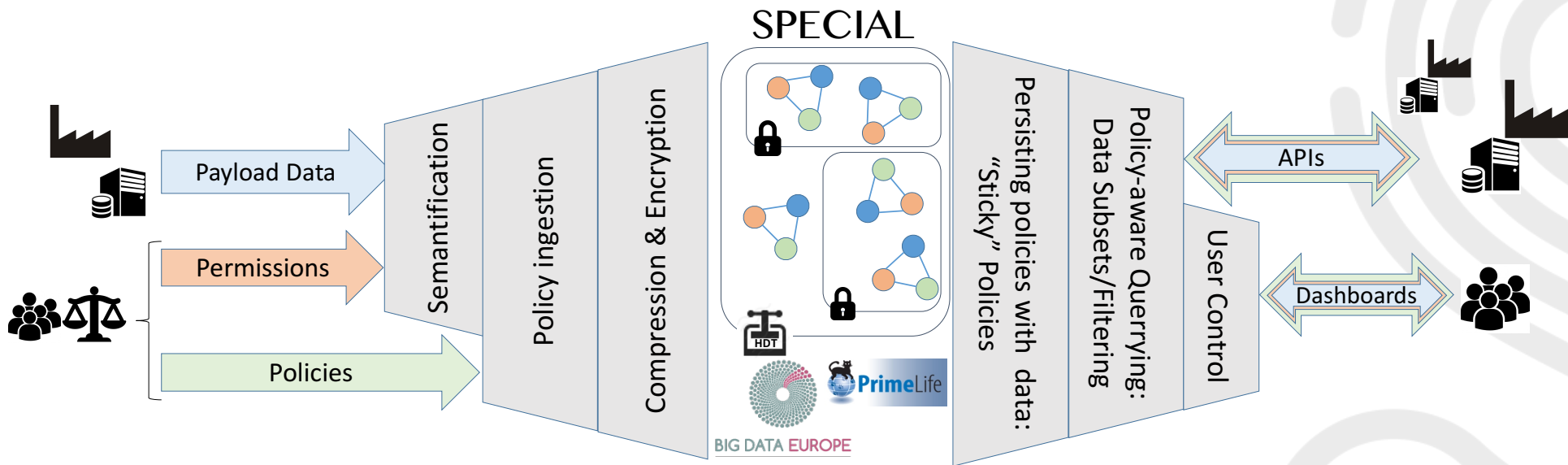


- **Big Data Europe** scalability and elasticity
- **PrimeLife** policy languages, access control policies, release policies and data handling policies

# Thank you / contact details

**Technical/Scientific contact**

Sabrina Kirrane

Vienna University of Economics and Business

sabrina.kirrane@wu.ac.at

**Administrative contact**

Philippe Rohou

ERCIM W3C

philippe.rohou@ercim.eu