# Scalable Policy-aware linked data architecture for privacy, transparency and compliance

## Fact Sheet

<table>
<thead>
<tr>
<th>Project Information</th>
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<td><strong>SPECIAL</strong></td>
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<tr>
<td>Grant agreement ID: 731601</td>
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<td><strong>DOI</strong></td>
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<td><strong>Funded under</strong></td>
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<td>INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)</td>
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<td><strong>Total cost</strong></td>
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<td>€ 3 991 388,75</td>
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<td><strong>EU contribution</strong></td>
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<td>€ 3 991 388,75</td>
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<td><strong>Coordinated by</strong></td>
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<td>GEIE ERCIM</td>
<td>France</td>
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<td><strong>Start date</strong></td>
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<td>1 January 2017</td>
<td>31 December 2019</td>
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Objective

The SPECIAL project will address the contradiction between Big Data innovation and privacy-aware data protection by proposing a technical solution that makes both of these goals realistic. We will develop technology that: (i) supports the acquisition of user consent at collection time and the recording of both data and metadata (consent, policies, event data, context) according to legislative and user-specified policies; (ii) caters for privacy-aware, secure workflows that include usage/access control, transparency and compliance verification; (iii) demonstrates robustness in terms of performance, scalability and security all of which are necessary to support privacy preserving innovation in Big Data environments; and (iv) provides a dashboard with feedback and control features that make privacy in Big Data comprehensible and manageable for data subjects, controllers, and processors. SPECIAL shall allow citizens and organisations to share more data, while guaranteeing data protection compliance, thus enabling both trust and the creation of valuable new insights from shared data. Our vision will be realised and validated via real world use cases that - in order to be viable - need to overcome current challenges concerning the processing and sharing of data in a privacy preserving manner. In order to realise this vision, we will combine and significantly extend big data architectures to handle Linked Data, harness them with sticky policies as well as scalable queryable encryption, and develop advanced user interaction and control features: SPECIAL will build on top of the Big Data Europe and PrimeLife Projects, exploit their results, and further advance the state of the art of privacy enhancing technologies.

Fields of science

natural sciences › computer and information sciences › computer security › access control
natural sciences › computer and information sciences › computer security › data protection
natural sciences › computer and information sciences › data science › big data
natural sciences › computer and information sciences › data science › data processing
natural sciences › computer and information sciences › internet › semantic web
Programme(s)

H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

Topic(s)

ICT-18-2016 - Big data PPP: privacy-preserving big data technologies

Call for proposal

H2020-ICT-2016-2017

See other projects for this call

Sub call

H2020-ICT-2016-1

Funding Scheme

RIA - Research and Innovation action

Coordinator

GEIE ERCIM

Net EU contribution

€ 672 170,00

Address

Route Des Lucioles 2004 Sophia Antipolis
06410 Biot

France

Provence-Alpes-Côte d’Azur > Provence-Alpes-Côte d’Azur > Alpes-Maritimes

Activity type

Other

Links
Participants (9)

**WIRTSCHAFTSUNIVERSITAT WIEN**

- Austria
- Net EU contribution: € 650 737.50
- Address: Welthandelsplatz 1, 1020 Wien
- Region: Wien
- Activity type: Higher or Secondary Education Establishments
- Links: Contact the organisation, Website, Participation in EU R&I programmes, H2020 collaboration network
- Non-EU contribution: € 0.00

**CENTRO REGIONALE INFORMATION E COMMUNICATION TECHNOLOGY SCARL**

- Italy
- Net EU contribution: € 449 375.00
- Address: Via Traiano Palazzo Ex Poste Snc, 82100 Benevento
- Links: Contact the organisation, Website, Participation in EU R&I programmes, H2020 collaboration network
- Non-EU contribution: € 0.00
**Research Organisations**

**TECHNISCHE UNIVERSITAT BERLIN**

Germany

Net EU contribution

€ 343 000,00

Address

Strasse Des 17 Juni 135
10623 Berlin

Region

Berlin > Berlin > Berlin

**UNABHANGIGES LANDESZENTRUM FUR DATENSCHUTZ**

Germany

Net EU contribution

€ 361 950,00

Address

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5 of 9
Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

Contact the organisation Website Participation in EU R&I programmes H2020 collaboration network

Non-EU contribution

€ 0,00

TENFORCE

Belgium

Net EU contribution

€ 622 406,25

Address

Havenkant 38
3000 Leuven

SME

Yes

Region

Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation Participation in EU R&I programmes H2020 collaboration network

Non-EU contribution

€ 0,00

DEUTSCHETELEKOM AG
DEUTSCHE TELEKOM AG

Germany

Net EU contribution

€ 281 250,00

Address

Friedrich-ebert-allee 140
53113 Bonn

Region

Nordrhein-Westfalen > Köln > Bonn, Kreisfreie Stadt

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Website
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution

€ 0,00

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THOMSON REUTERS GROUP LIMITED

United Kingdom

Net EU contribution

€ 179 116,11

Address

30 South Colonnade Canary Wharf The Thomson Reuters Building
E14 5EP London

Region

London > Inner London — East > Tower Hamlets

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution

€ 0,00
PROXIMUS
Belgium
Net EU contribution
€ 265 500,00
Address
Boulevard Du Roi Albert II 27
1030 Bruxelles
Region
Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation
Website
Participation in EU R&I programmes
H2020 collaboration network
Non-EU contribution
€ 0,00

REFINITIV LIMITED
United Kingdom
Net EU contribution
€ 165 883,89
Address
The Thomson Reuters Building 30
E14 5EP London
Region
London > Inner London — East > Tower Hamlets
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation
Participation in EU R&I programmes
H2020 collaboration network
Non-EU contribution
